1C

CITY MANAGER'S OFFICE
CITY MANAGER SIGNATURE REQUEST ROUTING FORM

Rev: 10 | Revision Date: 06/12/2025

SECTION 1 | SUMMARY INFORMATION

Date: 9/17/25

■ **Agenda Item** ☐ **Commission Memo** ☐ **Letter (to external agency)** ☐ **Other Document**

Document Title/Purpose: Service Agreement for Las Olas Garage Lighting Facade - (RFP 427-5; The Luminicos, Corp)

Commission Meeting Date: 9/16/2025 **CAM #:** 25-0822 **Item #:** M-1

CAM attached: ■ Yes ☐ No **Action Summary Attached:** ■ Yes ☐ No **CIP FUNDED:** ☐ Yes ■ No

Community Investment Plan (CIP) Project defined as having a life of at least 10 years and a cost of at least $100,000 and shall mean improvements to real property (land, buildings, or fixtures) that add value and/or extend useful life, including major repairs such as roof replacement. Term "real property" includes land, real estate, realty, or real.

SECTION 2 | REQUESTOR (CHARTER OFFICE/DEPARTMENT)

Charter Office: _____ **Router Name:** _____ **Ext:** _____

Department: Finance-Procurement **Router Name:** Matthew Eaton **Ext:** x5141

Department Approval *(Director/Chief)* **Name:** Glenn Marcos **Init.:** GM **Date:** 9/17/25

***Return Document To:** Matthew Eaton **Department:** Finance-Procurement **Ext:** x5141

***REMINDER:** Once review and signature at the last level of government (Federal, State, County) is complete, scan the final record copy and send to the City Clerk's Office.*

Scan Date: _____ Attach Certified Resolution #: _____ Original form route to CAO: ■ Yes ☐ No

THE FOLLOWING SECTIONS ARE FOR CHARTER OFFICE USE ONLY

SECTION 3 | CITY ATTORNEY'S OFFICE (CAO): CAO signed/routed Required ■ Yes ☐ No

Is the attached Granicus document final? ■ Yes ☐ No **Number of Originals Attached:** 1

Attorney's Name: Kimberly Cunningham Mosley **Approved as to Form:** ☐ Yes ☐ No **Initials:** KCM

Route to: Finance *(if applicable)* **Date:** _____ **Route to: CCO Date:** 9/24/25

SECTION 4 | CITY CLERK'S OFFICE (CCO)

City Clerk Office Receive and Scan Date: _____ **Number of Originals:** 1

Route to CMO Date: 09/24/25 **Route to Mayor Date:** _____

SECTION 5 | CITY MANAGER'S OFFICE (CMO)

LOG #: SEP124 **Date Received:** 9/25/25 **Received From:** CCO

To CM/ACM: ☐ R. Williams ☐ C. Cooper ☐ A. Fajardo ☐ S. Grant ☐ L. Reece ☒ B. Rogers

Approved Init.: [signature] 09.25.25 for continuous routing to ***Rickelle Williams, City Manager/Executive Director***

Disapproved: _____ **Comments:** _____

Executive Assistant Route to CCO Date: 9/26/25

Form Approved by: Rickelle Williams, City Manager
Uncontrolled in hard copy unless otherwise marked

WE BUILD COMMUNITY

SERVICE AGREEMENT FOR
LAS OLAS GARAGE LIGHTING FACADE

THIS SERVICE AGREEMENT for Las Olas Garage Lighting Facade ("Agreement"), made this 26th day of September, 2025, ("Effective Date") is by and between the City of Fort Lauderdale, a Florida municipality ("City"), with its principal address located at 101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301, and The Luminicos, Corp, a Delaware corporation authorized to conduct business in the State of Florida ("Contractor"), with its principal address located at 2125 Biscayne Boulevard, Suite 242, Miami, Florida 33137; Email: the@luminicos.com; Phone: (786) 789-0606, (individually, "Party" and collectively, "Parties").

NOW THEREFORE, for and in consideration of the mutual promises and covenants set forth herein and other good and valuable consideration, Contractor shall provide Las Olas Garage lighting facade services and the City and the Contractor covenant and agree as follows:

WITNESSETH:

I. DOCUMENTS

The following documents (collectively "Contract Documents") are hereby incorporated into and made part of this Agreement:

(1) Request for Proposals No. 427-5 - Las Olas Garage Lighting Facade, including any and all exhibits and addenda prepared by the City of Fort Lauderdale **("RFP" or "Exhibit A")**.

(2) The Contractor's response to the RFP, dated April 29, 2025 **("Exhibit B")**, except that any language contained in Exhibit B suggesting that any part of Exhibit B is confidential is deleted by this reference.

(3) The Competitive or Non-Competitive Negotiations Term Sheet and Bid Tabulation **("Exhibit C")**.

All Contract Documents may also be collectively referred to as the "Documents." In the event of any conflict between or among the Documents or any ambiguity or missing specifications or instruction, the following priority is established:

A. First, this Agreement dated September 26th, 2025 and any attachments.
B. Second, Exhibit C.
C. Third, Exhibit A.
D. Fourth, Exhibit B

II. SCOPE

The Contractor shall provide a turnkey, dynamic Façade Lighting System at the Las Olas Parking Garage, in accordance with the terms, conditions, and specifications outlined in the RFP (the "Work").

Unless otherwise specified herein, the Contractor shall perform all Work under the general direction of the City as set forth in the Contract Documents. The Parties agree that the Scope of Services is a description of Contractor's obligations and responsibilities, and is deemed to include preliminary considerations and prerequisites, and all labor, materials, equipment, and tasks which are such an inseparable part of the Work

described that exclusion would render performance by Contractor impractical, illogical, or unconscionable.

Contractor acknowledges and agrees that the City's Contract Administrator, or other another person designated by the City Manager, has no authority to make changes that would increase, decrease, or otherwise modify the Scope of Services to be provided under this Agreement. Any change orders to the Scope of Services or amendments to the Contract Documents must be authorized by the City Manager, or her designee, and approved by the City Commission whenever required in compliance with the Charter and Code of Ordinances for the City of Fort Lauderdale.

By signing this Agreement, the Contractor represents that it has thoroughly reviewed the documents incorporated into this Agreement by reference and that it accepts the description of the Work and the conditions under which the Work is to be performed.

III. TERM OF AGREEMENT

The initial term of this Agreement shall commence on September 16, 2025, and shall end on September 15, 2028. The City reserves the right to extend this Agreement for two (2) additional one (1)-year terms, provided all terms, conditions and specifications contained herein remain the same, and the extension is mutually agreed to in writing and signed by both Parties. In the event the term of this Agreement extends beyond the end of any fiscal year of City, to wit, September 30th, the continuation of this Agreement beyond the end of the City's fiscal year shall be subject to and conditioned upon both the appropriation and the availability of funds.

IV. COMPENSATION

The Contractor agrees to provide the services and/or materials as specified in the Contract Documents at the cost specified in Exhibits B and C. It is acknowledged and agreed by Contractor that the amount listed in Exhibits B and C is the maximum payable amount and constitutes a limitation upon City's obligation to compensate Contractor for Contractor's services related to this Agreement. This maximum amount, however, does not constitute a limitation of any sort upon Contractor's obligation to perform all items of Work required by or which can be reasonably inferred from the Scope of Services. Except as otherwise provided in the solicitation, no amount shall be paid to Contractor to reimburse Contractor's expenses.

V. METHOD OF BILLING AND PAYMENT

Contractor must submit proper invoices for compensation that are in compliance with the Prompt Payment Act in Chapter 218, Florida Statutes (2024), as may be amended or revised, no more often than monthly, but only after the services for which the invoices are submitted have been completed. An original invoice plus one copy are due within fifteen (15) days of the end of the month. Invoices shall designate the nature of the services performed and/or the goods provided.

All payments made by the City shall be paid in accordance with the Florida Local Government Prompt Payment Act in Chapter 218, Florida Statutes (2024), as may be amended or revised.

To be deemed proper, all invoices must comply with the requirements set forth in this Agreement and must be submitted on the form and pursuant to instructions prescribed by the City's Contract Administrator. Payment may be withheld for failure of Contractor to comply with a term, condition, or requirement of this Agreement.

Notwithstanding any provision of this Agreement to the contrary, City may withhold, in whole or in part, payment to the extent necessary to protect itself from loss on account of inadequate or defective work that has not been remedied or resolved in a manner satisfactory to the City's Contract Administrator or failure to comply

with this Agreement. The amount withheld shall not be subject to payment of interest by City.

VI. GENERAL CONDITIONS

A. Indemnification

Contractor shall protect and defend at Contractor's expense, counsel being subject to the City's approval, and indemnify and hold harmless the City and the City's representatives, employees, volunteers, elected and appointed officials, and agents from and against any and all losses, penalties, fines, damages, fees, bankruptcy, paralegal fees, court costs, appellate fees, mediation fees, arbitration fees, settlements, judgments, claims, costs, charges, expenses, or liabilities, including any award of attorney fees and any award of costs, in connection with or arising directly or indirectly out of any act or omission by the Contractor or by any officer, employee, agent, invitee, subcontractor, or sublicensee of the Contractor. The provisions and obligations of this section shall survive the expiration or earlier termination of this Agreement. To the extent considered necessary by the City Manager, any sums due Contractor under this Agreement may be retained by City until all of City's claims for indemnification pursuant to this Agreement have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by City.

B. Intellectual Property

Contractor shall protect and defend at Contractor's expense, counsel being subject to the City's approval, and indemnify and hold harmless the City from and against any and all losses, penalties, fines, damages, settlements, judgments, claims, costs, charges, royalties, expenses, or liabilities, including any award of attorney fees and any award of costs, in connection with or arising directly or indirectly out of any infringement or allegation of infringement of any patent, copyright, or other intellectual property right in connection with the Contractor's or the City's use of any copyrighted, patented or un-patented invention, process, article, material, or device that is manufactured, provided, or used pursuant to this Agreement. If the Contractor uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the Work.

C. Termination for Cause

The City may terminate this Agreement for cause if the Contractor has not corrected the breach within ten (10) days after written notice from the City identifying the breach. The City Manager may also terminate this Agreement upon such notice as the City Manager deems appropriate under the circumstances in the event the City Manager determines that termination is necessary to protect the public health or safety. The Parties agree that if the City erroneously, improperly, or unjustifiably terminates for cause, such termination shall be deemed a termination for convenience, which shall be effective thirty (30) days after such notice of termination for cause is provided.

This Agreement may be terminated for cause for reasons including, but not limited to, Contractor's repeated (whether negligent or intentional) submission for payment of false or incorrect bills or invoices, failure to perform the work to the City's satisfaction; or failure to continuously perform the work in a manner calculated to meet or accomplish the objectives as set forth in this Agreement.

D. Termination for Convenience

The City reserves the right, in its best interest as determined by the City, to cancel this Agreement for convenience by giving written notice to the Contractor at least thirty (30) days prior to the effective date of such cancellation. In the event this Agreement is terminated for convenience, Contractor shall be paid for any services performed to the City's satisfaction pursuant to the Agreement through the termination date specified in the written notice of termination. Contractor acknowledges and agrees that it has received good, valuable, and sufficient consideration from City, the receipt and adequacy of which are hereby acknowledged by Contractor, for City's right to terminate this Agreement for convenience.

E. Cancellation for Unappropriated Funds

The City reserves the right, in its best interest as determined by the City, to cancel this Agreement for unappropriated funds or unavailability of funds by giving written notice to the Contractor at least thirty (30) days prior to the effective date of such cancellation. The obligation of the City for payment to a Contractor is limited to the availability of funds appropriated in a current fiscal period, and continuation of the Agreement into a subsequent fiscal period is subject to appropriation of funds, unless otherwise provided by law.

F. Insurance

As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, the Contractor, at the Contractor's sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of the Contractor. The Contractor shall provide the City a certificate of insurance evidencing such coverage. The Contractor's insurance coverage shall be primary insurance for all applicable policies. The limits of coverage under each policy maintained by the Contractor shall not be interpreted as limiting the Contractor's liability and obligations under this Agreement. All insurance policies shall be from insurers authorized to write insurance policies in the State of Florida and that possess an A.M. Best rating of A-, VII or better. All insurance policies are subject to approval by the City's Risk Manager.

The coverages, limits, and endorsements required herein protect the interests of the City, and these coverages, limits, and endorsements may not be relied upon by the Contractor for assessing the extent or determining appropriate types and limits of coverage to protect the Contractor against any loss exposure, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the Contractor under this Agreement.

The following insurance policies and coverages are required:

Commercial General Liability
Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- $1,000,000 each occurrence and $2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury

- $1,000,000 each occurrence and $2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for contractual liability and independent contractors.

The City, a Florida municipality, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of Contractor. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Professional Liability
Coverage must be afforded for Wrongful Acts in an amount not less than $1,000,000 each claim and $2,000,000 aggregate.

Contractor must keep the professional liability insurance in force until the third anniversary of expiration or early termination of this Agreement or the third anniversary of acceptance of work by the City, whichever is longer, which obligation shall survive expiration or early termination of this Agreement.

Business Automobile Liability
Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than
$1,000,000 combined single limit each accident.

If Contractor does not own vehicles, Contractor shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Workers' Compensation and Employer's Liability
Coverage must be afforded per Chapter 440, Florida Statutes (2024). Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statutes.

Contractor waives, and Contractor shall ensure that Contractor's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

Contractor must be in compliance with all applicable State and federal workers' compensation laws, including the U.S. Longshore and Harbor Workers' Compensation Act and the Jones Act, if applicable.

Insurance Certificate Requirements

a. Contractor shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
b. Contractor shall provide to the City a Certificate of Insurance having a thirty

(30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.

c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of Contractor to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.

d. In the event the Agreement term or any surviving obligation of Contractor following expiration or early termination of the Agreement goes beyond the expiration date of the insurance policy, Contractor shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.

e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.

f. The City shall be covered as an Additional Insured on all liability policies, with the exception of Workers' Compensation.

g. The City shall be granted a Waiver of Subrogation on Contractor's Workers' Compensation insurance policy.

h. The title of the Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:
City of Fort Lauderdale
401 SE 21st Street
Fort Lauderdale, FL 33316

Contractor has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the application of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at Contractor's expense.

If Contractor's primary insurance policy/policies do not meet the minimum requirements as set forth in this Agreement, Contractor may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

Contractor's insurance coverage shall be primary insurance in respect to the City's interests, a Florida municipality, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City shall be non- contributory.

Any exclusion or provision in any insurance policy maintained by Contractor that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the Work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage may be considered breach of contract. In addition, Contractor must provide to the City confirmation of coverage renewal via an updated certificate of insurance should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of

Contractor's insurance policies.

Contractor shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement to Contractor's insurance company or companies and the City's Risk Management office as soon as practical.

It is Contractor's responsibility to ensure that any and all of Contractor's independent contractors and subcontractors comply with these insurance requirements. All coverages for independent contractors and subcontractors shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of Contractor. The City reserves the right to adjust insurance limits from time to time at its discretion with notice to Contractor.

G. Environmental, Health and Safety

Contractor shall place the highest priority on health and safety and shall maintain a safe working environment during performance of the Work. Contractor shall comply, and shall secure compliance by its employees, agents, and subcontractors, with all applicable environmental, health, safety and security laws and regulations, and performance conditions in this Agreement. Compliance with such requirements shall represent the minimum standard required of Contractor. Contractor shall be responsible for examining all requirements and determine whether additional or more stringent environmental, health, safety and security provisions are required for the Work. Contractor agrees to utilize protective devices as required by applicable laws, regulations, and any industry or Contractor's health and safety plans and regulations, and to pay the costs and expenses thereof, and warrants that all such persons shall be fit and qualified to carry out the Work.

H. Standard of Care

Contractor represents that it is qualified to perform the Work, that Contractor and subcontractors possess current, valid state and/or local licenses to perform the Work, and that their services shall be performed in a manner consistent with that level of care and skill ordinarily exercised by other qualified contractors under similar circumstances.

I. Rights in Documents and Work

Any and all reports, photographs, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of City; and Contractor disclaims any copyright in such materials. In the event of and upon termination of this Agreement, any reports, photographs, surveys, and other data and documents prepared by Contractor, whether finished or unfinished, shall become the property of City and shall be delivered by Contractor to the City's Contract Administrator within seven (7) days of termination of this Agreement by either Party. Any compensation due to Contractor shall be withheld until Contractor delivers all documents to the City as provided herein.

J. Audit Right and Retention of Records

City shall have the right to audit the books, records, and accounts of Contractor and Contractor's subcontractors that are related to this Agreement. Contractor shall keep, and Contractor shall cause Contractor's subcontractors to keep, such books, records, and accounts as may be necessary in order to record complete and correct entries related to this Agreement. All books, records, and accounts of Contractor and Contractor's subcontractors shall be kept in written form, or in a form

capable of conversion into written form within a reasonable time, and upon request to do so, Contractor or Contractor's subcontractor, as applicable, shall make same available at no cost to City in written form.

Contractor and Contractor's subcontractors shall preserve and make available, at reasonable times for examination and audit by City in Broward County, Florida, all financial records, supporting documents, statistical records, and any other documents pertinent to this Agreement for the required retention period of the Florida public records law, Chapter 119, Florida Statutes (2024), as may be amended or revised, if applicable, or, if the Florida Public Records Act is not applicable, for a minimum period of three (3) years after termination of this Agreement. If any audit has been initiated and audit findings have not been resolved at the end of the retention period or three (3) years, whichever is longer, the books, records, and accounts shall be retained until resolution of the audit findings. If the Florida public records law is determined by City to be applicable to Contractor and Contractor's subcontractors' records, Contractor and Contractor's subcontractors shall comply with all requirements thereof; however, Contractor and Contractor's subcontractors shall violate no confidentiality or non-disclosure requirement of either federal or state law. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for City's disallowance and recovery of any payment upon such entry.

Contractor shall, by written contract, require Contractor's subcontractors to agree to the requirements and obligations of this Section.

The Contractor shall maintain during the term of the Agreement all books of account, reports and records in accordance with generally accepted accounting practices and standards for records directly related to this Agreement.

K. Public Entity Crime Act

Contractor represents that the execution of this Agreement will not violate the Public Entity Crime Act, Section 287.133, Florida Statutes (2024), as may be amended or revised, which essentially provides that a person or affiliate who is a contractor, consultant, or other provider and who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to City, may not submit a bid on a contract with City for the construction or repair of a public building or public work, may not submit bids on leases of real property to City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under an Agreement with City, and may not transact any business with City in excess of the threshold amount provided in Section 287.017, Florida Statutes (2024), as may be amended or revised, for category two purchases for a period of 36 months from the date of being placed on the convicted vendor list. Violation of this Section shall result in termination of this Agreement and recovery of all monies paid by City pursuant to this Agreement and may result in debarment from City's competitive procurement activities.

L. Independent Contractor

Contractor is an independent contractor under this Agreement. Services provided by Contractor pursuant to this Agreement shall be subject to the supervision of the Contractor. In providing such services, neither Contractor nor Contractor's agents shall act as officers, employees, or agents of City. No partnership, joint venture, or other joint relationship is created hereby. City does not extend to Contractor or Contractor's agents any authority of any kind to bind City in any respect whatsoever.

M. Inspection and Non-Waiver

Contractor shall permit the representatives of City to inspect and observe the Work at all times.

The failure of the City to insist upon strict performance of any other terms of this Agreement or to exercise any rights conferred by this Agreement shall not be construed by Contractor as a waiver of the City's right to assert or rely on any such terms or rights on any future occasion or as a waiver of any other terms or rights

N. Assignment and Performance

Neither this Agreement nor any right or interest herein shall be assigned, transferred, or encumbered without the prior written consent of the other Party. In addition, Contractor shall not subcontract any portion of the Work required by this Agreement, except as provided in the Schedule of Subcontractor Participation. City may terminate this Agreement, effective immediately, if there is any assignment, or attempted assignment, transfer, or encumbrance, by Contractor of this Agreement or any right or interest herein without City's prior written consent.

Contractor represents that each person who will render services pursuant to this Agreement is duly qualified to perform such services by all appropriate governmental authorities, where required, and that each such person is reasonably experienced and skilled in the area(s) for which he or she will render his or her services.

Contractor shall perform Contractor's duties, obligations, and services under this Agreement in a skillful and respectable manner. The quality of Contractor's performance and all interim and final product(s) provided to or on behalf of City shall be comparable to the best local and national standards.

In the event Contractor engages any subcontractor in the performance of this Agreement, Contractor shall ensure that all of Contractor's subcontractors perform in accordance with the terms and conditions of this Agreement. Contractor shall be fully responsible for all of Contractor's subcontractors' performance, and liable for any of Contractor's subcontractors' non-performance and all of Contractor's subcontractors' acts and omissions. Contractor shall defend at Contractor's expense, counsel being subject to City's approval or disapproval, and indemnify and hold City and City's officers, employees, elected and appointed officers, elected and appointed officials, volunteers, contractors, subcontractors, and agents harmless from and against any claim, lawsuit, damages, fees, bankruptcy, paralegal fees, court costs, appellate fees, mediation fees, arbitration fees, third party action, fine, penalty, settlement, or judgment, including any award of attorney fees and any award of costs, by or in favor of any of Contractor's subcontractors for payment for work performed for City by any of such subcontractors, and from and against any claim, lawsuit, third party action, fine, penalty, settlement, or judgment, including any award of attorney fees and any award of costs, occasioned by or arising out of any act or omission by any of Contractor's subcontractors or by any of Contractor's subcontractors' officers, agents, or employees. Contractor's use of subcontractors in connection with this Agreement shall be subject to City's prior written approval, which approval City may revoke at any time.

O. Conflicts

Neither Contractor nor any of Contractor's employees shall have or hold any continuing or

frequently recurring employment or contractual relationship that is substantially antagonistic or incompatible with Contractor's loyal and conscientious exercise of judgment and care related to Contractor's performance under this Agreement.

Contractor further agrees that none of Contractor's officers or employees shall, during the term of this Agreement, serve as an expert witness against City in any legal or administrative proceeding in which he, she, or Contractor is not a party, unless compelled by a court order or subpoena. Further, Contractor agrees that such persons shall not give sworn testimony or issue a report or writing, as an expression of his or her expert opinion, which is adverse or prejudicial to the interests of City in connection with any such pending or threatened legal or administrative proceeding unless compelled by court process. The limitations of this section shall not preclude Contractor or any persons in any way from representing themselves, including giving expert testimony in support thereof, in any action or in any administrative or legal proceeding.

In the event Contractor is permitted pursuant to this Agreement to utilize subcontractors to perform any services required by this Agreement, Contractor agrees to require such subcontractors, by written contract, to comply with the provisions of this Section to the same extent as Contractor.

P. Schedule and Delays

Time is of the essence in this Agreement. By signing, Contractor affirms that it believes the schedule to be reasonable; provided, however, the Parties acknowledge that the schedule might be modified as the City directs.

Q. Materiality and Waiver of Breach

City and Contractor agree that each requirement, duty, and obligation set forth herein was bargained for at arm's-length and is agreed to by the Parties in exchange for *quid pro quo*, that each is substantial and important to the formation of this Agreement and that each is, therefore, a material term hereof.

City's failure to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement. A waiver of any breach of a provision of this Agreement shall not be deemed a waiver of any subsequent breach and shall not be construed to be a modification of the terms of this Agreement.

R. Compliance With Laws

Contractor shall comply with all applicable federal, state, and local laws, codes, ordinances, rules, and regulations in performing Contractor's duties, responsibilities, and obligations pursuant to this Agreement.

S. Severance

In the event a portion of this Agreement is found by a court of competent jurisdiction to be invalid or unenforceable, the provisions not having been found by a court of competent jurisdiction to be invalid or unenforceable shall continue to be effective.

T. Limitation of Liability

The City desires to enter into this Agreement only if in so doing the City can place a limit on the City's liability for any cause of action for money damages due to an alleged breach by the City of this Agreement, so that its liability for any such breach never exceeds the sum of $1,000. Contractor hereby expresses its willingness to enter into this Agreement with Contractor's recovery from the City for any damage action for breach of contract or for any action or claim arising from this Agreement to be limited to a maximum amount of $1,000 less the amount of all funds actually paid by the City to Contractor pursuant to this Agreement.

Accordingly, and notwithstanding any other term or condition of this Agreement, Contractor hereby agrees that the City shall not be liable to Contractor for damages in an amount in excess of $1,000 which amount shall be reduced by the amount actually paid by the City to Contractor pursuant to this Agreement, for any action for breach of contract or for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any way intended to be a waiver of the limitation placed upon City's liability as set forth in Section 768.28, Florida Statutes (2024), as may be amended or revised.

U. Jurisdiction, Venue, Waiver, Waiver of Jury Trial

The Agreement shall be interpreted and construed in accordance with, and governed by, the laws of the state of Florida. The Parties agree that the exclusive venue for any lawsuit arising from, related to, or in connection with this Agreement shall be in the state courts of the Seventeenth Judicial Circuit in and for Broward County, Florida. If any claims arising from, related to, or in connection with this Agreement must be litigated in federal court, the Parties agree that the exclusive venue for any such lawsuit shall be in the Southern District of Florida. **BY ENTERING INTO THIS AGREEMENT, THE PARTIES HEREBY EXPRESSLY WAIVE ANY AND ALL RIGHTS EITHER PARTY MIGHT HAVE TO A TRIAL BY JURY OF ANY ISSUES RELATED TO THIS AGREEMENT. IF A PARTY FAILS TO WITHDRAW A REQUEST FOR A JURY TRIAL IN A LAWSUIT ARISING OUT OF THIS AGREEMENT AFTER WRITTEN NOTICE BY THE OTHER PARTY OF VIOLATION OF THIS SECTION, THE PARTY MAKING THE REQUEST FOR JURY TRIAL SHALL BE LIABLE FOR THE REASONABLE ATTORNEYS' FEES AND COSTS OF THE OTHER PARTY IN CONTESTING THE REQUEST FOR JURY TRIAL, AND SUCH AMOUNTS SHALL BE AWARDED BY THE COURT IN ADJUDICATING THE MOTION.**

V. Amendments

No modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document prepared with the same or similar formality as this Agreement and executed by the City's Mayor and/or City Manager, as determined by the City Charter and Ordinances of the City of Fort Lauderdale, Florida, and Contractor, or others delegated authority to or otherwise authorized to execute same on their behalf.

W. Prior Agreements

This document represents the final and complete understanding of the Parties and incorporates or supersedes all prior negotiations, correspondence, conversations, agreements, and understandings applicable to the matters contained herein. The Parties agree that there is no commitment, agreement, or understanding concerning the subject matter of this Agreement that is not contained

in this written document. Accordingly, the Parties agree that no deviation from the terms hereof shall be predicated upon any prior representation or agreement, whether oral or written.

X. Payable Interest

Except as required and provided for by the Florida Local Government Prompt Payment Act in Chapter 218, Florida Statutes (2024), as may be amended or revised, City shall not be liable for interest for any reason, whether as prejudgment interest or for any other purpose, and in furtherance thereof Contractor waives, rejects, disclaims and surrenders any and all entitlement it has or may have to receive interest in connection with a dispute or claim based on or related to this Agreement.

Y. Representation of Authority

Each individual executing this Agreement on behalf of a party hereto hereby represents and warrants that he or she is, on the date he or she signs this Agreement, duly authorized by all necessary and appropriate action to execute this Agreement on behalf of such party and does so with full legal authority.

Z. Uncontrollable Circumstances ("Force Majeure")

The City and Contractor will be excused from the performance of their respective obligations under this Agreement when and to the extent that their performance is delayed or prevented by any circumstances beyond their control including, fire, flood, explosion, strikes or other labor disputes, act of God or public emergency, war, riot, civil commotion, malicious damage or destruction by a third party of documentation pertinent to this agreement, act or omission of any governmental authority, delay or failure or shortage of any type of transportation, equipment, or service from a public utility needed for their performance, provided that:

1. The non-performing party gives the other party written notice no more than five days after the acts occurred that the party believes qualify as Force Majeure, describing the particulars of the Force Majeure including, but not limited to, the nature of the occurrence and its expected duration, and continues to furnish timely reports with respect thereto during the period of the Force Majeure. The notice shall be sent by the City Manager or his or her designee in the event that the City is the alleged non-performing party herein;

2. The excuse of performance is of no greater scope and of no longer duration than is required by the Force Majeure;

3. No obligations of either party that arose before the Force Majeure causing the excuse of performance are excused as a result of the Force Majeure; and

4. The non-performing party uses its best efforts to remedy its inability to perform. Notwithstanding the above, performance shall not be excused under this Section for a period in excess of two (2) months, provided that in extenuating circumstances, the City Manager or her designee may excuse performance for a longer term. Economic hardship of the Contractor will not constitute Force Majeure. The term of the Agreement shall be extended by a period equal to that during which either Party's performance is suspended under this Section.

AA. Scrutinized Companies

Subject to Odebrecht Construction, Inc., v. Prasad, 876 F.Supp.2d 1305 (S.D. Fla. 2012), affirmed, Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in Iran Terrorism Sectors List, created pursuant to Section 215.473, Florida Statutes (2024), as may be amended or revised, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2024), as may be amended or revised. The Contractor certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2024), as may be amended or revised, and that it is not engaged in a boycott of Israel. The City may terminate this Agreement at the City's option if the Contractor is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2024), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List, or been placed on a list created pursuant to Section 215.473, Florida Statutes (2024), as may be amended or revised, relating to scrutinized active business operations in Iran, or been placed on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2024), as may be amended or revised, or is engaged in a boycott of Israel, or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2024), as may be amended or revised.

BB. Public Records

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (2024), TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY CLERK'S OFFICE, 1 EAST BROWARD BOULEVARD, SUITE 444, FORT LAUDERDALE, FLORIDA 33301, PHONE: 954-828-5002, EMAIL: PRRCONTRACT@FORTLAUDERDALE.GOV.

Contractor shall comply with public records laws, and Contractor shall:

1. Keep and maintain public records required by the City to perform the service.

2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2024), as may be amended or revised, or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Contractor does not transfer the records to the City.

4. Upon completion of the Agreement, transfer, at no cost, to the City all public records in possession of the Contractor or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the Agreement, the Contractor shall destroy any duplicate public records that are exempt or confidential

and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the Agreement, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

CC. Non-Discrimination

The Contractor shall not discriminate against its employees based on the employee's race, color, religion, gender, gender identity, gender expression, marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

1. The Contractor certifies and represents that the Contractor offers the same health benefits to the domestic partners of its employees as are offered its employees' spouses or offers its employees the cash equivalent of such health benefits because it is unable to provide health benefits to its employees' domestic partners, and that the Contractor will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as may be amended or revised, ("Section 2-187"), during the entire term of this Agreement.

2. The Contractor certifies and represents that it will comply with Section 2- 187, Code of Ordinances of the City of Fort Lauderdale, Florida ("Section 2- 187").

3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.

4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.

5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in Section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

DD. E-Verify

As a condition precedent to the effectiveness of this Agreement, pursuant to Section 448.095, Florida Statutes (2024), as may be amended or revised, the Contractor and its subcontractors shall register with and use the E-Verify system to electronically verify the employment eligibility of newly hired employees.

1. The Contractor shall require each of its subcontractors, if any, to provide the Contractor with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. The Contractor shall maintain a copy of the subcontractor's affidavit for the duration of this Agreement and in accordance with the public records requirements of this Agreement.

2. The City, the Contractor, or any subcontractor who has a good faith belief that a person or entity with which it is contracting has knowingly violated Subsection 448.09(1), Florida Statutes (2024), as may be amended or revised, shall terminate the Agreement with the person or entity.

3. The City, upon good faith belief that a subcontractor knowingly violated the provisions of

Subsection 448.095(5), Florida Statutes (2024), as may be amended or revised, but that the Contractor otherwise complied with Subsection 448.095(5), Florida Statutes (2024), as may be amended or revised, shall promptly notify Contractor and order the Contractor to immediately terminate the Agreement with the subcontractor, and the Contractor shall comply with such order.

4. An Agreement terminated under Subparagraph 448.095(5)(c)1. or 2., Florida Statutes (2024), as may be amended or revised, is not a breach of contract and may not be considered as such. If the City terminates this Agreement under Paragraph 448.095(5)(c), Florida Statutes (2024), as may be amended or revised, the Contractor may not be awarded a public Agreement for at least one year after the date on which the Agreement was terminated. The Contractor is liable for any additional costs incurred by the City as a result of termination of this Agreement.

5. Contractor shall include in each of its subcontracts, if any, the requirements set forth in this Section, including this subparagraph, requiring any and all subcontractors, as defined in Subsection 448.095(1)(e), Florida Statutes (2024), as may be amended or revised, to include all of the requirements of this Section in their subcontracts. Contractor shall be responsible for compliance by any and all subcontractors, as defined in Subsection 448.095(1)(e), Florida Statutes (2024), as may be amended or revised, with the requirements of Section 448.095, Florida Statutes (2024), as may be amended or revised.

EE. Notices

Whenever any party desires to give notice unto the other party, it must be given by written notice, sent by Certified United States mail, with return receipt requested, or sent by a nationally recognized overnight or express delivery courier addressed to the party to whom it is intended, at the places last specified, and the places for giving notice shall remain such until they are changed by written notice in compliance with this subsection. For the present, Contractor and City designate the following as respective places for giving notice:

FOR CITY:	Rickelle Williams City Manager City of Fort Lauderdale 101 NE 3rd Avenue, Suite 2100 Fort Lauderdale, Florida 33301
WITH A COPY:	D'Wayne M. Spence Interim City Attorney City of Fort Lauderdale 1 East Broward Boulevard, Suite 1320 Fort Lauderdale, Florida 33301
FOR CONTRACTOR:	Carlos R. Molina Gallardo Chief Executive Officer The Luminicos, Corp 2125 Biscayne Boulevard, Suite 242 Miami, Florida 33137

FF. Anti-Human Trafficking

As a condition precedent to the effectiveness of this Agreement, the Contractor shall provide the City with an affidavit signed by an officer or a representative of the Contractor under penalty of

perjury attesting that the CONSULTANT does not use coercion for labor or services as defined in Section 787.06, Florida Statutes (2024), as may be amended or revised.

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IN WITNESS WHEREOF, the City and the Contractor execute this Agreement as follows:

CITY

ATTEST:

David R. Soloman, City Clerk

CITY OF FORT LAUDERDALE, a Florida municipality.

By: Rickelle Williams
Rickelle Williams
City Manager

Date: September 26th, 2025

Approved as to Form and Correctness:
D'Wayne M. Spence, Interim City Attorney

By: Kimberly Cunningham Mosley
Kimberly Cunningham Mosley
Assistant City Attorney


CITY OF FORT LAUDERDALE
BROWARD COUNTY, FLORIDA

CONTRACTOR

THE LUMINICOS, CORP, a Delaware corporation authorized to conduct business in the State of Florida.

By: _____
Carlos R. Molina Gallardo,
Chief Executive Officer

WITNESSES

_____
Signature

Carlo Tanajo
Print Name

_____
Signature

Maria Badel
Print Name

(CORPORATE SEAL)

STATE OF FLORIDA :
COUNTY OF BROWARD :

The foregoing instrument was acknowledged before me by means of ☑ physical presence or ☐ online notarization, this 4 day of SEPTEMBER, 2025, by **Carlos R. Molina Gallardo**, as **Chief Executive Officer**, for **The Luminicos, Corp**, a Delaware corporation authorized to conduct business in the State of Florida.

(NOTARY SEAL)

LOLA RINAUDO
MY COMMISSION # HH 665874
EXPIRES: April 16, 2029

_____
Notary Public, State of Florida
(Signature of Notary Public)

LOLA RINAUDO
(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally Known _____ OR Produced Identification ✓
Type of Identification Produced FLORIDA DRIVER LICENSE

EXHIBIT A

Event # 427-5

Name: Las Olas Garage Lighting Facade

Description: The City of Fort Lauderdale, Florida (City) is seeking qualified, experienced and licensed firm(s), hereinafter referred to as Contractor, Bidder or Proposer, to provide a turnkey, dynamic Façade Lighting System (DFLS) at the Las Olas Parking Garage for the City, in accordance with the terms, conditions, and specifications contained in this Request for Proposals (RFP).

Buyer: MCDONALD, KIRK
Status: Pending Award
Event Type: RFP
Currency: USD

Sealed Bid: Yes
Respond To All Lines: Yes
Q & A Allowed: Yes
Number Of Amendments: 5
Display Bid Tabulation: Display When Event Closed For Bidding Or Canceled

Event Dates

Preview:
Q & A Open: 03/12/2025 02:30:00 PM
Open: 03/12/2025 02:00:00 PM
Q & A Close: 04/08/2025 02:00:00 PM
Close: 04/29/2025 02:00:00 PM
Dispute Close:

Questions

Question	Response Type	Attachment
Did you fill out and attach the Required Forms?	Yes No Text	_Required Forms Packet - Forms 1-10.pdf
Did you sign and attach Addendum No. 1?	Yes No	

Meetings

Meeting	Description	Location	Date	Required
Pre-Proposal Site Visit	We will meet at the electrical panel location of the building	Las Olas parking Garage	04/16/2025 10:00:00 AM	No
Pre-Proposal Site Visit and Conference	Pre-Proposal Site Visit and Conference	Las Olas Parking Garage	03/20/2025 02:00:00 PM	No

Event # 427-5: Las Olas Garage Lighting Facade

Attachments

Name	Attachment
General Conditions	1. General Conditions - Rev 08-2023.pdf
Specifications	Event 427 Turnkey Dynamic Façade Lighting System.pdf
Exhibits	Event 427 Exhibits.pdf
Electrical As-Builts	Electrical As-Builts.pdf
Addendum No. 1	Addendum No_1.pdf

Contacts

Name	Email Address
KIRK MCDONALD	kmcdonald@fortlauderdale.gov

Commodity Codes

Commodity Code	Description
285-54	Lighting Fixtures, Indoor: All Kinds and Parts (Including La
285-56	Lighting Fixtures, Outdoor: Floodlights, Spotlights, Yard Li
557-50	Lamps/Lighting, Lens, and Signals, Interior and Exterior
906-58	Lighting (Interior, Exterior) - Architectural Services
918-84	Parking Consultant
931-53	Lighting Fixtures Maintenance and Repair
936-53	Parking Equipment Maintenance and Repair (See 936-37 for Par
988-54	Lighting Services for Parks, Athletic Fields, Parking Lots,

Line Details

Line 1: Las Olas Garage Lighting Facade

Description: Furnish and install custom, programmable, LED (or approved equal) lighting system that is integrated into the architectural "fins" of the Las Olas Parking Garage

Item: LAS OLAS GARAGE LIGHTING FACADE Las Olas Garage Lighting Facade

Commodity Code: 285-56 Lighting Fixtures, Outdoor: Floodlights, Spotlights, Yard Li

Manufacturer Code: MFC

Division: DIV

Manufacturer Number: LAS OLAS GARAGE LIGHTING FACADE

Quantity: 1.0000

Unit of Measure: LS

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 2: Monthly Maintenance Façade Lighting System

Description: Monthly Maintenance Façade Lighting System

Item: MONTHLY MAINTENANCE FAÇADE LIGHT Monthly Maintenance Façade Lighting System

Commodity Code: 285-56 Lighting Fixtures, Outdoor: Floodlights, Spotlights, Yard Li

Manufacturer Code: MFC

Division: DIV

Manufacturer Number: MONTHLY MAINTENANCE FAÇADE LIGHTING SYSTEM

Quantity: 12.0000

Unit of Measure: MO

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

SECTION I – INTRODUCTION AND INFORMATION

1.1 Purpose

The City of Fort Lauderdale, Florida (City) is seeking qualified, experienced and licensed firm(s), hereinafter referred to as Contractor, Bidder or Proposer, to provide a turnkey, dynamic Façade Lighting System (DFLS) at the Las Olas Parking Garage for the City, in accordance with the terms, conditions, and specifications contained in this Request for Proposals (RFP).

1.2 Point of Contact

For information concerning procedures for responding to this solicitation, contact Procurement Specialist Kirk McDonald at (954) 828-5073 or email at kmcdonald@fortlauderdale.gov. Such contact shall be for clarification purposes only.

For information concerning technical specifications, please utilize the question / answer feature provided by the City's on-line strategic sourcing platform. Questions of a material nature must be received prior to the cut-off date specified in the RFP Schedule. Material changes, if any, to the scope of services or bidding procedures will only be transmitted by written addendum. Contractors please note: Proposals shall be submitted as stated in PART IV – Submittal Requirements. No part of your proposal can be submitted via FAX. No variation in price or conditions shall be permitted based upon a claim of ignorance. Submission of a proposal will be considered evidence that the Contractor has familiarized themselves with the nature and extent of the work, and the equipment, materials, and labor required. The entire proposal must be submitted in accordance with all specifications contained in this solicitation. The questions and answers submitted in the City's on-line strategic sourcing platform shall become part of any contract that is created from this RFP.

1.3 Pre-proposal Conference and Site Visit

There will be a pre-proposal conference and site visit scheduled for this Request for Proposal. It is strongly suggested that all Contractors attend the pre-proposal conference and/or site visit.

While attendance is not mandatory, tours at other times might not be available. It is the sole responsibility of the Contractor to become familiar with the scope of the City's requirements and systems prior to submitting a proposal. No variation in price or conditions shall be permitted based upon a claim of ignorance. It is strongly suggested that all Contractors attend the pre-proposal meeting and/or site visit.

It will be the sole responsibility of the Contractor to attend the pre-proposal/site visit to inspect the City's location(s) facilities systems prior to submitting a proposal. No variation in price or conditions shall be permitted based upon a claim of ignorance. Submission of a proposal will be considered evidence that the Proposer has familiarized themselves with the nature and extent of the work, equipment, materials, and labor required.

If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Please refer to the "Meetings" tab in INFOR for information on meeting date, time and location.

1.4 CITY'S ON-LINE STRATEGIC SOURCING PLATFORM

The City of Fort Lauderdale uses the City's on-line strategic sourcing platform to administer the competitive solicitation process, including but not limited to soliciting proposals, issuing addenda, posting results and issuing notification of an intended decision. There is no charge to register and download the RFP from the City's on-line strategic sourcing platform. Proposers are strongly encouraged to read the supplier tutorials available in the City's on-line strategic sourcing platform well in advance of their intention of submitting a proposal to ensure familiarity with the use of the City's on-line strategic sourcing platform. The City shall not be responsible for a Proposers inability to submit a Proposal by the end date and time for any reason, including issues arising from the use of the City's on-line strategic sourcing platform.

It is the sole responsibility of the Proposer to ensure that their proposal is submitted electronically through the City's on-line strategic sourcing platform no later than the time and date specified in this solicitation. PAPER PROPOSAL SUBMITTALS WILL NOT BE ACCEPTED. PROPOSALS MUST BE SUBMITTED ELECTRONICALLY VIA the City's on-line strategic sourcing platform.

1.5 Electronic Bid Openings/Proposal Closings

Please be advised that effective immediately, and until further notice, all Invitation to Bids, Request for Proposals, Request for Qualifications, and other solicitations led by the City of Fort Lauderdale will be opened electronically via the City's on-line strategic sourcing platform at the date and time indicated on the solicitation. All openings will be held on the City's on-line strategic sourcing platform.

Anyone requesting assistance or having further inquiry in this matter must contact the Procurement Specialist indicated on the solicitation, via the Question-and-Answer forum on the City's on-line strategic sourcing platform before the Last Day for Questions indicated in the Solicitation.

END OF SECTION

SECTION II - SPECIAL TERMS AND CONDITIONS

2.1 General Conditions

RFP General Conditions (Form G-107, Rev. 02/22) are included and made a part of this RFP.

2.2 Addenda, Changes, and Interpretations

It is the sole responsibility of each firm to notify the Buyer utilizing the question / answer feature provided by the City's on-line strategic sourcing platform and request modification or clarification of any ambiguity, conflict, discrepancy, omission, or other error discovered in this competitive solicitation. Requests for clarification, modification, interpretation, or changes must be received prior to the Question and Answer (Q & A) Deadline. Requests received after this date may not be addressed. Questions and requests for information that would not materially affect the scope of services to be performed or the solicitation process will be answered within the question / answer feature provided by the City's on-line strategic sourcing platform and shall be for clarification purposes only. Material changes, if any, to the scope of services or the solicitation process will only be transmitted by official written addendum issued by the City and uploaded to the City's on-line strategic sourcing platform as a separate addendum to the RFP. Under no circumstances shall an oral explanation given by any City official, officer, staff, or agent be binding upon the City and should be disregarded. All addenda are a part of the competitive solicitation documents, and each firm will be bound by such addenda. It is the responsibility of each to read and comprehend all addenda issued.

2.3 Changes and Alterations

Proposer may change or withdraw a Proposal at any time prior to Proposal submission deadline; however, no oral modifications will be allowed. Modifications shall not be allowed following the Proposal deadline.

2.4 Proposer's Costs

The City shall not be liable for any costs incurred by Proposers in responding to this RFP.

2.5 Pricing/Delivery

Contractor shall quote a firm, fixed price for all services stated in the RFP. All costs including travel shall be included in your proposal. The City shall not accept any additional costs including any travel associated with coming to the City of Fort Lauderdale.

All pricing must include delivery and installation and be quoted FOB: Destination.

2.6 Price Validity

Prices provided in this Request for Proposals (RFP) shall be valid for at least One Hundred and Twenty (120) days from time of RFP opening unless otherwise extended and agreed upon by the City and Bidder/Proposer. The City shall award contract within this time period or shall request to the recommended awarded vendor an extension to hold pricing, until products/services have been awarded.

2.7 Invoices/Payment

The City will accept invoices no more frequently than once per month. Each invoice shall fully detail the related costs and shall specify the status of the particular task or project as of the date of the invoice with regard to the accepted schedule for that task or project. Payment will be made within forty-five (45) days after receipt of an invoice acceptable to the City, in accordance with the Florida Local Government Prompt Payment Act. If, at any time during the contract, the City shall not approve or accept the Contractor's work product, and agreement cannot be reached between

the City and the Contractor to resolve the problem to the City's satisfaction, the City shall negotiate with the Contractor on a payment for the work completed and usable to the City.

A payment schedule based upon agreed upon deliverables may be developed with the awarded Contractor.

2.8 Related Expenses/Travel Expenses

All costs including travel are to be included in your bid. The City will not accept any additional costs.

2.9 Payment Method

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to payment by credit card via MasterCard or Visa. This allows you as a vendor of the City of Fort Lauderdale to receive your payment fast and safely. No more waiting for checks to be printed and mailed. Payments will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, firms must presently have the ability to accept credit card payment or take whatever steps necessary to implement acceptance of a credit card before the commencement of a contract. See Contract Payment Method form attached.

2.10 Mistakes

The proposer shall examine this RFP carefully. The submission of a Proposal shall be prima facie evidence that the consultant has full knowledge of the scope, nature, and quality of the work to be performed; the detailed requirements of the specifications; and the conditions under which the work is to be performed. Ignorance of the requirements will not relieve the consultant from liability and obligations under the Contract.

2.11 Acceptance of Proposals / Minor Irregularities

2.11.1 The City reserves the right to accept or reject any or all proposals, part of proposals, and to waive minor irregularities or variances to specifications contained in proposals which do not make the proposal conditional in nature and minor irregularities in the solicitation process. A minor irregularity shall be a variation from the solicitation that does not affect the price of the contract or does not give a respondent an advantage or benefit not enjoyed by other respondents, does not adversely impact the interests of other firms, or does not affect the fundamental fairness of the solicitation process. The City also reserves the right to reissue a Request for Proposal.

2.11.2 The City reserves the right to disqualify Proposer during any phase of the competitive solicitation process and terminate for cause any resulting contract upon evidence of collusion with intent to defraud or other illegal practices on the part of the Proposer.

2.12 Modification of Services

2.12.1 While this contract is for services provided to the department referenced in this RFP, the City may require similar work for other City departments. Successful Proposer agrees to take on such work unless such work would not be considered reasonable or become an undue burden to the Successful Proposer.

2.12.2 The City reserves the right to delete any portion of the work at any time without cause, and if such right is exercised by the City, the total fee shall be reduced in the same ratio as the estimated cost of the work deleted bears to the estimated cost of the work originally planned. If work has already been accomplished and approved by the City on any portion of a contract resulting from this RFP, the Successful Proposer shall be paid for the work

completed on the basis of the estimated percentage of completion of such portion to the total project cost.

2.12.3 The City may require additional items or services of a similar nature, but not specifically listed in the contract. The Successful Proposer agrees to provide such items or services and shall provide the City prices on such additional items or services. If the price(s) offered are not acceptable to the City, and the situation cannot be resolved to the satisfaction of the City, the City reserves the right to procure those items or services from other vendors, or to cancel the contract upon giving the Successful Proposer thirty (30) days written notice.

2.12.4 If the Successful Proposer and the City agree on modifications or revisions to the task elements, after the City has approved work to begin on a particular task or project, and a budget has been established for that task or project, the Successful Proposer will submit a revised budget to the City for approval prior to proceeding with the work.

2.13 Non-Exclusive Contract

Proposer agrees and understands that the contract shall not be construed as an exclusive arrangement and further agrees that the City may, at any time, secure similar or identical services from another vendor at the City's sole option.

2.14 Sample Contract Agreement

A sample of the formal agreement template, which may be required to be executed by the awarded vendor can be found at our website.

2.15 Responsiveness

In order to be considered responsive to the solicitation, the firm's proposal shall fully conform in all material respects to the solicitation and all its requirements, including all form and substance.

2.16 Responsibility

In order to be considered as a responsible firm, firm shall be fully capable to meet all of the requirements of the solicitation and subsequent contract, must possess the full capability, including financial and technical, to perform as contractually required, and must be able to fully document the ability to provide good faith performance.

2.17 Minimum Qualifications

Proposers shall be in the business of Installation and Maintenance of Lighting Systems and must possess sufficient financial support, equipment, and organization to ensure that it can satisfactorily perform the services if awarded a Contract. Proposers must demonstrate that they, or the key staff assigned to the project, have successfully provided services with similar magnitude to those specified in the scope of services to at least one entity similar in size and complexity to the City of Fort Lauderdale or can demonstrate they have the experience with large scale private sector clients and the managerial and financial ability to successfully perform the work.

Proposers shall satisfy each of the following requirements cited below. Failure to do so may result in the proposal being deemed non-responsive.

2.17.1 Proposer or principals shall have relevant experience in Installation and Maintenance of Lighting Systems. Project manager assigned to the work must have experience in

Installation and Maintenance of Lighting Systems and have served as project manager on similar projects.

2.17.2 Before awarding a contract, the City reserves the right to require that a Proposer submit such evidence of qualifications as the City may deem necessary. Further, the City may consider any evidence of the financial, technical, and other qualifications and abilities of a firm or principals, including previous experiences of same with the City and performance evaluation for services, in making the award in the best interest of the City.

2.17.3 Firm or principals shall have no record of judgments, pending lawsuits against the City or criminal activities involving moral turpitude and not have any conflicts of interest that have not been waived by the City Commission.

2.17.4 Neither firm nor any principal, officer, or stockholder shall be in arrears or in default of any debt or contract involving the City, (as a party to a contract, or otherwise); nor have failed to perform faithfully on any previous contract with the City.

2.18 Lobbying Activities

ALL CONTRACTORS PLEASE NOTE: Any contractor submitting a response to this solicitation must comply, if applicable, with City of Fort Lauderdale Ordinance No. C-11-42, and Resolution No. 07-101, Lobbying Activities. Copies of Ordinance No. C-11-42 and Resolution No. 07-101 may be obtained from the City Clerk's Office, located at 1 East Broward Boulevard, Suite 444, Fort Lauderdale, Florida 33301.

2.19 Local Business Preference

2.19.1 Section 2-186, Code of Ordinances of the City of Fort Lauderdale, provides for a local business preference. In order to be considered for a local business preference, a Proposer must include the Local Business Preference Certification Statement of this RFP, as applicable to the local business preference class claimed at the time of Proposal submittal:

2.19.2 Upon formal request of the City, based on the application of a Local Business Preference the Proposer shall within ten (10) calendar days submit the following documentation to the Local Business Preference Class claimed:

a. Copy of City of Fort Lauderdale current year business tax receipt, or Broward County current year business tax receipt, and

b. List of the names of all employees of the Proposer and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

2.19.3 Failure to comply at time of Proposal submittal shall result in the Proposer being found ineligible for the local business preference.

2.19.4 The complete local business preference ordinance may be found on the City's web site: Click Here

2.19.5 Definitions

a. The term "Class A business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.

b. The term "Class B business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, or shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.

c. The term "Class C business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of Broward County.

d. The term "Class D business" shall mean any business that does not qualify as a Class A, Class B, or Class C business.

2.20 Disadvantaged Business Enterprise Preference

2.20.1 Section 2-185, Code of Ordinances of the City of Fort Lauderdale, provides for a disadvantaged business preference. In order to be considered for a disadvantaged business preference, a Proposer must include a certification from a government agency, as applicable to the disadvantaged business preference class claimed at the time of Bid/Proposal submittal:

2.20.2 Upon formal request of the City, based on the application of a Disadvantaged Business Preference the Proposer shall within ten (10) calendar days submit the following documentation to the Disadvantaged Business Enterprise Preference Class claimed:

a. Copy of City of Fort Lauderdale current year business tax receipt, or the Tri-County (Broward, Dade, West Palm Beach) current year business tax receipt, or proof of active Sunbiz status and

b. List of the names of all employees of the Proposer and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or the Tri-County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

2.20.3 Failure to comply at time of Proposal submittal shall result in the Proposer being found ineligible for the Disadvantaged Business Enterprise Preference business preference.

2.20.4 The complete disadvantaged business preference ordinance may be found on the City's web site: Click Here

2.20.5 Definitions

a. The term "Disadvantaged Class 1 Enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort

Lauderdale business tax and disadvantaged certification as established in the city's Procurement Manual.

b. The term "Disadvantaged Class 2 Enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with full-time employees and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the city's Procurement Manual.

c. The term "Disadvantaged Class 3 Enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

d. The term "Disadvantaged Class 4 Enterprise" shall mean any disadvantaged business enterprise that does not qualify as a Class 1, Class 2, or Class 3 business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

2.21 Protest Procedure

2.21.1 Any Proposer who is not recommended for award of a contract and who alleges a failure by the city to follow the city's procurement ordinance or any applicable law, may follow the protest procedure as found in the city's procurement ordinance within five (5) days after a notice of intent to award is posted on the city's web site at the following link: Click Here

2.21.2 The complete protest ordinance may be found on the city's web site at the following link: Click Here

2.22 Public Entity Crimes

Contractor represents that the execution of this Agreement will not violate the Public Entity Crime Act, Section 287.133, Florida Statutes (2023), as may be amended or revised, which essentially provides that a person or affiliate who is a contractor, consultant, or other provider and who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to City, may not submit a bid on a contract with City for the construction or repair of a public building or public work, may not submit bids on leases of real property to City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under an Agreement with City, and may not transact any business with City in excess of the threshold amount provided in Section 287.017, Florida Statutes (2023), as may be amended or revised, for category two purchases for a period of 36 months from the date of being placed on the convicted vendor list. Violation of this Section shall result in termination of this Agreement and recovery of all monies paid by City pursuant to this Agreement and may result in debarment from City's competitive procurement activities.

2.23 Subcontractors

2.23.1 If the Contractor proposes to use subcontractors in the course of providing these services to the City, this information shall be a part of the bid/proposal response. Such information shall be subject to review, acceptance, and approval of the City, prior to any contract award. The City reserves the right to approve or disapprove of any subcontractor candidate in its best interest and to require Contractor to replace subcontractor with one that meets City approval.

2.23.2 Contractor shall ensure that all of Contractor's subcontractors perform in accordance with the terms and conditions of this Contract. Contractor shall be fully responsible for all of Contractor's subcontractors' performance, and liable for any of Contractor's subcontractors' non-performance and all of Contractor's subcontractors' acts and omissions. Contractor shall defend, at Contractor's expense, counsel being subject to the City's approval or disapproval, and indemnify and hold harmless the City and the City's officers, employees, and agents from and against any claim, lawsuit, third-party action, or judgment, including any award of attorney fees and any award of costs, by or in favor of any Contractor's subcontractors for payment for work performed for the City.

2.23.3 Contractor shall require all its subcontractors to provide the required insurance coverage as well as any other coverage that the contractor may consider necessary, and any deficiency in the coverage or policy limits of said subcontractors will be the sole responsibility of the contractor.

2.24 Proposal Security – N/A

2.25 Payment and Performance Bond – N/A

2.26 Insurance Requirements

2.26.1 As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, the Contractor, at its sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of the Contractor. The Contractor shall provide the City a certificate of insurance evidencing such coverage. The Contractor's insurance coverage shall be primary insurance for all applicable policies. The limits of coverage under each policy maintained by the Contractor shall not be interpreted as limiting the Contractor's liability and obligations under this Agreement. All insurance policies shall be through insurers authorized or eligible to write policies in the State of Florida and possess an A.M. Best rating of A-, VII or better, subject to approval by the City's Risk Manager.

2.26.2 The coverages, limits, and endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be relied upon by the Contractor for assessing the extent or determining appropriate types and limits of coverage to protect the Contractor against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the Contractor under this Agreement.

2.26.3 The following insurance policies and coverages are required:

Commercial General Liability

Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- $1,000,000 each occurrence and $2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- $1,000,000 each occurrence and $2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for contractual liability and independent contractors.

The City, a Florida municipal corporation, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of the Contractor. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Professional Liability
Coverage must be afforded for Wrongful Acts in an amount not less than $1,000,000 each claim and $2,000,000 aggregate.

Contractor must keep the professional liability insurance in force until the third anniversary of expiration or early termination of this Agreement or the third anniversary of acceptance of work by the City, whichever is longer, which obligation shall survive expiration or early termination of this Agreement.

Business Automobile Liability
Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than $1,000,000 combined single limit each accident.

If the Contractor does not own vehicles, the Contractor shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Workers' Compensation and Employer's Liability
Coverage must be afforded per Chapter 440, Florida Statutes (2023). Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute.

Contractor waives, and Contractor shall ensure that Contractor's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

Contractor must be in compliance with all applicable State and Federal workers' compensation laws, including the U.S. Longshore and Harbor Workers' Compensation Act and the Jones Act, if applicable.

2.26.4 Insurance Certificate Requirements

- **a.** The Contractor shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
- **b.** The Contractor shall provide to the City a Certificate of Insurance having a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
- **c.** In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the Contractor to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
- **d.** In the event the Agreement term or any surviving obligation of the Contractor following expiration or early termination of the Agreement goes beyond the expiration date of the insurance policy, the Contractor shall provide the City with an updated Certificate

of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.

e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.

f. The City shall be named as an Additional Insured on all liability policies, with the exception of Workers' Compensation.

g. The City shall be granted a Waiver of Subrogation on the Contractor's Workers' Compensation insurance policy.

h. The title of the Agreement, Bid/Proposal/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:
City of Fort Lauderdale
401 SE 21st Street
Fort Lauderdale, FL 33316

2.26.5 The Contractor has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at the Contractor's expense.

2.26.6 If the Contractor's primary insurance policy/policies do not meet the minimum requirements, as set forth in this Agreement, the Contractor may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

2.26.7 The Contractor's insurance coverage shall be primary insurance as respects to the City, a Florida municipal corporation, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, a Florida municipal corporation, its officials, employees, or volunteers shall be non-contributory.

2.26.8 Any exclusion or provision in any insurance policy maintained by the Contractor that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

2.26.9 All required insurance policies must be maintained until the contract work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage shall be considered breach of contract. In addition, Contractor must provide to the City confirmation of coverage renewal via an updated certificate should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of Contractor's insurance policies.

2.26.10 The Contractor shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement shall be provided to the Contractor's insurance company or companies and the City's Risk Management office as soon as practical.

2.26.11 It is the Contractor's responsibility to ensure that any and all of the Contractor's independent contractors and subcontractors comply with these insurance requirements. All coverages for independent contractors and subcontractors shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of the Contractor.

2.27 Award of Contract

A Contract (the "Agreement") may be awarded by the City Commission. The City reserves the right to execute or not execute, as applicable, a contract with the Proposer(s) that is determined to be in the City's best interests. The City reserves the right to award a contract to more than one Proposer, at the sole and absolute discretion of the City.

2.28 Unauthorized Work

The Successful Proposer(s) shall not begin work until a Contract has been awarded by the City Commission and a notice to proceed has been issued. Proposer(s) agree and understand that the issuance of a Purchase Order and/or Task Order shall be issued and provided to the Successful Proposer(s) following Commission award; however, receipt of a purchase order and/or task order shall not prevent the Successful Proposer(s) from commencing the work once the City Commission has awarded the contract and notice to proceed is issued.

2.29 Damage to Public or Private Property

Extreme care shall be taken to safeguard all existing facilities, site amenities, irrigation systems, vehicles, etc. on or around the job site. Damage to public and/or private property shall be the responsibility of the Contractor and shall be repaired and/or replaced at no additional cost to the City.

2.30 Safety

The Contractor(s) shall adhere to the Florida Department of Transportation's Uniform manual on Traffic Control for construction and maintenance work zones when working on or near a roadway. It will be the sole responsibility of the Contractor to make themselves and their employees fully aware of these provisions, especially those applicable to safety.

2.31 Uncontrollable Circumstances ("Force Majeure")

The City and Contractor will be excused from the performance of their respective obligations under this agreement when and to the extent that their performance is delayed or prevented by any circumstances beyond their control including, fire, flood, explosion, strikes or other labor disputes, act of God or public emergency, war, riot, civil commotion, malicious damage, act or omission of any governmental authority, delay or failure or shortage of any type of transportation, equipment, or service from a public utility needed for their performance, provided that:

2.31.1 The non-performing party gives the other party prompt written notice describing the particulars of the Force Majeure including, but not limited to, the nature of the occurrence and its expected duration, and continues to furnish timely reports with respect thereto during the period of the Force Majeure;

2.31.2 The excuse of performance is of no greater scope and of no longer duration than is required by the Force Majeure;

2.31.3 No obligations of either party that arose before the Force Majeure causing the excuse of performance are excused as a result of the Force Majeure; and

2.31.4 The non-performing party uses its best efforts to remedy its inability to perform. Notwithstanding the above, performance shall not be excused under this Section for a period in excess of two (2) months, provided that in extenuating circumstances, the City may excuse performance for a longer term. Economic hardship of the Contractor will not constitute Force Majeure. The term of the agreement shall be extended by a period equal to that during which either party's performance is suspended under this Section.

2.32 Canadian Companies

In the event Contractor is a corporation organized under the laws of any province of Canada or is a Canadian federal corporation, the City may enforce in the United States of America or in Canada or in both countries a judgment entered against the Contractor. The Contractor waives any and all defenses to the City's enforcement in Canada, of a judgment entered by a court in the United States of America. All monetary amounts set forth in this Contract are in United States dollars.

2.33 News Releases/Publicity

News releases, publicity releases, or advertisements relating to this contract, or the tasks or projects associated with the project shall not be done without prior City approval.

2.34 Manufacturer/Brand/Model Specific Request – N/A

2.35 Contract Period

The initial contract term shall commence upon date of award by the City and shall expire three (3) years from that date. The City reserves the right to extend the contract for tow (2) additional one-year terms, providing all terms and conditions and specifications remain the same, both parties agree to the extension, and such extension is approved by the City.

In the event services are scheduled to end because of the expiration of this contract, the Contractor shall continue the service upon the request of the City as authorized by the awarding authority. The extension period shall not extend for more than 270 days beyond the expiration date of the existing contract. The Contractor shall be compensated for the service at the rate in effect when this extension clause is invoked by the City.

2.36 Cost Adjustments – N/A

2.37 Service Test Period

If the Contractor has not previously performed the services to the city, the City reserves the right to require a test period to determine if the Contractor can perform in accordance with the requirements of the contact, and to the City's satisfaction. Such test period can be from thirty to ninety days, and will be conducted under all specifications, terms and conditions contained in the contract. This trial period will then become part of the initial contract period.

A performance evaluation will be conducted prior to the end of the test period and that evaluation will be the basis for the City's decision to continue with the Contractor or to select another Contractor (if applicable).

2.38 Contract Coordinator

The City may designate a Contract Coordinator whose principal duties shall be:

- Liaison with Contractor.
- Coordinate and approve all work under the contract.
- Resolve any disputes.

- Assure consistency and quality of Contractor's performance.
- Schedule and conduct Contractor performance evaluations and document findings.
- Review and approve for payment all invoices for work performed or items delivered.

2.39 Contractor Performance Reviews and Ratings

The City Contract Coordinator may develop a Contractor performance evaluation report. This report shall be used to periodically review and rate the Contractor's performance under the contract with performance rating as follows:

Excellent	Far exceeds requirements.
Good	Exceeds requirements
Fair	Just meets requirements.
Poor	Does not meet all requirements and contractor is subject to penalty provisions under the contact.
Non-compliance	Either continued poor performance after notice or a performance level that does not meet a significant portion of the requirements. This rating makes the Contractor subject to the default or cancellation for cause provisions of the contract.

The report shall also list all discrepancies found during the review period. The Contractor shall be provided with a copy of the report and may respond in writing if he takes exception to the report or wishes to comment on the report. Contractor performance reviews and subsequent reports will be used in determining the suitability of contract extension.

2.40 Substitution of Personnel

In the event the Contractor wishes to substitute trained, qualified, personnel for those listed in the proposal, the City shall receive prior notification and have the right to review, test and approve such substitutions, if deemed necessary. If the City has reasonable evidence to believe that an employee of the Contractor is incompetent, or has performed his or her employment in an objectionable manner, the City shall have the right to require the Contractor to resolve the situation to the City's satisfactions, provided, however, that the Contractor shall not be required to institute or pursue to completion any action if to do so would violate any law, state statute, city ordinance, contract or employment or union agreement.

2.41 Ownership of Work

The City shall have full ownership and the right to copyright, otherwise limit, reproduce, modify, sell, or use all the work or product produced under this contract without payment of any royalties or fees to the Contractor above the agreed hourly rates and related costs.

2.42 Condition of Trade-In Equipment – N/A

2.43 Conditions of Trade-In Shipment and Purchase Payment – N/A

2.44 Verification of Employment Status

Any Contractor/Consultant assigned to perform responsibilities under its contract with a State agency is required to utilize the US Department of Homeland Security's E-Verify system (per Executive Order Number 11-02) to verify the employment eligibility of: (a) all persons employed during the contract term by the Contractor to perform employment duties within Florida; and (b) all persons (including subcontractors) assigned by the Contractor to perform work pursuant to the contract with the State agency.

E-VERIFY Affirmation Statement must be completed and submitted with Proposer's response to this RFP.

2.45 Service Organization Controls – N/A

2.46 Warranties of Usage

Any estimated quantities listed are for information and tabulation purposes only. No warranty or guarantee of quantities needed is given or implied. It is understood that the Contractor will furnish the City's needs as they arise.

2.47 PCI (Payment Card Industry) Compliance

Contractor agrees to comply with all applicable state, federal, and international laws, as well as industry best practices, governing the collection, access, use, disclosure, safeguarding, and destruction of protected information.

- **PCI Attestation of Compliance (AoC):**
  - Contractor must provide a current PCI Attestation of Compliance (AoC) signed by a PCI Qualified Security Assessor (QSA) at the time of proposal submission.
  - The AoC must be dated no older than one year. If the AoC exceeds this timeframe, a bridge letter signed by a QSA must be provided.
  - Failure to submit a valid AoC and, if applicable, a bridge letter, shall result in the bid being deemed non-responsive.
  - The City is the sole judge in determining the acceptability of the AoC and any accompanying documentation.

- **Ongoing PCI Compliance:**
  - Contractor and/or any subcontractor that handles credit card data must be, and remain, PCI compliant under the current standards.
  - Contractors must provide updated PCI compliance documentation, including a new AoC, upon request by the City of Fort Lauderdale.

Failure to maintain PCI compliance or to provide requested documentation may result in termination of the contract.

END OF SECTION

SECTION III - TECHNICAL SPECIFICATIONS/SCOPE OF SERVICES

3.1 Project Definition and Objective

The City of Fort Lauderdale's Transportation and Mobility Department (TAM) provides safe, equitable mobility options by strategically elevating policy, planning, and implementation of projects within the City under one umbrella. TAM is focused on developing a transportation ecosystem that embodies all existing modes of transportation while addressing future transportation needs as a City continues to grow and develop. The department consists of three divisions: Administrative Support, Parking Services, and Transportation. TAM has 87 full-time employees and a budget of $29 million.

In 2017, the City of Fort Lauderdale approved a 24-month construction project to build Las Olas Parking Garage. The facility was designed with 581 architectural fins along the façade adding depth and dimension. A Dynamic Facade LED Lighting System (selected during design in 2016) was installed within each detailed fin drawing attention to the building aesthetics. Each fin is comprised of either one (1) or two (2) DOT XL3 RGB light strands. Lighting Control Engine 2 (LCE2) serves as a central control unit and orchestrates all fixtures within the project. In 2019 the parking facility was completed and the DFLS became operational. In 2020 several of the nodes in the light strands failed after a limited number of hours used. In 2021 the hard drive within the LCE2 failed and had to be replaced by manufacturer. System is currently non-operational

The City of Fort Lauderdale (City) is seeking a qualified vendor to deliver a turnkey Dynamic Façade Lighting System (DFLS) at the Las Olas Parking Garage. The selected vendor will be responsible for the design, selection, installation, operation, maintenance, and programming of the DFLS during the term of the agreement.

3.1.1 Licensing Requirements: Possession of the following is required for this Project: State of Florida Certified Electrical Contractor (CEC) or the Registered Electrical Contractor (REC) license or any other State or County License(s), Certification(s) or Registration(s) deemed legally permissible by the City to conduct the nature of the work required in this solicitation. Proposer should submit a copy of license with RFP response. Any sub-contractors employed by the Proposer shall be licensed and insured in accordance with this solicitation. Additionally, it is the Proposer's responsibility to ensure that any sub-contractors' work meets the requirements of this solicitation at all times.

3.2 Scope of Work

This specification describes a custom, programmable, LED (or approved equal) lighting system that is integrated into the architectural "fins" of the Las Olas Parking Garage. This system is herein referred to as the Dynamic Façade Lighting System (DFLS).

3.2.1 Manufacturer Qualifications: The manufacturer shall be engaged for a minimum of (10) years prior to the project's tender date in the manufacturing, installation and sales of LED (or like) lighting fixtures and control equipment. Proposers shall have (5) prior years' experience in the design and manufacturing of building façade lighting equipment. Prior projects shall have been in operation for a minimum of (5) years prior to project tender date.

3.2.2 DFLS shall carry a product warranty period of (5) years.

3.2.3 Attic Shock: Attic Stock (spares) will be stored on-site and required for all system components. The exact number of spares will be dependent upon known and calculated failure rates and upon the nature of the component.

a. All "attic stock" of fixtures and data distribution equipment shall have "auto addressing" capability, meaning that if a failure does occur at the fixture level, no programming will be needed. The failed equipment shall be swapped out with attic stock and the system shall be operational with a technician's assistance.

b. "Attic stock" control components must have the capability to be accessed remotely and integrated into the system when physically replaced by technician; the only exception being a catastrophic failure of the main server, requiring an on-site visit by a technician.

3.2.4 General Requirements For Components Hardware

a. Product testing standard compliances including Electrical Testing Laboratories/Underwriters Laboratories approvals.

b. Products shall provide EMC (FCC) compliance documentation.

c. Products shall withstand prolonged exposure to elevated heat index conditions.

d. Product shall be designed to resist salt air environments and provides protection against sodium chloride exposure.

e. LED (or like) shall have a minimum rating of 50,000 hours.

f. LED (or like) shall be manufactured by an established market leader (as recognized by industry sources) with a manufacturing history of at least 10 years.

g. Products shall be in compliance with applicable national, state, local and international electrical codes and standards.

h. Products shall include controls necessary to adjust individual pixel light levels to comply with city, territory or national light pollution levels (if applicable).

i. The DFLS shall be provided with firmware and software to operate via Central Control.

j. Software, developed and provided by the same manufacturer as the fixtures, will be provided to allow the various content sources to be properly configured to match the resolution and framing of the DFLS.

k. Data distribution equipment and cabling will be hidden from normal exterior viewing. As required, an interior vertical chase near the LEDs and curtain wall will be available.

l. **Power Distribution**

aa. AC/DC converters, cabling, and connectivity will be required to bring the building electrical service to the DFLS and data distribution equipment.

bb. All power distribution equipment and cabling required by the DFLS and data distribution near the curtain wall will be hidden from normal exterior viewing.

cc. Electrical loads associated with the DFLS will be grouped into circuits sized according to local standard fusing.

dd. Electrical power requirements of the DFLS will be coordinated with project electrical engineering to ensure proper service and fusing equipment is allocated by the project.

m. **Central control:** A location will be provided for control computers, video management equipment, and media-interface, collectively referred to as "Central Control". Central Control will have the capability to receive content from multiple sources and manage the content output to the LEDs. Central Control will be configured to properly receive the various types of content, will store and manage the content, will include user interfaces, and will accommodate the aspect ratio, display frames, and data transmission speed required to drive the LEDs. Central Control will also be accessible via the internet.

n. **Systems Management**

aa. The DFLS requires a complete turn-key solution for lighting and management of the DFLS.

bb. Proposer shall manage the DFLS during the duration of the contract and fees should be included in proposal.

cc. The DFLS will be provided with firmware and software to be incorporated that is developed and provided by the same manufacturer as the fixtures to operate the DFLS via Central Control.

dd. In addition to native content development and management, the DFLS requires the ability to receive media from a variety of sources and translate into a suitable format and resolution for the DFLS.

ee. The system needs to be able to accept content from numerous data sources, manipulate and edit content for delivery across the video display system in multiple zones, schedule shows in advance based on calendars, time of day, and events.

o. **Local and Global Input:** The system shall be able to integrate with, edit and manage data from multiple sources such as:

aa. Internet accessed data

bb. Video sources (analog inputs/outputs)

cc. Multiple file types such as Adobe Creative Suite, QuickTime movies, WMV files, and any other required or provided by the City

dd. Graphics design and editing server solutions

p. **Content Management System:** The system suggestions are comprehensive with key functionality including:

aa. Gigabit Pixel Data Distribution System

bb. Control solutions suite for control over transitions and effects

cc. Workflow system for scheduling and management

dd. Ethernet and interface control cabinet for interface to the DFLS data

q. **Illuminance Level**

aa. Provide adequate illuminance levels so that DFLS is viewable from dusk to dawn.

bb. LED Pixels on the tower will have a minimum brightness of 16 lumens per pixel. LED intensity is to be adjustable depending on height from the ground so as not to overwhelm close distance viewers.

3.3 Services to be Provided to The City

The DFLS project services to be provided by the DFLS provider consist of samples and demonstrations for final design approval by the Architect and Lighting Designer, labor and materials to manufacture the DFLS, installation documentation, installation consultation, on-site support during mockup demonstration, installation, start-up (commissioning, qualification, and verification), provision of a maintenance plan, and local product support after turn-over.

3.3.1 Project Services: The DFLS services to be provided by the manufacturer of the fixtures and control equipment will include:

a. Full shop drawings of the DFLS and installation instructions.

b. On-site preconstruction meeting to review shop drawings and installation methods.

c. Stock "lighting effects".

d. Custom "lighting effects", specific to the project's layout.

e. Custom user GUI (graphic user interface), specific to the project, to be designed with the end-user.
f. If necessary, integration with another building system, such as a lighting control system or a building management system.
g. Integration to include only the receiving commands or triggers from a third party system.
h. Commands must be compatible with the input protocols and ports of the DFLS control equipment.
i. On-site programming and system commissioning services.
j. Six months to one year after commissioning, once the owner has "lived" with the system, a return visit to make slight adjustments to the GUI lighting effects, and integration.
k. Additional services and programming outside of the original scope to be provided with separate contracts.

3.3.2 Maintenance:

a. The Proposer shall maintain DFLS and associated components in first-class, like new condition throughout the life of the contract agreement including refurbishing, reconditioning and if necessary, replacing any systems or components.
b. The Proposer shall provide maintenance of the entire system in accordance with the manufacturer(s)' recommended frequency to ensure all equipment is properly inspected, tested and fully operational at all times.
c. Within a month of installation, the Proposer shall provide the City a preventive maintenance schedule for the first year. By month 11 of the first year, the Proposer shall provide maintenance schedule to the City for the second year. The Proposer shall continue providing maintenance schedule for the remaining term of the contract. All maintenance schedules are subject to City's review and approval.
d. Any malfunctions shall be corrected within a reasonable time they are reported by the City. Reasonable times shall be noted by the level of repair.
    aa. Level 1 (Minor Repairs) within 24 hours of being reported
    bb. Level 2 (Hardware Repairs) within 72 hours of being reported
    cc. Level 3 (Significant Repairs) within 10 business days of being reported
e. It is the intent of the City to impress upon the Proposer the need for continual maintenance of the DFLS and associated components to ensure the system is always fully functional. In accordance with the service requirements of the resulting agreement, the Proposer shall be liable for damages resulting from its failure to meet contractual requirements or performance standards. The City's assessment of any and all performance penalty fees shall be final, subject to good faith disputes. The City will facilitate the fee assessment by invoicing the Proposer for the amount assessed or deducting the amount from any invoices from the Proposer for the services provided to the City under the contract. The penalty fee shall be interpreted as failure to maintain the DFLS as directed by the City. A written notice of violation and intent to impose a penalty fee shall be provided to the Proposer in the form of a written report. These Penalty Fee reports will be issued to the Proposer by the City's Contract Manager, in order to afford the Proposer time to notify the City of any extenuating circumstances. Penalty Fee shall result in the following per diem fees per reported incident: Days exclude weekends and City observed holidays.

aa. Level 1: Penalty Fee in the amount of $100 per day (24 hours) per reported incident. Repairs to be completed within 24 hours.

1. Level 1: Penalty Fee: Minors Issues
    i. Example 1: Software resets
    ii. Example 2: Basic troubleshooting

bb. Level 2: Penalty Fee in the amount of $150 per day (24 hours) per reported incident. Repairs to be completed within (72 hours), if parts are readily available.

1. Level 2 Penalty Fee: Hardware Repairs
    i. Example 1: Replacing light tracks
    ii. Example 2: Replacing connectors or cables

cc. Level 3: Penalty Fee in the amount of $200 per day (24 hours) per reported incident. Repairs to be completed within (10 business days), if parts are readily available.

1. Level 3 Penalty Fee: Significant Repairs.
    i. Example 1: Central control components.
    ii. Example 2: Computer/Video management equipment

3.3.3 On-Site Repairs

a. In the event of equipment or hardware malfunction or failure, Proposer shall provide a reporting procedure, and a maintenance crew shall respond to the site within 24 hours, seven days a week, from the time issue is reported.
b. The Proposer shall provide written quotes to the contract administrator for service activities beyond the contracted service agreement (including labor, parts, and percentage mark-up on parts) for approval prior to proceeding with any work beyond a site visit.

3.3.4 Content Creation

a. Proposer shall create innovative digital content to be displayed.
b. Proposer shall provide up to 100 specific digital content designs at the start of the contract. City shall provide list of content.
c. Contract administrator shall review all content prior to Proposer installing content.
d. City shall review content on a yearly basis during term of contract.
e. City may request up to 10 new digital content designs per year of the contract.

3.3.5 Content Management

a. The City will provide internet access within the server room, utilizing a separate demarcation from the City's primary infrastructure to ensure security and operational independence. The application used to control the lighting themes must be a web-based platform, hosted on cloud infrastructure, enabling secure access through a username and password authentication mechanism. This will serve as the primary method of access.
b. Additionally, the City requires Bomgar BeyondTrust to be installed as the designated remote access tool. This software aligns with the City's IT Security Protocols and will be utilized for remotely accessing the server or PC when updates or maintenance are necessary.

3.3.6 Required Content

a. City will provide Proposer with a list of set themes required to be stored as content to be displayed on the DFLS.

b. City shall have access to Central Control to program set themes on requested dates.
c. City required programmable themes will consist of calendar related themes, color themes, annual City event themes and other suggested themes.

END OF SECTION

SECTION IV – SUBMITTAL REQUIREMENTS

4.1 Instructions

4.1.1 The City of Fort Lauderdale uses its own on-line strategic sourcing platform to administer the competitive solicitation process, including but not limited to soliciting proposals, issuing addenda, responding to questions / requests for information. There is no charge to register and download the RFP from the City's on-line strategic sourcing platform. Proposers are strongly encouraged to read the supplier tutorial available in the City's on-line strategic sourcing platform well in advance of their intention of submitting a proposal to ensure familiarity with the use of the City's on-line strategic sourcing platform. The City shall not be responsible for a Proposer's inability to submit a proposal by the end date and time for any reason, including issues arising from the use of the City's on-line strategic sourcing platform.

4.1.2 Careful attention must be given to all requested items contained in this RFP. Proposers are invited to submit proposals in accordance with the requirements of this RFP. Please read entire solicitation before submitting a proposal. Proposers must provide a response to each requirement of the RFP. Proposals should be prepared in a concise manner with an emphasis on completeness and clarity. Notes, exceptions, and comments may be rendered on an attachment, provided the same format of this RFP text is followed.

4.1.3 All information submitted by Proposer shall be typewritten or provided as otherwise instructed to in the RFP. Proposers shall use and submit any applicable or required forms provided by the City and attach such to their proposal. Failure to use the forms may cause the proposal to be rejected and deemed non-responsive.

IN THE EVENT OF ANY CONFLICT OR DISCREPANCY BETWEEN BID/PROPOSAL PRICE(S) SUBMITTED BY BIDDER/PROPOSER ELECTRONICALLY INTO THE CITY'S ON-LINE STRATEGIC SOURCING PLATFORM UNIT PRICE FIELD(S), ANY OTHER FORMS OR ATTACHMENTS (WHETHER PART OF THE CITY'S SOLICITATION DOCUMENTS OR DOCUMENTS CREATED AND UPLOADED BY THE BIDDER/PROPOSER), OR ANOTHER SECTION/FIELD OF THE SYSTEM, THE ONLINE UNIT PRICE(S) INPUTTED ELECTRONICALLY INTO THE SYSTEM BY BIDDER/PROPOSER SHALL GOVERN.

4.1.4 Proposals shall be submitted by an authorized representative of the firm. Proposals must be submitted in the business entities name by the President, Partner, Officer or Representative authorized to contractually bind the business entity. Proposals shall include an attachment evidencing that the individual submitting the proposal, does in fact have the required authority stated herein.

4.1.5 All proposals will become the property of the City. The Proposer's response to the RFP is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters, or other material submitted in connection with this RFP and the Contract to be executed for this RFP, subject to the provisions of Chapter 119.07 of the Florida Statutes. Any language contained in the Proposer's response to the RFP purporting to require confidentiality of any portion of the Proposer's response to the RFP, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and

that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the RFP constitutes a Trade Secret. The city's determination of whether an exemption applies shall be final, and the Proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of the City.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT PRRCONTRACT@FORTLAUDERDALE.GOV, 954-828-5002, CITY CLERK'S OFFICE, ONE EAST BROWARD BOULEVARD, SUITE 444, FORT LAUDERDALE, FLORIDA 33301.

Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service.

2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2023), as may be amended or revised, or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this contract if the Contractor does not transfer the records to the City.

4. Upon completion of the Contract, transfer, at no cost, to the City all public records in possession of the Contractor or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of this Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of this Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

4.1.6 By submitting a response Proposer is confirming that the firm has not been placed on the convicted vendors list as described in Section §287.133 (2) (a) Florida Statutes; that the only person(s), company or parties interested in the proposal as principals are named therein; that the proposal is made without collusion with any other person(s), company or parties submitting a proposal; that it is in all respects fair and in good faith, without collusion or fraud; and that the signer of the proposal has full authority to bind the firm.

4.2 Contents of the Proposal

The City deems certain documentation and information important in the determination of responsiveness and for the purpose of evaluating proposals. Proposals should seek to avoid information in excess of that requested, must be concise, and must specifically address the issues of this RFP. The City prefers that proposals be no more than 100 pages in one complete pdf document. The proposals should be organized, divided, and indexed into the sections indicated herein. These are not inclusive of all the information that may be necessary to properly evaluate the proposal and meet the requirements of the scope of work and/or specifications. Additional documents and information should be provided as deemed appropriate by the respondent in proposal to specific requirements stated herein or through the RFP.

4.2.1 Table of Contents

The table of contents should outline in sequential order the major areas of the submittal, including enclosures. All pages should be consecutively numbered and correspond to the Table of Contents.

4.2.2 Executive Summary

Each Offeror must submit an executive summary that identifies the business entity, its background, main office(s), and office location that will service this contract. Identify the officers, principals, supervisory staff, and key individuals who will be directly involved with the work and their office locations. The executive summary should also summarize the key elements of the proposal.

4.2.3 Experience and Qualifications

Indicate the firm's number of years of experience in providing the professional services as it relates the work contemplated. Provide details of past projects for agencies of similar size and scope, including information on your firm's ability to meet time and budget requirements. Indicate the firm's initiatives towards its own sustainable business practices that demonstrate a commitment to conservation. Indicate business structure, IE: Corp., Partnership, LLC. Firm should be registered as a legal entity in the State of Florida; Minority or Woman owned Business (if applicable); Company address, phone number, fax number, E-Mail address, web site, contact person(s), etc. Relative size of the firm, including management, technical and support staff; licenses and any other pertinent information shall be submitted.

4.2.4 Approach to Scope of Work

Provide in concise narrative form, your understanding of the City's needs, goals and objectives as they relate to the project, and your overall approach to accomplishing the project. Give an overview on your proposed vision, ideas, and methodology. Describe your proposed approach to the project.

As a part of the response, a design plan and diagram(s) shall be presented to the City for approval.

The Proposer shall also propose a scheduling methodology (timeline) for effectively managing and executing the work in the optimum time. The delivery time shall be stated in calendar days from the date of City notification of award or notice to proceed with delivery. Such timeline information and proposed dates shall include, but not necessarily be limited

to: delivery, installation, acceptance testing, personnel, and other related completion dates, in accordance with the RFP specifications.

NOTE: The project must be completed and accepted within 120 days from the City Notice to Proceed.

Also provide information on your firm's current workload and how this project will fit into your workload. Describe available facilities, technological capabilities, and other available resources you offer for the project.

Additionally, the proposal should specifically address:

A. Who
B. What
C. When
D. Where
E. Why
F. How

4.2.5 References

Provide at least three references, preferably government agencies, for projects with similar scope as listed in this RFP. Information should include:

- Client Name, address, contact person telephone and E-mail addresses.
- Description of work.
- Year the project was completed.
- Total cost of the project, estimated and actual.

Note: Do not include City of Fort Lauderdale work or staff as references to demonstrate your capabilities. The Committee is interested in work experience and references other than the City of Fort Lauderdale.

4.2.6 Minority/Women (M/WBE) Participation

If your firm is a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985, provide copies of your certification(s). If your firm is not a certified M/WBE, describe your company's previous efforts, as well as planned efforts in meeting M/WBE procurement goals under Florida Statutes 287.09451.

4.2.7 Subcontractors

Proposer must clearly identify any subcontractors that may be utilized during the term of this contract.

4.2.8 Required Forms

A. Proposal Certification
Complete and attach the Proposal Certification provided herein.

B. Non-Collusion Statement
This form is to be completed, if applicable, and inserted in this section.

C. Non-Discrimination Certification Form
This form is to be completed and inserted in this section.

D. Local Business Preference (LBP)
This form is to be completed, if applicable, and inserted in this section.

E. Disadvantaged Business Enterprise Preference (DBEP)
This form is to be completed, if applicable, and inserted in this section.

F. Contract Payment Method
This form must be completed and returned with your proposal. Proposers must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

G. E-Verify Affirmation Statement
This form must be completed and returned with your proposal.

H. Affidavit of Compliance
This form must be completed, notarized, and returned with your proposal.

I. Anti-Human Trafficking Affidavit
This form must be completed, notarized, and returned with your proposal.

J. Sample Insurance Certificate
Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies names for the required coverage and limits.

K. W-9 for Proposing Firm
This form must be completed and returned with your proposal.

L. Active Status Page from Division of Corporations – Sunbiz.org
Provide PDF of current page with your proposal.

4.2.9 Licensing Requirements
Proof of the following: State of Florida Certified Electrical Contractor (CEC) or the Registered Electrical Contractor (REC) license or any other State or County License(s), Certification(s) or Registration(s).

END OF SECTION

SECTION V – EVALUATION AND AWARD

5.1 Evaluation Procedure

5.1.1 Bid/Proposal Tabulations/Intent to Award

Notice of Intent to Award Contract/Bid, resulting from the City's Formal solicitation process may be found at: Click Here. Tabulations of receipt of those parties responding to a formal solicitation may be found at: Click Here. Any interested party may call the Procurement Services Division at 954-828-5933, or email ProcurementSupport@fortlauderdale.gov, for more information.

5.1.2 Evaluation of proposals will be conducted by an Evaluation Committee, consisting of a minimum of three members of City Staff, or other persons selected by the City Manager or designee. All committee members must be in attendance at scheduled evaluation meetings. Proposals shall be evaluated based upon the information and references contained in the responses as submitted.

5.1.3 The Committee may short list Proposals that it deems best satisfy the weighted criteria set forth herein. The committee may then conduct interviews and/or require oral presentations from the short-listed Proposers. The Evaluation Committee shall then re-score and re-rank the short-listed firms in accordance with the weighted criteria.

5.1.4 The City may require visits to the Proposer's facilities to inspect record keeping procedures, staff, facilities and equipment as part of the evaluation process.

5.1.5 The final ranking and the Evaluation Committee's recommendation may then be reported to the City Manager for consideration of contract award.

5.2 Evaluation Criteria

5.2.1 The City uses a mathematical formula to determine the scoring for each individual responsive and responsible firm based on the weighted criteria stated herein. Each evaluation committee member will rank each firm by criteria, giving their first ranked firm a number 1, the second ranked firm a number 2, and so on. The City shall multiply that average ranking by the weighted criterion identified herein to determine the total the points for each Proposer. The lowest average final ranking score will determine the recommendation by the evaluation committee to the City Manager.

5.2.2 Weighted Criteria

Ability to Meet Objectives: Understands the scope of the project.; Product meets City's objectives; requirement in RFP; Support/Services	50%
Experience: References; Staffing qualifications; Years in Business	20%
Total Project Cost	30%
TOTAL PERCENT AVAILABLE:	100%

5.3 Contract Award

The City reserves the right to award a contract to that Consultant who will best serve the interest of the City. The City reserves the right, based upon its deliberations and in its opinion, to accept or reject any or all proposals. The City also reserves the right to waive minor irregularities or variations of the submittal requirements and RFP process.

Las Olas Parking Garage

Fort Lauderdale, FL

Drawing Index

TX000 - Title Sheet	TX101 - Architectural	TX401 - Wiring	TX501 - Controls	TX901 - Pin Out
TX001 - Notes & Contact Info	TX102 - Architectural	TX402 - Wiring	TX502 - Controls	
TX002 - BOM & Symbol Key	TX103 - Schedule		TX503 - Controls	
	TX104 - Schedule		TX504 - Controls	
	TX105 - Schedule			
	TX106 - Schedule			

2300 Wisconsin Street
Williamsburg, MA 01267
+1 (978) 870-2000 (T)
www.beaconcircle.com

beaconcircle
AN EBRAUN BUSINESS

REVISIONS

REV.

LOCATION: Fort Lauderdale, FL

PROJECT: Las Olas Parking Garage

JOB NO: XXX

DATE: 2017-12-08

FILE NAME: TX000.dwg

SCALE: NTS

DRAWN BY: RDE

CHECKED BY: CRC

SHEET SIZE: ANSI-B

SHEET TITLE: Title Sheet

SHEET NUMBER: TX000

SUBMITTAL

PROJECT NOTES:

1. Fixture system voltage is 120v AC.
2. Control system voltage is 120VAC.
3. All Cat5 data cables to be provided by contractor.
4. Controls to be located in dry, accessible, and conditioned location. Enclosures and mounting hardware required to maintain products within stated operating limits to be provided by others.
5. Fixture installation (mounting, wiring, and aiming) to be performed by others.
6. Dot XL-3 48PXL include 48 nodes with 7" on-center spacing. 10 meter leader cable included..
7. Maximum 3 Dot XL-3 strings per DMX universe.
8. Maximum distance from controls to fixtures is 300m.
9. Strings to be field cut per fin as needed.
10. Basic video content provided.
11. Video is hosted from server.
12. LCE2FX to utilize Symphalight software.
13. IP67 Field Installable RJ-45 connector sleeves to be provided by Traxon.
14. Cat5 (typ) and RJ-45 connectors to be provided by others.
15. Cat5 (typ) must be outdoor rated with outside diameter of 4.5-6.5mm.
16. Mounting hardware to be provided by others.
17. Exact mounting methods and of DOTXL3 Strings to be determined and coordinated by architect and installing contractors.
18. DOTXL3 Strings to be field cut as needed- Proper use of the field cut termination kits are required to keep the IP66 rating on these fixtures.
19. Electrical contractor to allow for field cutting as required. Follow instructions included with Field Cut Kits.
20. DOTXL3 Strings, Power Supply, Pixel Distributors, and RJ45 Connections MUST be made when fixtures are installed outdoors.
21. Any DOTXL3 String, PSU, Pixel Distributor, or Outdoor RJ45 termination/cable installed without being connected to all of the above listed parts is not outdoor rated. All parts and pieces of this system carry the IP66 rating only when all connections are made. Installing any part of this system (outdoors) without its other components will render those parts unwarrantable.
22. All RJ45 connections to Pixel Distributors must be made using outdoor RJ45 Connectors. Follow included instructions for assembling these connectors. Be sure each connector has the proper adhesive backed rubber gasket installed to ensure watertight operation.
23. (12) spare DotXL-3 systems are provided.
24. The first DOTXL3 node must be placed consistently 6" from the bottom of each curved fin.
25. In the case of firs requiring a second string of DOTXL3- the first node of the second string must be mounted exactly 6 inches on center from the last node of the previous string in order to maintain consistent pixel pitch.
26. For visual consistency, the last DOTXL3 node of any fin should not be mounted any closer than 4" from the top of that fin. Remaining nodes should be field cut per field cut end cap instructions. DO NOT CUT UNDER LOAD.

GENERAL NOTES:

1. Please contact Traxon personnel at least three weeks before energizing equipment to schedule System Setup Services (Commissioning and Programming Services). Do not energize system if a Traxon representative is not present.
2. All questions regarding this system should be directed to the Technical Solutions Consultant.
3. CAT 5 cables to be provided by EC. Refer to TX901 for Traxon pinout.
4. All dimensions are in meters unless otherwise specified. Use the following conversion to obtain dimensions in feet.

$$\text{Feet} = \frac{\text{meter}}{0.3048}$$

5. All layouts shown on this package are suggestive only. Final fixture layout to be determined by others.
6. For additional information on mounting and configuration, refer to each product's specification sheet, wiring diagram, mounting guide, and manual from Traxon's website: http://www.traxontechnologies.com

REV.	DATE	BY	REMARKS
			SUBMITTAL

PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO: XXX
FILE NAME: TX000.dwg
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SHEET NUMBER: TX001
SHEET TITLE: Notes + Contact Info

Project Bill of Materials:

Part Number:	Description:	Quantity:
custom	Dot XL-3 RGB 48PXL 15v with a 7" (178) mm pitch- NO DOME. 10m Leader	581
PS.OA.0002200	LED Engine 75W 15v Outdoor - Dot XL	581
DE.AC.0100000	RJ45 Field Installation Male Connector.	1161
DO.AC.0002400	Dot XL-3 Clip (50 pcs)	581
DO.AC.0003600	Dot XL Field-cut End Cap (50pcs)	13
EN.LC.9400000	LIGHTING CONTROL ENGINE FX 2	1
EN.BP.0000100	BUTLER PRO DMX/RDM	12
AC.C3.5240000	300 series 24 port switch	1
160174	BUTLER XT2 GARAGE	1
EN.BX.0000001	Butler XT2	1
AC.EN.0000001	Din Rail Engine Accessory Pack (Butler XT2, LCE MX)	1
160215	GLASS TOUCH T12 white	1
RM-KB-LCD17KVMHD	1 Space (1 3/4") Rackmount 17" LCD Monitor With Keyboard	1
RA.C3.ERK4425	44 Space (77"), 25" Deep Stand Alone Rack Less Rear Door.	1
RA.C3.ERKRR44	44 Space (77") Erk Rear Rail Kit	1
RA.C3.PD1820R	18 Outlet, Single 20 Amp Circuit, Multimount Power Distributio	1
RA.C3.00VFD44	Vented Front Door, Fits 44 Space Erk, Mrk, Wrk, Vrk Series R	1
TBD	RKMT UPS2200VA1650W 2SP 3 1/2" VS1 MIDAT	1
PS.AC.0000200	AC Power Cord (US)	1

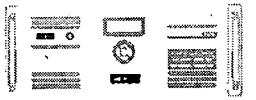
Symbol List

FIXTURES



Dot XL

CONTROLS



Lighting Control Engine 2 FX



Glasstouch T12



Butler Pro

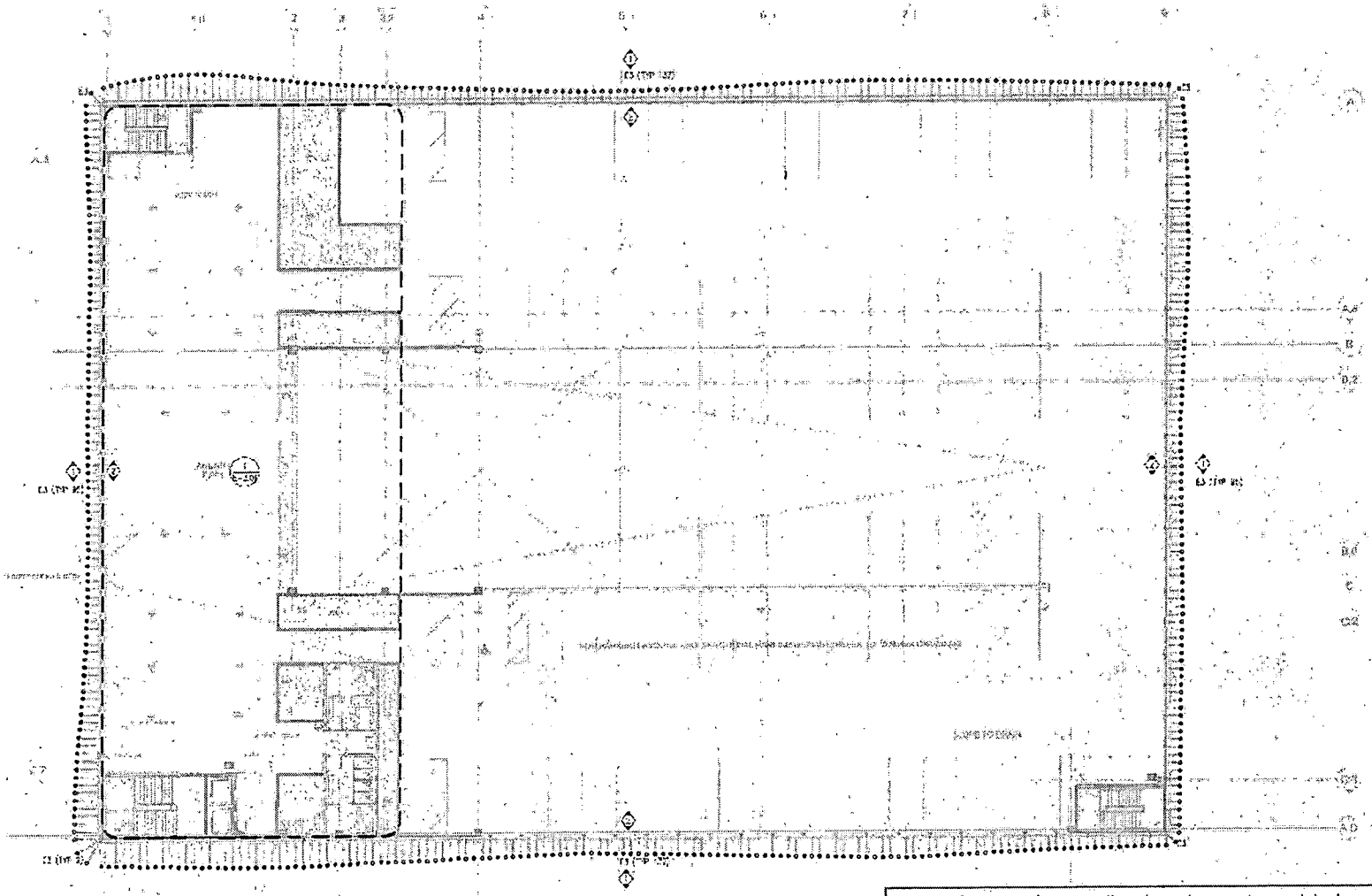


Butler XT 2

CABLES

ACCESSORIES

PROJECT	Las s arking Garage	LOCATION:	Fort La de, FL	
DATE	2017-12-08	JOB NO.	XXX	
SHEET SIZE:	ANSI-B	SCALE	NTS	
SH T NUMBER	TX002	SHEET TITLE:	BOM + bol Key	
FILE NAME	TX000.dwg			
DRAWN BY	RDE	CHECKED BY	CRC	
NO.	DATE	BY	REMARKS	
			SUBMITTAL	



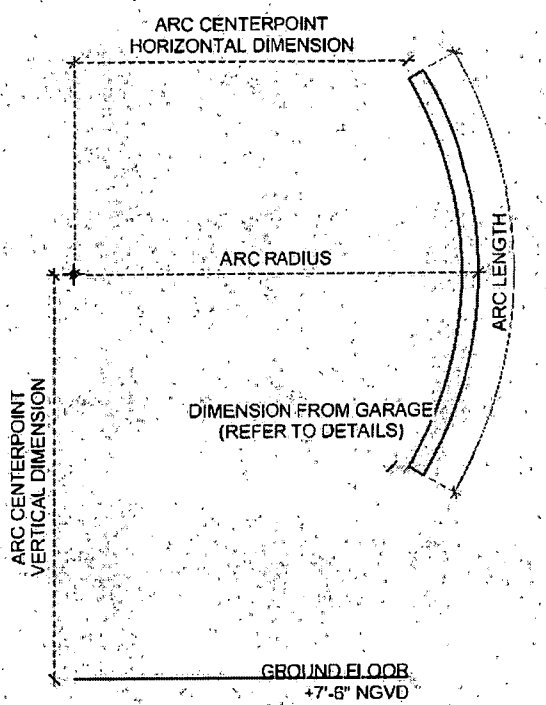
1 TX101 Traxon Fixture Locations
SCALE: N.T.S.

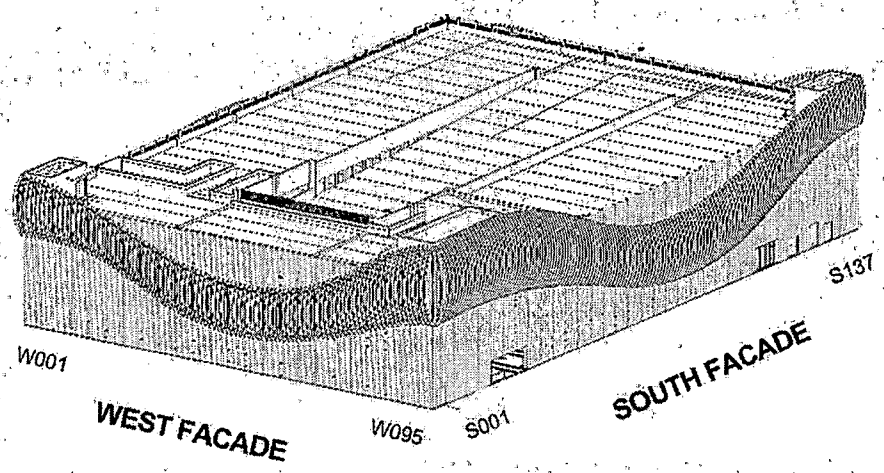
Drawings are diagrammatic only and are not meant to be used for construction. Please refer to engineering drawings for exact fixture location and placement.

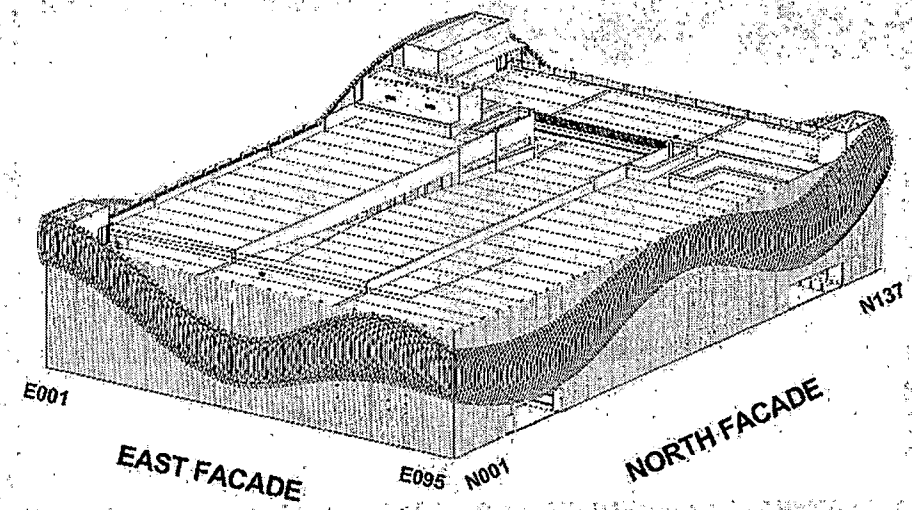
Drawings are based on "Electrical and Lighting Enlarged Plan" drawings, sheet "E-3.01". Drawings are dated October 16th, 2016, and their issue type is not indicated.

REV	DATE	BY	REMARKS
			SUBMITTAL

PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
JOB NO. XXX
FILE NAME: TX100.dwg
DATE: 2017-12-08
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SCALE: NTS
SHEET TITLE: Architectural
SHEET NUMBER: TX101







Drawings are diagrammatic only and are not meant to be used for construction. Please refer to engineering drawings for exact fixture location and placement.

Drawings are based on "Parking Garage Facade Schedules" drawings, sheet "A4-4.21". Drawings are dated July 29th, 2016, and their issue type is not indicated.

Drawings are based on "Parking Garage Facade Schedules" drawings, sheet "A4-4.22". Drawings are dated July 29th, 2016, and their issue type is not indicated.

1 TX102 Traxon Fixture Locations

SCALE: N.T.S.

REV	DATE	BY	REMARKS
			SUBMITTAL

LOCATION: Fort Lauderdale, FL
PROJECT: Las Olas Parking Garage
ADD NO.: XXX
DATE: 2017-12-08
FILE NAME: TX100.dwg
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SHEET TITLE: Architectural
SHEET NUMBER: TX102

Run:	Length (Ft.):	Offset:	#requirec
N001	21.83	21.33	1
N002	22.13	21.63	1
N003	22.43	21.93	1
N004	22.73	22.23	1
N005	23.02	22.52	1
N006	23.30	22.80	1
N007	23.59	23.09	1
N008	23.87	23.37	1
N009	24.14	23.64	1
N010	24.42	23.92	1
N011	24.68	24.18	1
N012	24.94	24.44	1
N013	25.20	24.70	1
N014	25.45	24.95	1
N015	25.70	25.20	1
N016	25.94	25.44	1
N017	26.18	25.68	1
N018	26.41	25.91	1
N019	26.63	26.13	1
N020	26.84	26.34	1
N021	27.05	26.55	1
N022	27.25	26.75	1
N023	27.44	26.94	1
N024	27.62	27.12	1
N025	27.79	27.29	1
N026	27.95	27.45	1
N027	28.10	27.60	1
N028	28.24	27.74	1
N029	28.37	27.87	1
N030	28.48	27.98	1
N031	28.58	2808	2
N032	28.66	28.16	2
N033	28.72	28.22	2
N034	28.77	28.27	2
N035	28.80	28.30	2
N036	28.80	28.30	2
N037	28.78	28.28	2
N038	28.74	28.24	2
N039	28.67	28.17	2
N040	28.58	28.08	2
N041	28.46	27.96	1
N042	28.30	27.80	1
N043	28.12	27.62	1
N044	27.90	27.40	1
N045	27.64	27.14	1
N046	27.36	26.86	1
N047	27.04	26.54	1
N048	26.69	26.19	1
N049	26.30	25.80	1
N050	25.90	25.40	1
N051	25.46	24.96	1
N052	25.01	24.51	1
N053	24.55	24.05	1
N054	24.09	23.59	1
N055	23.62	23.12	1
N056	23.15	22.65	1
N057	22.67	22.17	1
N058	22.21	21.71	1
N059	21.74	21.24	1
N060	21.29	20.79	1
N061	20.85	20.35	1
N062	20.43	19.93	1
N063	20.02	19.52	1
N064	19.63	19.13	1
N065	19.27	18.77	1
N066	18.93	18.43	1
N067	18.62	18.12	1
N068	18.35	17.85	1
N069	18.11	17.61	1
N070	17.91	17.41	1
N071	17.75	17.25	1
N072	17.63	17.13	1
N073	17.55	17.05	1
N074	17.52	17.02	1
N075	17.54	17.04	1
N076	17.60	17.10	1
N077	17.71	17.21	1
N078	17.87	17.37	1
N079	18.07	17.57	1
N080	18.32	17.82	1
N081	18.61	18.11	1
N082	18.92	18.42	1
N083	19.26	18.76	1
N084	19.63	19.13	1
N085	20.00	19.50	1
N086	20.38	19.88	1
N087	20.76	20.26	1
N088	12.13	11.63	1
N089	21.50	21.00	1
N090	21.86	21.36	1
N091	22.20	21.70	1
N092	22.64	22.14	1
N093	22.86	22.36	1
N094	23.17	22.67	1
N095	23.48	22.98	1
N096	23.77	23.27	1
N097	24.06	23.56	1
N098	24.34	23.84	1
N099	24.62	24.12	1
N100	24.90	24.40	1
N101	25.19	24.69	1
N102	25.49	24.99	1
N103	25.81	25.31	1
N104	26.15	25.65	1
N105	26.52	26.02	1
N106	26.91	26.41	1
N107	27.34	26.84	1
N108	27.81	27.31	1
N109	28.32	27.82	1
N110	28.88	28.38	1
N111	29.49	28.99	1
N112	30.15	29.65	1
N113	30.86	30.36	2
N114	31.60	31.10	2
N115	32.35	31.85	2
N116	33.11	32.61	2
N117	33.84	33.34	2
N118	34.54	34.04	2
N119	35.19	34.69	2
N120	35.78	35.28	2
N121	36.29	35.79	2
N122	36.70	36.20	2
N123	37.01	36.51	2
N124	37.19	36.69	2
N125	37.25	36.75	2
N126	37.16	36.66	2
N127	36.93	36.43	2
N128	36.53	36.03	2
N129	35.98	35.48	2
N130	35.26	34.76	2
N131	34.38	33.88	2
N132	33.34	32.84	2
N133	32.14	31.64	2
N134	30.78	30.28	2
N135	29.27	28.77	1
N136	27.61	27.11	1
N137	25.80	25.30	1

1 North Facade
TX103 SCALE: nts

PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO: XXX
FILE NAME: TX100.dwg
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SHEET NUMBER: TX103
SHEET TITLE: Schedules

REV	DATE	BY	REMARKS

SUBMITTAL

Run:	Length (F	Offset:	# requirec
E001	19.50	19.00	1
E002	19.87	19.37	1
E003	20.19	19.69	1
E004	20.47	19.97	1
E005	20.73	20.23	1
E006	20.95	20.45	1
E007	21.15	20.65	1
E008	21.34	20.84	1
E009	21.50	21.00	1
E010	21.65	21.15	1
E011	21.79	21.29	1
E012	21.92	21.42	1
E013	22.05	21.55	1
E014	22.17	21.67	1
E015	22.29	21.79	1
E016	22.41	21 91	1
E017	22.53	22.03	1
E018	22.64	22.14	1
E019	22.76	22.26	1
E020	22.87	22.37	1
E021	22.97	22.47	1
E022	23.07	22.57	1
E023	23.15	22.65	1
E024	23.23	22.73	1
E025	23.29	22.79	1
E026	23.34	22.84	1
E027	23.38	22.88	1
E028	23.40	22.90	1
E029	23.40	22.90	1
E030	23.39	22.89	1
E031	23.36	22.86	1
E032	23.32	22.82	1
E033	23.25	22.75	1
E034	23.17	22.67	1
E035	23.07	22.57	1
E036	22.95	22.45	1
E037	22.82	22.32	1
E038	22.67	22.17	1
E039	22.52	22.02	1
E040	22.35	21.85	1

c	22.18	21.68	1
E042	22.00	21.50	1
E043	21.83	21.33	1
E044	21.66	21.16	1
E045	21.50	21.00	1
E046	21.35	20.85	1
E047	21.22	20.72	1
E048	21.11	20.61	1
E049	21.02	20.52	1
E050	20.96	20.46	1
E051	20.94	20.44	1
E052	20.98	20.48	1
E053	21.07	20.57	1
E054	21.24	20.74	1
E055	21.47	20.97	1
E056	21.76	21.26	1
E057	22.10	21.60	1
E058	22.49	21.99	1
E059	22.91	22.41	1
E060	23.35	22.85	1
E061	23.81	23.31	1
E062	24.29	23.79	1
E063	24.76	24.26	1
E064	25 24	24 74	1
E065	25.70	25.20	1
E066	26.15	25.65	1
E067	26.58	26.08	1
E068	26.98	26.48	1
E069	27.36	26.86	1
E070	27.70	27.20	1
E071	28.00	27.50	1
E072	28.27	27.77	1
E073	28.49	27.99	1
E074	28.67	28.17	1
E075	28.80	28.30	1
E076	28.89	28.39	1
E077	28.92	28.42	1
E078	28.91	28 41	1
E079	28.85	28.35	1
E080	28.74	28.24	1

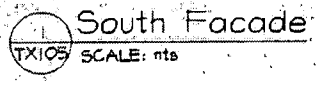
E081	28.58	28.08	1
E082	28.38	27.88	1
E083	28.13	27.63	1
E084	27.93	27.43	1
E085	27.48	26.98	1
E086	27.10	26.60	1
E087	26.66	26.16	1
E088	26.19	25.69	1
E089	25.68	25.18	1
E090	25.13	24.63	1
E091	24.54	24.04	1
E092	23.91	23.41	1
E093	23.25	22.75	1
E094	22.56	22.06	1
E095	21.83	21.33	1

East Facade
TX104 SCALE: nts

PROJECT: Las as arking Garage
LOCATION: Fort La de e, FL
DATE: 2017-12-08
JOB NO: XXX
SCALE: NTS
SHEET SIZE: ANSI-B
DRAWN BY: RDE
CHECKED BY: CRC
SHEET TITLE: SU TTAL
SH T NUMBER: TX 04
Sched s
NO DATE BY REMARKS
FILE: TX 00.dwg

CAM #25-0822
Exhibit 1
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Run:	Length (Ft	Offset:	# required
S001	34.48	33.98	2
S002	34.63	34.13	2
S003	34.78	34.28	2
S004	34.93	34.43	2
S005	35.07	34.57	2
S006	35.22	34.72	2
S007	35.35	34.85	2
S008	35.48	34.98	2
S009	35.60	35.10	2
S010	35.72	35.22	2
S011	35.83	35.33	2
S012	35.92	35.42	2
S013	36.01	35.51	2
S014	36.09	35.59	2
S015	36.15	35.65	2
S016	36.20	35.70	2
S017	36.23	35.73	2
S018	36.24	35.74	2
S019	36.24	35.74	2
S020	36.22	35.72	2
S021	36.18	35.68	2
S022	36.12	35.62	2
S023	36.03	35.53	2
S024	35.93	35.43	2
S025	35.80	35.30	2
S026	35.64	35.14	2
S027	35.46	34.96	2
S028	35.26	34.76	2
S029	35.03	34.53	2
S030	34.78	34.28	2
S031	34.50	34.00	2
S032	34.19	33.69	2
S033	33.87	33.37	2
S034	33.52	33.02	2
S035	33.16	32.66	2
S036	23.77	23.27	1
S037	32.37	31.87	2
S038	31.96	31.46	2
S039	31.54	31.04	2
S040	31.11	30.61	2
S041	30.67	30.17	2
S042	30.24	29.74	2
S043	29.81	29.31	1
S044	29.38	28.88	1
S045	28.97	28.47	1
S046	28.57	28.07	1
S047	28.18	27.68	1
S048	27.81	27.31	1
S049	27.46	26.96	1
S050	27.13	26.63	1
S051	26.82	26.32	1
S052	26.54	26.04	1
S053	26.28	25.78	1
S054	26.06	25.56	1
S055	25.86	25.36	1
S056	25.68	25.18	1
S057	25.54	25.04	1
S058	25.42	24.92	1
S059	25.33	24.83	1
S060	25.27	24.77	1
S061	25.23	24.73	1
S062	25.22	24.72	1
S063	25.23	24.73	1
S064	25.26	24.76	1
S065	25.32	24.82	1
S066	25.39	24.89	1
S067	25.48	24.98	1
S068	25.58	25.08	1
S069	25.70	25.20	1
S070	25.83	25.33	1
S071	25.96	25.46	1
S072	26.10	25.60	1
S073	26.25	25.75	1
S074	26.40	25.90	1
S075	26.56	26.06	1
S076	26.73	26.23	1
S077	26.90	26.40	1
S078	27.08	26.58	1
S079	27.26	26.76	1
S080	27.44	26.94	1
S081	27.63	27.13	1
S082	27.82	27.32	1
S083	28.01	27.51	1
S084	28.21	27.71	1
S085	28.40	27.90	1
S086	28.59	28.09	1
S087	28.78	28.28	1
S088	28.97	28.47	1
S089	29.15	28.65	1
S090	29.33	28.83	1
S091	29.50	29.00	1
S092	29.66	29.16	1
S093	29.81	29.31	1
S094	29.95	29.45	2
S095	30.08	29.58	2
S096	30.20	29.70	2
S097	30.30	29.80	2
S098	30.38	29.88	2
S099	30.43	29.93	2
S100	30.45	29.95	2
S101	30.44	29.94	2
S102	30.35	29.85	2
S103	30.28	29.78	2
S104	30.13	29.63	2
S105	29.94	29.44	2
S106	29.70	29.20	1
S107	29.43	28.93	1
S108	29.13	28.63	1
S109	28.80	28.30	1
S110	28.44	27.94	1
S111	28.06	27.56	1
S112	27.67	27.17	1
S113	27.27	26.77	1
S114	26.85	26.35	1
S115	26.43	25.93	1
S116	26.01	25.51	1
S117	25.59	25.09	1
S118	25.18	24.68	1
S119	24.77	24.27	1
S120	24.37	23.87	1
S121	23.98	23.48	1
S122	23.61	23.11	1
S123	23.24	22.74	1
S124	22.89	22.39	1
S125	22.55	22.05	1
S126	22.23	21.73	1
S127	21.92	21.42	1
S128	21.62	21.12	1
S129	21.34	20.84	1
S130	21.07	20.57	1
S131	20.81	20.31	1
S132	20.57	20.07	1
S133	20.34	19.84	1
S134	20.11	19.61	1
S135	19.90	19.40	1
S136	19.70	19.20	1
S137	19.51	19.01	1



PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO: XXX
FILE NAME: TX100.dwg
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SHEET NUMBER: TX105
SHEET TITLE: Schedules
REV | DATE | BY | REMARKS
SUBMITTAL

Run:	Length LF	Offset:	# required
W001	25.77	25.27	1
W002	25.62	25.12	1
W003	25.41	24.91	1
W004	25.15	24.65	1
W005	24.84	24.34	1
W006	24.49	23.99	1
W007	24.11	23.61	1
W008	23.70	23.20	1
W009	23.28	22.78	1
W010	22.86	22.36	1
W011	22.43	21.93	1
W012	22.01	21.51	1
W013	21.60	21.10	1
W014	21.21	20.71	1
W015	20.84	20.34	1
W016	20.51	20.01	1
W017	20.21	19.71	1
W018	19.96	19.46	1
W019	19.75	19.25	1
W020	19.60	19.10	1
W021	19.48	18.98	1
W022	19.44	18.94	1
W023	19.45	18.95	1
W024	19.51	19.01	1
W025	19.62	19.12	1
W026	19.77	19.27	1
W027	19.96	19.46	1
W028	20.17	19.67	1
W029	20.40	19.90	1
W030	20.64	20.14	1
W031	20.87	20.37	1
W032	21.08	20.58	1
W033	21.27	20.77	1
W034	21.43	20.93	1
W035	21.55	21.05	1
W036	21.65	21.15	1
W037	21.73	21.23	1
W038	21.78	21.28	1
W039	21.82	21.32	1
W040	21.84	21.34	1
W041	21.85	21.35	1
W042	21.84	21.34	1
W043	21.82	21.32	1
W044	21.80	21.30	1
W045	21.76	21.26	1
W046	21.73	21.23	1
W047	21.69	21.19	1
W048	21.64	21.14	1
W049	21.60	21.10	1
W050	21.56	21.06	1
W051	21.52	21.02	1
W052	21.48	20.98	1
W053	21.45	20.95	1
W054	21.42	20.92	1
W055	21.41	20.91	1
W056	21.40	20.90	1
W057	21.40	20.90	1
W058	21.42	20.92	1
W059	21.45	20.95	1
W060	21.50	21.00	1
W061	21.57	21.07	1
W062	21.66	21.16	1
W063	21.77	21.27	1
W064	21.91	21.41	1
W065	22.07	21.57	1
W066	22.27	21.77	1
W067	22.51	22.01	1
W068	22.79	22.29	1
W069	23.12	22.62	1
W070	23.49	22.99	1
W071	23.91	23.41	1
W072	24.37	23.87	1
W073	24.86	24.36	1
W074	25.39	24.89	1
W075	25.94	25.44	1
W076	26.52	26.02	1
W077	27.12	26.62	1
W078	27.72	27.22	1
W079	28.33	27.83	1
W080	28.94	28.44	1
W081	29.54	29.04	1
W082	30.13	29.63	2
W083	30.69	30.19	2
W084	31.21	30.71	2
W085	21.70	21.20	1
W086	32.15	31.65	2
W087	32.54	32.04	2
W088	32.89	32.39	2
W089	33.19	32.69	2
W090	33.43	32.93	2
W091	33.64	33.14	2
W092	33.82	33.32	2
W093	33.99	33.49	2
W094	34.19	33.69	2
W095	34.48	33.98	2

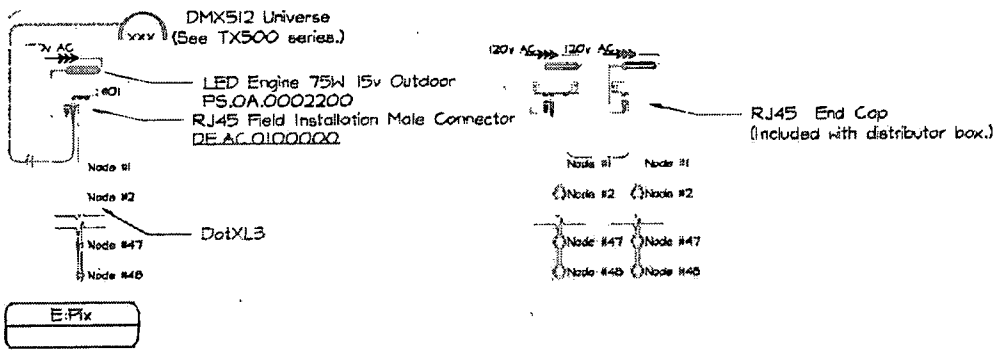
Corners	# requirec
NE01	1
SE01	1
SW01	2
SW02	2
NW01	1

2 TXIO6 Corners
SCALE: nts

1 TXIO6 West Facade
SCALE: nts

PROJECT Las as arking Garage
LOCATION Fort La de e, FL
DATE 2017-12-08
JOB NO XXX
SCALE NTS
SHEET SIZE ANSI-B
DRAWN BY RDE
CHECKED BY CRC
SHEET TITLE: Sched
SH T NUMBER TX 06
NO DATE BY REMARKS
SU TTAL

CAM #25-0822
Exhibit 1
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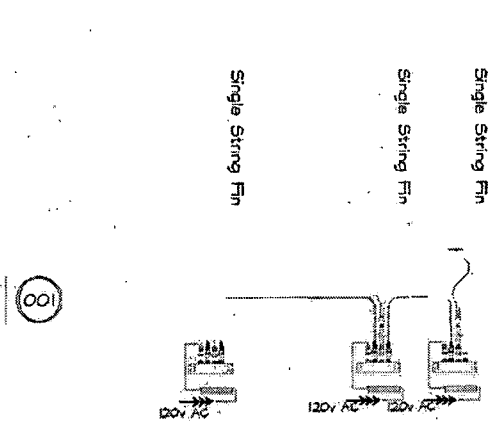
Each Fn is comprised of either one or two DOT XL3 strings. A maximum of three DOT XL3 strings can be connected to a single DMX universe. DMX Universes will include multiple fins in some cases. Contractor/Engineer shall allow for Cat5 cable to be run between multiple fins.

1 TX401 Wiring - Dot XL (Typical)

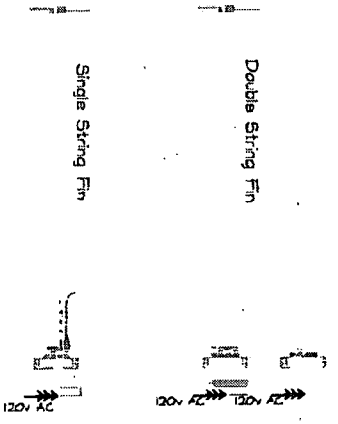
SCALE: N.T.S.

PROJECT: Las Olas Parking Garage
DATE: 2017-12-08
SHEET SIZE: ANSI-B
SHEET NUMBER: TX401
JOB NO: XXX
SCALE: NTS
SHEET TITLE: Wiring
LOCATION: Fort aude
FILE NAME: TX400.dwg
DRAWN BY: RDE
CHECKED BY: CRC

REV	DATE	BY	REMARKS
e. FL			SUBMITTAL



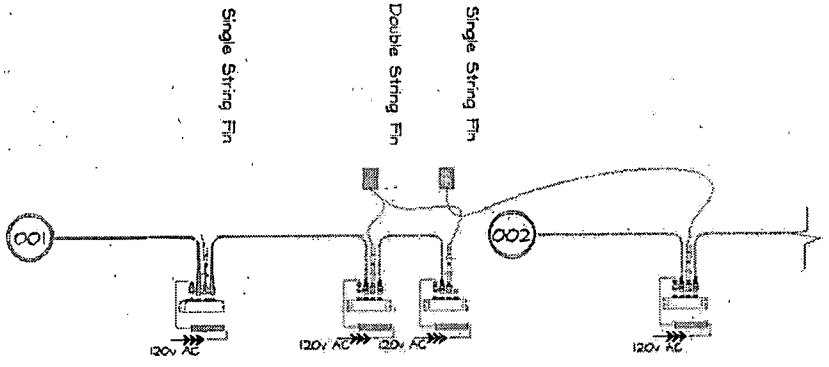
1 TX402 Fin - Scenario #01
SCALE: N.T.S.



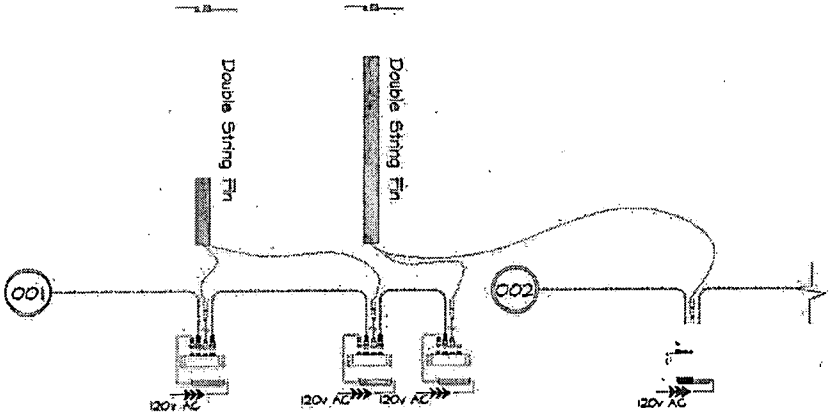
2 TX402 Fin - Scenario #02
SCALE: N.T.S.

Each Fin is comprised of either one or two DOT XL3 strings. A maximum of three DOT XL3 strings can be connected to a single DMX universe DMX Universes will include multiple fins in some cases. Contractor/Engineer shall allow for Cat5 cable to be run between multiple fins.

Scenarios are diagrammatic and shown for purposes of clarity. There will be multiple combinations of one and two string fins that will require Cat5 cables to be run between fins. The drawings on this sheet are meant to convey wiring methodolay.



3 TX402 Fin - Scenario #03
SCALE: N.T.S.



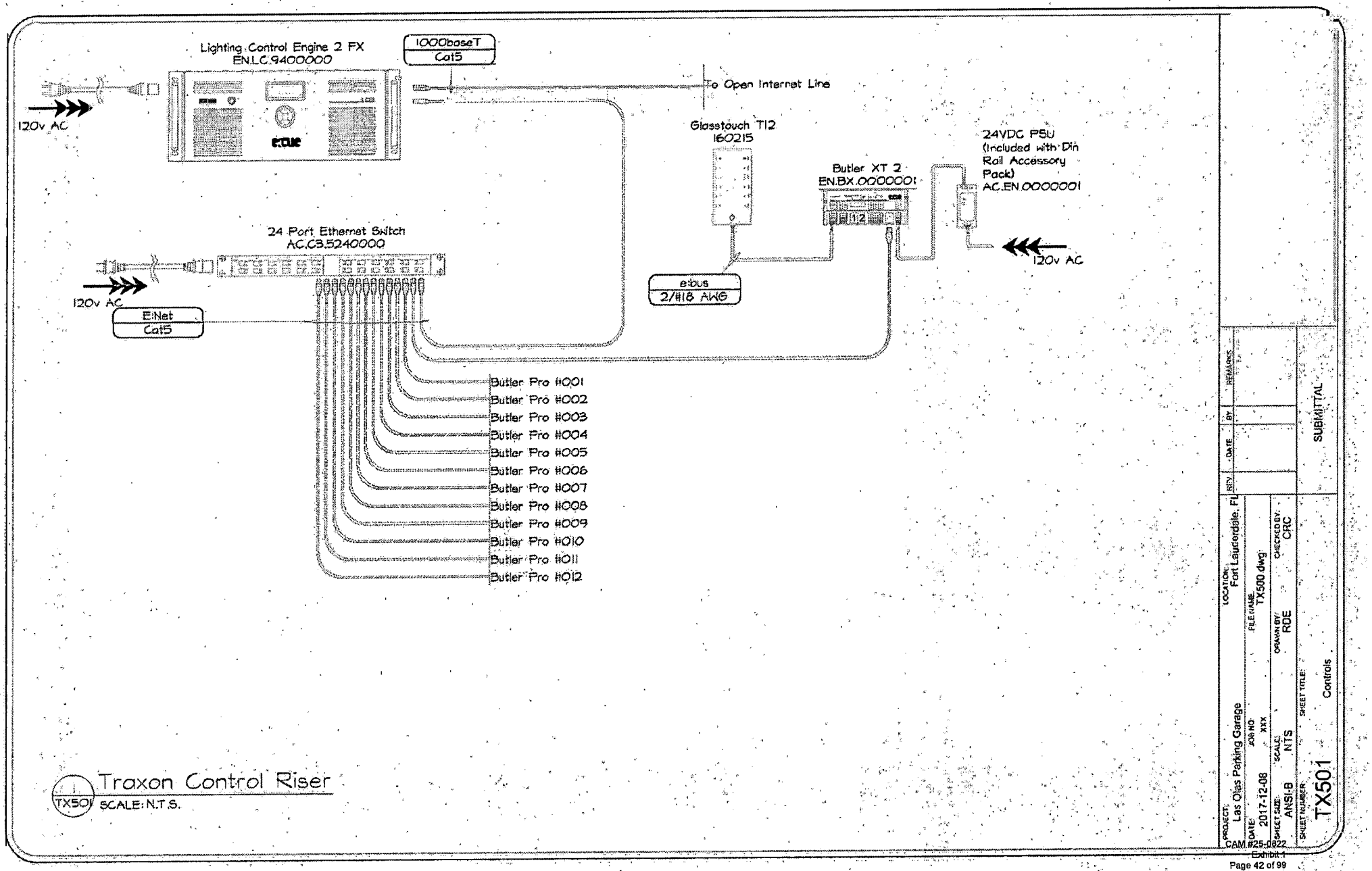
4 TX402 Fin - Scenario #04
SCALE: N.T.S.

DATE	BY	REMARKS

SUBMITTAL

LOCATION: Fort Lauderdale, FL REV.
FILE NAME: TX400.dwg
DRAWN BY: RDE
CHECKED BY: CRC
PROJECT: Las Olas Parking Garage
JOB NO: XXX
DATE: 2017-12-08
SCALE: NTS
SHEET SIZE: ANSI-B
SHEET NUMBER: TX402
SHEET TITLE: Wiring

CAM #25-0822
Exhibit 1
Page 41 of 99



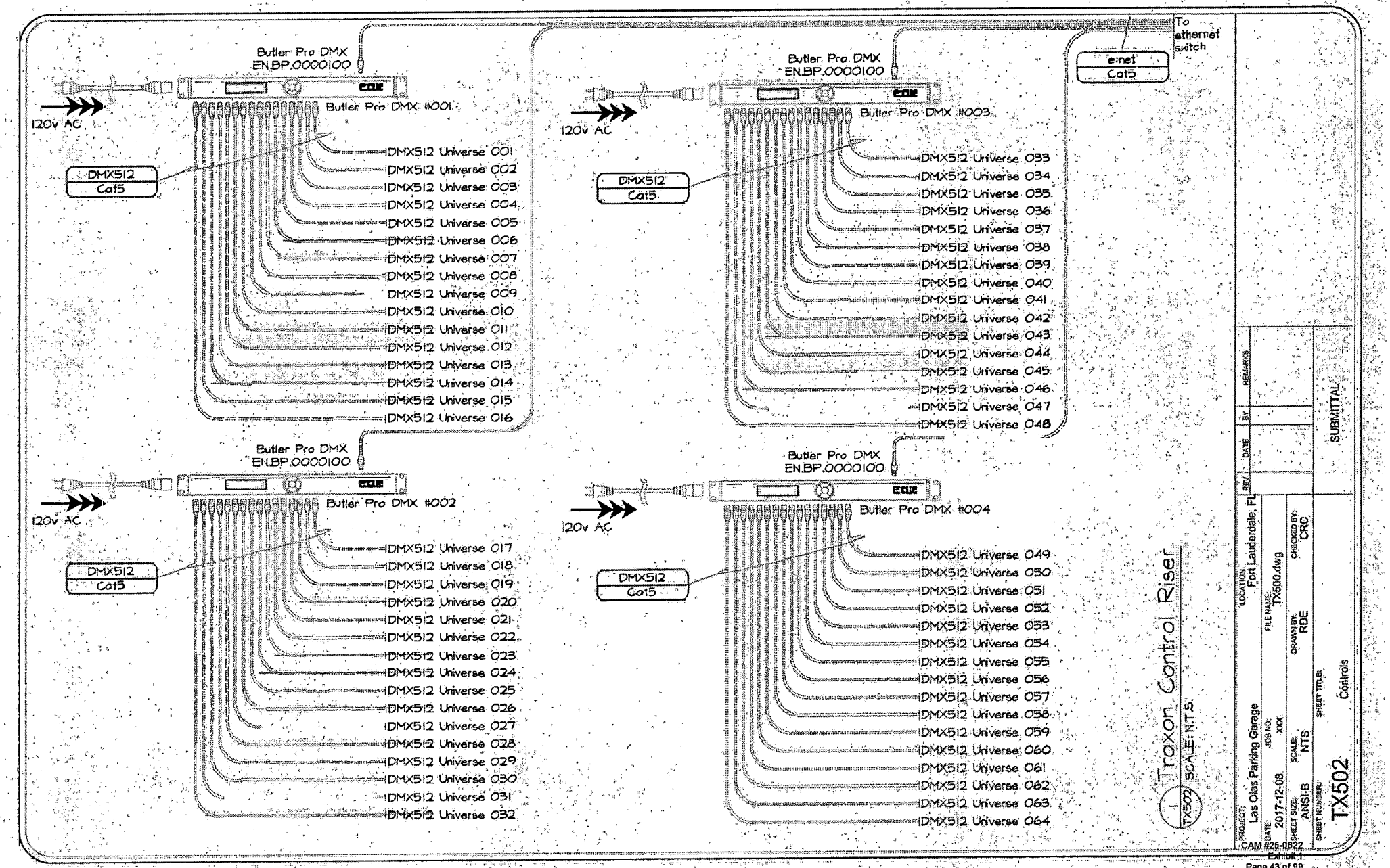
1 TX501 Traxon Control Riser

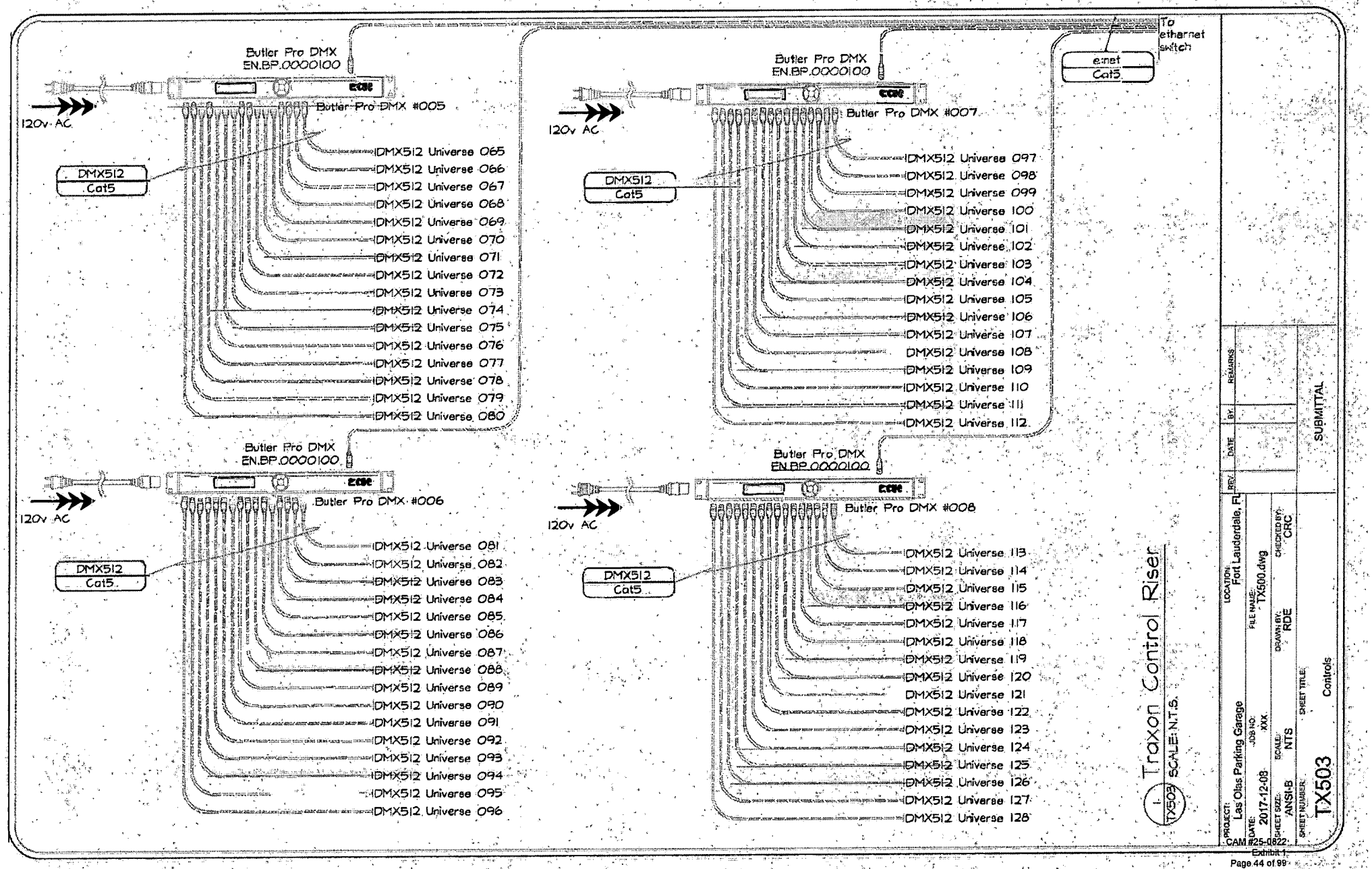
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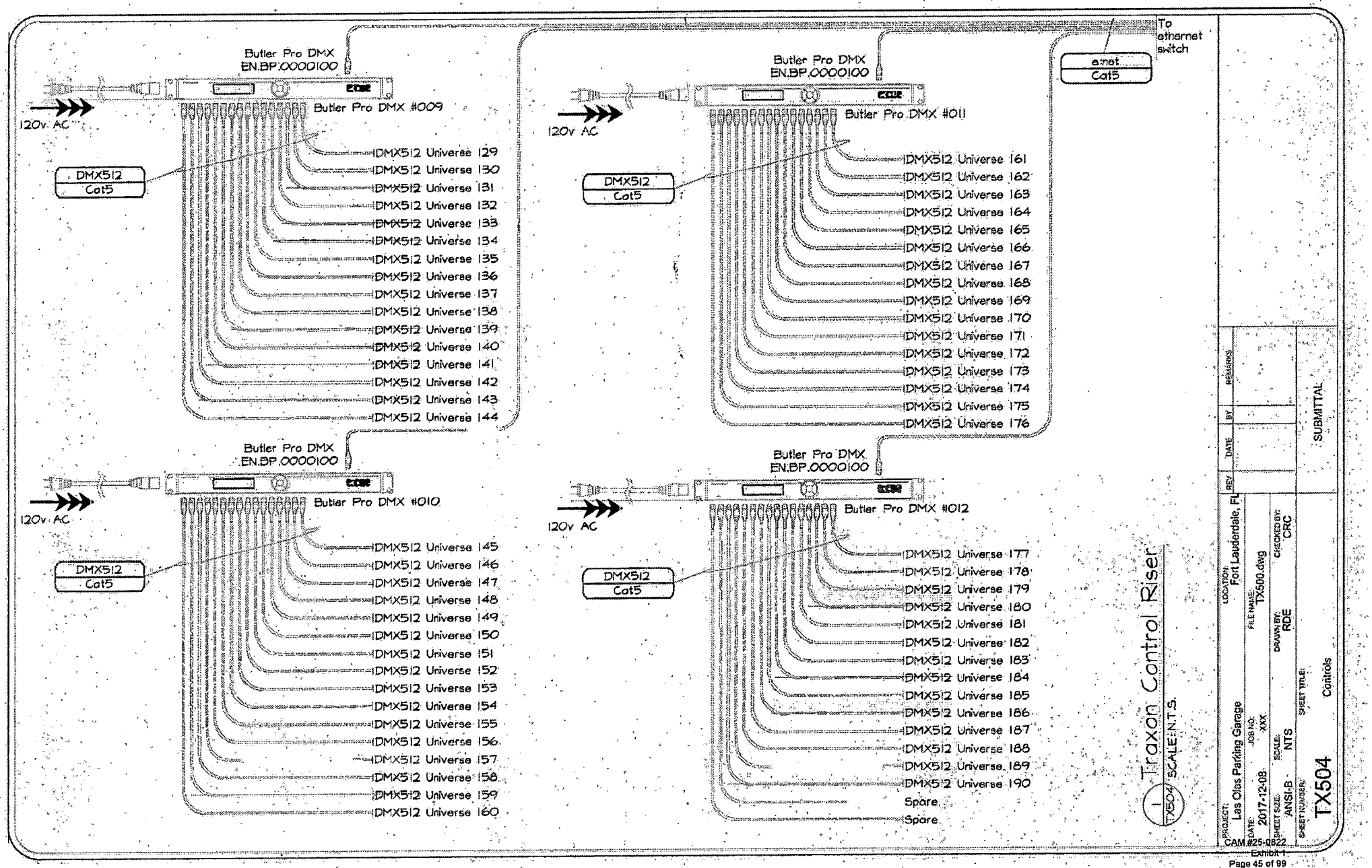
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LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO: XXX
SCALE: NTS
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FILE NAME: TX500.dwg
DRAWN BY: RDE
CHECKED BY: CRC
SHEET NUMBER: TX501
SHEET TITLE: Controls

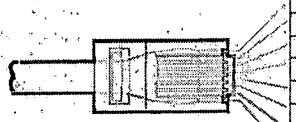
KEY	DATE	BY	REMARKS

SUBMITTAL

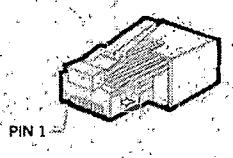

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Butler Pro DMX #001
120v AC
DMX512
Cat5
DMX512 Universe 001
DMX512 Universe 002
DMX512 Universe 003
DMX512 Universe 004
DMX512 Universe 005
DMX512 Universe 006
DMX512 Universe 007
DMX512 Universe 008
DMX512 Universe 009
DMX512 Universe 010
DMX512 Universe 011
DMX512 Universe 012
DMX512 Universe 013
DMX512 Universe 014
DMX512 Universe 015
DMX512 Universe 016
Butler Pro DMX
EN.BP.0000100
Butler Pro DMX #002
120v AC
DMX512
Cat5
DMX512 Universe 017
DMX512 Universe 018
DMX512 Universe 019
DMX512 Universe 020
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DMX512 Universe 063
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e:net
Cat5
To ethernet switch
Traxon Control Riser
TX502 SCALE: N.T.S.
REV
DATE
BY
REMARKS
SUBMITTAL
PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO.: XXX
FILE NAME: TX500.dwg
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SCALE: NTS
SHEET NUMBER: TX502
SHEET TITLE: Controls


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DMX512 Universe 080
Butler Pro DMX
EN.BP.0000100
Butler Pro DMX #006
120v AC
DMX512
Cat5
DMX512 Universe 081
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DMX512 Universe 107
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e.net
Cat5
To
ethernet
switch
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Cat5
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DMX512 Universe 127
DMX512 Universe 128
1 TX503
Traxon Control Riser
SCALE: N.T.S.
PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO: XXX
FILE NAME: TX500.dwg
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SHEET NUMBER: TX503
SHEET TITLE: Controls
REV
DATE
BY
REMARKS
SUBMITTAL


Butler Pro DMX
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Butler Pro DMX #009
120v AC
DMX512
Cat5
DMX512 Universe 129
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DMX512 Universe 131
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DMX512 Universe 142
DMX512 Universe 143
DMX512 Universe 144
Butler Pro DMX
EN.BP.0000100
Butler Pro DMX #010
120v AC
DMX512
Cat5
DMX512 Universe 145
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DMX512 Universe 159
DMX512 Universe 160
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Cat5
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DMX512 Universe 166
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switch
e.net
Cat5
Butler Pro DMX
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120v AC
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Cat5
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DMX512 Universe 188
DMX512 Universe 189
DMX512 Universe 190
Spare
Spare
1 TX504 Traxon Control Riser
SCALE: N.T.S.
REV
DATE
BY
REMARKS
SUBMITTAL
PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
DATE: 2017-12-08
JOB NO: XXX
FILE NAME: TX500.dwg
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET SIZE: ANSI-B
SHEET NUMBER: TX504
SHEET TITLE: Controls



PIN Number	Signal	Color (Standard 568B)	Color (Crossover 568A)
1	DMX-	Orange / White	Green / White
2	DMX+	Orange	Green
3	GND	Green / White	Orange / White
4	nc	Blue	Blue
5	nc	Blue / White	Blue / White
6	nc	Green	Orange
7	nc	Brown / White	Brown / White
8	nc	Brown	Brown



1 TX901 Traxon Pinout
SCALE: N.T.S.

PROJECT: Las Olas Parking Garage
LOCATION: Fort Lauderdale, FL
JOB NO: XXX
DATE: 2017-12-08
FILE NAME: TX900.dwg
SHEET SIZE: ANSI-B
SCALE: NTS
DRAWN BY: RDE
CHECKED BY: CRC
SHEET NUMBER: TX901
SHEET TITLE: Details

REV	DATE	BY	REMARKS
			SUBMITTAL

Las Olas Parking Garage

Fort Lauderdale, Florida

Spec Sheet Package

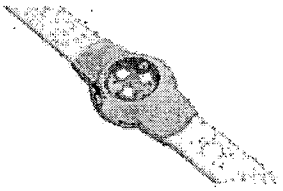
December 8th, 2017

traxon

Date: _____ Quantity: _____

Company: _____

Project: _____



Dot XL-3 RGB

Dot XL-3 RGB is an extra bright dot with 3 LEDs per dot casing. The dots are constructed on a flexible cable with a customizable pitch. The dots are single dot controllable by DMX or e:pix (DVI capable), and are connected per string using the Dot XL Pixel Distributor. The Pixel Distributors can be daisy chained to form large installations.

Product Specifications

Model[1]	Dot XL-3 RGB	Dot XL-3 RGB with diffuser dome
Number of Pixel	48 pixels	
Light Source	3 High intensity Nichia SMT LEDs per dot	
Color Range	16.7 Million additive RGB colors	
Color Resolution	3 x 14-bit (Gamma correction)	
Viewing Angle	120°	170°
Luminous Flux[2]	16 lm	11 lm
Efficacy[2]	11.7 lm/W	7.3 lm/W
Cover Lens	Clear PVC	Diffuser dome (PC)
LED Pitch	150mm standard; 100mm minimum for customized models 7" o.c. Spacing	
Lead Cable Length	10m standard	
Housing	Thermoplastic Polyurethane Elastomer (optional nylon clip; see Ordering page for details)	
Adjustment Options	Flexible cable	
Dimensions (Ø x L x H)	Ø38 x 60 x 12mm Ø1.4" x 2.4" x 0.5"	Ø38 x 60 x 27mm Ø1.4" x 2.4" x 1.1"
Weight[1]	25g (Dot) 670g (Pixel Distributor)	
Regulatory Listing & Safety Approval	cETLus	
Operating Temperature	-20°C to +50°C / -4°F to +122°F	
Storage Temperature	-20°C to +70°C / -40°F to +158°F	
Environment	Outdoor (DotXL - IP68; P67 rated; Pixel Distributor - IP66; PSU - IP67 rated)	
Humidity	0 to 90% non-condensing	

Electrical Specifications

Operating Voltage	15V DC
Power Consumption[2]	1.5W

System Specifications

Power/Data Interface	TX CONNECT	
Control	DMX512	e:pix
Power Supply	LED Engine 75W Outdoor	
Addressing Options	Auto-Addressing	

1. Diffuser Dome is available upon request. Please consult your regional Traxon office for further details and qty.

2. Measurement per dot

LED CHARACTERISTICS: Because LEDs are semiconductor devices, their performance is subject to minor variations from unit to unit. Within the same production run, LEDs may vary in brightness and color. LEDs may also change in brightness and color over time and with temperature. Reverse voltage, even momentary, may cause immediate failure. Traxon uses commercially available LEDs on its products, however we do not guarantee the availability of the exact LEDs in the product range.

As with all discrete electric LED super brights per unit - even color bins. The specifications with the many variables to avoid affecting the performance of the LED products with different specifications in the same. The use of LED products is a complex function of many factors such as operating current, ambient temperature, environmental conditions, ambient temperature, thermal management, power supply, environmental conditions, and many other factors. Traxon cannot be responsible for any damage to the LED products or their components due to any of these factors. Traxon recommends that customers test the LED products in their own environment to ensure that they meet their requirements.

Recommended for indoor or protected environments. Any outdoor installation should be tested and approved.

www.traxontechnologies.com

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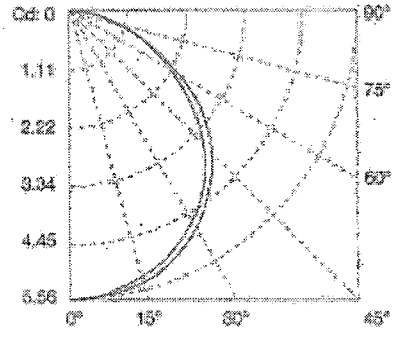
traxon

Dot XL-3 RGB — Photometrics

Source Specifications

Source	3 LEDs packaged in RGB (One Dot XL-3)
Optics	110°
Cover Lens	Clear PVC
Distribution	Symmetric direct illumination

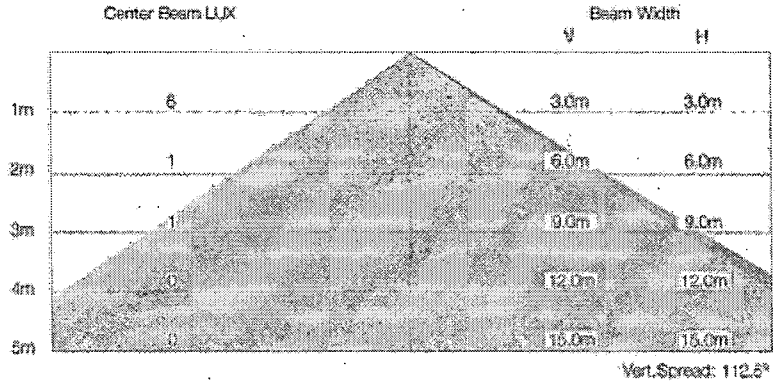
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Power (Watts)	Efficacy (lm/W)
White	15.79	1.3	12.03
Red	4.47	0.8	5.86
Green	9.07	0.9	11.33
Blue	1.93	0.7	2.97

Illuminance at a Distance



For fc divide by 10.7

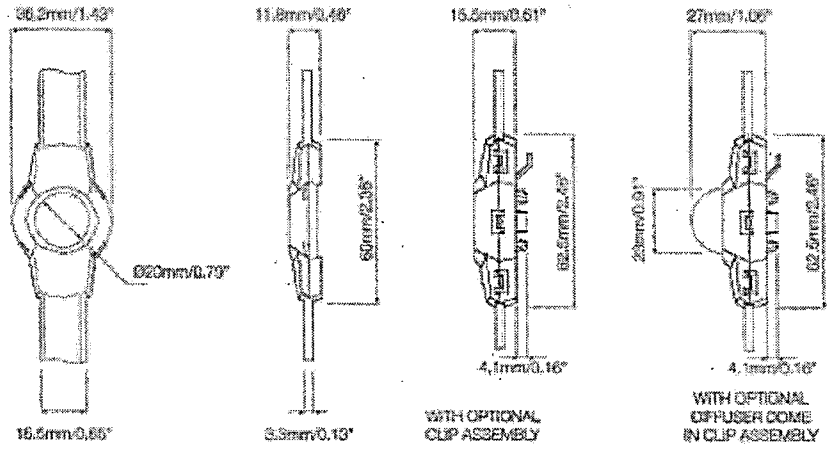
Vert.Spread: 112.6°
Horiz.Spread: 112.6°
For lux multiply by 3.28

IES and LDT files are available for download from the Traxon website.

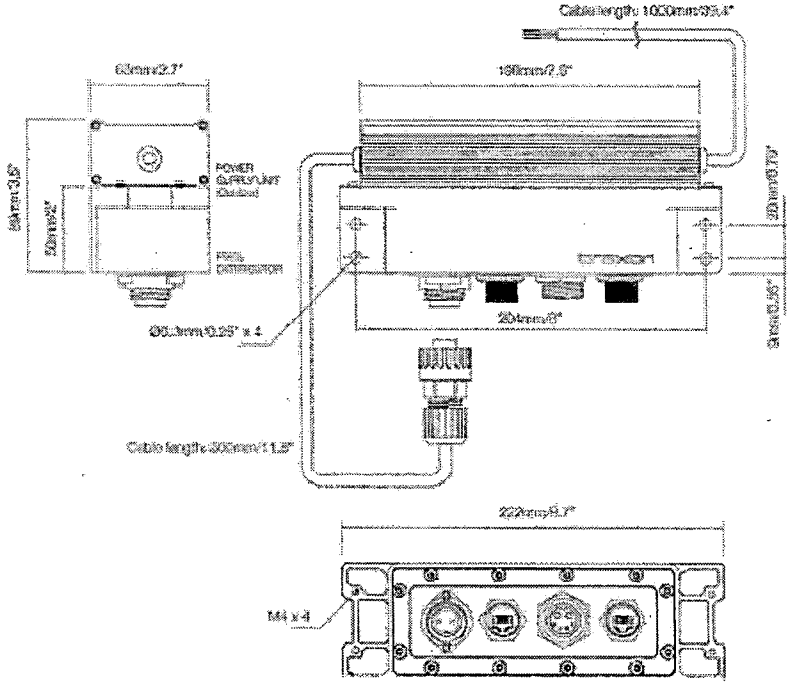
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Dot XL-3 RGB — Dimensions

Dot XL



Pixel Distributor with Power Supply (Outdoor)



www.traxontechnologies.com

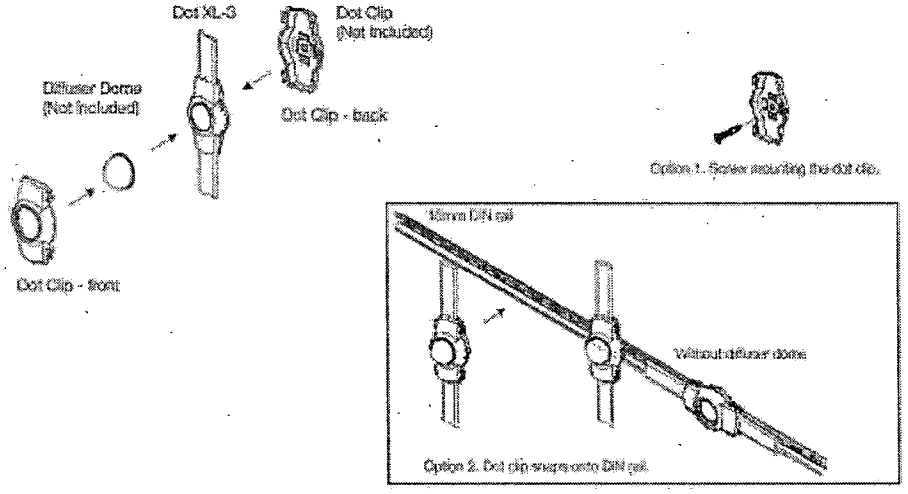
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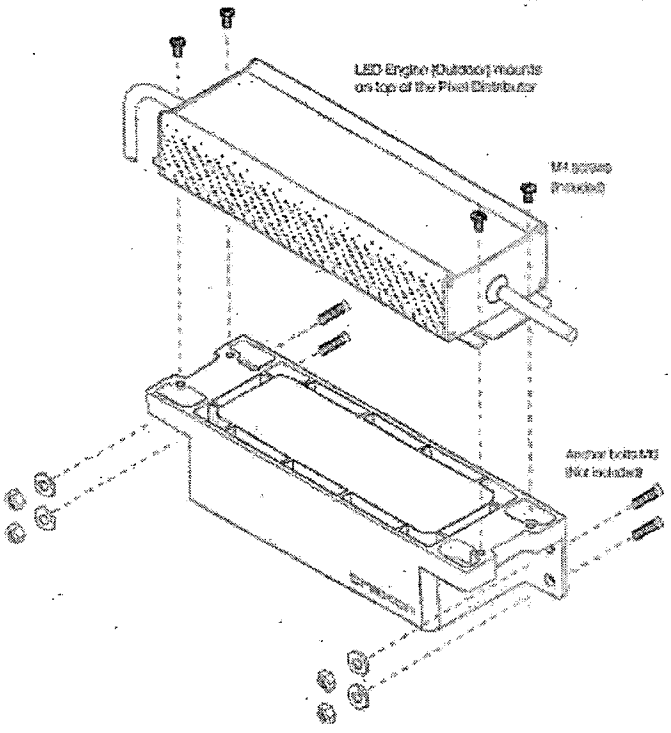
Dot XL-3 RGB

Mounting

Dot XL



Pixel Distributor

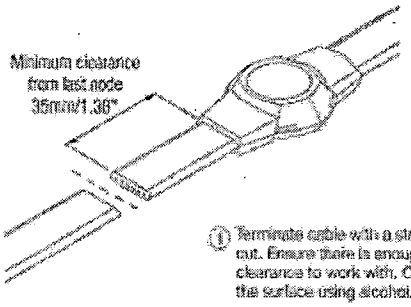


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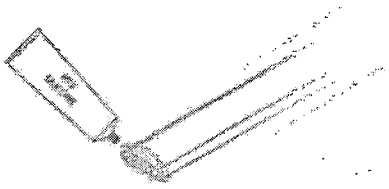
traxon

Dot XL-3 RGB — Mounting

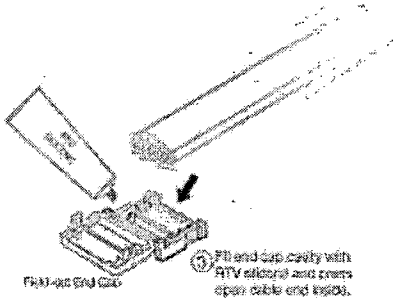
Terminating the Dot XL cable and sealing with Field-cut End Cap (End Cap not included)



① Terminate cable with a straight cut. Ensure there is enough clearance to work with. Clean the surface using alcohol.

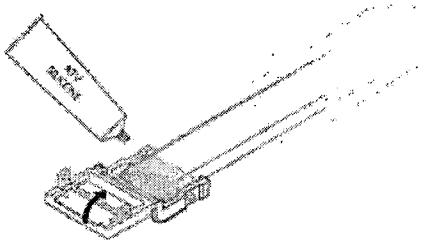


② Apply RTV silicone (not included) on open-ended cable.

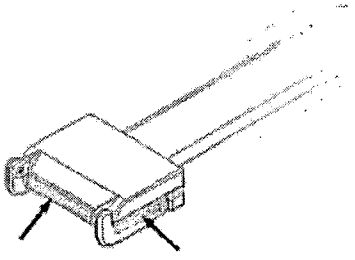


③ Fill end cap cavity with RTV silicone and press open cable end inside.

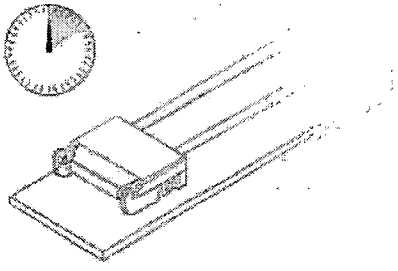
Field-cut End Cap



④ Cover parts with RTV silicone and close cover.



⑤ Clean excess silicone from end cap.



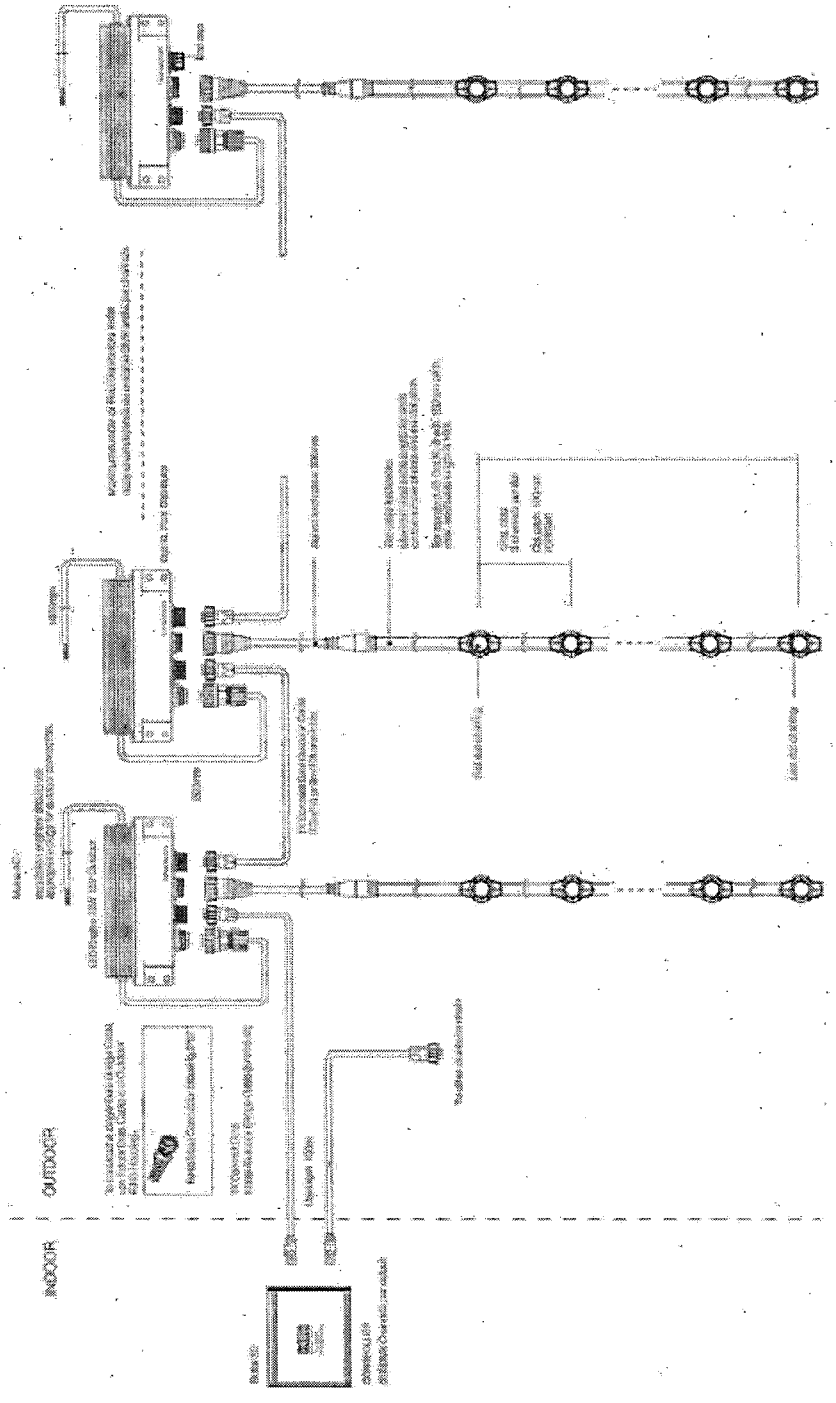
⑥ Place on flat surface and put pressure on end cap (eg. with a weighted object) for the cure time recommended by RTV silicone's instructions.

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Dot XL-3 RGB — System Diagram

System Diagram - Butler S2

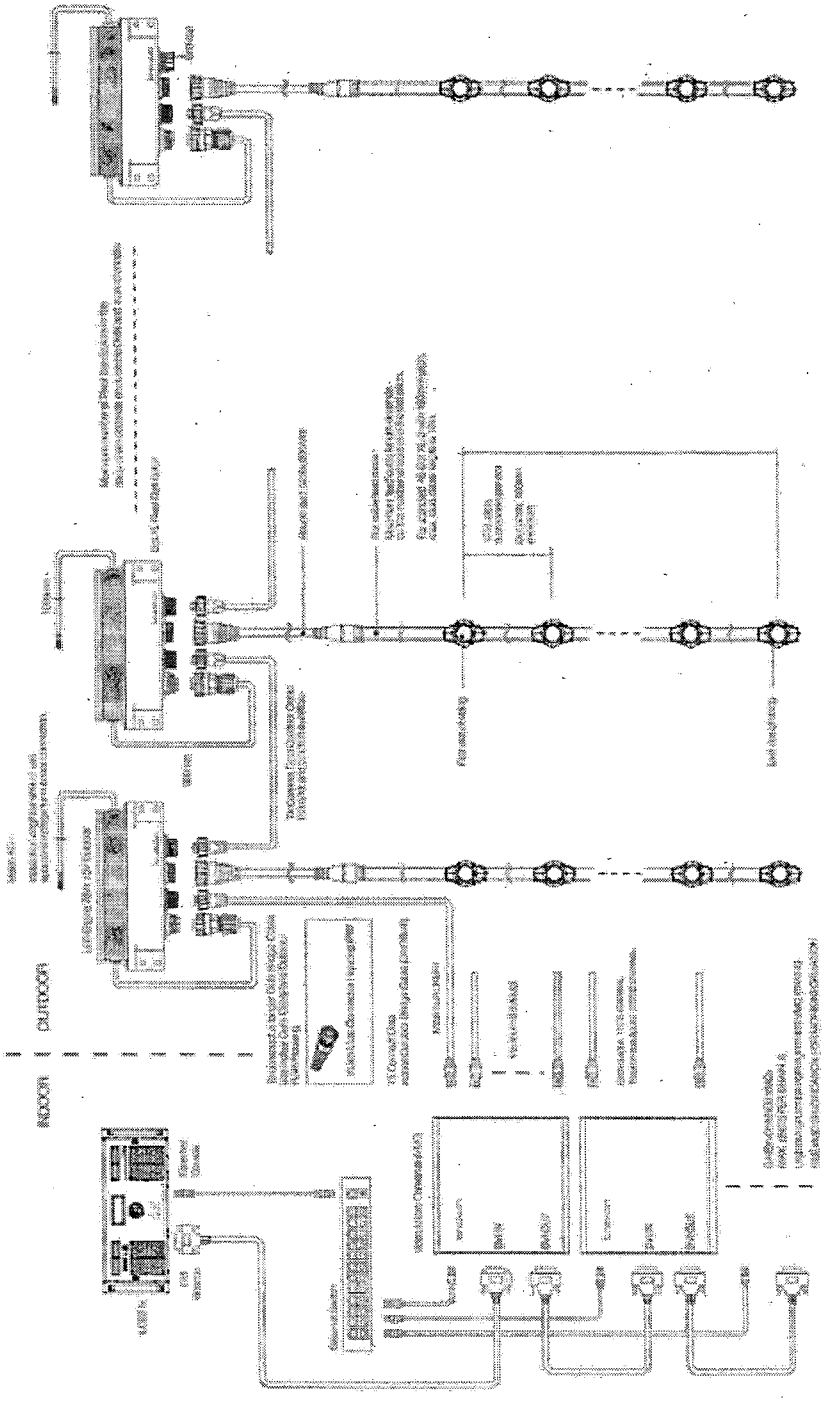


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Dot XL-3 RGB — System Diagram

System Diagram - Video Micro Converter



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Dot XL-3 RGB — Ordering

Fixtures

Model No.	Description	Item Code
DO.XA.Z102000	48PXL Dot XL-3 RGB, 150mm Pitch, 10m Lead Cable	AA755760055

Standard Accessories (Included in Delivery)

Model No.	Description	Item Code
N/A	1x Pixel Distributor, 4x M4 Screws	N/A

Optional Accessories

Model No.	Description	Item Code
DO.AC.0002400	Dot XL-3 Clip (50pcs)	AA586400055
DO.AC.0002500	Dot XL-3 Dome (200pcs)	AA556190055
DO.AC.0003600	Field-cut End Cap (50pcs)	AA556200055

TX Control

Model No.	Description	Item Code
EN.BU.0000001	Butler S2	AB436200031
AC.BG.0000001	Butler S2 Garage (Optional)	AA611800031
160169	Video Micro Converter (DMX/e:pix)	AA439440295
160194	Video Micro Converter Garage (Optional)	AA623920031

TX Connect

Model No.	Description	Item Code
DE.AC.0000160	TX CONNECT Data Indoor/Outdoor Bridge Cable, 5m/16.4ft	AA506850055
DU.IC.0100000	TX CONNECT Data Cable, 1m/3.28ft	AA556130055
DU.IC.0300000	TX CONNECT Data Cable 3m/9.84ft	A63408C0055
DU.IC.1000000	TX CONNECT Data Cable 10m/32.8ft	A6341040055
DE.IC.0060000	TX CONNECT Data Outdoor Cable, 0.6m/1.97ft	AA685500055
DE.IC.0300000	TX CONNECT Data Outdoor Cable, 3m/9.84ft	AA438610055
DE.XC.0100000	RJ45 Male Connector Housing IP67	AA556100155

TX Power

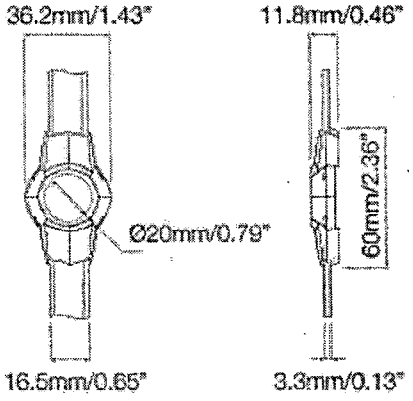
Model No.	Description	Item Code
PS.DA.0002200	LED Engine 75W Outdoor	AA759120355
DO.AC.0090000	2-pin Field-installable Connector for Dot XL	AA763360055

traxon:cue
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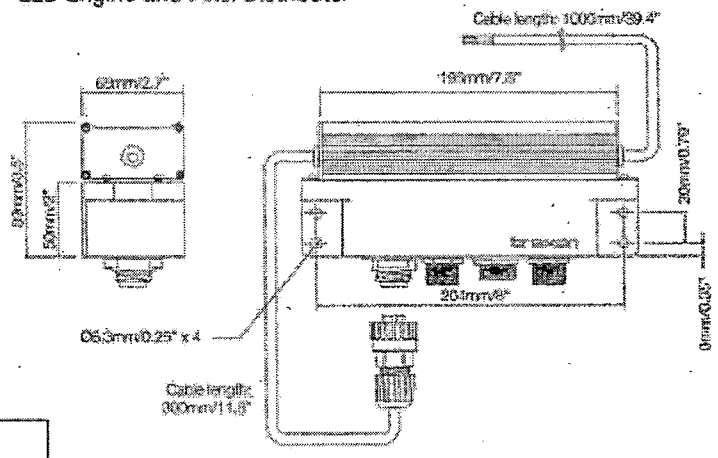
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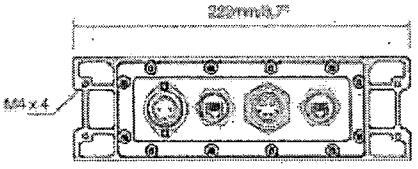
traxon

Dot XL-3
Mounting Guide



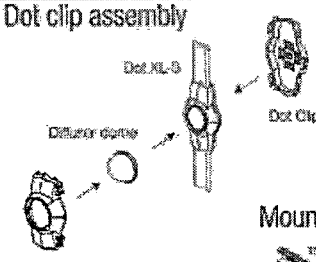
LED Engine and Pixel Distributor



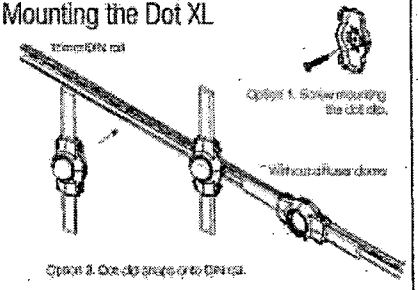


CAUTION: Always use the housing unit for mounting. Handle string with care. Improper handling of lead cable and string will cause damage.

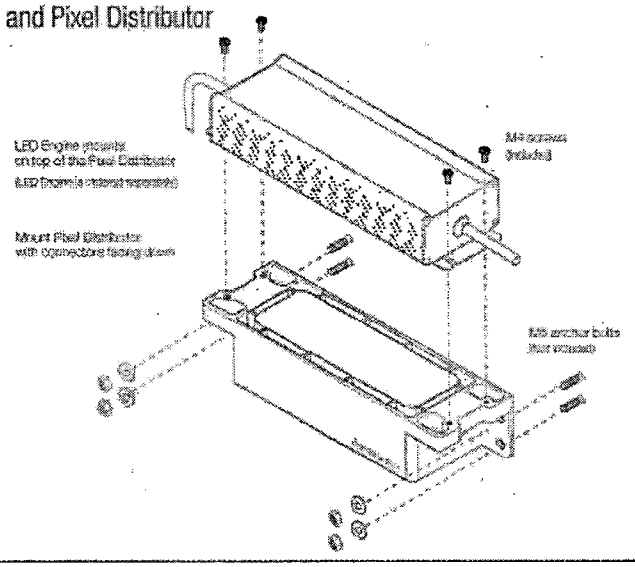
Dot clip assembly



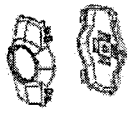
Mounting the Dot XL



Mounting the LED Engine and Pixel Distributor



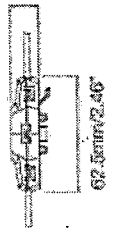
Optional Parts



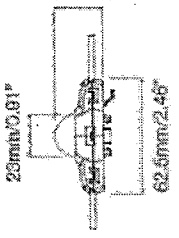
Dot Clip
DO.AC.0002400



Diffuser Dome
DO.AC.0002500

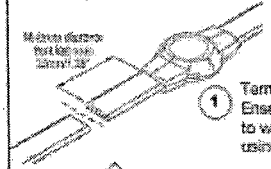


With optional clip assembly



With optional diffuser dome and clip assembly

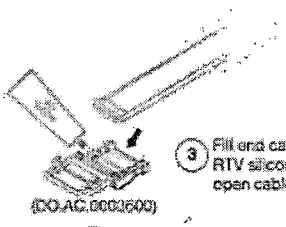
Terminating the Dot XL cable and Sealing with End Cap (end cap not included)



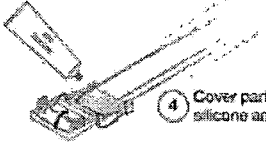
1. Terminate cable with a straight cut. Ensure there is enough clearance to work with. Clean the surface using alcohol.



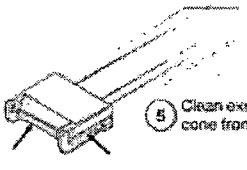
2. Apply RTV silicone (not included) on open-ended cable.



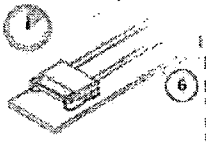
3. Fill end cap cavity with RTV silicone and press open cable end inside.



4. Cover parts with RTV silicone and close cover.



5. Clean excess silicone from end cap.



6. Place on flat surface and put pressure on end cap (eg. with a weighted object) for the cure time recommended by RTV silicone's instructions.

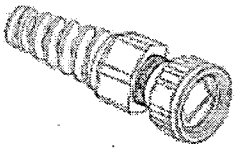


(EN) -CONNECT TO THE POWER SUPPLY IN ACCORDANCE WITH NATIONAL REGULATIONS. -IF THE EXTERNAL FLEXIBLE CABLE OF THIS LUMINAIRE IS DAMAGED, IT SHALL BE EXCLUSIVELY REPLACED BY THE MANUFACTURER OR A SIMILAR QUALIFIED PERSON IN ORDER TO AVOID ANY HAZARD. -INSTALLATION/MAINTENANCE ONLY BY SKILLED PERSONNEL. -DURING OVERHAUL/MAINTENANCE ONLY USE ORIGINAL PARTS. -IF ANY LUMINAIRE IS SUBSEQUENTLY MODIFIED, THE PERSON RESPONSIBLE FOR THE MODIFICATION SHALL BE CONSIDERED THE MANUFACTURER. -THE MANUFACTURER BEARS NO LIABILITY FOR DAMAGE CAUSED BY INAPPROPRIATE USE OR APPLICATION.	(DE) -NETZANSCHLUSS BITTE NACH DEN LÄNDERSPEZIFISCHEN ERRICHTUNGSBESTIMMUNGEN TÄTIGEN. -FALLS DAS EXTERNE FLEXIBLE KABEL DIESER LEUCHTE BESCHÄDIGT IST, DARF ES AUSSCHLIESSLICH ERSETZT WERDEN DURCH DEN HERSTELLER ODER EINER ÄHNLICH QUALIFIZIERTEN PERSON, UM GEFÄHRDUNGEN ZU VERMEIDEN. -MONTAGE/WARTUNG NUR DURCH FACHKRÄFTE. -BEI INSTANDSETZUNG/INSTANDHALTUNG NUR ORIGINALTEILE VERWENDEN. -WERDEN NACHTRÄGLICH ÄNDERUNGEN AN LEUCHTEN VORGENOMMEN, SO GILT DERJENIGE ALS HERSTELLER, DER DIESE ÄNDERUNG VORNIMMT. -DER HERSTELLER ÜBERNIMMT KEINE HAFTUNG FÜR SCHÄDEN, DIE DURCH UNSACHGEMÄSSEN EINSATZ ENTSTEHEN.
(FR) -CONNEXION À L'ALIMENTATION CONFORMÉMENT AUX NORMES EN VIGUEUR. -SI LE CÂBLE EXTÉRIEUR SOUPLE OU LE CORDON DE CE LUMINAIRE EST ENDOMMAGÉ, IL DOIT ÊTRE REMPLACÉ EXCLUSIVEMENT PAR LE FABRICANT, OU TOUTE PERSONNE DE QUALIFICATION ÉQUIVALENTE, CECI AFIN D'ÉVITER TOUT RISQUE. -LES OPÉRATIONS D'INSTALLATION ET D'ENTRETIEN DOIVENT ÊTRE EFFECTUÉES EXCLUSIVEMENT PAR DES PERSONNES QUALIFIÉES. -DANS LE CAS D'UNE REMISE EN ÉTAT, UTILISER UNIQUEMENT DES COMPOSANTS D'ORIGINE. -TOUTES MODIFICATIONS APPORTÉES AU LUMINAIRE SE FERONT SOUS LA RESPONSABILITÉ EXCLUSIVE DE CELUI QUI LES EFFECTUE. -LE FABRICANT DÉCLINE TOUTE RESPONSABILITÉ RÉSULTANT D'UN MISE EN OEUVRE INAPPROPRIÉE OU PRODUIT.	(IT) -EFFETTUARE L'ALLACCIAMENTO ALLA RETE SECONDO LE NORME DI INSTALLAZIONE VIGENTI NEL PAESE D'UTILIZZO. -SE IL CAVO FLESSIBILE ESTERNO DI QUESTO APPARECCHIO D'ILLUMINAZIONE È DANNEGGIATO, PER EVITARE PERICOLI ESSO PUÒ ESSERE SOSTITUITO ESCLUSIVAMENTE DAL PRODUTTORE O DA PERSONA DOTATA DI ANALOGA QUALIFICA. -MONTAGGIO/MANUTENZIONE SOLO PER MEZZO DI PERSONALE SPECIALIZZATO. -PER RIPARAZIONE/MANUTENZIONE IMPIEGARE SOLO PARTI ORIGINALI. -IL COSTRUTTORE SI RISERVA IL DIRITTO DI APPORTARE SENZA PREAVVISO MODIFICHE DI PESO, DIMENSIONI E CARATTERISTICHE TECNICHE. -IL COSTRUTTORE NON È RESPONSABILE PER DANNI DERIVANTI DA MODIFICHE REALIZZATE DA TERZI E DA UNA INSTALLAZIONE NON CORRETTA.
(ES) -LA CONEXIÓN A RED DEBE DE REALIZARSE SIGUIENDO LAS NORMAS ESPECÍFICAS DE CADA PAÍSES. -EN CASO DE QUE EL CABLE EXTERNO FLEXIBLE DE ESTA LUMINARIA ESTÉ DAÑADO SÓLO PUEDE REEMPLAZARSE POR EL FABRICANTE O UNA PERSONA SIMILAR CUALIFICADA, PARA EVITAR PELIGROS. -EL MONTAJE Y MANTENIMIENTO LO EFECTUARAN UNICAMENTE LOS TECNICOS ESPECIALIZADOS. -PARA REPARACIONES HAN DE EMPLEARSE SOLO PIEZAS ORIGINALES DE RECAMBIO. -RESERVADO EL DERECHO DE MODIFICACION DE DIMENSIONES, PESOS Y CARACTERISTICAS TECNICAS, SIN PREVIO AVISO. -EL FABRICANTE NO ASSUME RESPONSABILIDAD POR MODIFICACIONES REALIZADAS POR TERCEROS, NI POR INSTALACION INCORRECTA.	(PT) -LIGAR À FONTE DE ALIMENTAÇÃO, DE ACORDO COM A REGULAMENTAÇÃO NACIONAL. -CASO O CABO EXTERNO E FLEXÍVEL DA LUMINÁRIA SE DANIFIQUE, DEVE SER SUBSTITUÍDO PELO FABRICANTE OU PESSOA IGUALMENTE QUALIFICADA, PARA EVITAR SITUAÇÕES DE PERIGO. -MONTAGEM/MANUTENÇÃO EFECTUADA UNICAMENTE POR PESSOAL TÉCNICO ESPECIALIZADO. -UTILIZAR SOMENTE PEÇAS ORIGINAIS DO FABRICANTE. -O FABRICANTE NÃO SE RESPONSABILIZA POR DANOS RESULTANTES DA INADEQUADA UTILIZAÇÃO DOS MATERIAIS.
(EL) -ΗΣΥΝΔΕΣΗ ΜΕ ΤΗΝ ΠΑΡΟΧΗ ΡΕΥΜΑΤΟΣ ΚΑ ΓΙΝΕΤΑΙ ΣΥΜΦΩΝΑ ΜΕ ΤΙΣ ΕΘΝΙΚΕΣ ΠΡΟΔΙΑΓΡΑΦΕΣ. -ΣΕ ΠΕΡΙΠΤΩΣΗ ΠΟΥ ΤΟ ΕΞΩΤΕΡΙΚΟ ΕΥΚΑΜΠΤΟ ΚΑΛΩΔΙΟ ΑΥΤΟΥ ΤΟΥ ΦΩΤΙΣΤΙΚΟΥ ΕΙΝΑΙ ΚΑΤΕΣΤΡΑΜΜΕΝΟ, ΠΡΕΠΕΙ ΝΑ ΑΝΤΙΚΑΤΑΣΤΑΘΕΙ ΑΠΟΚΛΕΙΣΤΙΚΑ ΚΑΙ ΜΟΝΟ ΑΠΟ ΤΟΝ ΚΑΤΑΣΚΕΥΑΣΤΗ Η ΑΠΟ ΑΛΛΟ ΕΞΟΥΣΙΟΔΟΤΗΜΕΝΟ ΑΤΟΜΟ, ΓΙΑ ΤΗΝ ΑΠΟΦΥΓΗ ΚΙΝΔΥΝΩΝ. -ΤΟΠΟΘΕΤΗΣΗ/ΣΥΝΤΗΡΗΣΗ ΜΟΝΟ ΑΠΟ ΗΛΕΚΤΡΟΛΟΓΟ. -ΚΑΤΑ ΤΗΝ ΕΠΙΣΚΕΥΗ/ΔΙΑΤΗΡΗΣΗ ΧΡΗΣΙΜΟΠΟΙΕΙΤΕ ΓΝΗΣΙΑ ΑΝΤΑΛΛΑΚΤΙΚΑ ΜΟΝΟ.	(NL) -AANSLUITEN OP HET LICHTNET, CONFORM DE NATIONALE REGELGEVING. -ALS HET EXTERNE FLEXIBELE SNOER VAN DEZE ARMATUUR BESCHADIGD IS, MAG DIT UITSLUITEND WORDEN VERVANGEN DOOR DE FABRIKANT OF EEN ANDERE GEKWALIFICEERDE PERSOON, OM RISICO'S TE VOORKOMEN. -MONTAGE/SERVICE ALLEEN DOOR VAKKUNDIG PERSONEEL. -BIJ INBEDRIJFSTELLEN/ONDERHOUD ALLEEN ORIGINELE ONDERDELEN GEBRUIKEN.
(SV) -NÄTANSLUTNING SKALL SKE ENLIGT NATIONELLA BESTÄMMELSER. -ÄR DEN EXTERNA FLEXIBLA SLADDEN PÅ LAMPAN SKADAD, FÅR ENDAST TILLVERKAREN ELLER EN ANNAN PERSON MED LIKNANDE KVALIFIKATIONER BYTA UT DENNA, FÖR ATT UNDVIKA FAROR. -MONTERING AKOTSEL ENDAST AV FACKFOLK. -ANVÄND BARA ORIGINALDELAR VID IGANGSÄTTNING/UNDERHÅLL.	(NO) -KOBLE TIL STRØMFORSYNINGEN I HENHOLD TIL NASJONALE BESTEMMELSER. -HVIS DEN EKSTERNE OG FLEKSIBLE KABELEN TIL DENNE LAMPEN ER SKADET, SÅ MÅ DEN KUN SKIFTES UT AV PRODUSENTEN ELLER EN LIKEVERDIG KVALISERT PERSON, FOR AT SKADER UNNGÅS. -MONTERES KUN AV FAGPERSONELL. -VED FEILRETTING I DRIFT KUN ORGINALDELER.
(CZ) -PŘIPOJENÍ K SÍŤOVÉMU NAPĚTÍ DLE PLATNÝCH NÁRODNÍCH NOREM. -POKUD JE EXTERNÍ PRUŽNÝ KABEL TOHOTO SVÍTIDLA POŠKOZEN, SMÍ JEHO VÝMĚNU PROVÉST POUZE VÝROBCE NEBO PODOBNĚ KVALIFIKOVANÁ OSOBA, ABY NEDOŠLO K ŽÁDNÉMU OHROŽENÍ. -MONTÁŽ A ÚDRŽBA MŮŽE BÝT PROVÁDĚNA VÝHRADNĚ ODBORNOU OSOBOU. -PŘI ÚDRŽBĚ NEBO OPRAVĚ MUSÍ BÝT POUŽITY JEN ORIGINÁLNÍ NÁHRADNÍ DÍLY.	(RU) -ВЫПОЛНИТЬ ПОДКЛЮЧЕНИЕ К СЕТИ В СООТВЕТСТВИИ С ПРИНЯТЫМИ В ДАННОЙ СТРАНЕ ПРАВИЛАМИ МОНТАЖА. -В СЛУЧАЕ ПОВРЕЖДЕНИЯ ВНЕШНЕГО ГИБКОГО КАБЕЛЯ ЭТОГО СВЕТИЛЬНИКА, ЧТОБЫ ИСКЛЮЧИТЬ РИСКИ, ОН ДОЛЖЕН БЫТЬ ЗАМЕНЕН ТОЛЬКО ИЗГОТОВИТЕЛЕМ ИЛИ ЛИЦОМ, ИМЕЮЩИМ ТАКУЮ ЖЕ КВАЛИФИКАЦИЮ. -ПРИ РЕМОНТЕ ПРИМЕНЯТЬ ТОЛЬКО ТЕЖЕ САМЫЕ ЧАСТИ. -МОНТАЖ/ОБСЛУЖИВАНИЕ ТОЛЬКО СПЕЦИАЛИСТАМИ.
(HU) -CSATLAKOZTASSA A TÁPFESZÜLTSÉGBE A HELYI ELŐÍRÁSOKNAK MEGFELELŐEN. -HA EZEN LÁMPÁK HAJLÍTHATÓ/RUGALMAS KÁBELEI MEGSÉRÜLNEK, AKKOR AZOK KIZÁRÓLAG CSAK A GYÁRTÓ VAGY HASONLÓAN KVALIFIKÁLT SZEMÉLY ÁLTAL CSERÉLHETŐK KI, HOGY ELKERÜLJÜK A BALESETEKET. -A SZERELÉST/KARBANTARTÁST CSAK SZAKSZEMÉLYZET VÉGEZHETI. -ÜZEMBEMELYEZÉSNEL/KARBANTARTÁSNAL CSAK EREDETI ALKATRÉSZEK HASZNÁLHATÓK.	(PL) -ZASILANIE NALEŻY POŁĄCZYĆ ZGODNIE Z WYMAGANIAMI ODPOWIEDNICH NORM. -W PRZYPADKU USZKODZENIA PRZEWODU ZASILAJĄCEGO NALEŻY GO WYMIENIĆ NA NOWY. WYMIANA PRZEWODU MOŻE BYĆ WYKONANA JEDYNIE PRZEZ WYKWALIFIKOWANEGO ELEKTRYKA. -MONTAŻ/KONSERWACJA TYLKO PRZEZ FACHOWY PERSONAL. -DLA NAPRAWY/BIEŻĄCEJ EKSPLOATACJI STOSOWAĆ TYLKO ORYGINALNE CZĘŚCI ZAMIENNE.
(SK) -ZAPOJTE DO EL. PRÍVODU PODĽA PREDPÍSANÝCH NORIEM. -AK JE EXTERNÝ PRUŽNÝ KÁBEL TOHTO SVIETIDLA POŠKODENÝ, SMIE BYŤ NAHRADENÝ VÝLUČNE VÝROBCOM ALEBO PODOBNE KVALIFIKOVANOU OSOBOU, ABY SA ZABRÁNILO OHROZENIU. -MONTÁŽU/VZDRŽIEVANIE LAHKO IZVRŠÍ LE USTREZNO USPOSOBLJENA OSEBA. -PRI POPRAVILU/VZDRŽEVALNIH DELIH SE LAHKO UPORABLJAJO SAMO ORIGINALNI DELI. -V KOLIKOR SE NA SVETILKAH NAKNADNO IZVEDEJO SPREMEMBE, SE ZA PROIZVAJALCA SVETILKE ŠTEJE TISTI, KI JE IZVEDEL SPREMEMBO. -PROIZVAJALEC NE JAMČI ZA ŠKODO, KI BI NASTALA ZARADI NEPRAVILNE UPORABE.	(TR) -SEBEKE BAĞLANTISINI LÜTFEN ÜLKEYE ÖZGÜ KURULUM KURALLARI ÇERÇEVESINDE YAPINIZ. -AYDINLIK LUMINAIRE) HARICI ESNEK KABLOSUNUN HASAR GÖRMESI DURUMUNDA, TEHLIKELERDEN KAÇINMAK ÜZERE BU SADECE ÜRETICI TARAFINDAN VEYA BENZERI YASIFLI KIŞILER TARAFINDAN DEĞIŞTIRILEBILIR. -MONTAJ VE BAKIM SADECE YETKILI PERSONEL TARAFINDAN YAPILMALIDIR. -BAKIMDA SADECE ORJINAL PARÇALAR KULLANILMALIDIR.
(HR) -MOLIMO IZVRŠITE MREŽNI PRIKLJUČAK PREMA SPECIFIČNIM NACIONALNIM ODREDBAMA O NJEGOVOM IZVRŠENJU. -UKOLIKO JE EKSTERNI, FLEKSIBILNI KABEL TE SVJETILJKE OŠTEĆEN, ZAMJENA ISTOG JE DOZVOLJENA ISKLJUČIVO PROIZVOĐAČU ILI SLIČNOJ KVALIFICIRANOJ OSOBI, KAKO BI SE IZBJEGLE OPASNOSTI. -MONTAŽU/ODRŽAVANJE MORA VRŠITI ODGOVARAJUĆE OSPOSOBLJENA OSOBA. -PRI POPRAVKU/ODRŽAVANJU KORISTITI SAMO ORIGINALNE DIJELOVE. -UKOLIKO SE NA SVJETILJKAMA NAKNADNO VRŠE PROMJENE, ZA PROIZVOĐAČA SVJETILJKE SE SMATRA TAJ KOJI JE PROMJENE IZVRŠIO. -PROIZVOĐAČ NE GARANTUJE ZA ŠTETU KOJA BI MOGLA NASTATI USLED NEPRAVILNE UPOTREBE.	(SR) -MOLIMO DA MREŽNI PRIKLJUČAK PROVEDETE PREMA SPECIFIČNIM NACIONALNIM ODREDBAMA O NJEGOVOM PROVOĐENJU. -AKO JE EKSTERNI FLEKSIBILNI KABAL OVE SVETILJKE OŠTEĆEN, NJEGA SME DA ZAMENI ISKLJUČIVO PROIZVOĐAČ ILI NEKO SLIČNO KVALIFIKOVANO LICE, DA BI SE IZBEGLA UGROŽAVANJA. -MONTAŽU/ODRŽAVANJE MOŽE DA OBAVI SAMO STRUČNO OSPOSOBLJENA OSOBA. -PRI POPRAVLJANJU/ODRŽAVANJU UPOTREBLJAVATI SAMO ORIGINALNE DELOVE. -UKOLIKO SE NA SVETILKAMA NAKNADNO URADE IZMENE, ZA PROIZVAĐAČA SVETILKE ĆE SE SMATRATI ONAJ KO IZMENE IZVRŠI. -PROIZVAĐAČ NE GARANTUJE ZA ŠTETU KOJA BI MOGLA NASTATI USLED NEPRAVILNE UPOTREBE.

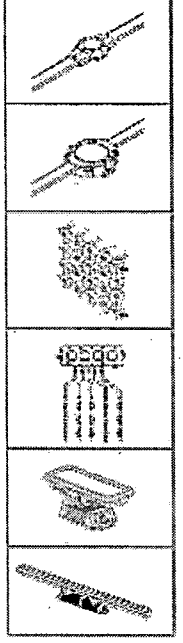
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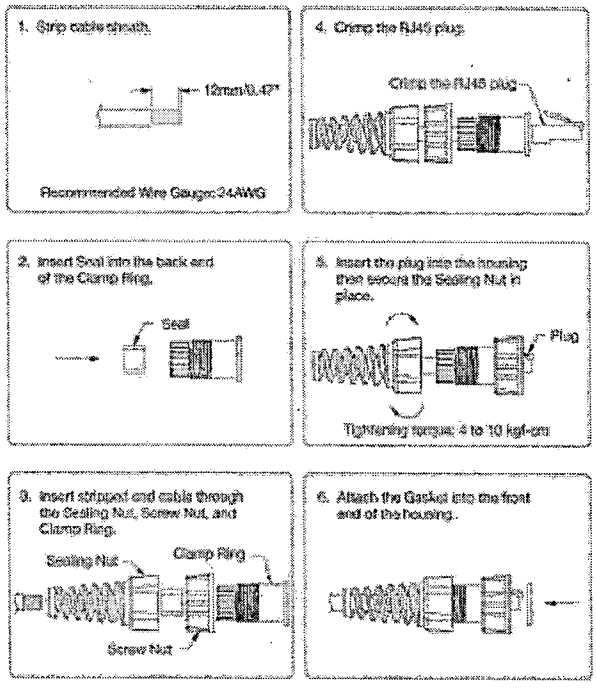
Date: _____ Quantity: _____
Company: _____
Project: _____

DE.AC.0100000
RJ45 Field Installation Male Connector



For use with:





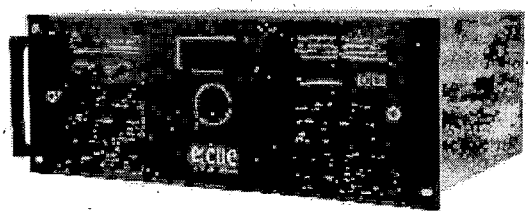
Type:	RJ45 Male Connector Housing IP67
Use:	Houses RJ45 Male Connector for outdoor connections
Indoor/Outdoor	Outdoor (IP67)
Notes:	Field installable

e:cue
LIGHTING CONTROL

Lighting Control Engine 2

e:cue Engines

e:cue engines are the perfect platform for building dynamic, effective and reliable lighting applications. These engines are the functional backbone of lighting installations controlling fixtures, interacting with user terminals and executing shows. e:cue engines are built for steadiness, long-term use and flexibility. They are feature-rich and benefit from many years pioneering work in the field of lighting control.



e:cue Lighting Control Engine 2

The Lighting Control Engine 2 (LCE2) serves as a high performance server to control large lighting projects, the e:cue Lighting Application Suite is pre-installed and ready to run. As a central control unit, this versatile lighting control server orchestrates all devices and fixtures within a project. It also outputs other protocols such as KiNet and Art-Net and integrates various external engines and triggering sources. It can be mounted in a standard 19 inch rack or can be used as a standalone unit. The LCE2 is the ultimate server solution for any demanding lighting project.

Main features

- e:cue's Lighting Application Suite pre-installed
- High quality components for reliable uninterrupted operation
- Integrated DMX inputs and outputs, dry contact inputs and relay outputs
- LC display and cursor keys for status messages and system control
- Support for a variety of Ethernet-based protocols
- Easily mountable in 19 inch racks

Delivery scope

	Item code
• Lighting Control Engine 2	AA629450035
Rack mounting rails	
Ethernet cable 2 m CAT5e SFTP	
Printed LCE2 Setup Manual English/German	
Printed Lighting Application Suite System Manual English	
e:cue Lighting Application Suite LCE2 Edition	
USB license dongle	

CE EN55022, EN55024, EN/UL60950

c ETL us ETL LISTED
Conforms to ANSI/UL Std 60950-1
Certified to CAN/CSA STD C22.2 Nr. 60950-1
4006376

Technical data

Model number	EN.LC.9300000
Dimensions (W x H x D)	491 x 176 x 432 mm 19.3 x 6.9 x 17 inch (incl. brackets)
Weight	15 kg
Power supply	100 ... 240 V AC, 50/60 Hz
Power consumption	115 W
Operating temperature	0 ... 35 °C/32 ... 95 °F
Storage temperature	-10 ... 70 °C/14 ... 158 °F
Operating/storage hum.	0 ... 95% non-condensing
Protection class	IP20
Housing	Steel, front powder-coated
Mounting	in 19-inch rack systems with rails
Certifications	CE (EN55022, EN55024 EN/UL60950)
User interface	USB or PS/2 keyboard/mouse, LC Display, Keypad
Ethernet ports	2 x e:net 10/100/1000 Mbps
Serial interfaces	2 x RS-232 Sub-D
Keyboard/mouse	2 x PS/2
USB	2 x USB3 (blue, front) 2 x USB3 (blue, rear) 2 x USB2 (black, rear)
DMX	2 x DMX/RDM output/input 1 kV galvanically isolated
Digital dry contacts	6 x inputs, max. 24 V DC off: Vin < 1 V DC, on: Vin > 4 V DC Input current Iin (typical): Vin = 5 V/Iin = 0.8 mA Vin = 12 V/Iin = 2.3 mA Vin = 24 V/Iin = 4.8 mA 12 V DC output: max. 70 mA, overload protected
Relay outputs	2 x SPDT, max. 24 V, 3A
Graphics	1 x VGA, 1 x DVI-D

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33100 Paderborn
Germany

LIGHTING CONTROL

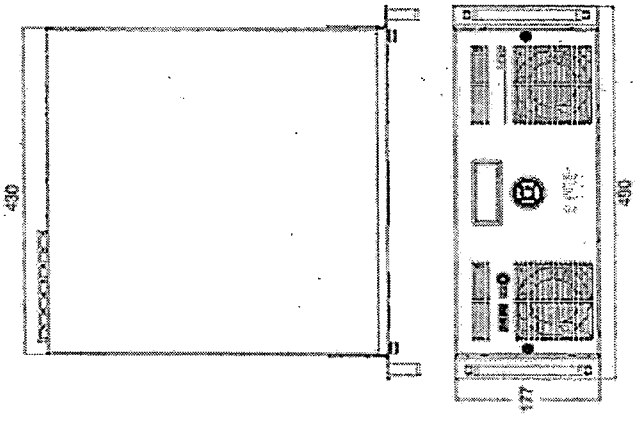
Lighting Control Engine 2

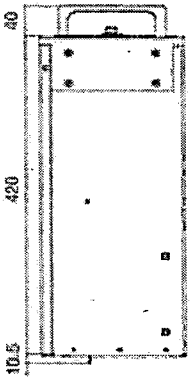
Technical data (contd.)

Audio	1 x mic/line input 1 x headphone/line output
Data storage	Removable SSD HDD
Media drives	CD/DVD via USB port

Dimensions

All dimensions in mm

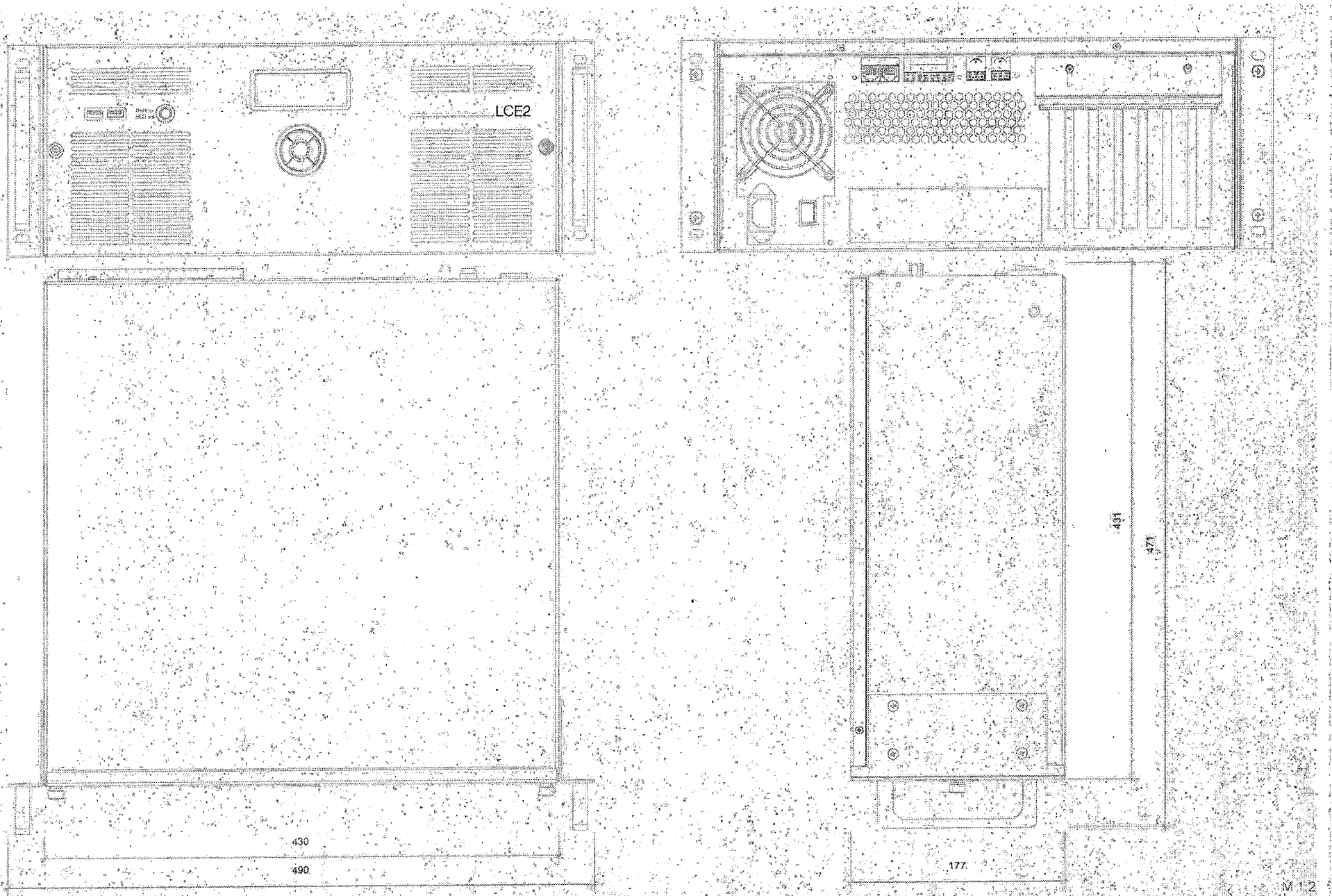




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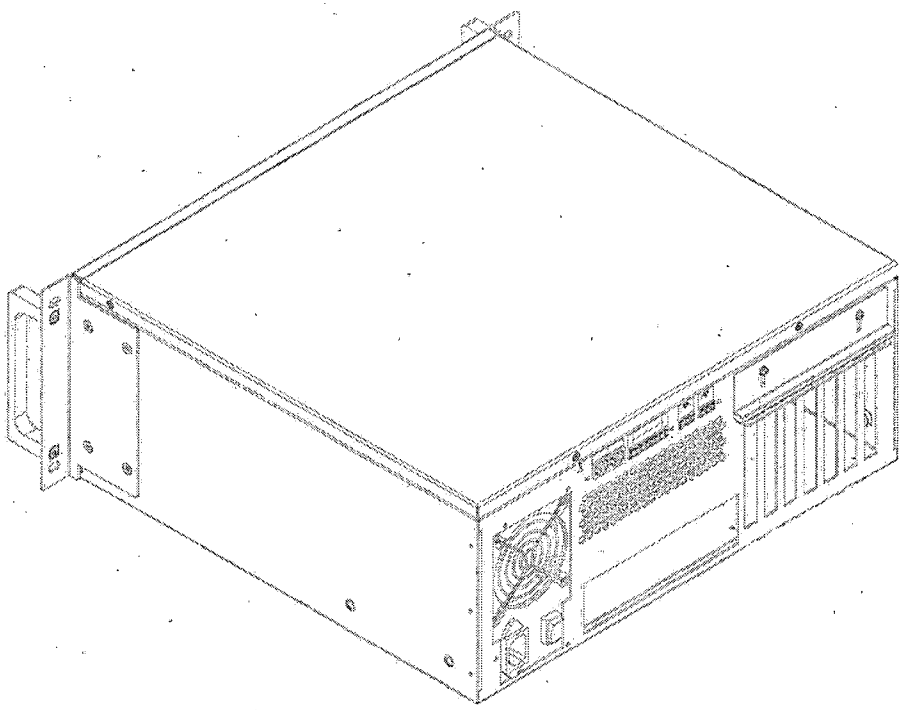


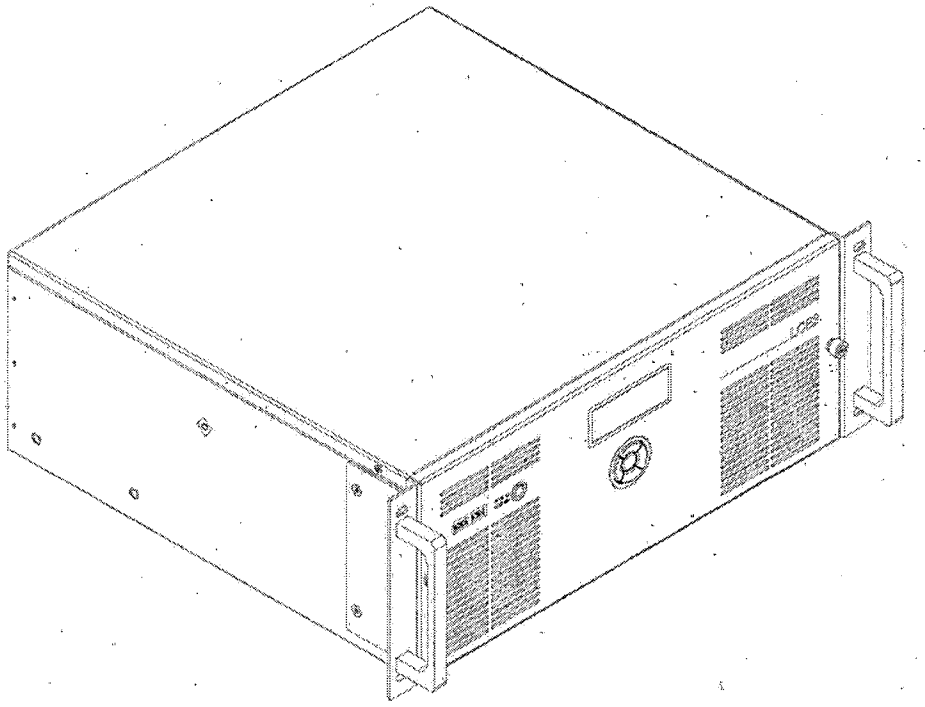
LCE_2

Scale:	Overview_M_1:2	DIN_A2	
Contact:	Industrial_Engineering_Department I damian.salo@ecue.de	March_2018	
Drawer:	holger.ruether@ecue.de I andreas.snopkowski@ecue.de	01_von_02	

traxon ecue
AN OSRAM BUSINESS

CAM #25-0822
Exhibit 1
Page 61 of 99





LCE_2

Scale:	without scale	DIN_A2
Contact:	Industrial_Engineering_Department I damian.sale@ecue.de	March_2013
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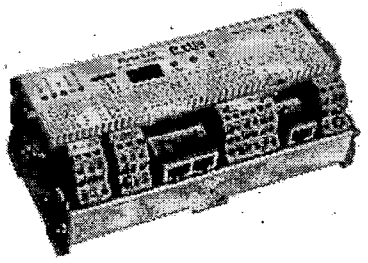
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e:cue
LIGHTING CONTROL

Butler XT2

e:cue Engines

e:cue engines are the perfect platform for building dynamic, effective and reliable lighting applications. These engines are the functional backbone of lighting installations controlling fixtures, interacting with user terminals and executing shows. e:cue engines are built for steadiness, long-term use and flexibility. They are feature-rich and benefit from many years pioneering work in the field of lighting control.



Butler XT2

Similar to the Butler but with more connectivity options and RDM capability, the Butler XT2 is a DMX/RDM engine that can be used in standalone mode to replay and loop previously uploaded lighting shows, programmed using a PC running the e:cue software suite. The Butler XT2 is also used as a DMX/RDM device controlled by another e:cue engine. In standalone mode, one DIN-rail mountable Butler XT2 controls up to 1024 DMX/RDM channels. The DMX/RDM channel control can be increased to 65,536 channels by clustering more Butler XT2. This engine has many connectivity options used to control the lighting show running on the device. Connectivity options include direct connection to Glass Touch User Terminals, RS-232, digital inputs and Ethernet.

Main features

- Controls up to 1024 DMX/RDM channels
- Scalable up to 65,536 channels
- Supports RDM protocol for bidirectional communication
- Internal real-time and astronomical clock
- Standalone configuration via web browser
- Control via web browser or iOS and Android apps with Action Pad
- 100 MBit e:net
- Serial input port (RS-232) for connecticity to 3rd party systems
- Eigh freely configurable (optically isolated) digital inputs
- MicroSD card for show upload/configuration file storage (included in delivery)
- Freely configurable actions for standalone mode (e.g. play, pause, resume, stop, previous and next cuelist, intensity up/down), plays up to eight cuelist in parallel
- Master intensity dimmable
- Cuelist download from e:cue Lighting Application Suite

Delivery scope

	Item code
• Butler XT2	AA557270131
MicroSD card	AA6137401HA
Setup Manual English/German	

Optional accessories

	Order numbers
• Butler XT2 Garage	AA556660031
• Accessory pack (including power supply, network cable, RS-232 to open wire adaptor, CAT5e cross cable 1m, e:cue software CD)	AA556690035

Technical data

Model number	EN.BX.0000001
Dimensions (W x H x D)	177 x 60 x 75 mm/ 7 x 2.4 x 3 inch
Weight	0.4 kg/0.88 lbs
Power	12 ... 24 V DC, >= 1,3 A with e:bus 24 V DC
Operating/storage temp.	0 ... 40 °C/32 ... 104 °F
Operating/storage hum.	0 ... 80% non-condensing
Protection class	IP20
Materials	Aluminium, Polyamide 6.6
Mounting	on 35 mm DIN rail
Certification	CE, ETL

Interfaces

User interface	3 Buttons
System link	e:bus (clamp terminals) e:net (RJ45)
Outputs	DMX (RJ45, clamp terminals)
Inputs	RS-232 (clamp terminals) RDM (RJ45, clamp terminals) 8 optically isolated digital inputs
Display	7-segment LED

CE ETL c US Intertek

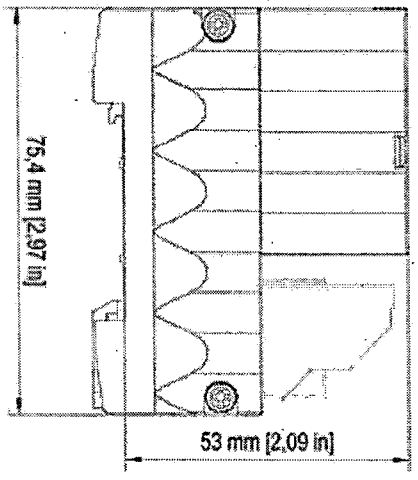
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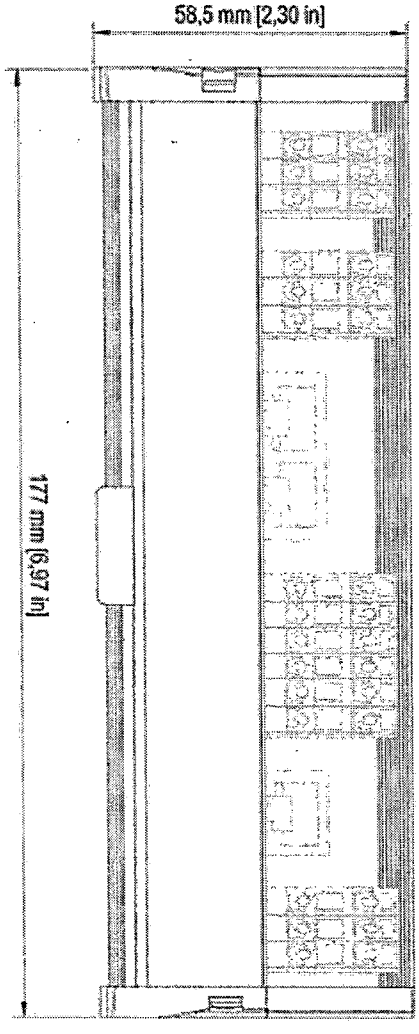
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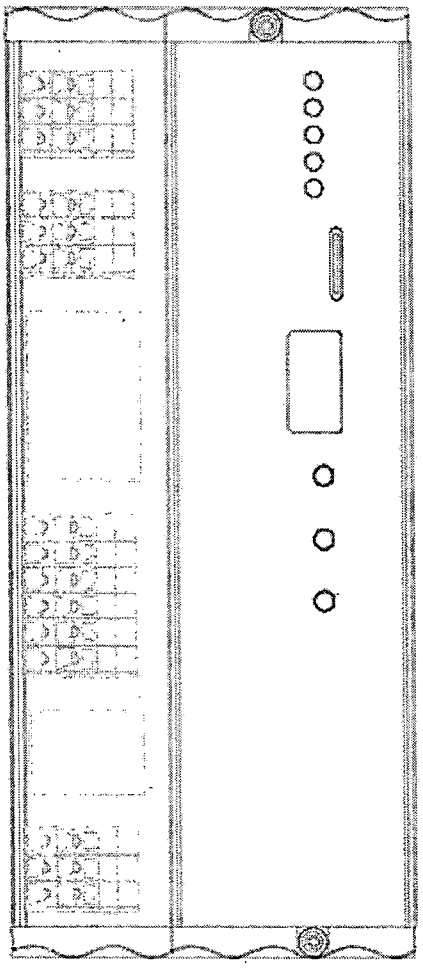
Traxon Technologies Europe GmbH
Karl Schurz-Strasse 30
33100 Paderborn
Germany

Butler XT2

Dimensions (mm/in)



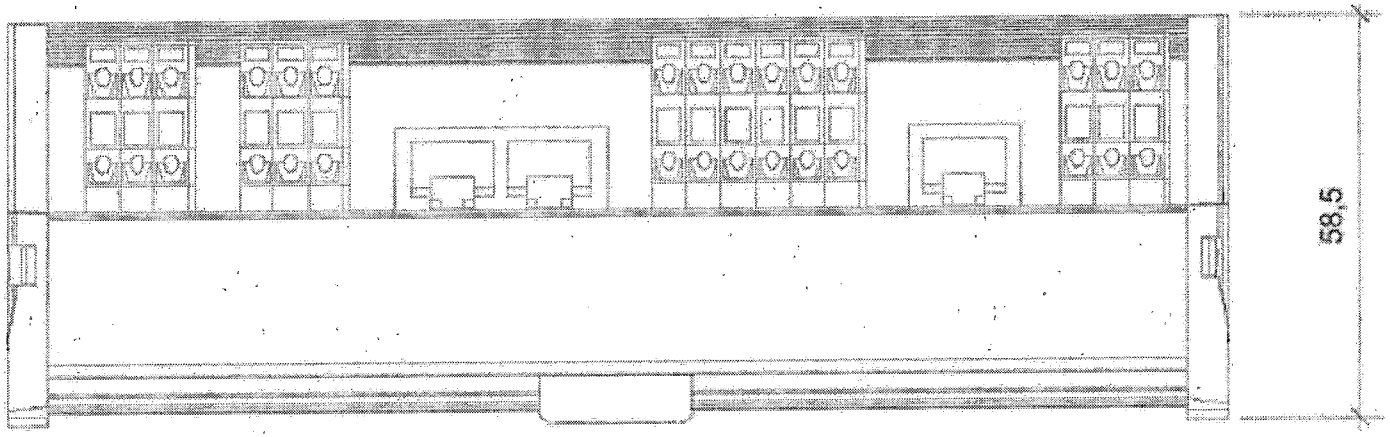


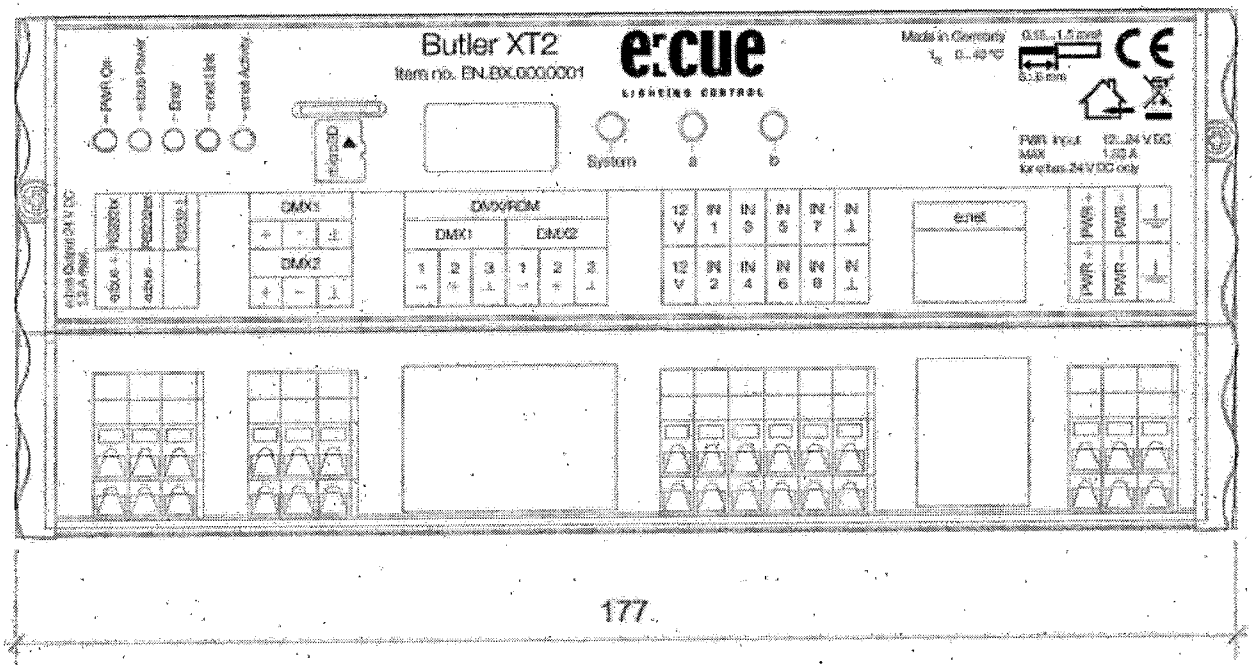


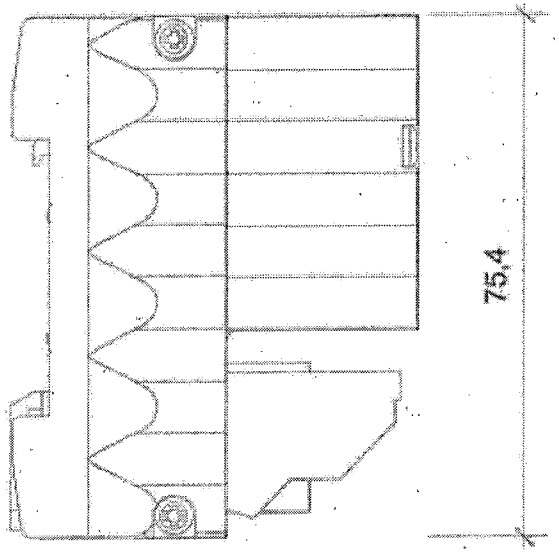
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Butler_XT2

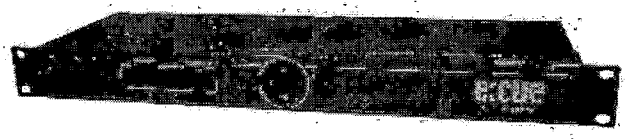
Scale:	Overview_M_1:1	DIN A4	
Contact:	Industrial_Engineering_Department	January, 2018	
Drawn:	holger.nuether@ecue.de	01_of_01	

e:cue
LIGHTING CONTROL

Butler PRO DMX

e:cue Engines

e:cue engines are the perfect platform for building dynamic, effective and reliable lighting applications. These engines are the functional backbone of lighting installations controlling fixtures, interacting with user terminals and executing shows. e:cue engines are built for steadiness, long-term use and flexibility. They are feature-rich and benefit from many years pioneering work in the field of lighting control.



Butler PRO DMX

The e:cue Butler PRO DMX is an e:net to DMX512 interface for the e:cue Lighting Application Suite (LAS). It controls up to 16 DMX512 universes with 512 channels per universe with full RDM capability. Connection to the server runs via Ethernet interface with 100 MBit/s. All cabling, Ethernet and DMX512, uses CAT5 RJ45 connections. XRL5 DMX connections are possible with an optional link adapter. Using a LC display with 2 lines by 20 characters, all basic configurations can be done with the set of four cursor keys and an OK key. When online, the LC display shows status messages from the Butler PRO DMX. The Butler PRO DMX is the optimal interface for running huge numbers of DMX universes still providing full RDM over DMX functionality. The system is mounted in standard 19-inch racks.

Main features

- Controls up to 8,192 DMX512 channels in 16 DMX/RDM universes
- Supports RDM protocol over DMX for bidirectional communication (ANSI/ESTA E1:20, RDM over USITT DMX512)
- Basic configuration via LC display and cursor keys
- Display of status messages while operating
- 100 MBit system interconnect for e:net over Ethernet

Delivery scope

	Item code
• Butler PRO DMX/RDM Rack mounting brackets Power chords DE, US, UK Setup Manual English/German	AA628600035

Optional accessories

	Item code
• RJ45 to XLR5 link adapter	AA611810135

Technical data

Model number	EN.BP.0000100
Dimensions (W x H x D)	482 x 44 x 142 mm/19 x 1.7 x 5.6 in (incl. mounting brackets)
Weight	1200 g
Power	100 ... 240 V AC, 50/60 Hz
Power consumption	max. 20 W
Operating temperature	0 ... 40 °C/32 ... 104 °F
Storage temperature	-20 ... 70 °C/-4 ... 158 °F
Operating/storage hum.	0 ... 80% non-condensing
Protection class	IP20
Materials	Steel, front powder coated
Mounting	in 19-inch standard racks
Certification	CE, ETL

Interfaces

User interface	4 + 1 cursor keys, LC display
System link	1 x e:net (RJ45)
Outputs	16 DMX/PDM ports USITT DMX512-A, RDM ANSI E1.20, RJ45 receptacle connector, Traxon pin configuration
Display	2 x 20 characters LCD display

CE EN55022, EN55024
EN/UL60950

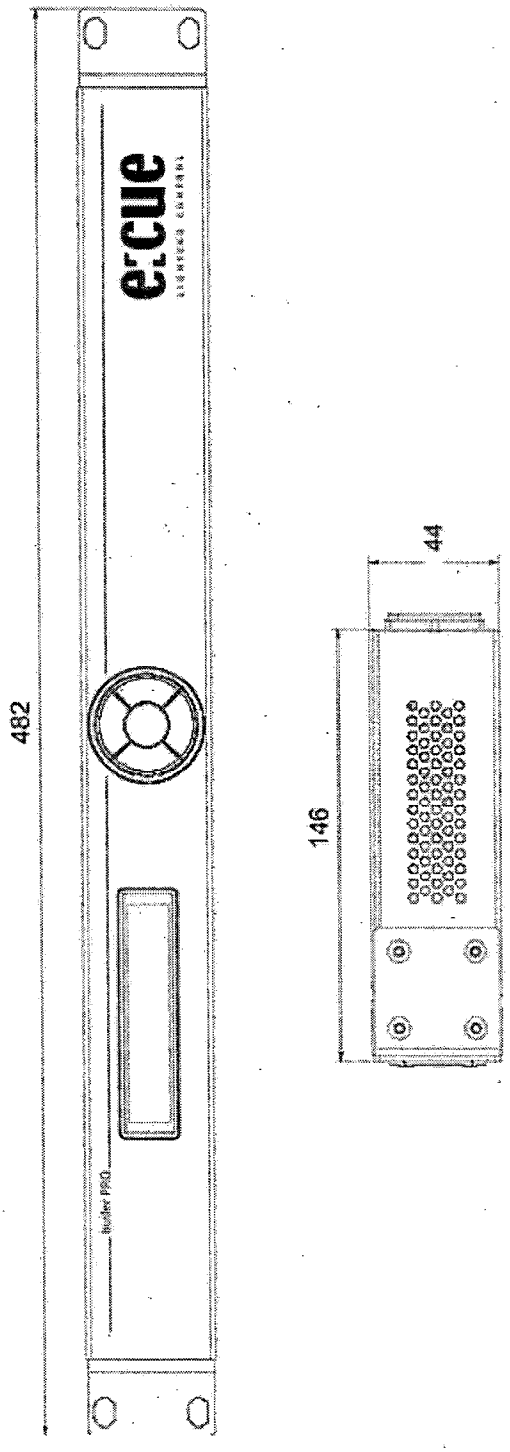
c ETL us Intertek 4006376
ETL LISTED
Conforms to ANSI/UL Std 60950-1
Certified to CAN/CSA STD C22.2 No. 60950-1

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Dimensions (in mm)



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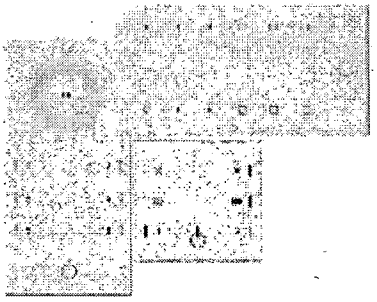
Pepperl Technologies Europe GmbH
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Germany

e:cue
LIGHTING CONTROL

Glass Touch User Terminals

e:cue User Terminals

Many applications of lighting control require interfaces into the human world. e:cue user terminals with their sleek, stylish and yet unostentatious design fit perfectly in all environments. Ergonomics, usability and functionality were emphasized as main aspects in their development. e:cue user terminals conduce controlling your lighting application with a touch of your finger tip, either a room illumination or a complete store front.



Glass Touch User Terminals

Glass Touches are a series of user terminals featuring a sleek design with a glass surface, touch-sensitive keys and a scroll-wheel for user interaction. Designed to work with the Butler XT2 via the e:bus protocol, the Glass Touch keys and wheel are easily customized using the e:cue software to perform any function according to project requirements. Pleasing to the eye, these devices are the perfect solution for user interaction and control in high-end lighting applications such as hospitality, architectural, healthcare, residential and other projects. Glass Touches are wall mountable, and up to eight units can be connected to a single Butler XT2 for flexible installation..

Features

- Sensor keys with status LEDs
- Touch wheel, Play/Pause (T6R only)
- One On-Off sensor
- Simple mounting in standard with in-wall fittings
- Ultra thin design
- Sleek white glass front
- Connects via free topology e:cue e:bus (2-wire power and data connection)

Delivery content

	Item code
• Glass Touch T6 or	AA439100138
Glass Touch T6R or	AA439120138
Glass Touch T12	AA439070138
• Hexagon screw key	
• Mounting plate	

CE

c ETL us LISTED
Intertek
4000842

Conforms to ANSI/UL Std. 60950-1
Certified to CSA Std. C22.2 NO. 60950-1

Technical data T6, T6R, T12

Power supply	24 V=, 18 mA (via e:bus)
Operating/storage temp.	0 ... 40 °C/32 ... 104 °F
Operating/storage hum.	0 ... 80%, non-condensing
Protection class	IP20
Housing	Glas (surface), aluminium (housing)
Mounting	In standard in-wall fitting
Certification	CE, ETL

Technical data T6

Dimensions (W x H x D)	80 x 80 x 11 mm 3.15 x 3.15 x 0.43 in
Weight	110 g/0.23 lbs
User interface	6 capacitive touch sensors 1 capacitive on/off sensor

Technical data T6R

Dimensions (W x H x D)	80 x 160 x 11 mm 3.15 x 6.3 x 0.43 in
Weight	210 g/0.46 lbs
User interface	6 capacitive touch sensors 1 capacitive on/off sensor 1 capacitive touch wheel 1 capacitive play/pause sensor

Technical data T12

Dimensions (W x H x D)	80 x 160 x 11 mm 3.15 x 6.3 x 0.43 in
Weight	210 g/0.46 lbs
User interface	12 capacitive touch sensors 1 capacitive on/off sensor

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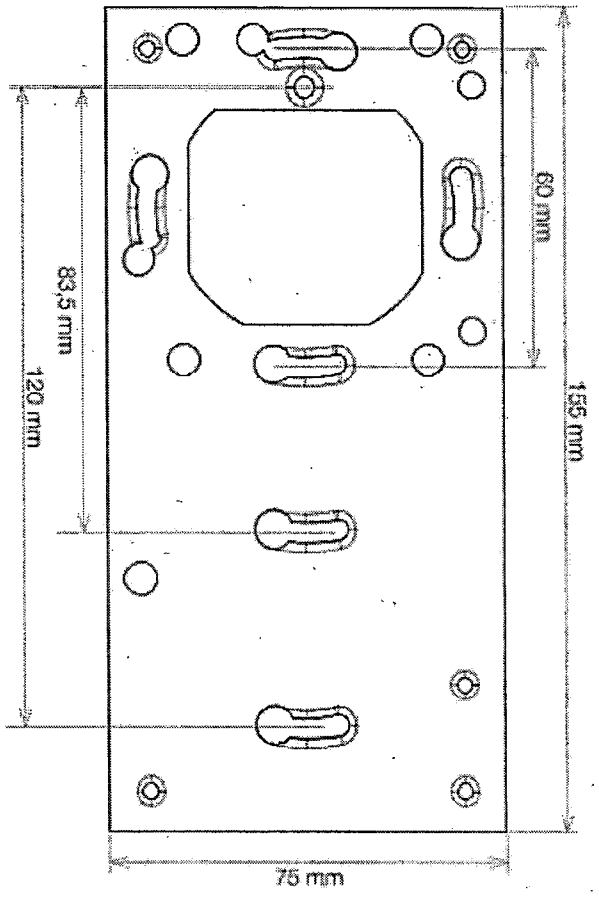
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Glass Touch User Terminals

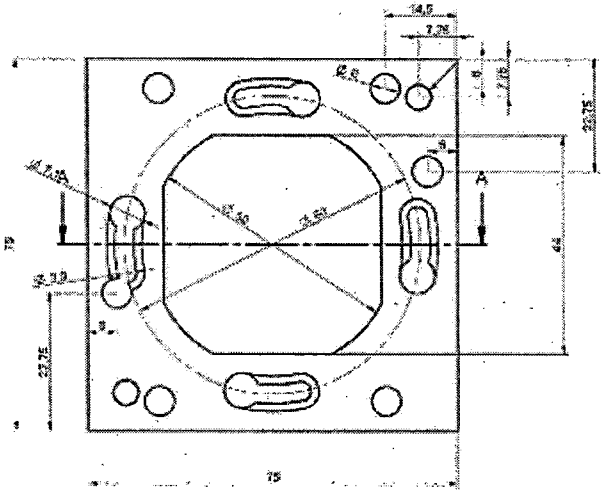
Mounting T6R, T12

All dimensions in mm



Mounting T6

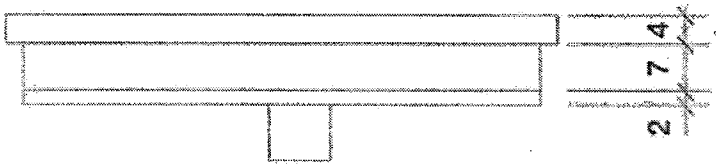
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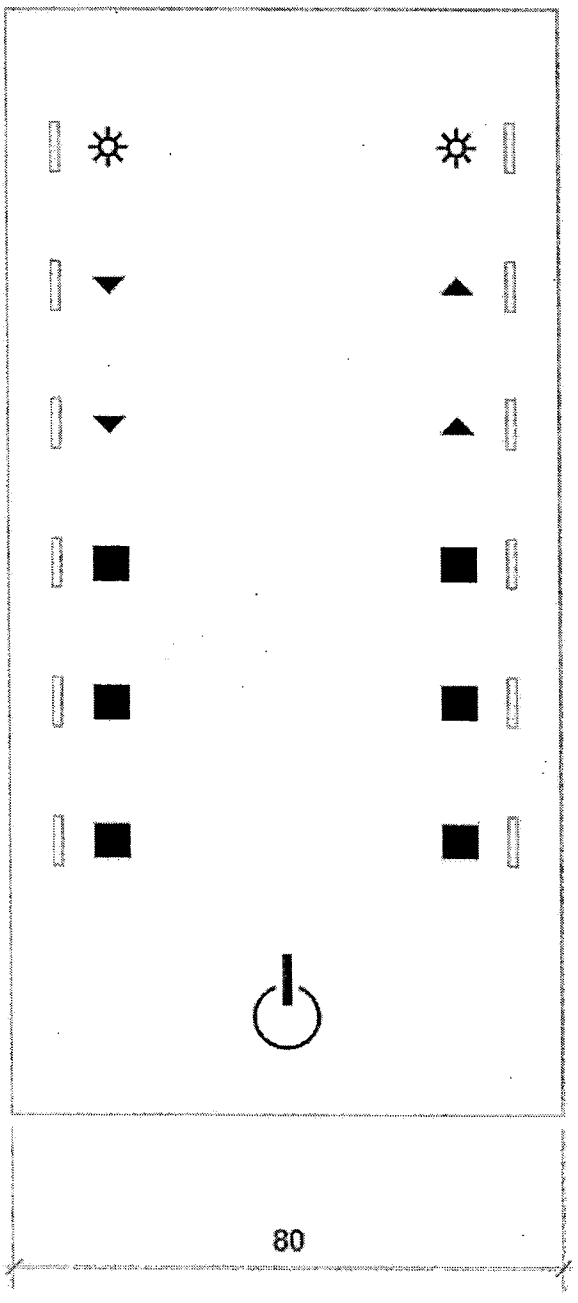


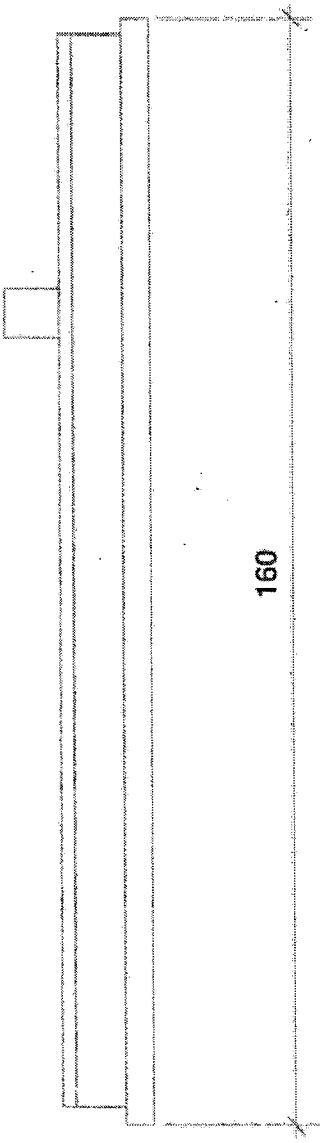
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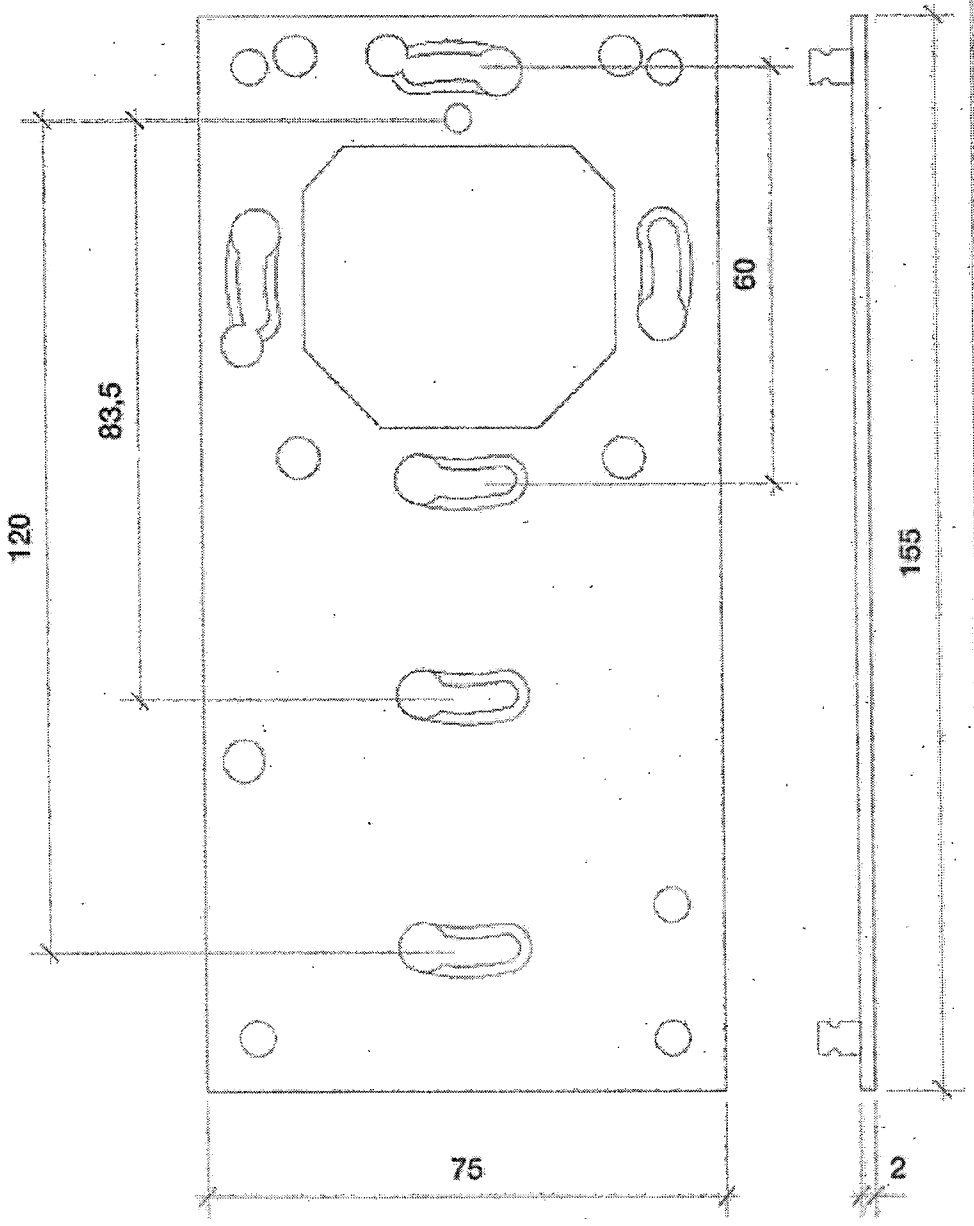


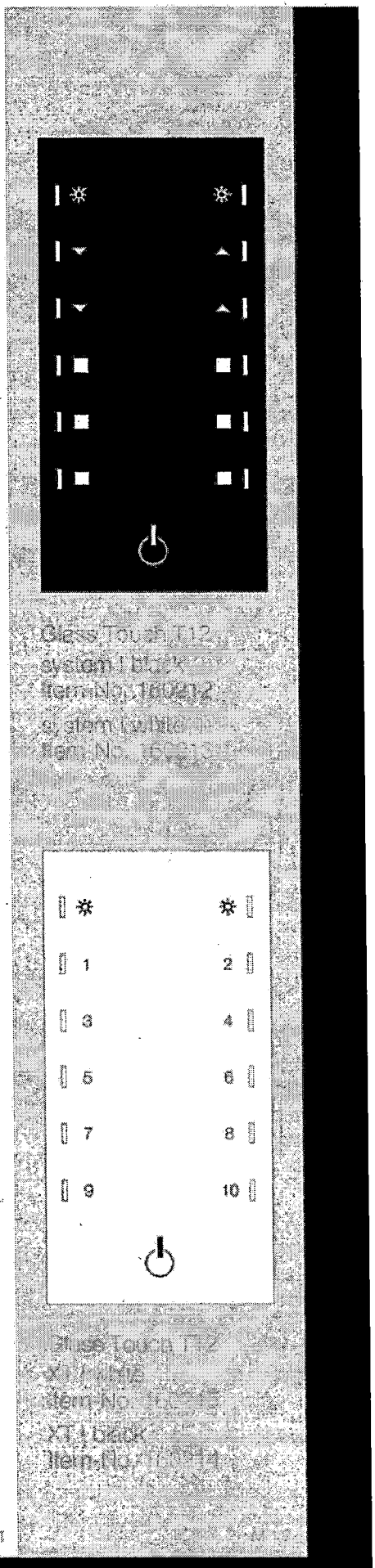
M 1:1

Glass_Touch_T12

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CAM #25-0822
Exhibit 1
Page 70 of 99





M 1:1

Glass_Touch_T12_mounting_plate

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tesa AN OSRAM BUSINESS

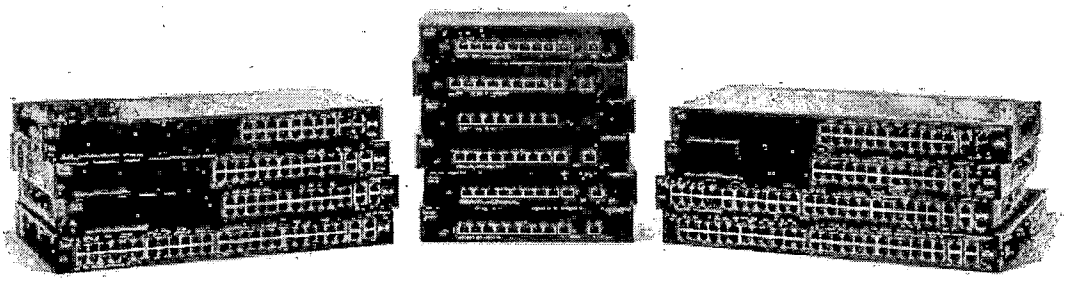
CAM #25-0822
Exhibit 1
Page 71 of 99

Cisco 300 Series Switches
Cisco Small Business

Easy-to-Use Managed Switches that Provide the Ideal Combination of Features and Affordability

To stay ahead in a competitive marketplace, small businesses need to make every dollar count. That means getting the most value from your technology investments, but it also means making sure that employees have fast, reliable access to the business tools and information they need. Every minute an employee waits for an unresponsive application – and every minute your network is down – has an impact on your bottom line. The importance of maintaining a strong and dependable business network only grows as your business adds more employees, applications, and network complexity.

When your business needs advanced security and features but value is still a top consideration, you're ready for the new generation of Cisco® Small Business managed switches: the Cisco 300 Series.



Cisco 300 Series Switches

The Cisco 300 Series, part of the Cisco Small Business line of network solutions, is a portfolio of affordable managed switches that provides a reliable foundation for your business network. These switches deliver the features you need to improve the availability of your critical business applications, protect your sensitive information, and optimize your network bandwidth to deliver information and applications more effectively. Easy to set up and use, the Cisco 300 Series provides the ideal combination of affordability and capabilities for small businesses, and helps you create a more efficient, better-connected workforce.

The Cisco 300 Series is broad portfolio of fixed-configuration managed Ethernet switches. Models are available with 8 to 48 ports of Fast Ethernet and 10 to 52 ports of Gigabit Ethernet connectivity, providing optimal flexibility to create exactly the right network foundation for your business. However, unlike other small business switching solutions that provide managed network capabilities only in the costliest models, all Cisco 300 Series Switches support the advanced security management capabilities and network features you need to support business-class data, voice, security, and wireless technologies. At the same time, these switches are simple to deploy and configure, allowing you to take advantage of the managed network services your business needs.

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Business Applications

Whether you need a basic high-performance network to connect employee computers or a solution to deliver data, voice, and video services, the Cisco 300 Series offers a solution to meet your needs. Possible deployment scenarios include:

- **Secure desktop connectivity:** Cisco 300 Series Switches can simply and securely connect employees working in small offices with each other and with all of the servers, printers, and other devices they use. High performance and reliable connectivity helps speed file transfers and data processing, improves network uptime, and keeps your employees connected and productive.
- **Secure wireless connectivity:** Cisco 300 Series Switches allow employees to work productively from conference rooms and common areas, collaborate in any office, and access business applications from wherever they are. Gigabit Ethernet connectivity helps ensure that your employees have the bandwidth and performance they need to make the most of mobile productivity. And with embedded security, your employees can work with confidence, knowing that only authorized users can access applications and network devices.
- **Unified communications:** As a managed network solution, the Cisco 300 Series provides the performance and advanced traffic-handling intelligence you need to deliver all communications and data over a single network. Cisco offers a complete portfolio of IP telephony and other unified communications products designed for small businesses. Cisco 300 Series Switches have been rigorously tested to help ensure easy integration and full compatibility with these and other products, providing a complete small business solution.
- **Highly secure guest connectivity.** Cisco 300 Series Switches let you extend highly secure network connectivity to guests in a variety of settings, such as a hotel, an office waiting room, or any other area open to nonemployee users. Using powerful but easy-to-configure security and traffic segmentation capabilities, you can isolate your vital business traffic from guest services and keep guests' network sessions private from each other.

Features and Benefits

Cisco 300 Series Switches provide security, performance, traffic management, and other capabilities – optimized and customized, and at the right price for small businesses. The Cisco 300 Series provides:

- **High performance and reliability:** Cisco 300 Series Switches have been rigorously tested to deliver the high availability and performance you expect from a Cisco switch. The solutions speed up file transfer times and improve slow, sluggish networks, while keeping your vital business applications available and preventing costly downtime. As a managed switching solution, the Cisco 300 Series also gives you the flexibility to manage and prioritize high-bandwidth traffic such as voice. That means you can empower your employees with state-of-the-art communication and productivity solutions, without draining the performance of your other business applications.
- **Fast, easy setup and configuration:** Cisco 300 Series Switches are designed to be easy to use and manage by small businesses and the partners who serve them. The included device manager software provides an intuitive, web-based interface to simplify setup, security, and quality of service (QoS) traffic prioritization, allowing even users without IT expertise to configure the switch in minutes. Cisco also provides a Cisco FindIT Network Discovery Utility. This utility that works through a simple toolbar on the user's web browser to discover Cisco devices in the network and display basic information, such as serial numbers and IP addresses, to aid in the configuration and deployment of Cisco Small Business products. For more information, and to download the utility, please visit

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www.cisco.com/go/findit. These switches use Cisco Discovery Protocol as well as Link Layer Discovery Protocol (LLDP-MED) to automatically detect all the devices connected to your network, and then automatically configure themselves for the appropriate connectivity and instructs the devices to use appropriate voice VLAN or QoS parameters. For more advanced capabilities and hands-on control, the switches support Smartport roles which configure the ports with specific levels of Security, QoS, and availability according to the type of connected device, based on Cisco best practices and pretested configurations. The Auto Smartports feature applies the intelligence delivered through the Smartport roles and applies it automatically to the port based on the devices discovered over CDP or LLDP-MED. This facilitates zero touch deployments. Although the Cisco 300 Series is designed to be deployed without using a command-line interface (CLI), Cisco Textview is available for those who prefer to use text-based configuration. Together, these features reduce the time your staff must devote to network deployment, management, and troubleshooting.

- **Strong security:** The Cisco 300 Series Switches provide a high level of security and give you fine-grained control to safeguard your network from unauthorized users. Advanced security features include:
  - Embedded security to protect management data traveling to and from the switch and encrypt network communications
  - Extensive access control lists (ACLs) to restrict sensitive portions of the network from unauthorized users and guard against network attacks
  - Guest virtual LANs (VLANs) to let you provide Internet connectivity to nonemployee users while isolating critical business services from guest traffic
  - Support for advanced network security applications such as IEEE 802.1X port security to tightly limit access to specific segments of your network
  - Time based ACLs and Port Operation restrict access to the network during predesignated times, such as business hours.
  - Security mechanisms such as, Bridge Protocol Data Unit (BPDU) Guard and broadcast/multicast/unknown unicast storm control, protect the network from invalid configurations or malicious intent.
  - Secure Core Technology (SCT) helps ensure that the switch will receive and process management and protocol traffic no matter how much traffic is received.
  - Advanced defense mechanisms, including Dynamic ARP Inspection (DAI), IP Source Guard, and Dynamic Host Configuration Protocol (DHCP) snooping, detect and block deliberate network attacks. Combinations of these protocols are also referred to as IPMB (IP-MAC-port binding)
  - DOS (denial-of-service) attack prevention maximizes network uptime in the presence of an attack
  - Protection of management sessions using Radius, TACACS+ and local database authentication as well as secure management sessions over SSL, SSH, and SNMPv3.
- **Power over Ethernet:** Cisco 300 Series Switches are available with up to 48 PoE ports of Fast Ethernet or 28 PoE ports of Gigabit Ethernet connectivity. This capability simplifies advanced technology deployments such as IP telephony, wireless, and IP surveillance by allowing you to connect and power network endpoints over a single Ethernet cable. With no need to install separate power supplies for IP phones or wireless access points, you can take advantage of advanced communications technologies more quickly, and at a lower cost.
- **IP telephony support:** Cisco 300 Series Switches include embedded QoS intelligence to prioritize delay-sensitive services such as voice and video, simplify unified communications deployments, and

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help ensure consistent network performance for all services. For example, automated voice VLAN capabilities let you plug any IP phone (including third-party phones) into your IP telephony network and receive an immediate dial tone. The switch automatically configures the device with the right VLAN and QoS parameters to prioritize voice traffic.

- **Networkwide Automatic Voice Deployment:** Using a combination of CDP, LLDP-MED, Auto Smartports, and VSDP (Voice Services Discovery Protocol – a unique patent-pending Cisco protocol), customers can deploy an end-to-end voice network dynamically. The switches in the network automatically converge around a single voice VLAN and QoS parameters and then propagate them out to the phones on the ports where they are discovered. For example, automated voice VLAN capabilities let you plug any IP phone (including third-party phones) into your IP telephony network and receive an immediate dial tone. The switch automatically configures the device with the right VLAN and QoS parameters to prioritize voice traffic.
- **Advanced network management capabilities:** As managed switches, the Cisco 300 Series lets you use a variety of advanced features to control traffic over your network. Features include:
  - *Static routing/Layer 3 switching between VLANs:* This capability allows you to segment your network into separate workgroups and communicate across VLANs without degrading application performance. As a result, you can manage internal routing with your switches and dedicate your router to external traffic and security, helping your network run more efficiently.
  - *IPv6 support:* As the IP network addressing scheme evolves to accommodate more devices, you can make sure that your network is ready. The Cisco 300 Series provides native support for IPv6, the newest version of the Internet Protocol, as well as the previous IPv4 standard. As a result, you will be able to move up to the next generation of networking applications and operating systems without an extensive equipment upgrade.
  - *Dual image support:* With the ability to maintain dual images of your switches, you can perform software upgrades without having to take the network offline and without worrying about an outage during an upgrade.
  - *Dual Configuration files support:* Allows configuring the device, validating that it is configured correctly and then saving this configuration to become effective after reboot. Additionally, a mirror configuration file, providing automatic back-up of the latest stable configuration file maximizes network uptime.
  - *Remote management:* Using Simple Network Management Protocol (SNMP), you can set up and manage all switches and other Cisco devices in your network remotely, instead of having to directly connect to them.
  - *Additional management options:* The switches can be fully managed using the Web GUI or using a full command-line interface (CLI).
- **Optimal energy efficiency:** Cisco 300 Series Switches are designed with a variety of power-saving features across all models, providing the industry's broadest portfolio of "green" switches. These switches optimize power use to protect the environment and reduce energy costs, without compromising performance. Power-saving features include:
  - The latest application-specific integrated circuits (ASICs), using low-power 65-nanometer technology (these chipsets allow for lower power consumption and thinner, more efficient designs)
  - Support for the Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption by monitoring the amount of traffic on an active link and putting the link into a sleep state during quiet periods

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- Automatic power shutoff on ports when a link is down
- Embedded intelligence to adjust signal strength based on cable length
- Fanless design in most models, which reduces power consumption, increases reliability, and provides quieter operation
- LEDs can be turned off to conserve power

- **Expansion ports:** The Cisco 300 Series provides more ports per Gigabit Ethernet switch than traditional switch models, giving you more flexibility to connect and empower your business. Gigabit Ethernet models feature 28- and 52-port switches, versus traditional devices that offer 20 or 44 ports with four shared ports giving you more value. The Cisco 300 Series also offers mini gigabit interface converter (mini-GBIC) expansion slots that give you the option to add fiber-optic or Gigabit Ethernet uplink connectivity to the switch. With the ability to increase the connectivity range of the switches, you have more flexibility to design your network around your unique business environment, and to easily connect switches on different floors or across the business.
- **Multiple languages:** The Cisco 300 Series is available in seven languages: English, French, German, Italian, Spanish, Japanese, and simplified Chinese. All product user interfaces and documentation are translated, giving you the ability to select your preferred language.
- **Peace of mind and investment protection:** Cisco 300 Series Switches offer the reliable performance, investment protection, and peace of mind you expect from a Cisco switch. When you invest in the Cisco 300 Series, you gain the benefit of:
  - Cisco limited lifetime warranty with next business day advance replacement (where available)
  - Cisco Small Business Investment Protection program, which lets you upgrade your Cisco 300 Series to another Cisco Small Business or Cisco Catalyst® switch in the future and receive credit for the value of the switch (available only in the United States and Canada)
  - Rigorous testing to help ensure easy integration and compatibility with other Cisco networking and communications products, including the complete Cisco Small Business portfolio
- **Service and Support:** Cisco 300 Series Switches are backed by the Cisco Small Business Support Service, which provides affordable peace-of-mind coverage. This subscription-based service helps you protect your investment and derive maximum value from Cisco Small Business products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates, access to the Cisco Small Business Support Center, and extends technical service to three years.

Cisco Small Business products are supported by professionals in Cisco Small Business Support Center locations worldwide who are specifically trained to understand your needs. The Cisco Small Business Support Community, an online forum, enables you to collaborate with your peers and reach Cisco technical experts for support information.

- **Cisco Limited Lifetime Hardware Warranty:** Cisco 300 Series Switches offer a limited lifetime hardware warranty with next business day advance replacement (where available, otherwise same day ship) and a limited lifetime warranty for fans and power supplies. In addition, Cisco offers software application updates for bug fixes for the warranty term, and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: www.cisco.com/cisco/web/download/index.html.

Product warranty terms and other information applicable to Cisco products are available at www.cisco.com/go/warranty.

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Product Specifications

Table 1 gives the product specifications for the Cisco 300 Series Switches.

Table 1. Product Specifications

Feature	Description		
Performance			
Switching capacity and forwarding rate	**Model Name**	**Capacity in Millions of Packets per Second (mpps) (64-byte packets)**	**Switching Capacity in Gigabits per Second (Gbps)**
	SF300-08	1.19	1.6
	SF302-08	4.17	5.6
	SF302-08P	4.17	5.6
	SF302-08MP	4.17	5.6
	SF300-24	9.52	12.8
	SF300-24P	9.52	12.8
	SF300-48	13.10	17.6
	SF300-48P	13.10	17.6
	SG300-10	14.88	20.0
	SG300-10P	14.88	20.0
	SG300-10MP	14.88	20.0
	SG300-20	29.76	40.0
	SG300-28	41.67	56.0
	SG300-28P	41.67	56.0
	SG300-52	77.38	104.0
Layer 2 Switching			
Spanning Tree Protocol (STP)	Standard 802.1d Spanning Tree support Fast convergence using 802.1w (Rapid Spanning Tree [RSTP]), enabled by default 16 instances are supported Multiple Spanning Tree instances using 802.1s (MSTP)		
Port grouping	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Up to 8 groups • Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation		
VLAN	Support for up to 4096 VLANs simultaneously Port-based and 802.1Q tag-based VLANs MAC-based VLAN Management VLAN Private VLAN Edge (PVE), also known as protected ports, with multiple uplinks Guest VLAN Unauthenticated VLAN Dynamic VLAN assignment via Radius server along with 802.1x client authentication Protocol-based VLAN CPE VLAN		
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS Auto voice capabilities deliver network-wide zero touch deployment of voice endpoints and call control devices.		
Multicast TV VLAN	Multicast VLAN used for video applications (Also known as MVR)		
Q-in-Q VLAN	VLANs transparently cross a service provider network while isolating traffic among customers		
Generic VLAN Registration Protocol (GVRP)/Generic Attribute Registration Protocol (GARP)	Protocols for automatically propagating and configuring VLANs in a bridged domain		

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Feature	Description
Dynamic Host Configuration Protocol (DHCP) Relay at Layer 2	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82
Internet Group Management Protocol (IGMP) versions 1, 2, and 3 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1K multicast groups (source-specific multicasting is also supported)
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router.
Head-of-line (HOL) blocking	HOL blocking prevention
Jumbo Frames	Up to 10K in length
Layer 3	
IPv4 routing	Wirespeed routing of IPv4 packets Up to 32 static routes and up to 32 IP interfaces
Classless Inter-Domain Routing (CIDR)	Support for CIDR
DHCP relay at Layer 3	Relay of DHCP traffic across IP domains
User Datagram Protocol (UDP) relay	Relay of broadcast information across Layer 3 domains for application discovery or relaying of BootP/DHCP packets
Security	
Secure Shell (SSH) Protocol	SSH is a secure replacement for Telnet traffic. SCP also uses SSH. SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	SSL support; Encrypts all HTTPS traffic, allowing highly secure access to the browser-based management GUI in the switch
IEEE 802.1X (Authenticator role)	802.1X: RADIUS authentication and accounting, MD5 hash; guest VLAN; unauthenticated VLAN; single/multiple host mode and single/multiple sessions Supports time-based 802.1X Dynamic VLAN assignment
STP Bridge Protocol Data Unit (BPDU) Guard	A security mechanism to protect the network from invalid configurations. A port enabled for BPDU Guard is shut down if a BPDU message is received on that port
STP Root Guard	Prevents a port from being selected as a root port, effectively preventing bridges in the LAN segment connected to the port from being a root bridge.
DHCP snooping	Filters out DHCP messages with unregistered IP addresses and/or from unexpected or untrusted interfaces. This prevents rogue devices from behaving as a DHCP Server.
IP Source Guard (IPSG)	When IP Source Guard is enabled at a port, the switch filters out IP packets received from the port if the source IP addresses of the packets have not been statically configured or dynamically learned from DHCP snooping. This prevents IP Address Spoofing.
Dynamic ARP Inspection (DAI)	The switch discards ARP packets from a port if there is no static or dynamic IP/MAC bindings or if there is a discrepancy between the source or destination address in the ARP packet. This prevents man-in-the-middle attacks.
IP/Mac/Port Binding (IPMB)	The features (DHCP Snooping, IP Source Guard, and Dynamic ARP Inspection) above work together to prevent DOS attacks in the network, thereby increasing network availability
Secure Core Technology (SCT)	Ensures that the switch will receive and process management and protocol traffic no matter how much traffic is received
Secure Sensitive Data (SSD)	A mechanism to manage sensitive data (such as passwords, keys, etc) securely on the switch, populating this data to other devices, and secure autoconfig. Access to view the sensitive data as plaintext or encrypted is provided according to the user configured access level and the access method of the user.
Layer 2 isolation Private VLAN Edge (PVE) with community VLAN	PVE (also known as protected ports) provides Layer 2 isolation between devices in the same VLAN, supports multiple uplinks
Port security	Locks MAC addresses to ports, and limits the number of learned MAC addresses
RADIUS/TACACS+	Supports RADIUS and TACACS authentication. Switch functions as a client
Storm control	Broadcast, multicast, and unknown unicast
RADIUS accounting	The RADIUS accounting functions allow data to be sent at the start and end of services, indicating the amount of resources (such as time, packets, bytes, and so on) used during the session.
DoS prevention	DoS attack prevention
Congestion avoidance	A TCP congestion avoidance algorithm is required to minimize and prevent global TCP loss synchronization.

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Feature	Description
ACLs	Support for up to 512 rules Drop or rate limit based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP)/IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag, Time-based ACLs supported
Quality of Service	
Priority levels	4 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service (802.1p/CoS)
Class of service	Port based; 802.1p VLAN priority based; IPv4/v6 IP precedence/type of service (ToS)/DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS
Rate limiting	Ingress policer; egress shaping and rate control; per VLAN, per port, and flow based
Standards	
Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1D (STP, GARP, and GVRP),IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 879, RFC 896, RFC 826, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 922, RFC 920, RFC 950, RFC 951, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1350, RFC 1533, RFC 1541, RFC 1542, RFC 1624, RFC 1700, RFC 1867, RFC 2030, RFC 2616, RFC 2131, RFC 2132, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2576, RFC 4330, RFC 1213, RFC 1215, RFC 1286, RFC 1442, RFC 1451, RFC 1493, RFC 1573, RFC 1643, RFC 1757, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819, RFC 2863, RFC 1157, RFC 1493, RFC 1215, RFC 3416
IPv6	
IPv6	IPv6 host mode IPv6 over Ethernet Dual IPv6/IPv4 stack IPv6 neighbor and router discovery (ND) IPv6 stateless address auto-configuration Path maximum transmission unit (MTU) discovery Duplicate address detection (DAD) ICMP version 6 IPv6 over IPv4 network with Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) support USGv6 and IPv6 Gold Logo certified
IPv6 QoS	Prioritize IPv6 packets in hardware
IPv6 ACL	Drop or rate limit IPv6 packets in hardware
Multicast Listener Discovery (MLD) snooping	Deliver IPv6 multicast packets only to the required receivers
IPv6 applications	Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog, DNS client, protocol-based VLANs
IPv6 RFCs supported	RFC 2463 – ICMP version 6 RFC 3513 – IPv6 address architecture RFC 4291 – IPv6 addressing architecture RFC 2460 – IPv6 specification RFC 2461 – Neighbor discovery for IPv6 RFC 2462 – IPv6 stateless address auto-configuration RFC 1981 – Path MTU discovery RFC 4007 – IPv6 scoped address architecture RFC 3484 – Default address selection mechanism RFC 4214 – ISATAP tunneling RFC 4293 – MIB IPv6: Textual conventions and general group RFC 3595 – Textual conventions for IPv6 flow label

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Feature	Description	
Management		
Web user interface	Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring	
SNMP	SNMP versions 1, 2c, and 3 with support for traps, and SNMP version 3 user-based security model (USM)	
Standard MIBs	BRIDGE-MIB DIFFSERV-DSCP-TC DIFF-SERV-MIB DISMAN-NSLOOKUP-MIB DISMAN-PING-MIB DISMAN-TRACEROUTE-MIB DNS-RESOLVER-MIB DNS-SERVER-MIB DRAFT-IETF-SYSLOG-DEVICE-MIB ENTITY-MIB ENTITY-SENSOR-MIB EtherLike-MIB EtherLike-MIB IANA-ADDRESS-FAMILY-NUMBERS-MIB IANAIfType-MIB IANA-RTPROTO-MIB IEEE8021-PAE-MIB IEEE9023-LAG-MIB IF-MIB INET-ADDRESS-MIB IP-FORWARD-MIB IP-MIB IP-MIB LLDP-EXT-DCBX-MIB.mib LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-EXT-MED-MIB LLDP-MIB MAU-MIB OSPF-MIB OSPF-TRAP-MIB P-BRIDGE-MIB	POWER-ETHERNET-MIB Q-BRIDGE-MIB Q-BRIDGE-MIB RADIUS-ACC-CLIENT-MIB RADIUS-AUTH-CLIENT-MIB RFC1155-SMI RFC-1212 RFC1213-MIB RFC-1215 RFC1389-MIB RMON2-MIB RMON-MIB RSTP-MIB SMON-MIB SNMP-COMMUNITY-MIB SNMP-FRAMEWORK-MIB SNMP-MPD-MIB SNMP-NOTIFICATION-MIB SNMP-PROXY-MIB SNMP-TARGET-MIB SNMP-USER-BASED-SM-MIB SNMPv2-CONF SNMPv2-MIB SNMPv2-MIB SNMPv2-SMI SNMPv2-TC SNMPv2-TM SNMP-VIEW-BASED-ACM-MIB TCP-MIB TUNNEL-MIB UDP-MIB
Private MIBs	CISCO-CDP-MIB CISCO-SMI CISCO-TC CISCO-VTP-MIB CISCOSB-1-BONJOUR-SERVICE-MIB CISCOSB-3SW2SWTABLES-MIB CISCOSB-AAA CISCOSB-BANNER-MIB CISCOSB-BaudRate-MIB CISCOSB-BONJOUR-MIB CISCOSB-BRGMACSWITCH-MIB CISCOSB-BRIDGEMIBOBJECTS-MIB CISCOSB-BRIDGE-SECURITY CISCOSB-CDB-MIB CISCOSB-CDP-MIB CISCOSB-CLI-MIB CISCOSB-COPY-MIB CISCOSB-CPU-COUNTERS-MIB CISCOSB-DEBUGCAPABILITIES-MIB CISCOSB-DEVICEPARAMS-MIB	CISCOSB-MNGINF-MIB CISCOSB-MULTISESSIONTERMINAL-MIB CISCOSB-PHY-MIB CISCOSB-Physicaldescription-MIB CISCOSB-POE-MIB CISCOSB-POLICY-MIB CISCOSB-ProtectedPorts-MIB CISCOSB-QOS-CLI-MIB CISCOSB-rlBrgMcMngr-MIB CISCOSB-rlBrgMulticast-MIB CISCOSB-rlFft CISCOSB-rlInterfaces CISCOSB-rlLcli-MIB CISCOSB-RMOB CISCOSB-rndApplications CISCOSB-rndMng CISCOSB-SCT-MIB CISCOSB-SECURITY-SUITE CISCOSB-SENSORENTMIB CISCOSB-SMARTPORTS-MIB

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Feature	Description	
	CISCOSB-DHCPCL-MIB	CISCOSB-SMON-MIB
	CISCOSB-DHCP-MIB	CISCOSB-SNMP-MIB
	CISCOSB-Dir-MIB	CISCOSB-SOCKET-MIB
	CISCOSB-DNSCL-MIB	CISCOSB-SpecialBpdu-MIB
	CISCOSB-DOT1X-MIB	CISCOSB-SSH-MIB
	CISCOSB-EEE-MIB	CISCOSB-SSL
	CISCOSB-EMBWEB-MIB	CISCOSB-STORMCTRL-MIB
	CISCOSB-ENDOFMIB-MIB	CISCOSB-SYSLOG-MIB
	CISCOSB-ERRDISABLE-RECOVERY-MIB	CISCOSB-SYSMNG-MIB
	CISCOSB-EVENTS-MIB	CISCOSB-TBI-MIB
	CISCOSB-File	CISCOSB-TCPSESSIONS
	CISCOSB-GREEN-MIB	CISCOSB-TELNET-MIB
	CISCOSB-GVRP-MIB	CISCOSB-TIMESYNCHRONIZATION-MIB
	CISCOSB-HWENVIROMENT	CISCOSB-TRACEROUTE-MIB
	CISCOSB-IP	CISCOSB-TRAPS-MIB
	CISCOSB-IpRouter	CISCOSB-TRUNK-MIB
	CISCOSB-IPv6	CISCOSB-TUNNEL-MIB
	CISCOSB-JUMBOFRAMES-MIB	CISCOSB-Tunning
	CISCOSB-LLDP-MIB	CISCOSB-UDP
	CISCOSB-LOCALIZATION-MIB	CISCOSB-vlan-MIB
	CISCOSB-MAC-BASE-PRIO	CISCOSB-vlanVoice-MIB
	CISCOSB-MIB	CISCOSB-WeightedRandomTailDrop-MIB
	CISCOSB-MIR-MIB	CISCOSMB-MIB
Remote Monitoring (RMON)	Embedded RMON software agent supports 4 RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis	
IPv4 and IPv6 dual stack	Coexistence of both protocol stacks to ease migration	
Firmware upgrade	• Web browser upgrade (HTTP/HTTPS) and TFTP • Upgrade can be initiated through console port as well • Dual images for resilient firmware upgrades	
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 8 source ports can be mirrored to one destination port. A single session is supported.	
VLAN mirroring	Traffic from a VLAN can be mirrored to a port for analysis with a network analyzer or RMON probe. Up to 8 source VLANs can be mirrored to one destination port. A single session is supported.	
DHCP (Options 12, 66, 67, 82, 129, and 150)	DHCP Options facilitate lighter control from a central point (DHCP server) to obtain IP address, auto-configuration (with configuration file download), DHCP relay, and hostname	
Secure Copy (SCP)	Securely transfer files to and from the switch.	
Autoconfiguration with Secure Copy (SCP) file download	Enables secure mass deployment with protection of sensitive data.	
Text-editable config files	Config files can be edited with a text editor and downloaded to another switch, facilitating easier mass deployment	
Smartports	Simplified configuration of QoS and security capabilities	
Auto Smartports	Applies the intelligence delivered through the Smartport roles and applies it automatically to the port based on the devices discovered over CDP or LLDP-MED. This facilitates zero touch deployments.	
Textview CLI	Scriptable command-line interface. A full CLI as well as a menu-based CLI is supported	
Cloud services	Support for Cisco Small Business FindIT Network and Cisco OnPlus	
Localization	Localization of GUI and documentation into multiple languages.	
Other management	Traceroute; single IP management; HTTP/HTTPS; SSH; RADIUS; port mirroring; TFTP upgrade; DHCP client; BOOTP; SNTP; Xmodem upgrade; cable diagnostics; ping; syslog; Telnet client (SSH secure support)	
Time-based port operation	Link up or down based on user-defined schedule (when the port is administratively up).	
Login banner	Configurable login banners for web as well as CLI.	

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Feature	Description
Power Efficiency	
EEE Compliant (802.3az)	Supports 802.3az on all copper ports (SG300 models).
Energy Detect	Automatically turns off power off on Gigabit Ethernet and 10/100 RJ-45 port when detecting link down Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length for Gigabit Ethernet models. Reduces the power consumption for cables shorter than 10m.
Disable port LEDs	LEDs can be manually turned off to save on Energy
General	
Jumbo frames	Frame sizes up to 10 KB supported on 10/100 and Gigabit interfaces
MAC table	Up to 16000 MAC addresses
Discovery	
Bonjour	The switch advertises itself using the Bonjour protocol.
Link Layer Discovery Protocol (LLDP) (802.1ab) with LLDP-MED extensions	LLDP allows the switch to advertise its identification, configuration, and capabilities to neighboring devices that store the data in a MIB. LLDP-MED is an enhancement to LLDP that adds the extensions needed for IP phones.
Cisco Discovery Protocol	The switch advertises itself using the Cisco Discovery Protocol.
Power over Ethernet (PoE)	
IEEE 802.3af PoE delivered over any of the RJ-45 ports within the listed power budgets	Maximum power of 15.4W to any 10/100 or Gigabit Ethernet base port. The total power available for PoE per switch is as follows:

Model Name	Power Dedicated to PoE	Number of Ports That Support PoE
SF302-08P	62W	8
SF302-08MP	124W	8
SF300-24P	180W	24
SF300-48P	375W	48
SG300-10P	62W	8
SG300-10MP	124W	8
SG300-28P	180W	24

Power consumption

Model Name	Power Savings Mode	System Power Consumption	Power Consumption: Case (with POE)	Heat Dissipation Worst Case (BTU/hr)
SF300-08	Energy Detect	110V=6.1W 220V=7.2W	N/A	24.57
SF302-08	Energy Detect	110V=8.6W 220V=8.6W	N/A	29.34
SF302-08P	Energy Detect	110V=10.3W 220V=11.5W	110V=81.3W 220V=82.1W	280.13
SF302-08MP	Energy Detect	110V=9.5W 220V=10.3W	110V=150.1W 220V=149.9W	512.14
SF300-24	Energy Detect	110V=16.4W 220V=17.1W	N/A	58.35
SF300-24P	Energy Detect	110V=25.9W 220V=27.3W	110V=223W 220V=217.9W	760.88
SF300-48	Energy Detect	110V=24W 220V=24.8W	N/A	84.62
SF300-48P	Energy Detect	110V=46.4W 220V=48.3W	110V=465W 220V=449W	1531.99
SG300-10	Energy Detect Short Reach	110V=10.33W 220V=10.27W	N/A	35.25
SG300-10P	Energy Detect Short Reach	110V=13.13W 220V=13.48W	110V=81.44W 220V=81.16W	277.87

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Feature	Description				
	SG300-10MP	Energy Detect Short Reach	110V=12.21W 220V=12.25W	110V=154.36W 220V=152.42W	526.68
	SG300-20	Energy Detect Short Reach	110V=16.05W 220V=16.26W	N/A	55.48
	SG300-28	Energy Detect Short Reach	110V=19.8W 220V=20.6W	N/A	70.29
	SG300-28P	Energy Detect Short Reach	110V=29.7W 220V=30.7W	110V=214.4W 220V=210W	731.53
	SG300-52	Energy Detect Short Reach	110V=45.9W 220V=45.3W	N/A	156.61

Ports	Model Name	Total System Ports	RJ-45 Ports	Combo Ports (RJ-45 + SFP)
	SG300-20	20 Gigabit Ethernet	18 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-28	28 Gigabit Ethernet	26 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-28P	28 Gigabit Ethernet	26 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-52	52 Gigabit Ethernet	50 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-24	24 Fast Ethernet + 4 Gigabit Ethernet	24 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-24P	24 Fast Ethernet + 4 Gigabit Ethernet	24 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-48	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-48P	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10P	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10MP	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-08	8 Fast Ethernet	8 Fast Ethernet	N/A
	SF302-08	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF302-08P	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF302-08MP	8 Fast Ethernet + 2Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
Buttons	Reset button			
Cabling type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; UTP Category 5 Ethernet or better for 1000BASE-T			
LEDs	System, Link/Act, PoE, Speed, LED power saving option			
Flash	16 MB			
CPU memory	128 MB			

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Feature	Description			
Packet buffer	All numbers are aggregate across all ports as the buffers are dynamically shared:			
	Model Name	**Packet Buffer**		
	SG300-20	8 Mb		
	SG300-10	8 Mb		
	SG300-10P	8 Mb		
	SG300-10MP	8 Mb		
	SF300-08	8 Mb		
	SF302-08	8 Mb		
	SF302-08P	8 Mb		
	SF302-08MP	8 Mb		
	SG300-28	8 Mb		
	SG300-28P	8 Mb		
	SG300-52	8 Mb*2		
	SF300-24	8 Mb		
	SF300-24P	8 Mb		
	SF300-48	8 Mb*2		
	SF300-48P	8 Mb*2		
Supported SFP modules	**SKU**	**Media**	**Speed**	**Typical Distance**
	MFEFX1	Multimode fiber	100 Mbps	2 km
	MFELX1	Single-mode fiber	100 Mbps	10 km
	MFEBX1	Single-mode fiber	100 Mbps	20 km
	MGBBX1	Single-mode fiber	1000 Mbps	40 km
	MGBSX1	Multimode fiber	1000 Mbps	300 m
	MGBLH1	Single-mode fiber	1000 Mbps	40 km
	MGBLX1	Single-mode fiber	1000 Mbps	10 km
	MGBT1	UTP cat 5	1000 Mbps	100 m
Environmental				
Dimensions (W x H x D)	SF300-08, SF302-08, SF302-08P, SF302-08MP, SG300-10, SG300-10P, SG300-10MP 11 x 1.45 x 6.7 in. (279.4 x 44.45 x 170 mm) SG300-20 17.3 x 1.45 x 7.97 in. (440 x 44.45 x 202.5 mm) SF300-24, SF300-24P, SF300-48, SG300-28, SG300-28P, SG300-52 17.3 x 1.45 x 10.1 in. (440 x 44.45 x 257 mm) SF300-48P 17.3 x 1.45 x 13.78 in. (440 x 44.45 x 350 mm)			
Unit weight	SF300-08: 2.56 lb (1.16 kg) SF302-08: 2.6 lb (1.18 kg) SF302-08P: 2.67 lb (1.21 kg) SF302-08MP: 2.67 lb (1.21 kg) SG300-10: 2.56 lb (1.16 kg) SG300-10P: 2.73 lb (1.24 kg) SG300-10MP: 2.73 lb (1.24 kg) SG300-20: 4.78 lb (2.17 kg) SF300-24: 6.81 lb (3.09 kg) SF300-24P: 8.22 lb (3.73 kg) SF300-48: 7.47 lb (3.39 kg) SF300-48P: 12.94 lb (5.87 kg) SG300-24: 7.23 lb (3.28 kg) SG300-24P: 9.06 lb (4.11 kg) SG300-52 : 8.62 lb (3.91 kg)			
Power	100-240V 47-63 Hz, internal, universal – SF300-24, SF300-24P, SG300-20, SG300-28, SG300-28P, SG300-52 100-240V 50-60 Hz, 0.5A, external – SF300-08, SF302-08, SG300-10 100-240V 50-60 Hz, 2A, external – SF302-08P, SG300-10P 100-240V 50-60 Hz, 2.5A, external – SF302-08MP, SG300-10MP			

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Feature	Description			
Certification	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A			
Operating temperature	32°to 104°F (0°to 40°C)			
Storage temperature	–4°to 158°F (–20°to 70°C)			
Operating humidity	10% to 90%, relative, noncondensing			
Storage humidity	10% to 90%, relative, noncondensing			
Acoustic Noise and MTBF	**Model Name**	**FAN (Number)**	**Acoustic Noise**	**MTBF @40C (hr)**
	SG300-20	Fanless	N/A	144,237
	SG300-10	Fanless	N/A	74,294
	SG300-10P	Fanless	N/A	67,009
	SG300-10MP	Fanless	N/A	67,008
	SF300-08	Fanless	N/A	71,006
	SF302-08	Fanless	N/A	69,825
	SF302-08P	Fanless	N/A	65,527
	SF302-08MP	Fanless	N/A	63,569
	SG300-28	Fanless	N/A	179141.0
	SG300-28P	2 pcs	40.6 dB	187334.9
	SG300-52	2 pcs	40.1dB	206005.6
	SF300-24	Fanless	N/A	282775.3
	SF300-24P	2 pcs	41.0 dB	241995.9
	SF300-48	Fanless	N/A	199664.2
	SF300-48P	3 pcs w/ Fan speed control	43.1dB at 30C 54.3dB at 40C	162540.0
Warranty	Limited lifetime with next business day advance replacement (where available)			

Package Contents

- Cisco 300-series Ethernet Switch
- Power Cord (Power Adapter for 8-port SKUs)
- Mounting Hardware
- Serial Cable
- CD-ROM with user documentation (PDF) included
- Quick Start Guide

Minimum Requirements

- Web browser: Mozilla Firefox version 2.5 or later; Microsoft Internet Explorer version 6 or later
- Category 5 Ethernet network cable
- TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in the network

Ordering Information

Table 2 provides ordering information for the Cisco 300 Series Switches.

Table 2. Cisco 300 Series Switches Ordering Information

Model Name	Order Product ID Number	Description
Fast Ethernet		
SF300-08	SRW208-K9	• 8 10/100 ports

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Model Name	Order Product ID Number	Description
SF302-08	SRW208G-K9	• 8 10/100 ports • 2 combo* mini-GBIC ports
SF302-08P	SRW208P-K9	• 8/10/100 PoE ports • 2 combo mini-GBIC ports
SF302-08MP	SRW208MP-K9	• 8 10/100 Maximum PoE ports • 2 combo mini-GBIC ports
SF300-24	SRW224G4-K9	• 24 10/100 ports • 2 10/100/1000 ports • 2 combo mini-GBIC ports
SF300-24P	SRW224G4P-K9	• 24 10/100 PoE ports • 2 10/100/1000 ports • 2 combo mini-GBIC ports
SF300-48	SRW248G4-K9	• 48 10/100 ports • 2 10/100/1000 ports • 2 combo mini-GBIC
SF300-48P	SRW248G4P-K9	• 48 10/100 PoE ports • 2 10/100/1000 ports • 2 combo mini-GBIC ports
Gigabit Ethernet		
SG300-10	SRW2008-K9	• 8 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-10P	SRW2008P-K9	• 8 10/100/1000 PoE ports • 2 Combo mini-GBIC ports
SG300-10MP	SRW2008MP-K9	• 8 10/100/1000 Maximum PoE ports • 2 combo mini-GBIC ports
SG300-20	SRW2016-K9	• 16 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-28	SRW2024-K9	• 26 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-28P	SRW2024P-K9	• 26 10/100/1000 PoE ports • 2 combo mini-GBIC ports
SG300-52	SRW2048-K9	• 50 10/100/1000 ports • 2 combo mini-GBIC ports

*Each combo mini-GBIC port has one 10/100/1000 Ethernet port and one mini-GBIC/SFP Gigabit Ethernet slot, with one port active at a time.

Table 3. Service and Support Ordering Information

Service Ordering Number	Description
CON-SBS-SVC2	3 years support, software updates, Small Business Support Center access via online, telephone, or community, next business day advanced replacement

Table 4. MFE and MGE Transceiver Ordering Information

MFE Transceivers	
MFEBX1	100BASE-BX-20U SFP transceiver for single-mode fiber, 1310 nm wavelength, support up to 20 km
MFELX1	100BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 2 km
MFEFX1	100BASE-FX SFP transceiver, for multimode fiber, 1310 nm wavelength, support up to 10 km
MGE Transceivers	
MGBBX1	1000BASE-BX-20U SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 40 km
MGBLH1	1000BASE-LH SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 40 km
MGBLX1	1000BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 10 km
MGBSX1	1000BASE-SX SFP transceiver, for multimode fiber, 850 nm wavelength, support up to 550 m

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A Powerful, Affordable Foundation for Your Small Business Network

As you strive to make your employees as productive and effective as possible, your business applications and information – and the network that delivers them – become an ever more vital part of your business. You need a technology foundation that can meet your business's needs today and in the future, and that delivers the right feature set at the right price. The Cisco 300 Series portfolio of managed switches provides the reliability, performance, security, and capabilities you need to power your business.

For More Information

To find out more about the Cisco 300 Series, visit www.cisco.com/go/300switches.

To learn about other products and solutions in the Cisco Small Business portfolio, visit www.cisco.com/go/smallbusiness.

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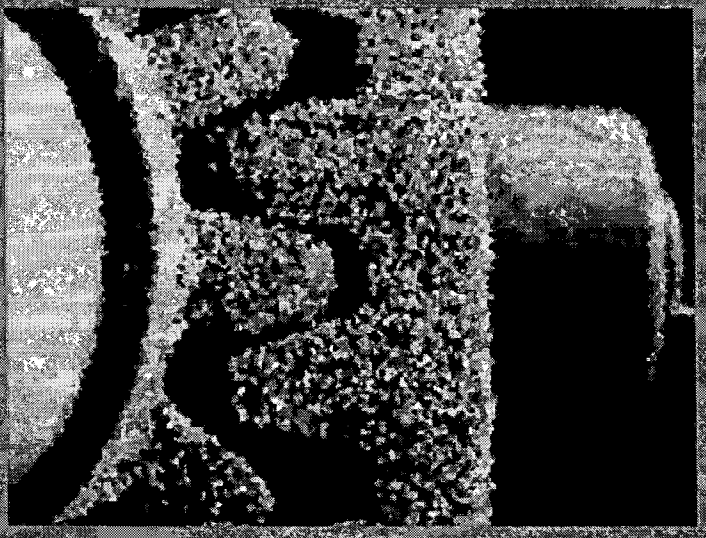
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traxcone cue



The e:bus system

User Manual

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Introduction

This document gives a short introduction to the e:bus system. e:bus is a bus system developed by Traxon Technologies Europe for secure, bi-directional and fast system link between e:bus enabled user terminals.

Advantages of the e:bus system

The e:bus networking platform offers several features for a simple installation and great reliability in real installations.

- e:bus is a self-organizing network. This simplifies configuration by a plug & play - like behaviour. The addressing happens automatically.
- Link power. User interfaces are directly powered over e:bus. Fewer wires make the hardware installation much easier.
- The connections are a very reliable and a stable communication basis with polarity-independant wiring.

At the end of this document, you can find a short comparison of e:bus with DALI and DMX based communication.

General information

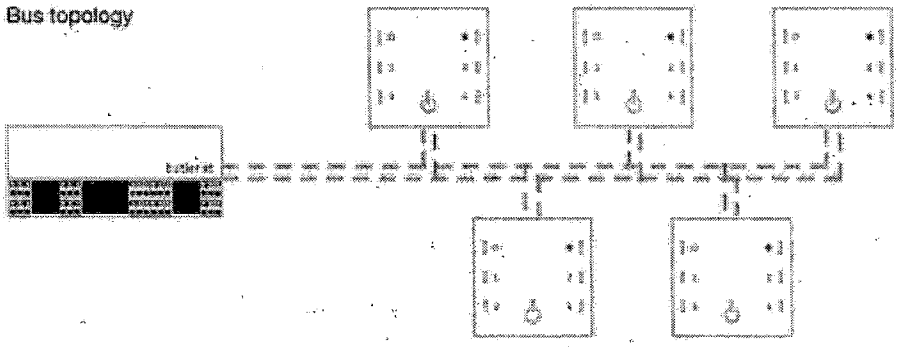
- Up to eight devices can be connected to the e:bus, organized by an additional master device.
- Free topology architecture allows the devices to be connected in combination of star, bus and tree structures.
- e:bus is designed for cable lengths of up to 400 meters, depending on cable type, topology and number of connected devices. A bus topology allows the largest cable length.
- Interfaces are powered via e:bus.
- Interfaces will be automatically registered and addressed.
- Defective units will not affect the communication between other devices.
- The maximum supply current of the Butler XT is 800 mA. All devices in one e:bus segment may not draw more than 800 mA in total.
- A maximum of two e:cue Glass Touchscreens is allowed.



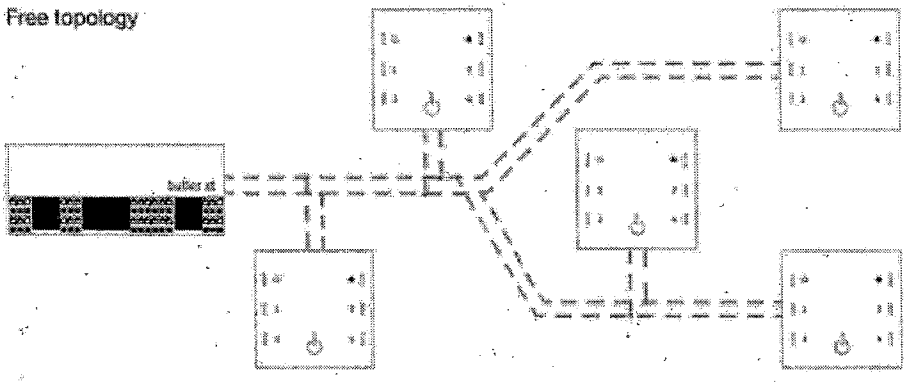
To remove an e:bus client it is not sufficient to just disconnect it. The Butler XT will try to poll it and ignores another device, connected in place. Instead, remove the client in the Programmer's Device Manager and run a Quick Update. Now the Butler XT will recognize another/new device.

Possible bus topologies

Bus topology



Free topology

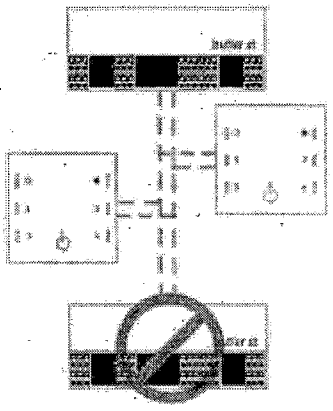


Wiring

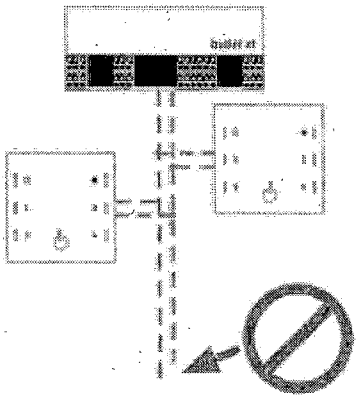
The e:bus is a 2-wire bus system using screw terminal connectors to attach the wires safely and robust. The wiring between the devices is extremely flexible. In addition to the free topology design, you do not need to pay attention to polarities. As long as the two e:bus connectors of a user terminal are connected to the master unit's connectors, regardless if a cable goes from + to + or from + to -, everything will work fine. The two e:bus connectors of a user terminal can be connected to the master unit's connectors either way. The terminal devices will recognize the polarity on their own and configure themselves the proper way.

Invalid configurations

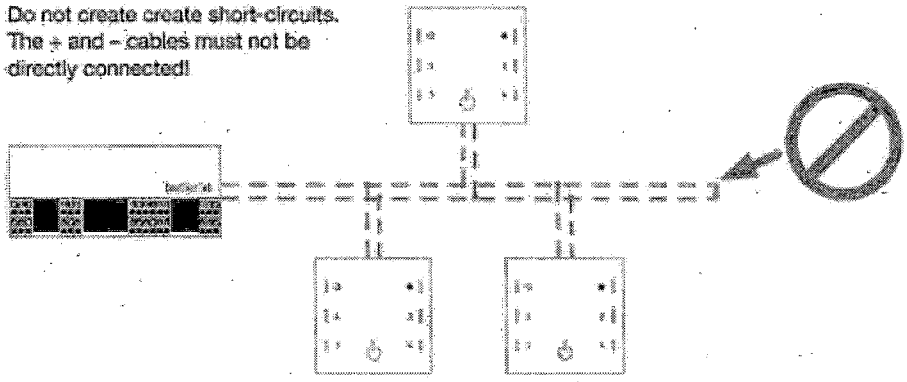
Do not add a second master to an e:bus network!



Do not leave any wires open! Open wires will cause signal reflections and therefore disrupt communication.



Do not create create short-circuits. The + and – cables must not be directly connected!



Cable types and lengths

Cable types

The maximum cable length is greatly dependent on device count, topology and cable types as well. Approved cable types for e:bus are AWG 16 (1.3 mm/0.051") twisted pair and AWG 24 (0.511 mm/0.02") Cat5 cables. The following table shows valuable key facts:

General run lengths

device count	AWG 16 (1,3 mm / 0.051") Twisted-Pair Cable		AWG 24 (0,511 mm / 0.02") Cat5 Cable	
	bus topology	free topology	bus topology	free topology
1	400 m/1312 feet	100 m/328 feet	400 m/1312 feet	100 m/328 feet
2	400 m/1312 feet	100 m/328 feet	268 m/879 feet	100 m/328 feet
4	400 m/1312 feet	100 m/328 feet	133 m/436 feet	100 m/328 feet
6	400 m/1312 feet	100 m/328 feet	88 m/288 feet	82 m/269 feet
8	400 m/1312 feet	100 m/328 feet	66 m/216 feet	61 m/200 feet

Special cabling conditions

Glass Touchscreen

For the Glass Touchscreen the values above are not valid. Instead, watch these requirements:

- Use 2 x 0.5 sqmm
- Use a direct connection from Butler XT to Glass Touchscreen, no branching.
- Maximum cable length is 100 m.

e:bus, DALI and DMX

DALI

Digital Addressable Lighting Interface (DALI) is a standard for control lighting in buildings. It was established as a successor for 0 ... 10 V lighting control systems, and as an open standard alternative to Digital Signal Interface (DSI), on which it is based. The DALI standard, which is specified in the IEC 60929 standard for fluorescent lamp ballasts, encompasses the communications protocol and electrical interface for lighting control networks.

DMX

DMX512 (Digital Multiplex) is a standard for digital communication networks to control stage lighting and effects such as fog machines and moving lights. DMX512 employs EIA-485 differential signaling at its physical layer, in conjunction with a variable-size, packet based communication protocol at 250kBit/s. It is unidirectional and does not include automatic error checking and correction. DMX is the most used connection type in lighting control.

Feature	e:bus	DALI	DMX
Includes protocol	Y	Y	Y
Self-organizing network	Y	-	-
Free topology wiring	Y	Y	-
Link power	Y	-	-
Polarity-insensitive	Y	-	-
High-Speed signaling	Y	-	Y

Calendar Related Themes:

- MLK Day - (peace signs or people holding hands, MLK face, I have a dream)
- Presidents Day - (American flag)
- Valentine's Day - (hearts)
- Mardi Gras - (fleur de lis, hats, masks, balloons in purple, green and yellow)
- Daylight Saving Time Starts – (clock)
- St. Patrick's Day - (four leaf clover, Irish flag in orange, white, and green)
- First day of Spring – (leaves in green and flowers)
- Earth Hour – Saturday, (turn off lights for one hour. Prior to and before, use a globe)
- Easter - (bunnies, eggs, and chicks in pastel colors)
- Earth Day – (globe)
- Cinco de Mayo – (sombreros, Mexican flag in green, White, and red)
- Mother's Day – (flowers, hearts)
- Armed Forces Day – (American flag)
- Memorial Day – (American flag)
- Flag Day – (American flag)
- Father's Day – (bowtie, hearts, moustache)
- First Day of Summer – (sunshine, beach balls, flip flops)
- Independence Day – (American flag)
- Labor Day – (American flag)
- September 11 – (American flag)
- First Day of Fall – (leaves in red, brown, and orange)
- Columbus Day – (ship, ocean waves)
- Veterans Day – (American flag)
- Daylight Saving Time Ends – (clock)
- Halloween – (ghost, pumpkin, bats)
- Thanksgiving – (turkey, pumpkin, fall leaves)
- Pearl Harbor Day – (American flag)
- First Day of Winter – (snowflakes)
- Hanukah – (menorah, dreidel)
- Christmas – (Christmas tree, presents, Santa)
- Kwanza – (candles in red, black, and green)
- New Year's Eve – (fireworks)

Colors Themes:

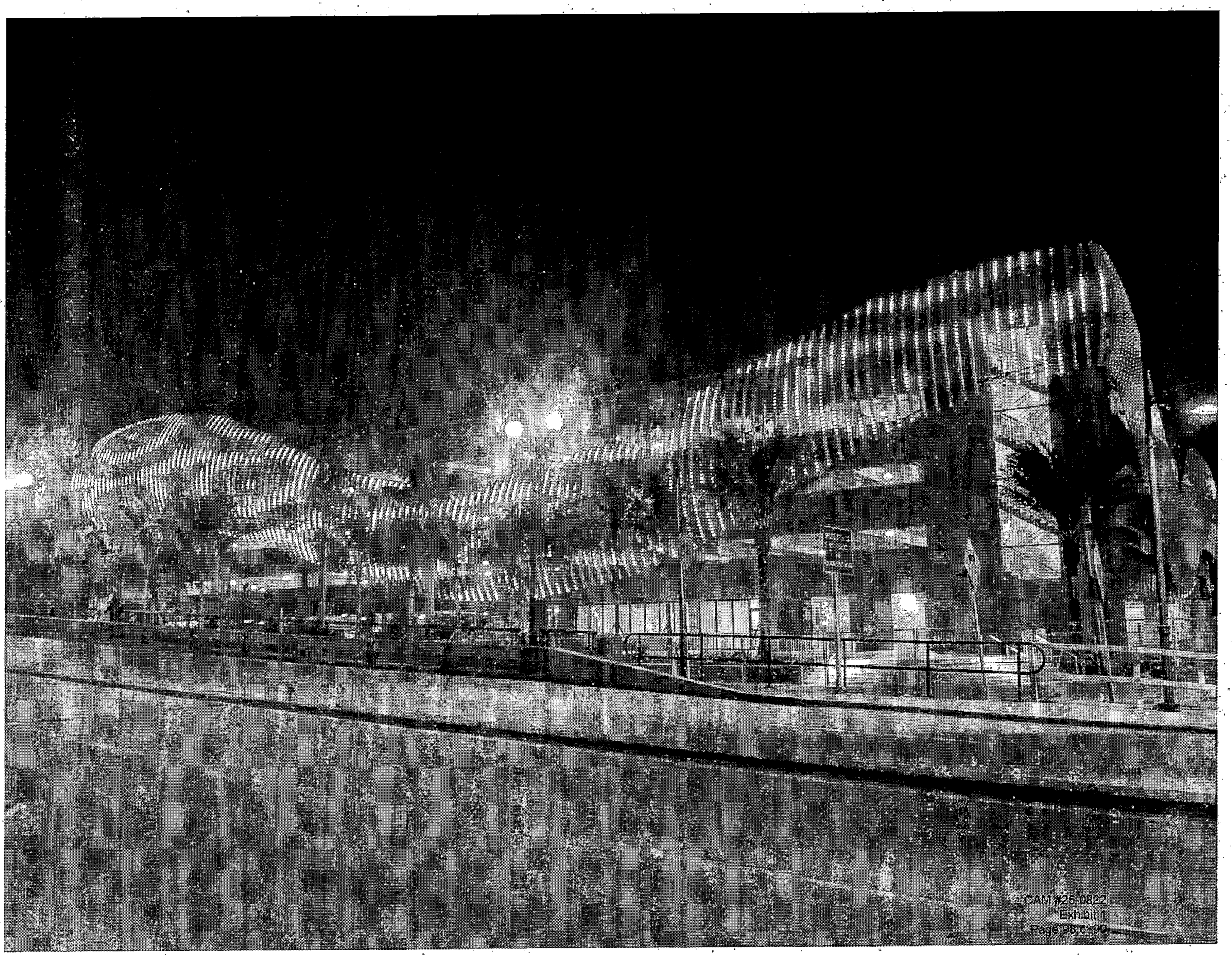
- Red – World AIDS Day
- Orange
- Yellow
- Green
- Blue – World Autism Awareness Day (puzzle pieces)
- Indigo
- Violet / Purple
- Pink – October (Breast Cancer Awareness)
- Gray
- Black
- White

Annual Event Themes:

- Pride Event- (rainbow themes)
- Tortuga Music Festival- (sea turtles, palm trees, fish)
- Air Show (airplanes, stars)
- Great American Beach Party - (beach balls, sunshine, flip flops)
- Boat Show – (waves, boats, anchors)
- Light Up the Beach - (snow man, snow, holiday lights)
- Riptide – (octopus tentacles, mermaid, seashells)
- Winterfest Boat Parade – (boats, snowflakes, holiday lights)
- Fort Lauderdale A1A Marathon, ½ Marathon, 5K, and Kid's Race - (running shoes, runners)
- Las Olas Triathlon – (running, swimming, biking)
- Winterfest Boat Parade – (boats, snowflakes, holiday lights)
- Exotic Car Events

Other Themes:

- Glitter, Sparkles
- Night Skyline (shooting stars, stars, moon)
- Day Skyline (sun, clouds)
- Abstract Patterns
- Sail boats
- Yachts
- City Logo
- Hurricane Evacuation
- Animals
- Transportation (cars, planes, etc)
- Exercise
- Welcome / Thanks for Visiting
- Nightlife
- Palm trees
- Bicycles
- Sun glasses
- Paddle boarding
- Parasailing
- Surfing
- Dolphin



CWA #2200-55
Exhibit 5
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EXHIBIT B

Lumínicos

Proposal Submission

Proposal for Turnkey Dynamic Façade Lighting System

Las Olas Parking Garage Event No. 427

Submitted to:
City of Fort Lauderdale
Procurement Services Division

Submitted by:
The Luminicos, Corp
2125 Biscayne Blvd st 242
Miami, FL 33137
786 780-0606
the@luminicos.com
www.luminicos.com

Primary Contact:
Carlos Molina
CEO
305-363 6497
carlos@luminicos.com

Date:
April 29th, 2025

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CA. BOLOGNESI 180 OF 302
MIRAFLORES, LIMA

EXECUTIVE SUMMARY

The Luminicos, Corp is pleased to submit this proposal in response to the City of Fort Lauderdale's Request for Proposals (Event #427) for the Turnkey Dynamic Façade Lighting System at the Las Olas Parking Garage.

Our team brings together a unique combination of engineering, artistic content design, and technical execution, aiming not just to illuminate the structure, but to transform it into a living, breathing landmark that connects emotionally with residents and visitors alike. The proposed system will integrate seamlessly into the architectural vision initially conceived by Arquitectonica, enhancing the frozen wave gesture of the façade with dynamic lighting that evokes natural movements — from ocean currents to shimmering reflections — creating a sense of life, flow, and wonder.

Our solution has been carefully crafted based on extensive experience in façade lighting and dynamic content integration. To deliver a project of the highest quality and creativity, we have partnered with:

- **Claudia Paz Lighting Studio**, an internationally awarded lighting design firm specialized in creating meaningful urban experiences through dynamic lighting design and content development.
- **DMC Electrical LLC**, a licensed and experienced South Florida electrical contractor specializing in the installation of advanced lighting systems.

Together, we will deliver a turnkey solution that includes design refinement, dynamic content creation, supply of cutting-edge pixel-controlled lighting fixtures, installation, programming, commissioning, and a full first year of maintenance services.

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Our proposal fully complies with the City's technical requirements, including use of UL/ETL-certified fixtures, compliance with FCC electromagnetic compatibility standards, resilience to marine environments, and robust, scalable control systems based on Art-Net and SPI protocols. Additionally, all tariffs applicable as of the proposal date have been incorporated into our pricing, and any future tariff reductions will be fully passed on to the City through corresponding price adjustments.

We are excited about the opportunity to contribute to Fort Lauderdale's iconic skyline and look forward to partnering with the City to bring this innovative vision to life.

Sincerely,



Carlos Molina
CEO
The Luminicos, Corp

Company Overview

From our offices in Miami and Lima, and with over 15 years of experience in the architectural lighting market, Luminicos is a full-service architectural lighting studio specializing in expert design, product specification, and installation—delivering innovative, tailored lighting solutions that shape and elevate our built environments.

Our mission is to seamlessly align design with budget, while providing unwavering support and expert oversight at every stage of each project.

For the Las Olas Garage Lighting Façade project, Luminicos has partnered with Claudia Paz Lighting Studio, a multi-award-winning firm led by Claudia Paz, a member of the International Association of Lighting Designers (IALD) and a Certified Lighting Designer (CLD). A highly creative studio, Claudia Paz Lighting Studio is renowned for crafting immersive experiences that merge light, art, technology, and interaction. Their work transcends functional illumination to create emotional and memorable spaces that deeply resonate with users and communities.

Together, Luminicos and Claudia Paz Lighting Studio bring a unique synergy of technical expertise, artistic vision, and proven project execution. Our combined team is dedicated to transforming the Las Olas Garage into an iconic landmark through dynamic, experiential lighting design.

Company Overview

LUMINICOS MIAMI OFFICE

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CLAUDIA PAZ LIGHTING STUDIO LIMA OFFICE

Claudia Paz Diseño y Luz E.I.R.L

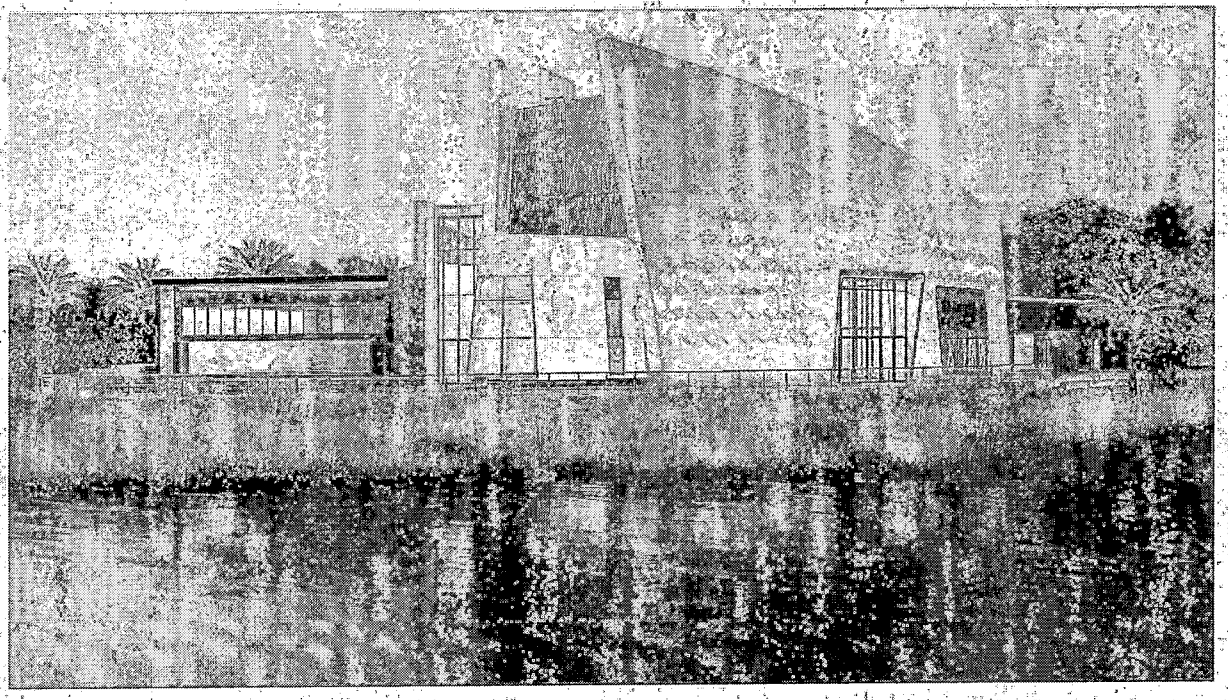
Jr Jose Sabogal 196, Lima, Peru

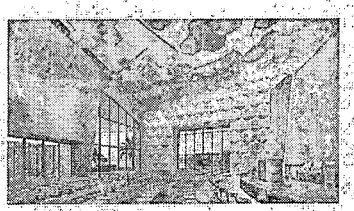
Email: claudia@claudiapaz.com

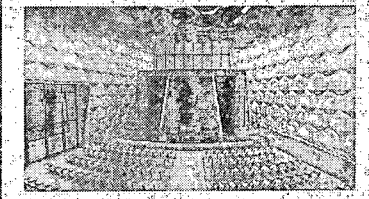
Telephone: +51 992 743 039

www.claudiapaz.com

Relevant Experience & Projects



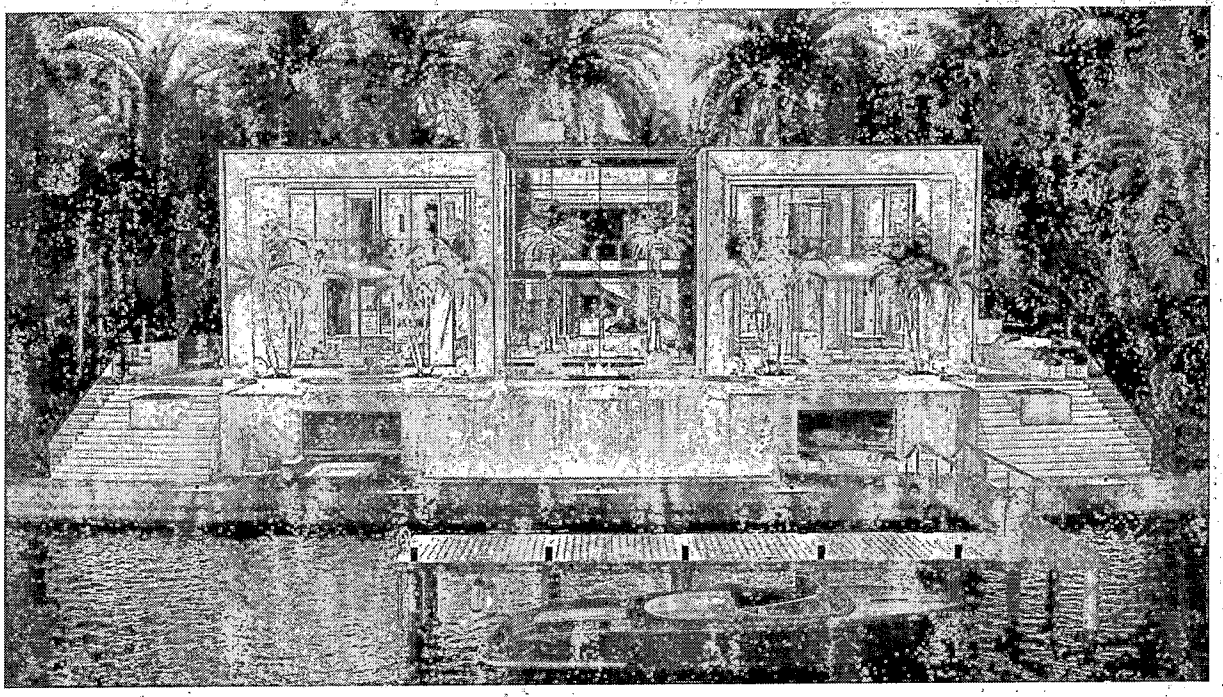


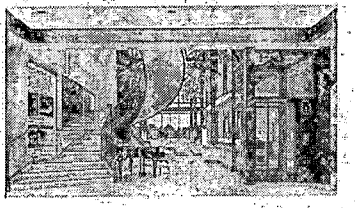


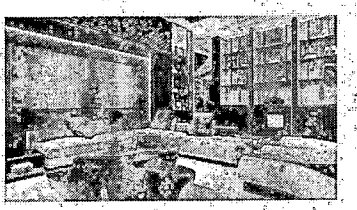
FIU Trish and Dan Bell Chapel

Miami, FL
Year: 2024
Client: Gurrimatute
Lighting design: Claudia Paz

Relevant Experience & Projects



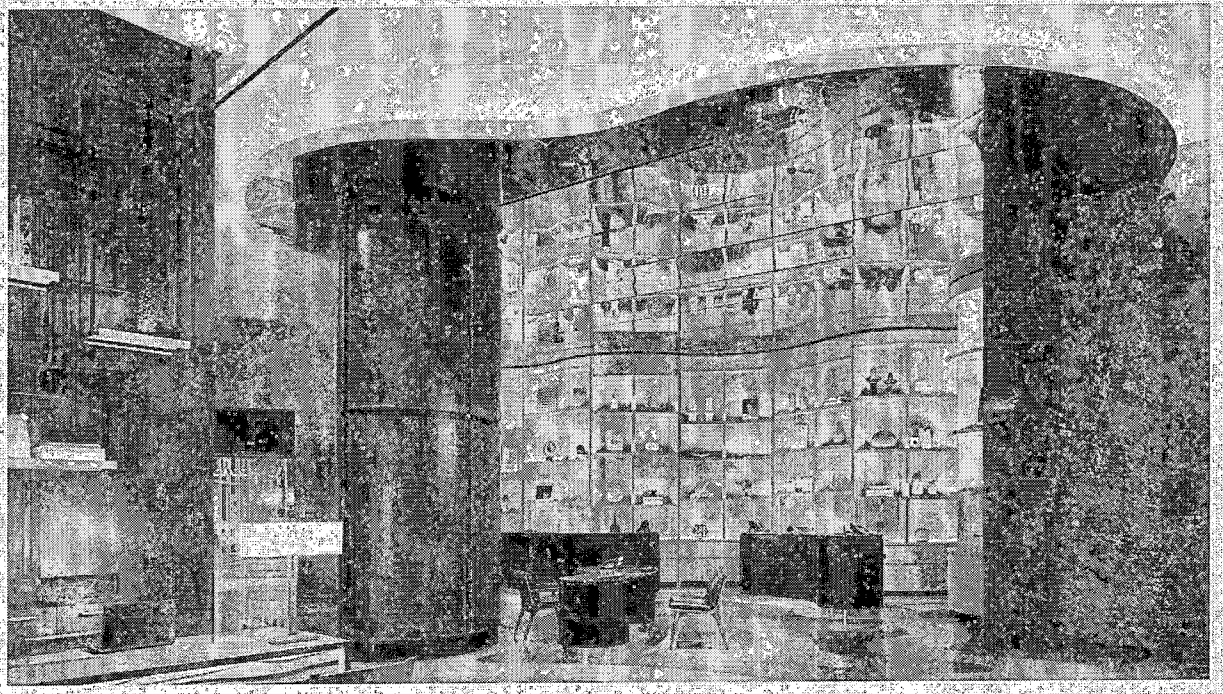


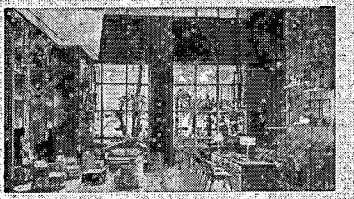


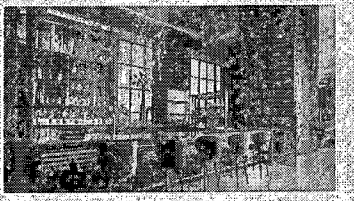
Hibiscus Residence

Miami Beach, FL
Year: 2024
Client: Royal Palm Companies
Lighting design: Raimundo Morales & Douglas Leonard Lighting Designers
Project page

Relevant Experience & Projects | Luminicos



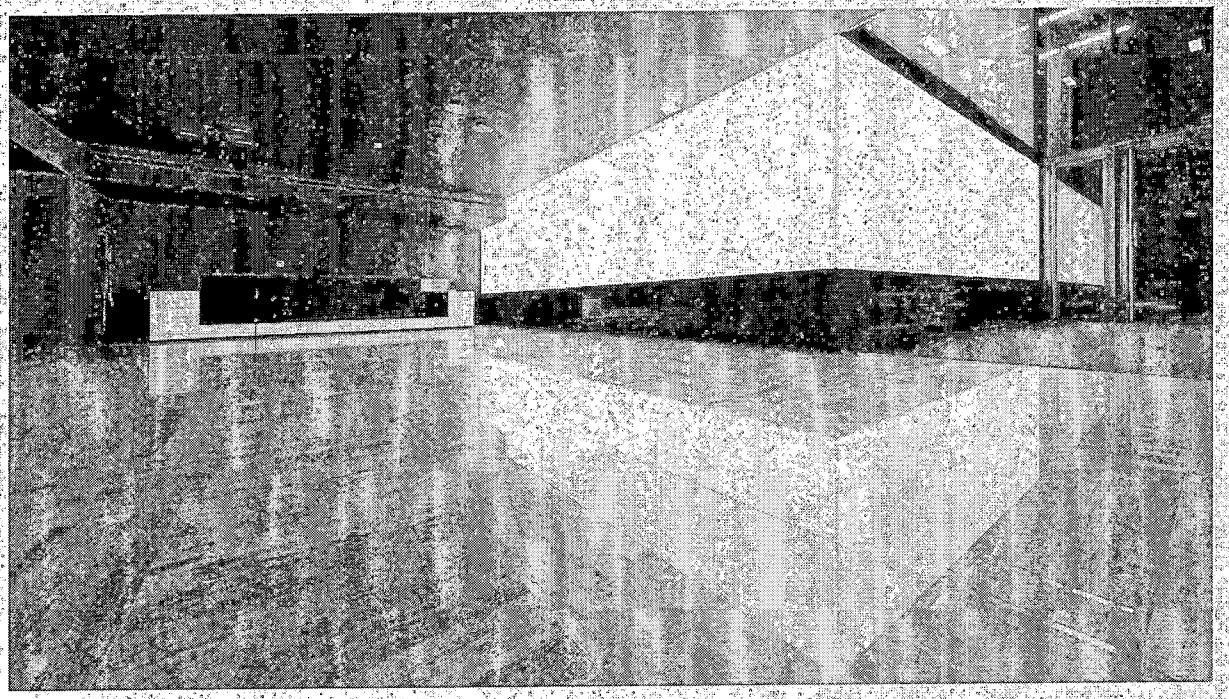




JW Marriott Lima

Lima, Peru
Year: 2022
Client: Inversiones La Rioja
Lighting design: Douglas Leonard Lighting Designers

Relevant Experience & Projects | Luminicos



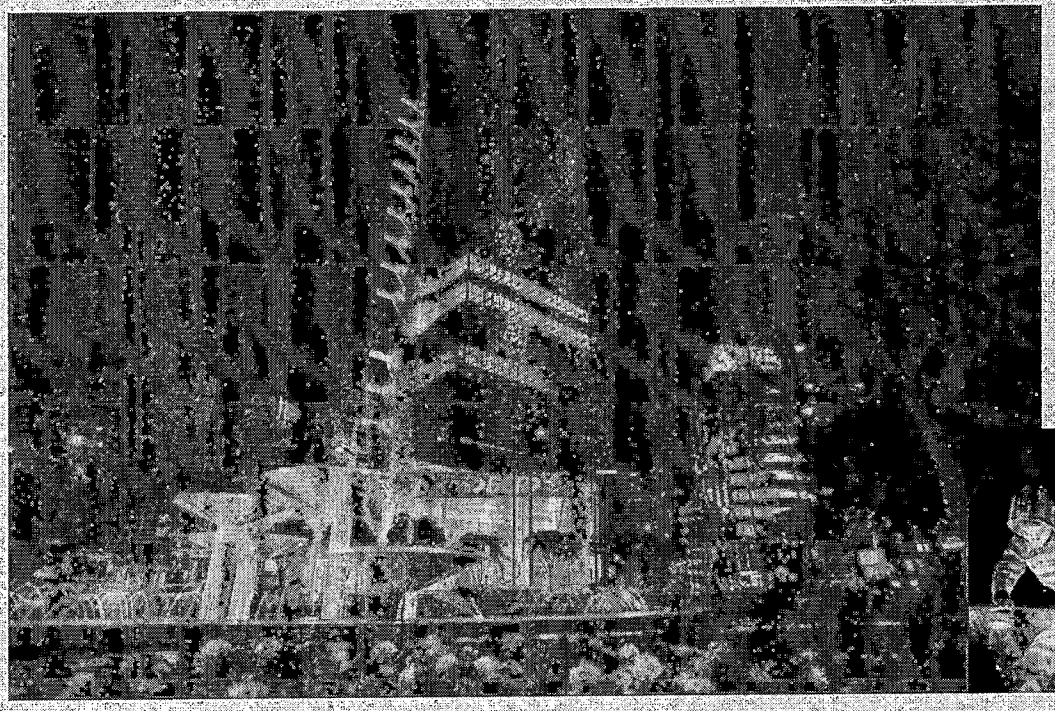


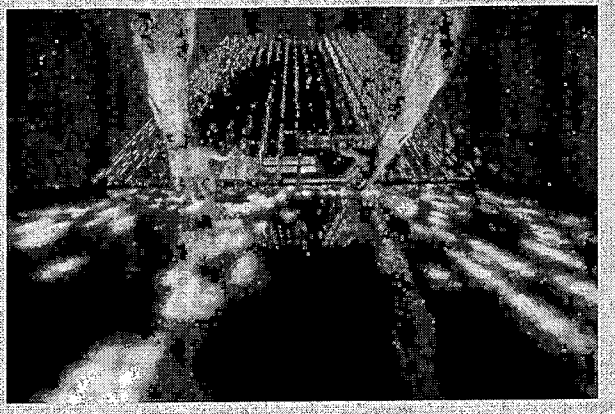
Primera Visión

Lima, Peru
Year: 2017
Client: Cosapi
Lighting design: Gabriel Allende

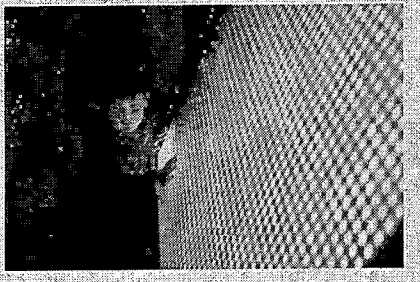
Relevant Experience & Projects | Claudia Paz Lighting Studio

Affinity – BCP Bank | Lima, Peru | 2013 | https://vimeo.com/100246587



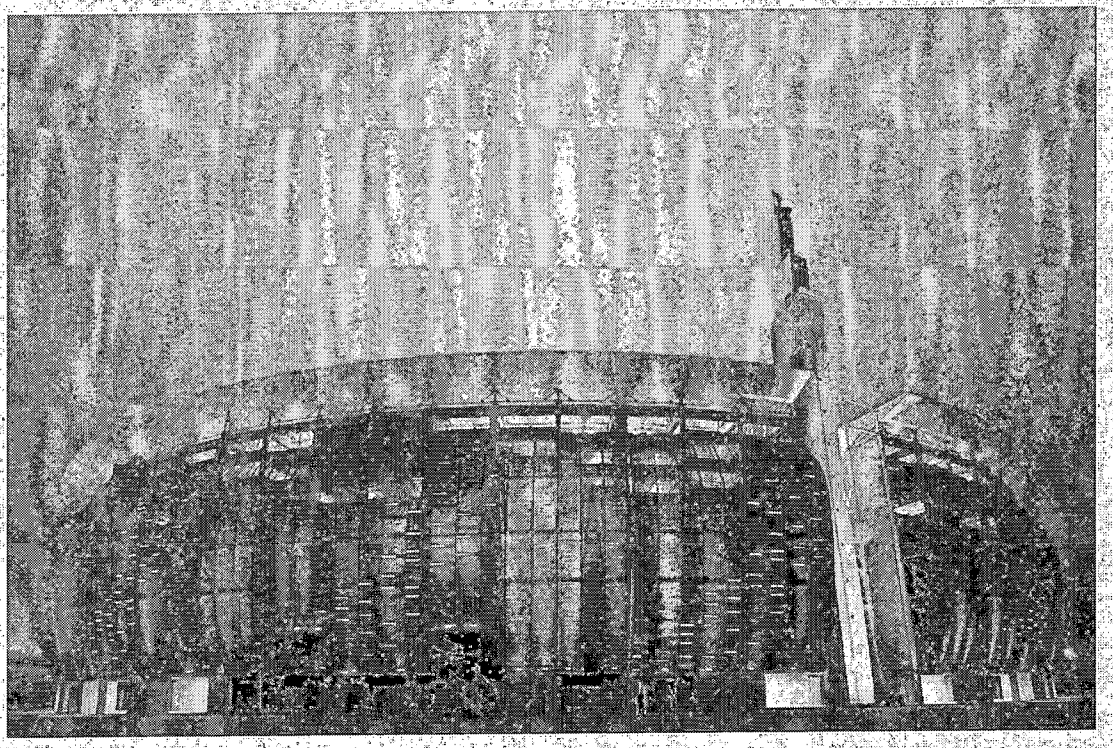


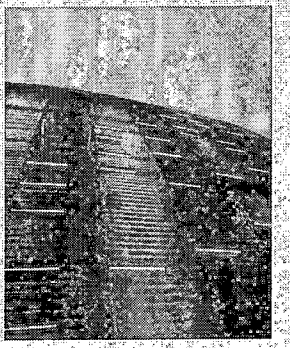


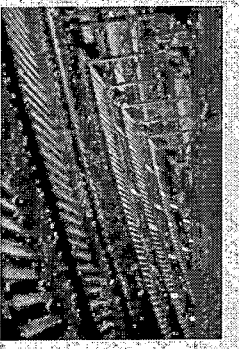


Relevant Experience & Projects | Claudia Paz Lighting Studio

National Stadium of Peru | Lima, Peru | 2016 | https://vimeo.com/105427715



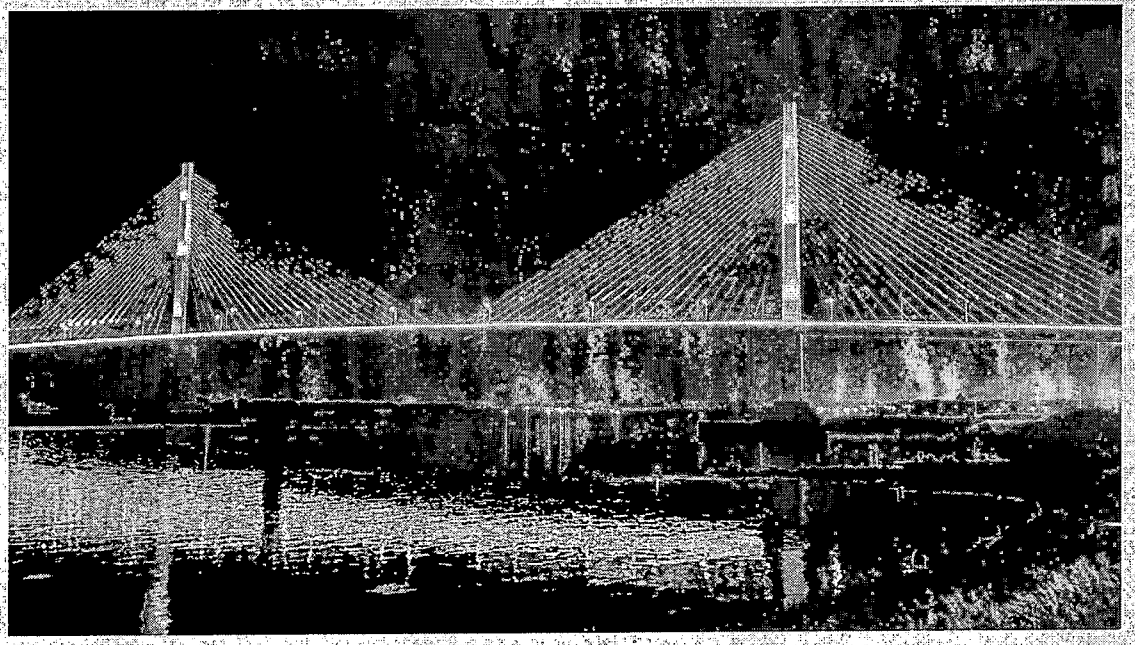


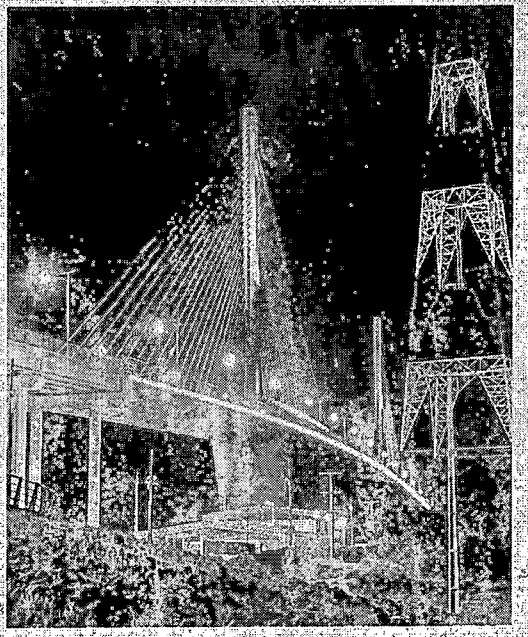




Relevant Experience & Projects | Claudia Paz Lighting Studio

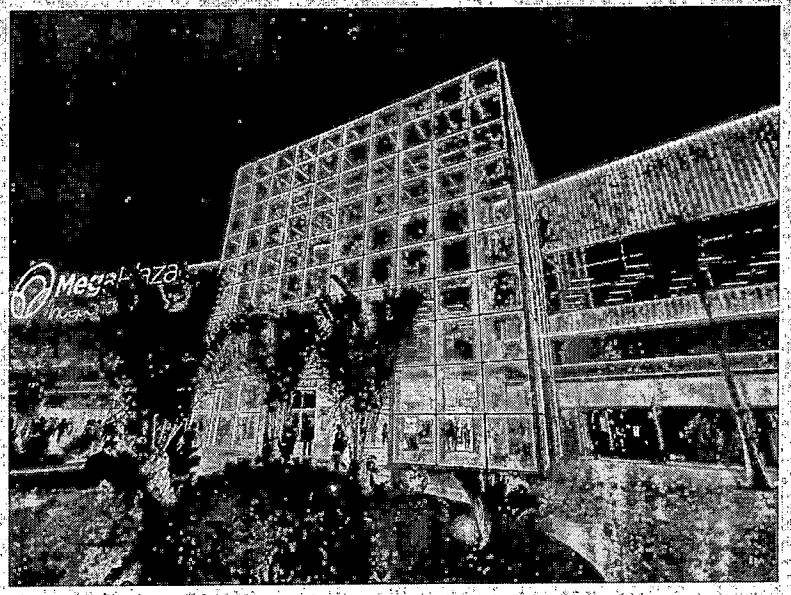
Heroes del Chaco Bridge | Asuncion, Paraguay | 2023

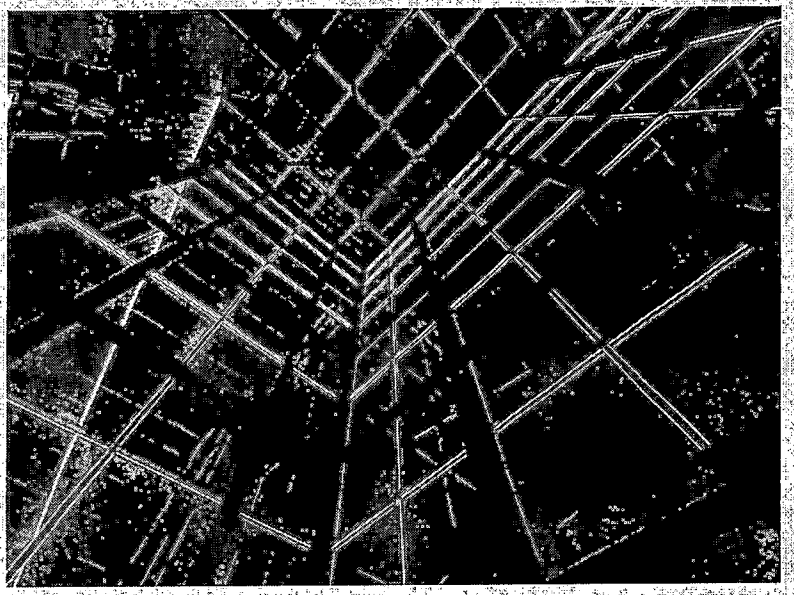




Relevant Experience & Projects | Claudia Paz Lighting Studio

The Cube | Lima, Peru | 2023 | https://vimeo.com/665356317





Relevant Experience & Projects | Claudia Paz Lighting Studio

Lighting Design Awards

2018

Lux Life Magazine | Lux Design 100

2017

IES (USA) Award of Merit – Interior Category | Megaplaza Food Court

2016

DARC Awards (UK) – Best light art scheme – Third Place | Pixel Flow

IES Awards (USA) – Award of Merit | Pixel Flow

IES Awards (USA) – Award of Merit | Casa Bahia

2014

ILUMINET Awards (Mexico) – 1st Place Exterior Category & Best Media Façade | Affinity – BCP

2015

IES Award (USA) – Award of Distinction | Affinity – BCP

IES Award (USA) – Award of Merit | Light Garden

LAMP Awards Finalist (Spain) – Interior Lighting Category | Light Garden

– Exterior Category | Affinity – BCP

Architizer A+ Awards (USA) – Finalist | Affinity – BCP

IALD Awards (USA) – Special Citation | Light Garden

2007

IIDA Awards (USA) – Award of Excellence | AFP Profuturo

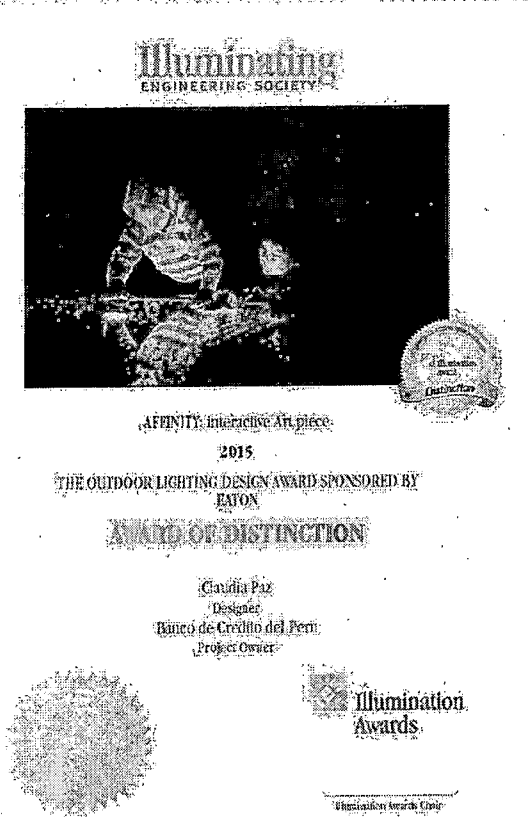
IIDA Awards (USA) – Section Award | Light Rays Bridge

2006

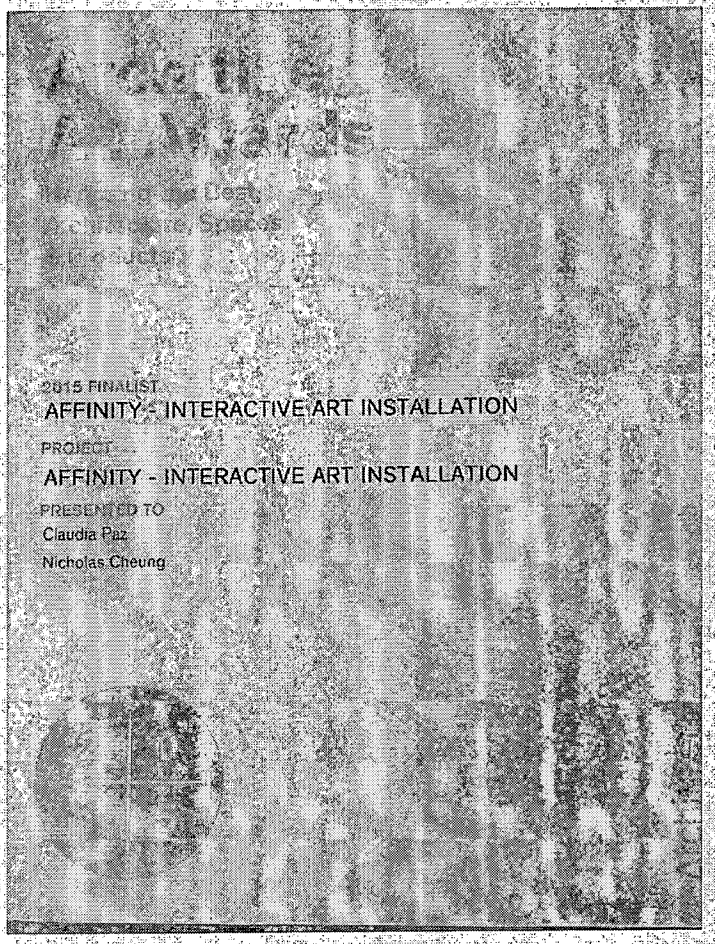
IES Awards (USA) – Award of Merit | Peru Government Palace

Relevant Experience & Projects | Claudia Paz Lighting Studio





Relevant Experience & Projects | Claudia Paz Lighting Studio







Staff & Key Individuals | Lighting Design International Team



Claudia Paz

Lighting Designer

Design of Interactive Experiences Artistic & Content Direction

B. Arch in Architecture

IALD Professional Member

CLD Certified Lighting Designer IES Member



Cesar Castro

Project Manager

Architecture Studies

Design of Controls & Specifications Design of Content & Programming

Interactive Designer

www.claudiapaz.com

Staff & Key Individuals | Technical & Sales Team



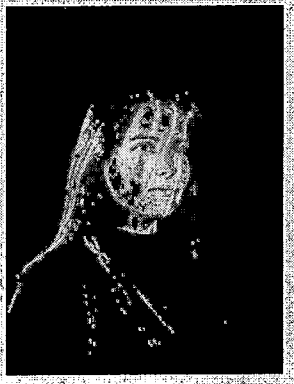
Carlos Molina

CEO | Luminicos



Ignacio Salgado

CFO | Luminicos



Daniella Quiroz

Project Architect | Luminicos

Pedro Huapaya

Visual Artist

Renzo Medroa

Account Executive

Katherine Seminario

Technical Coordinator

Erick Peralta

Head of Support

Elvis Rodriguez

Head of Logistics

Jorge Contreras

Accounting & Finance

Manufacturer Compliance Declaration

Date: April 28th, 2025

To: **City of Fort Lauderdale**

Procurement Services Division

Subject: Manufacturer Compliance Declaration for Dynamic Façade Lighting System – Event #427

Dear Procurement Officer,

We, **OneEightyOne BV**, hereby declare and certify that we fully comply with all manufacturer qualification requirements as specified in the City of Fort Lauderdale's **Request for Proposals (RFP) Event #427** for the Turnkey Dynamic Façade Lighting System for the **Las Olas Parking Garage**. Specifically, we certify the following:

Experience

- We have been actively engaged in the manufacturing, installation, and sale of LED lighting fixtures and related technologies for at least ten (10) years prior to the RFP issuance date.
- We have a minimum of five (5) years of proven experience in the design and fabrication of dynamic façade lighting systems.

Operational Installations

- We have completed projects involving dynamic façade lighting installations that have been in continuous operation for a minimum of five (5) years prior to the RFP issuance date.

Warranty

- We offer a minimum of five (5) years warranty for all components provided under the Dynamic Façade Lighting System (DFLS) scope.

Certifications and Technical Standards

- Our products are tested and certified under recognized safety standards, including ETL or UL certification.
- The LEDs used in our fixtures have a rated life of at least 50,000 operating hours.

oneeighty one.com
Bromostraat 18
1067 TG Amsterdam
The Netherlands
Info@oneeighthyone.com
+31 (0)20 8200 170
@oneeighthyone

Control System

- o Our dynamic façade lighting system includes an integrated control solution developed by us (or in collaboration with us), capable of pixel-level control for lighting levels and compliance with light pollution ordinances.

Industry Standing

- o OneEightyOne is a recognized and established leader in the lighting industry with a demonstrated history of quality, innovation, and reliability in delivering architectural lighting solutions.

In addition, we confirm our full technical collaboration with **The Luminicos, Corp,** who will act as our official partner for this project, and with the design team led by **Claudia Paz,** internationally recognized for their expertise in creative lighting solutions. We are currently engaged in the joint development of multiple international façade lighting projects, and we are committed to providing all necessary technical support to ensure the success of this project.

We affirm that the above statements are true and correct to the best of our knowledge and that we are fully committed to supporting the le'sCity of Fort Lauderda project with products that meet all technical and regulatory requirements.

Sincerely,

Niels Van Duinen, CEO

OneEightyOne | DiGidot

niels@oneeightyone.com

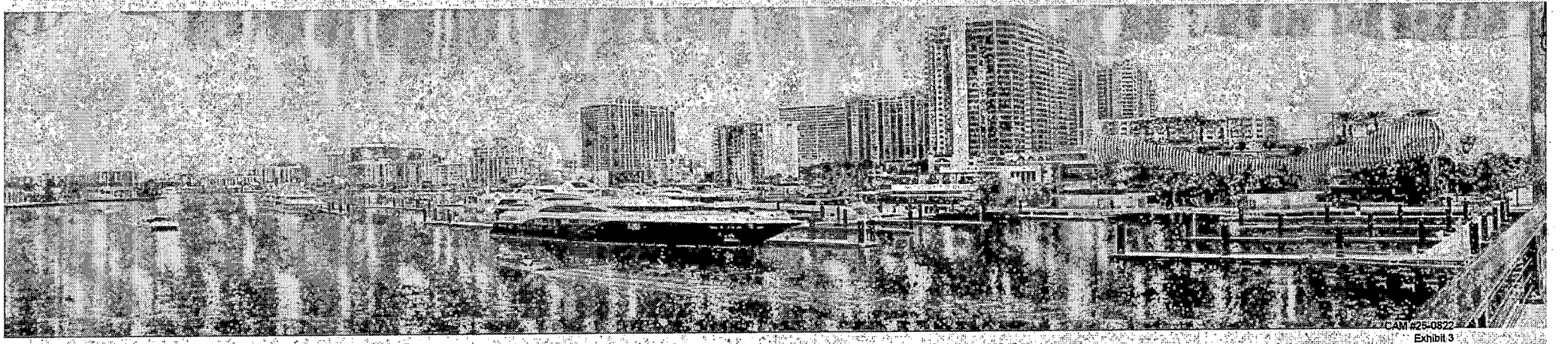
+31 208 200 170

oneeighty one.com
Bromostraat 18-1
1067 TG Amsterdam
The Netherlands

Project Overview

In 2017, the City of Fort Lauderdale approved a 24-month construction project to build Las Olas Parking Garage. The facility was designed with 581 architectural fins along the façade adding depth and dimension. A led lighting system was integrated into the architectural "fins" to add moving light to the structure

Arquitectonica of Miami envisioned the parking structure as a grand, sweeping gesture, like a wave frozen in time. The design is a modern riff on a wave pattern and incorporates signature elements of the barrier island onto the screen wall.



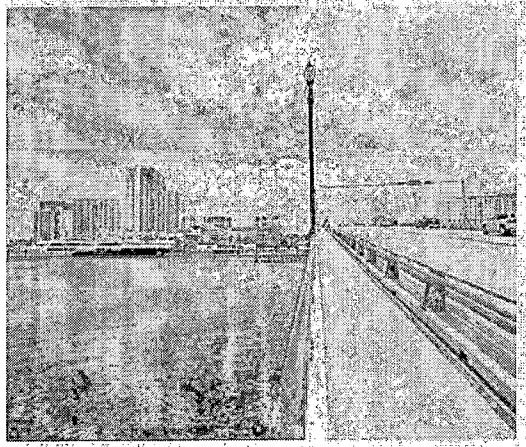
Location

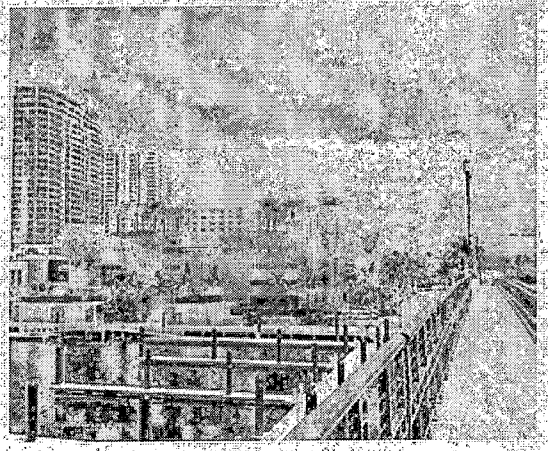
The organic structure of the Las Olas Parking Garage in Fort Lauderdale is best appreciated from several key spots, both from the outside and inside.

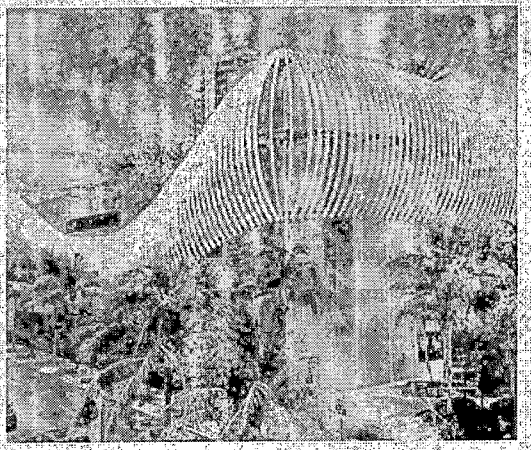
Best places to view the organic structure:

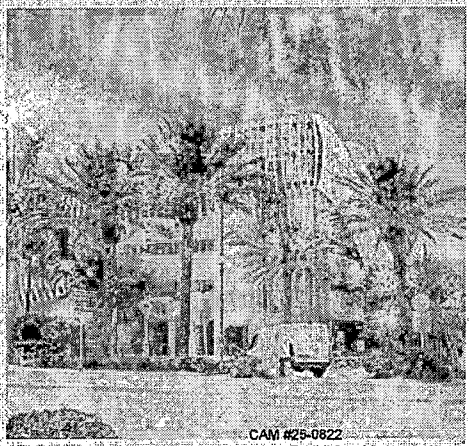
- From Las Olas Boulevard:
As you approach the garage, the wavy metal façade is very visible and stands out as a major architectural landmark in the area.

- From the Las Olas Bridge:
The bridge offers a more panoramic view of the garage, allowing you to really appreciate the full flowing shape of the structure.









Design Objectives

The goal is to bring the structure to life. Light has the unique ability to tap into emotions; visitors will see the structure and experience it, feeling wonder, surprise, and connection.

Our design approach is to light glide along the shapes, slide across curves, and highlight the depths and textures, much like sunlight dancing over a real landscape. Through intelligent movement of light, we can simulate the forces of nature, like wind sweeping over grass, flowing water currents, or fireflies flickering in the night air, creating an ever-changing sense of movement and flow. Thru sparkle and shadow we will enrich the experience — tiny, precise points of light can evoke excitement and richness, like reflections on water, while soft, moving shadows will give the structure a 3D quality, evoking mystery and the passage of time.

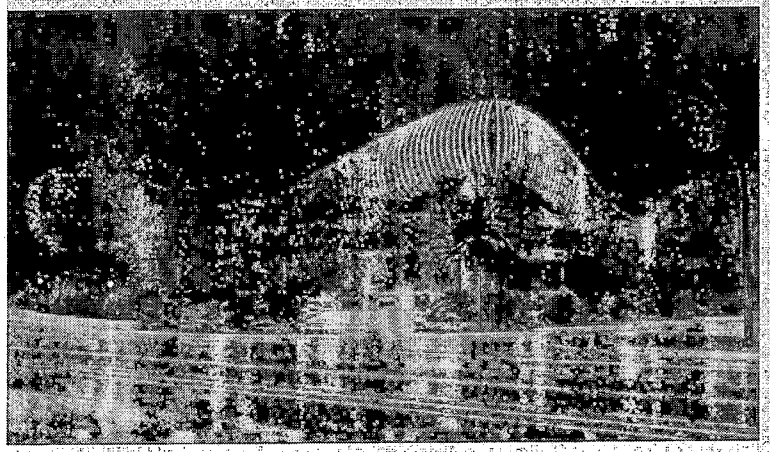
At night, light becomes the new material, turning the structure into a luminous artwork visible from afar. An artwork that comunicates and engage with celebrations, important dates and what happened in the city. Unique lighting behaviors and signatures can reinforce the building's identity, making it unforgettable — the kind of place people remember and linked with the people that pass next to it or see it from the distance.

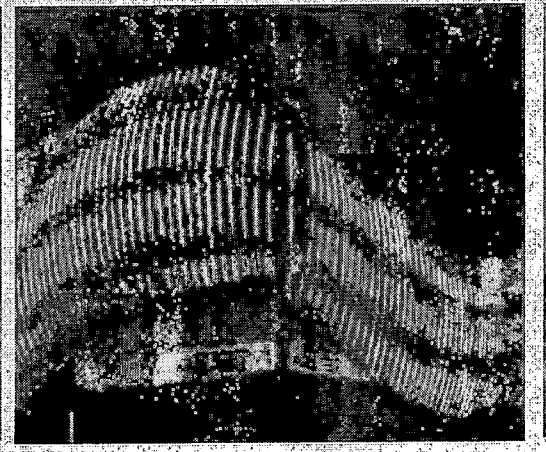
Concept Design

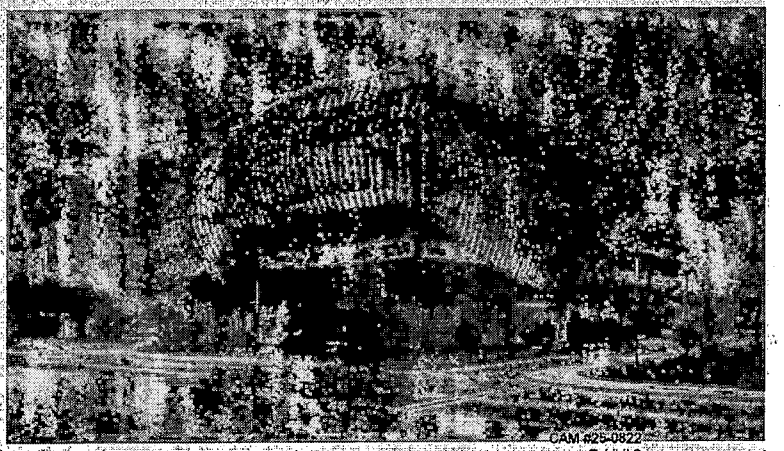
Our lighting concept seeks to release the energy of the frozen wave, animating the wave with light, to make it feel as if it could flow again at any moment.

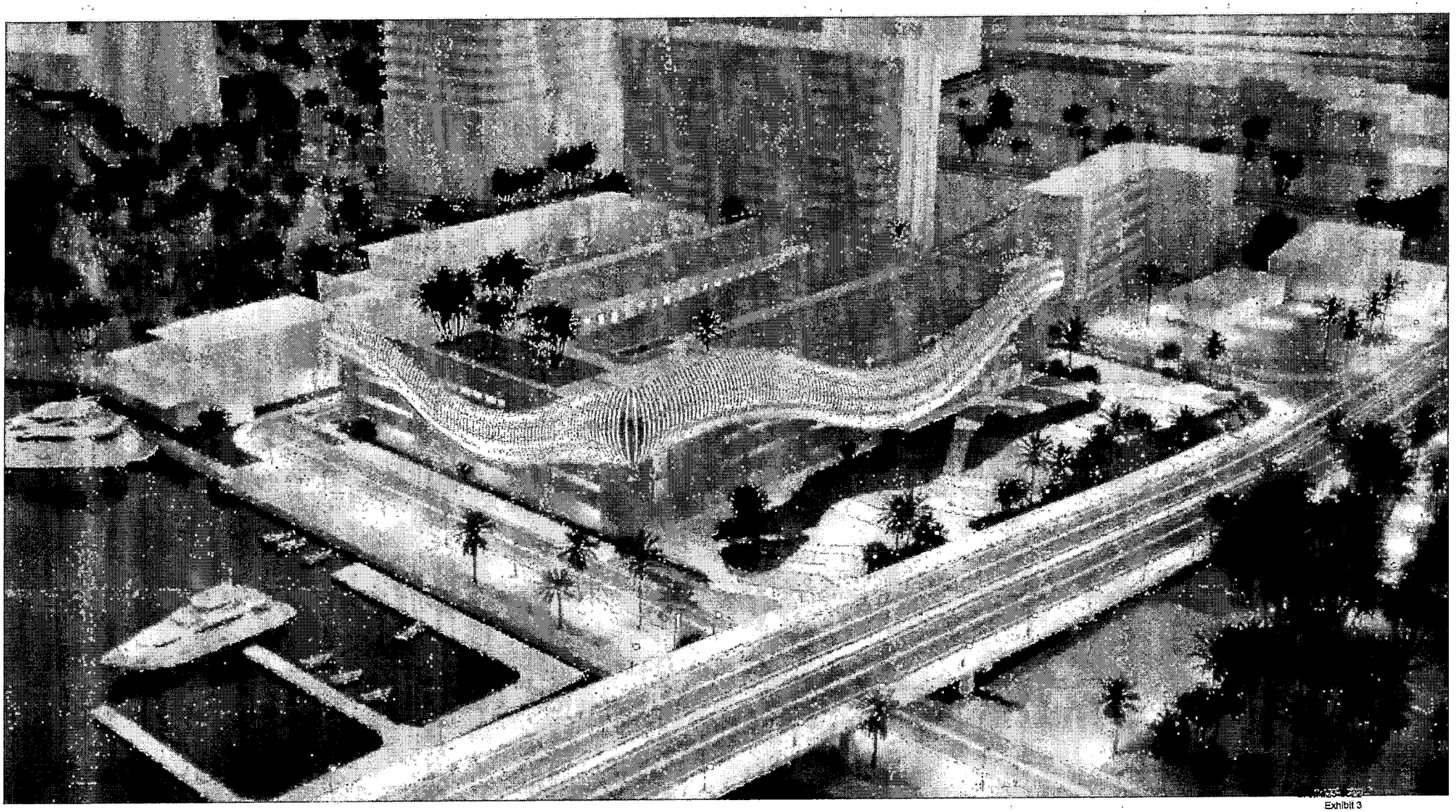
The lighting is designed to reveal, not to cover — to trace the contours, caress the curves, and bring depth to the frozen motion.

It is a choreography of brightness and shadow, of pulse and shimmer, that gives the pencil to draw in this canvas the content that will link the city and the people with the building.









Content Design

The content displayed on an LED facade is designed to communicate in a different language — one that speaks through movement, light, and emotion rather than words or static images.

Our goal is to craft content that feels organic, fluid, and alive, perfectly complementing the architecture's natural form.

To achieve this, we use a combination of advanced design and animation software. By layering techniques from several programs such as After Effects, Particles, etc, we are able to create content that is both subtle and smooth, while still delivering a high emotional and visual impact.

Rather than overwhelming the viewer, the content is designed to merge seamlessly with the structure, enhancing its curves, textures, and rhythm.

The visuals move gently across the surface, generating soft transitions, flowing gradients, evolving patterns, and delicate sparkles that interact with the architecture itself.

Content Design

The content design process is rooted in these core principles:

- Narrative Through Movement: Each animation tells a story of nature, energy, or transformation — without the need for traditional storytelling methods.

- Organic Integration: The content is tailored to the physical shape of the facade, using motion paths and forms that respect the building's organic geometry.

- Emotional Resonance: The light and movement are carefully tuned to evoke feelings of wonder, calm, excitement, or connection — depending on the moment.

- Dynamic Adaptability: The content can change throughout the day, seasons, or special events, making the facade a living canvas that evolves over time.

By merging technology, artistry, and architecture, we turn the LED facade into a breathing, dynamic entity — a new kind of urban landmark that doesn't just stand still, but communicates through a new, living language of light.

- MLK Day - (peace signs or people holding hands, MLK face, I have a dream)
- Presidents Day - (American flag)
- Valentine's Day - (hearts)
- Mardi Gras - (fleur de lis, hats, masks, balloons in purple, green and yellow)
- Daylight Saving Time Starts - (clock)
- St. Patrick's Day - (four leaf clover, Irish flag in orange, white, and green)
- First day of Spring - (leaves in green and flowers)
- Earth Hour - Saturday, (turn off lights for one hour.
- Easter - (bunnies, eggs, and chicks in pastel colors)
- Earth Day - (globe)
- Cinco de Mayo - (sombreros, Mexican flag in green, White, and red)
- Mother's Day - (flowers, hearts)
- Armed Forces Day - (American flag)
- Memorial Day - (American flag)
- Flag Day - (American flag)
- Father's Day - (bowtie, hearts, moustache)
- First Day of Summer - (sunshine, beach balls, flip flops)
- Independence Day - (American flag)
- Labor Day - (American flag)
- September 11 - (American flag)
- First Day of Fall - (leaves in red, brown, and orange)
- Columbus Day - (ship, ocean waves)
- Veterans Day - (American flag)

- Halloween - (ghost, pumpkin, bats)
- Thanksgiving - (turkey, pumpkin, fall leaves)
- Pearl Harbor Day - (American flag)
- First Day of Winter - (snowflakes)
- Hanukah - (menorah, dreidel)
- Christmas - (Christmas tree, presents, Santa)
- Kwanza - (candles in red, black, and green)
- New Year's Eve - (fireworks)

Colors Themes:

- Red - World AIDS Day
- Orange
- Yellow
- Green
- Blue - World Autism Awareness Day (puzzle pieces)
- Indigo
- Violet / Purple
- Pink - October (Breast Cancer Awareness
- Gray
- Black
- White

Annual Event Themes:

- Pride Event- (rainbow themes)
- Tortuga Music Festival- (sea turtles, palm trees, fish)
- Air Show (airplanes, stars)
- Great American Beach Party - (beach balls, sunshine, flip flops)
- Boat Show - (waves, boats, anchors)
- Light Up the Beach - (snow man, snow, holiday lights)
- Riptide - (octopus tentacles, mermaid, seashells)
- Winterfest Boat Parade - (boats, snowflakes, holiday lights)
- Fort Lauderdale A1A Marathon, 1/2Marathon, 5K, and Kid's Race
- Las Olas Triathlon - (running, swimming, biking)
- Winterfest Boat Parade - (boats, snowflakes, holiday lights)
- Exotic Car Events

Other Themes:

- Glitter, Sparkles
- Night Skyline (shooting stars, stars, moon)
- Day Skyline (sun, clouds)
- Abstract Patterns
- Sail boats
- Yachts
- City Logo

LIST OD SCENARIOS

- Hurricane Evacuation
- Animals
- Transportation (cars, planes, etc)
- Exercise
- Welcome / Thanks for Visiting
- Nightlife
- Palm
- trees
- Bicycles
- Sun glasses
- Paddle boarding
- Parasailing
- Surfing Dolphin

And others that we can suggest.

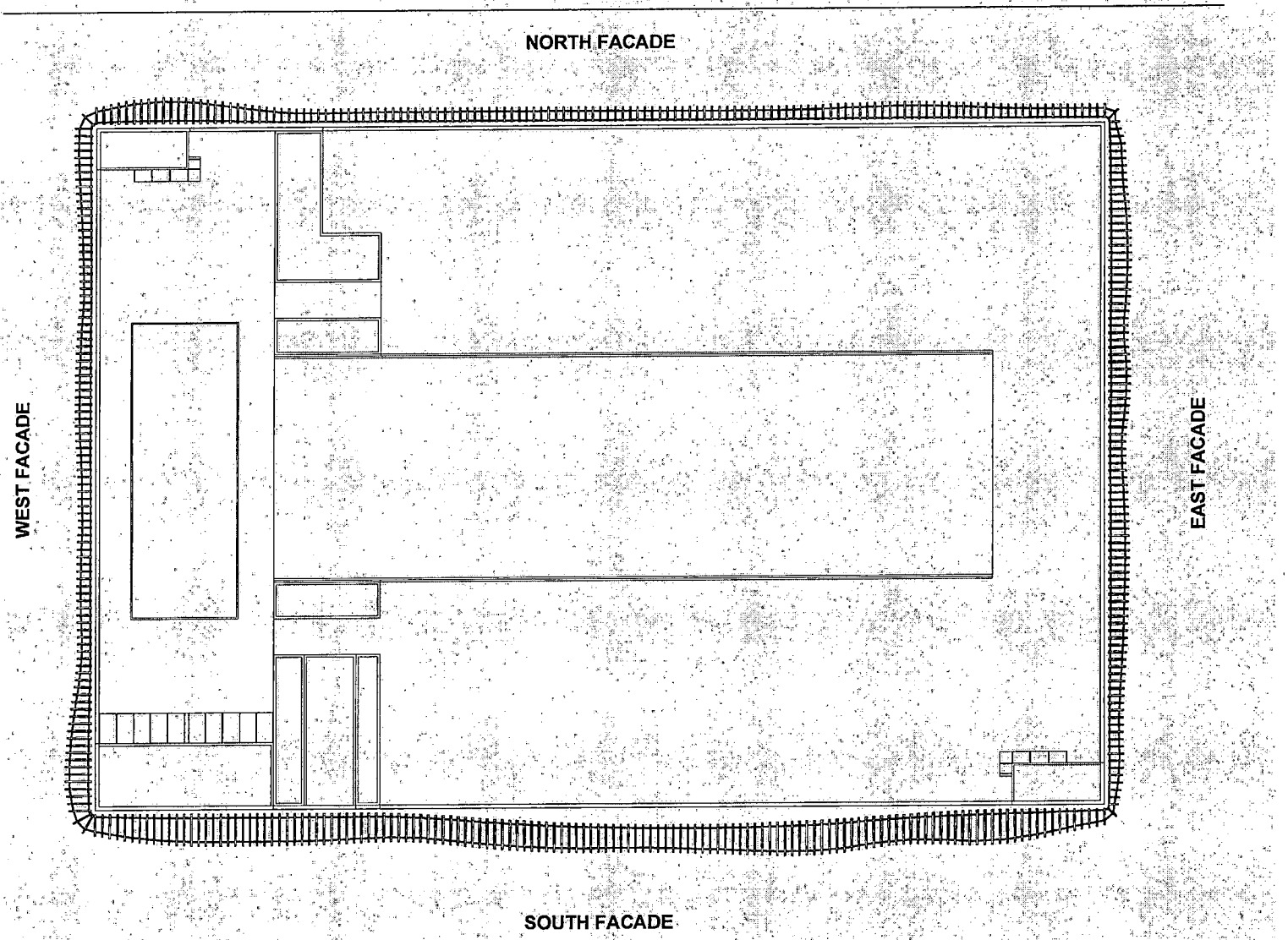
General description

The design proposes the use of small RGBW pixel node lights, each capable of being individually controlled, allowing for highly flexible and dynamic lighting effects.

Communication between the lights is managed using the SPI protocol, a method similar to DMX but optimized for higher-speed data transmission and direct pixel-level control.

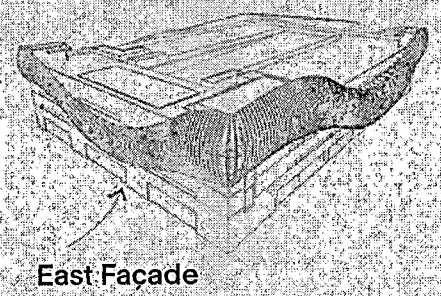
Each sheet illustrates the distribution and placement of the lights across the façades, along with the power distribution schemes, indicating the locations of the power supplies and power boxes. These diagrams ensure proper system organization, efficient electrical distribution, and support the operational reliability of the lighting installation.

Façades



Lumínicos®

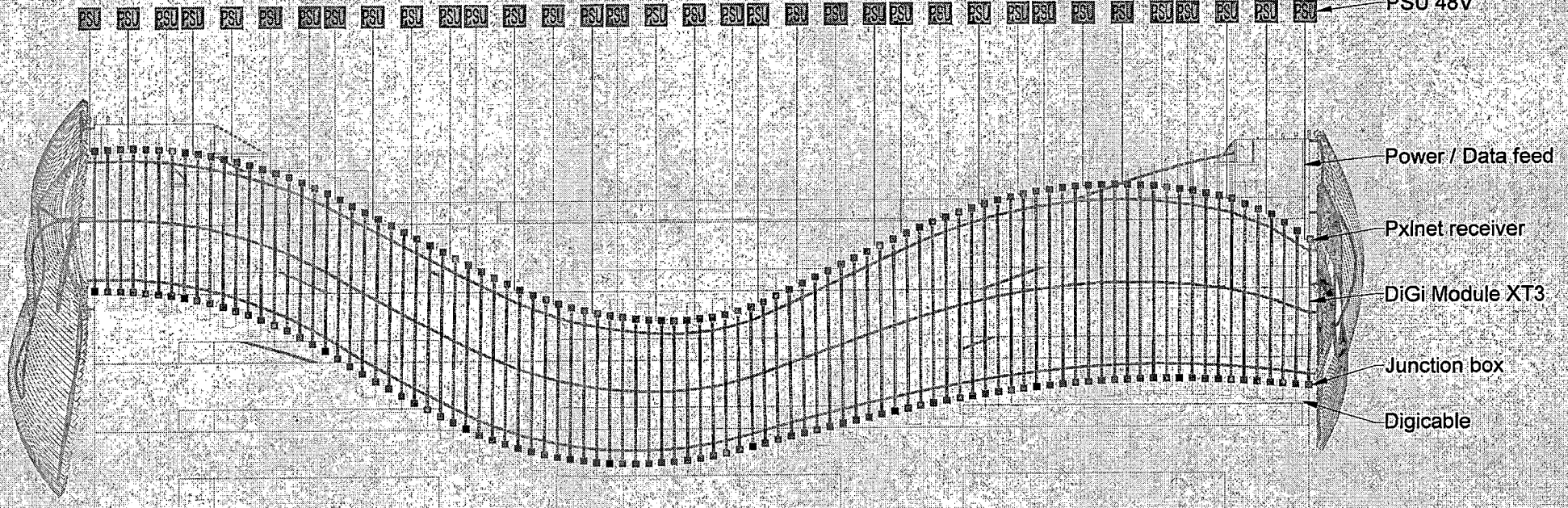
LIGHTING PLANS



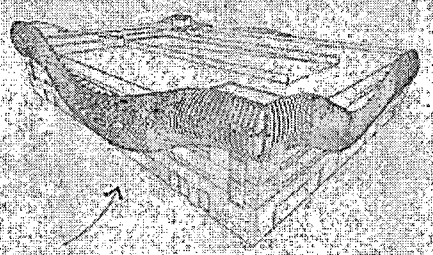
East Façade

SPEC LIST	
	DESCRIPTION
PSU	PSU 48V
	PXLNET RECEIVER
	JUNCTION BOX
	TERMINATION
	DIGICABLE
	POWER / DATA FEED
	DIGI MODULE XT3

East Façade

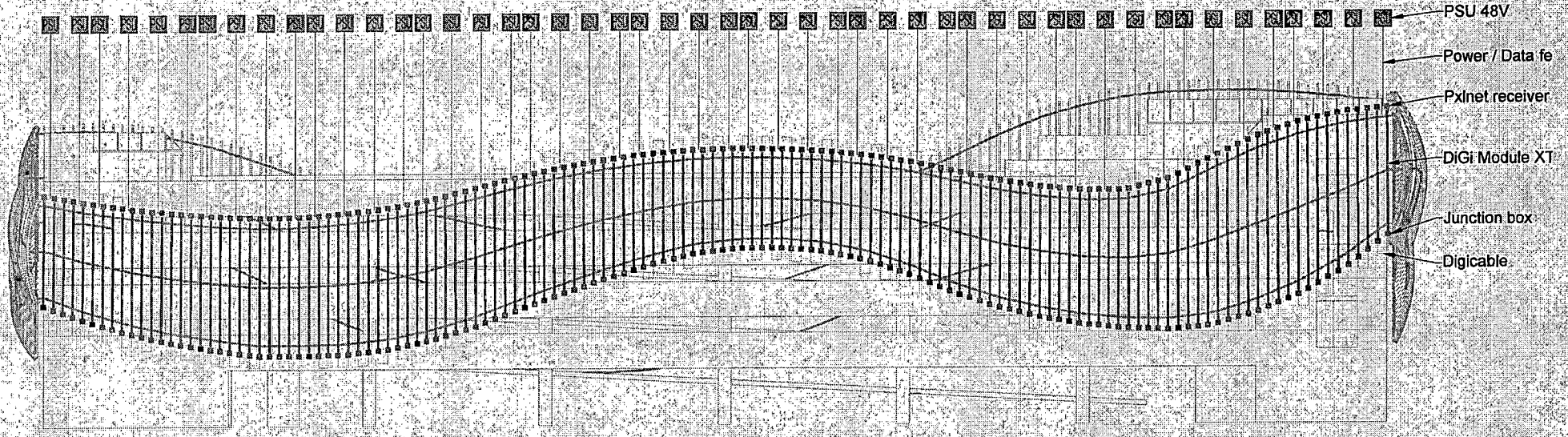


North Façade

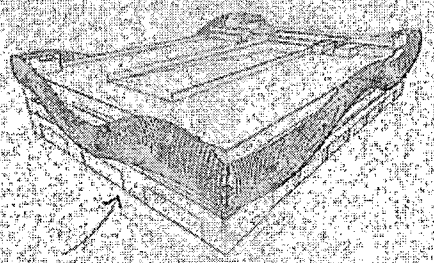


North Façade

SPEC LIST	
	DESCRIPTION
PSU	PSU 48V
	PXLNET RECEIVER
	JUNCTION BOX
	TERMINATION
	DIGICABLE
	POWER / DATA FEED
	DIGI MODULE XT3

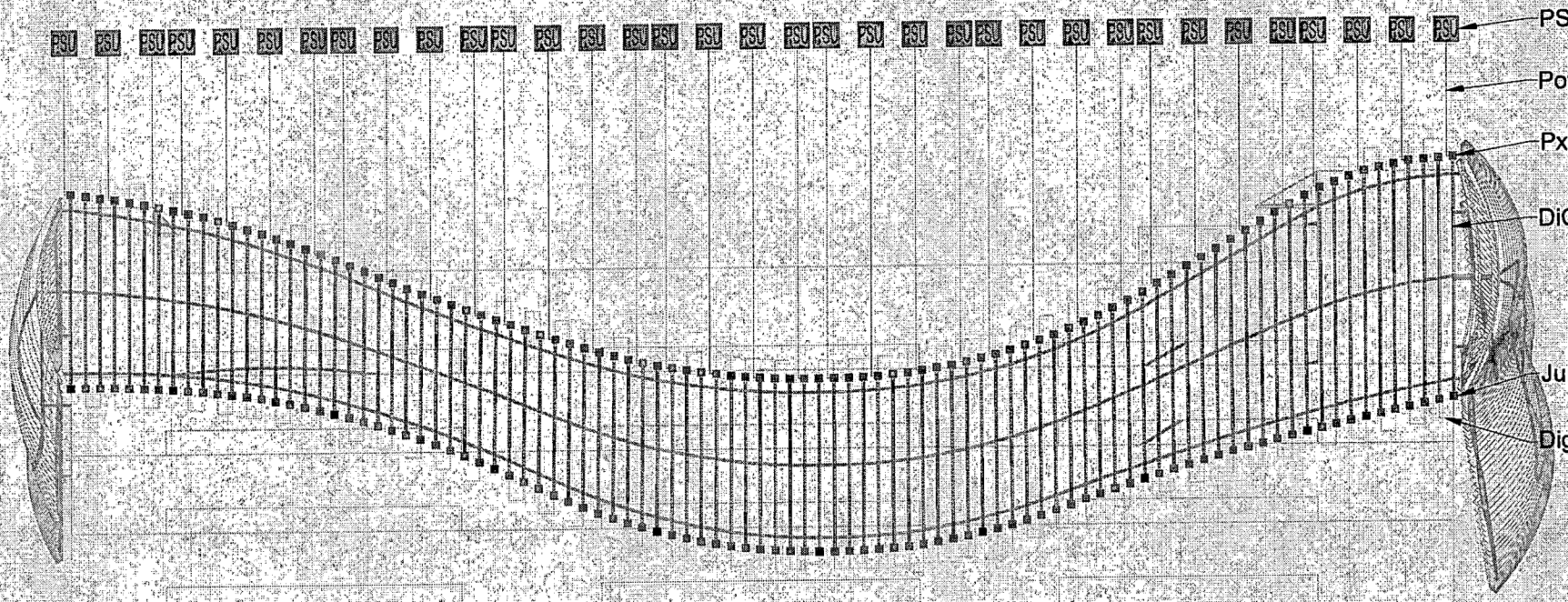


West Façade

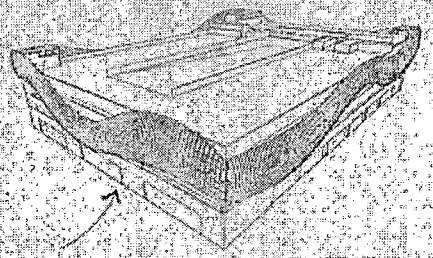


West Façade

SPEC LIST	
	DESCRIPTION
PSU	PSU 48V
	PXLNET RECEIVER
	JUNCTION BOX
	TERMINATION
	DIGICABLE
	POWER / DATA FEED
	DIGI MODULE XT3

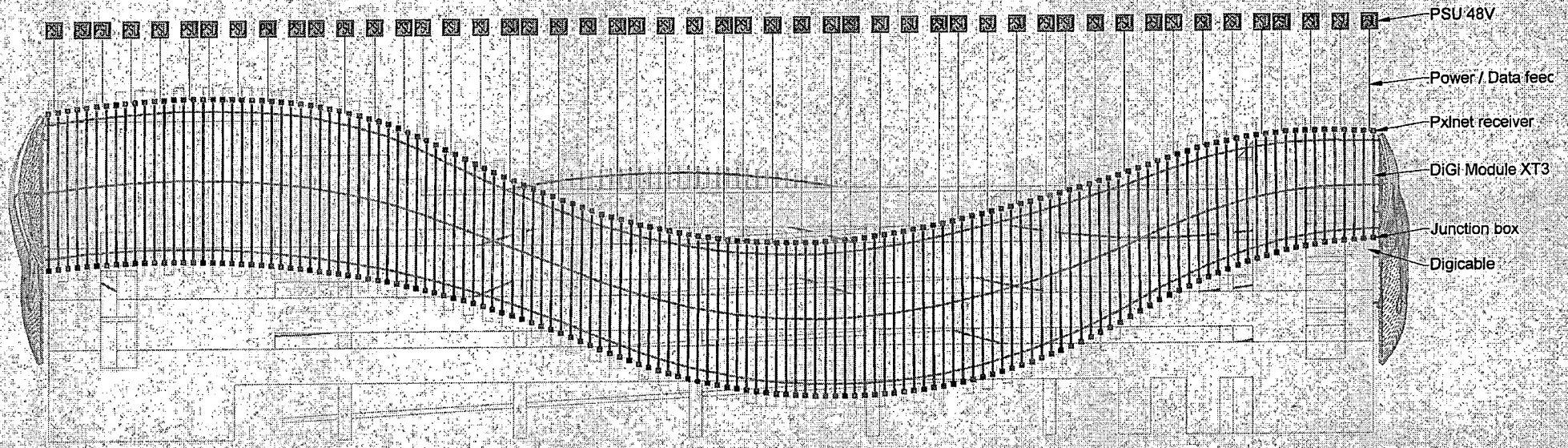


South Façade

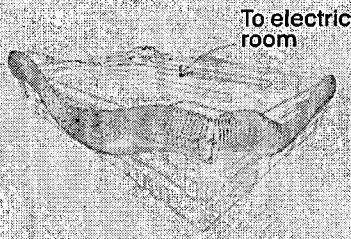


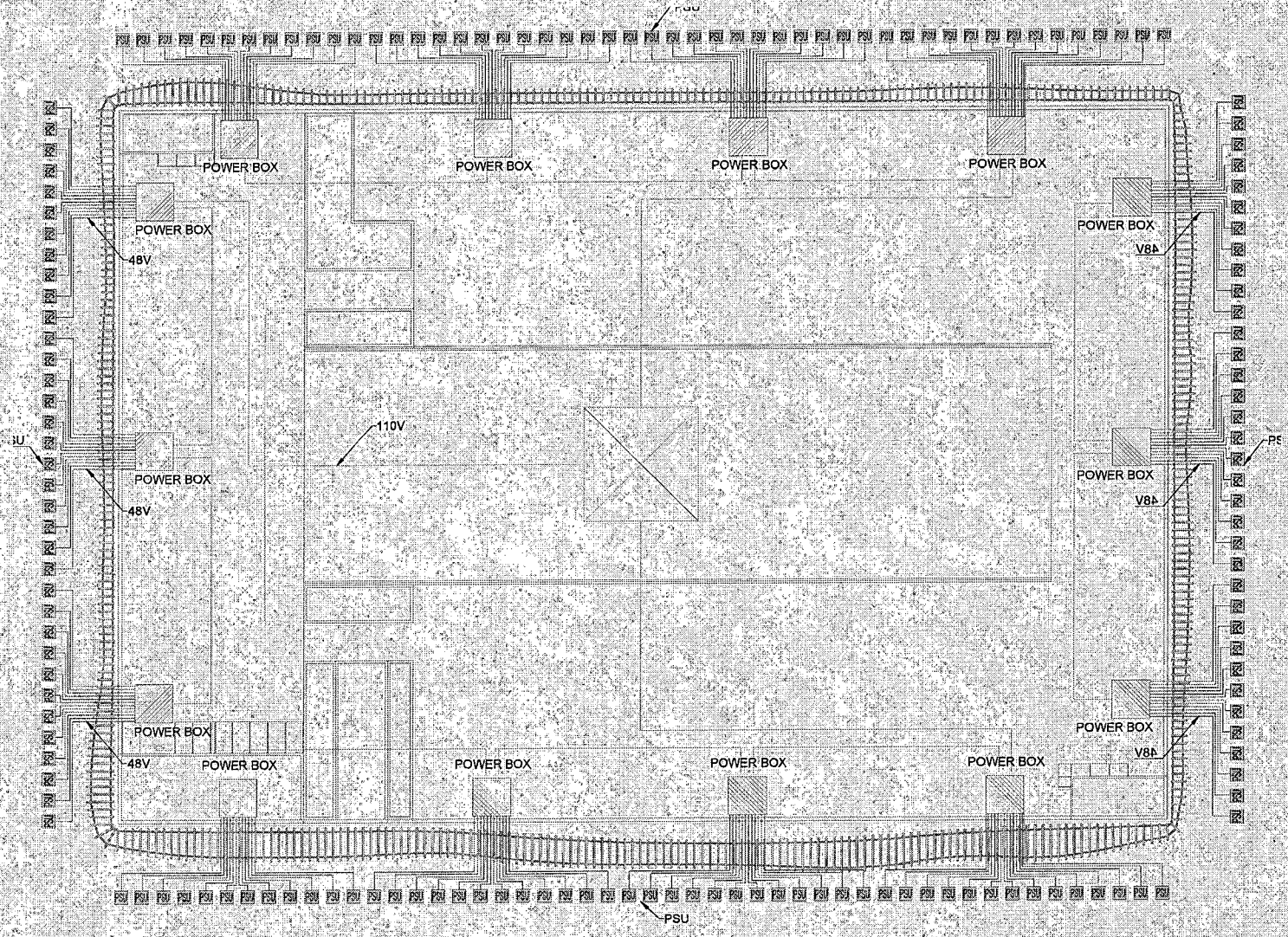
South Façade

SPEC LIST	
	DESCRIPTION
PSU	PSU 48V
	PXLNET RECEIVER
	JUNCTION BOX
	TERMINATION
	DIGICABLE
	POWER / DATA FEED
	DIGI MODULE XT3

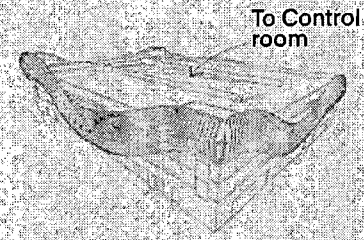


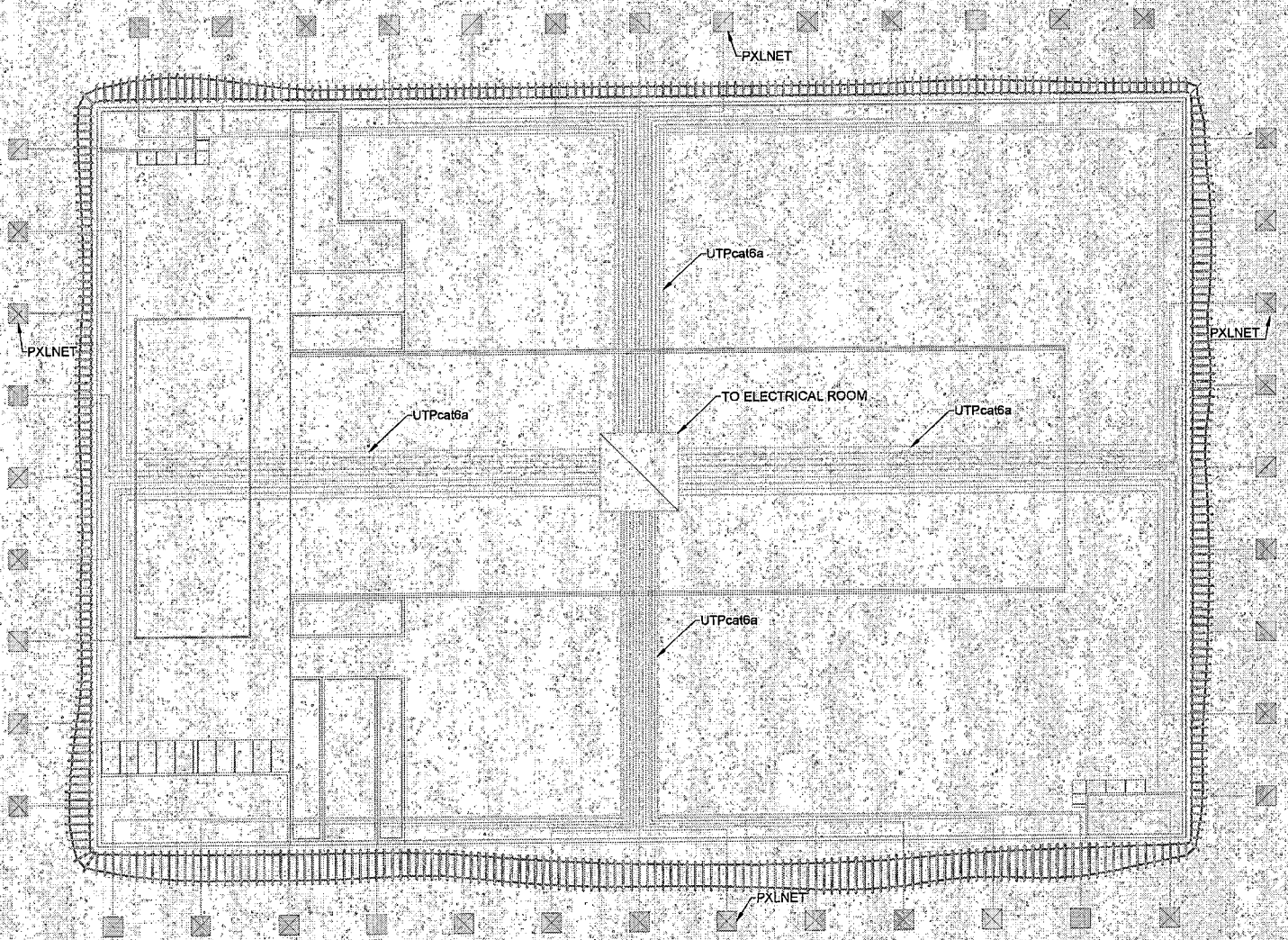
Power Schematic



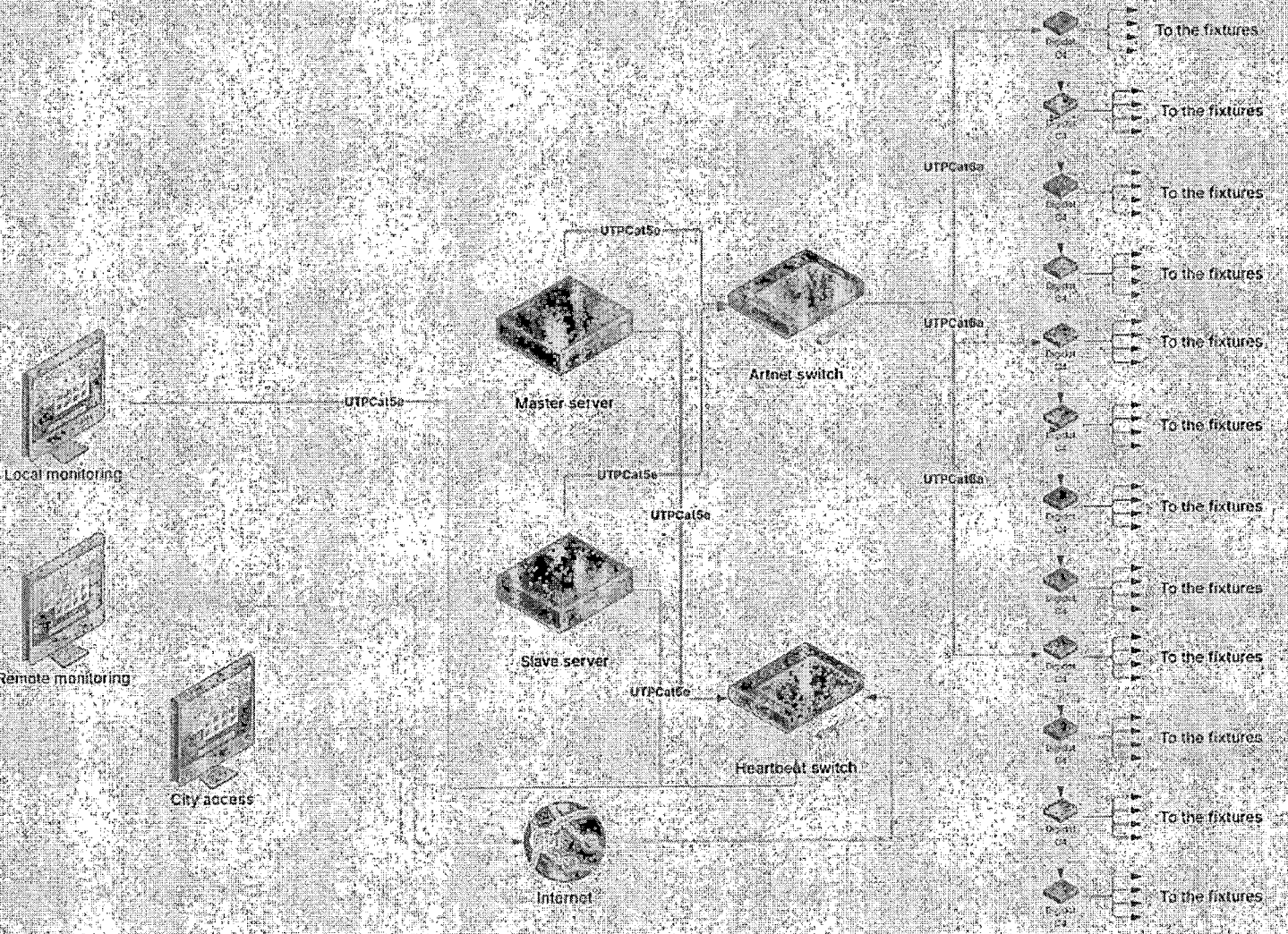


Data Schematic





Schematic Wiring Control System



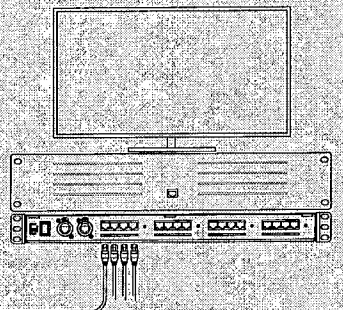
Details

These simplified diagrams provide a clear overview of the connection requirements for the luminaires (Digimodule XT3), their accessories, and the control equipment (Digidot C4).

They serve as easy-to-understand examples to illustrate how the components should be properly connected. Additionally, the diagrams include installation details for the luminaires to ensure correct setup.

Advanced

Schematic Wiring Control System

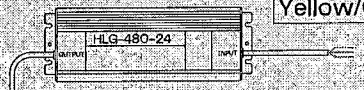


With the use of the DiGidot PxLNet Node up to 250mtr cable length for data to the PxLNet distribution box (DB) can be achieved

- Indoor
- Outdoor

S/FTP6

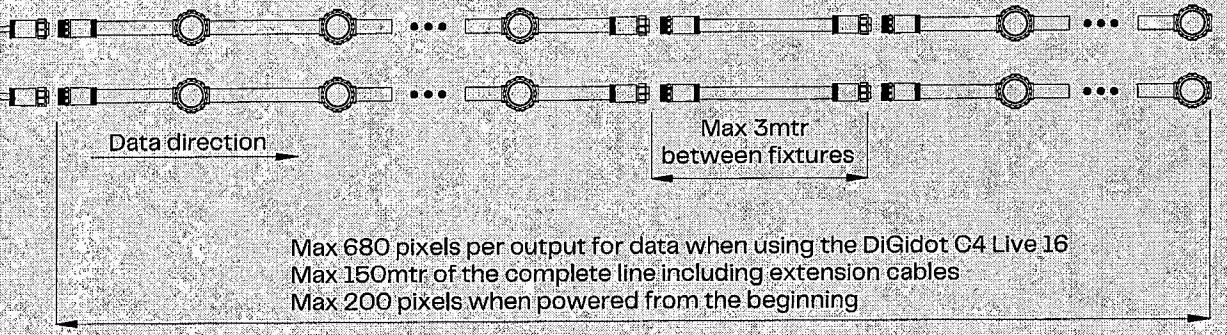
115-277VAC	
Brown	L
Blue	N
Yellow/Green	PE





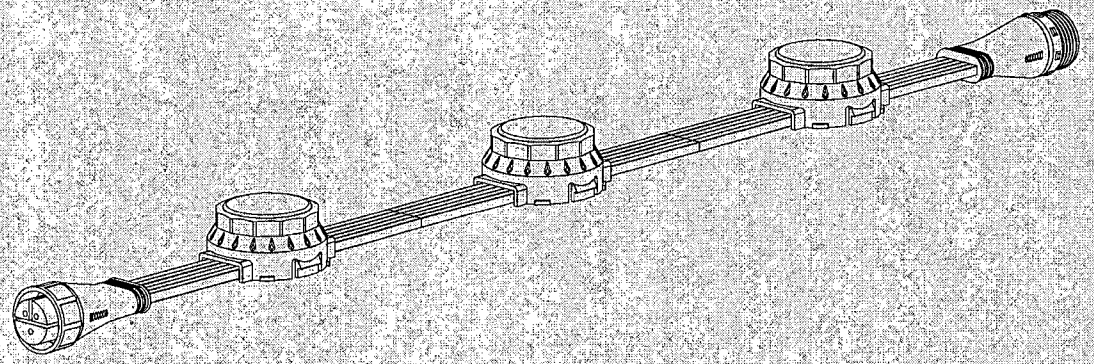
For connection please refer to the PxLNet Distribution box manual

Important:
When using multiple power supplies on the same data line make sure the data link cable is connected to seperate the V+ of the power supplies

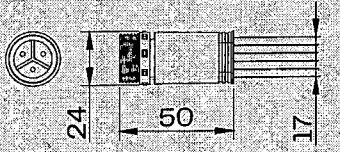


Max 680 pixels per output for data when using the DiGidot C4 Live 16
Max 150mtr of the complete line including extension cables
Max 200 pixels when powered from the beginning

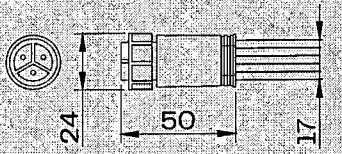
Digimodule XT3



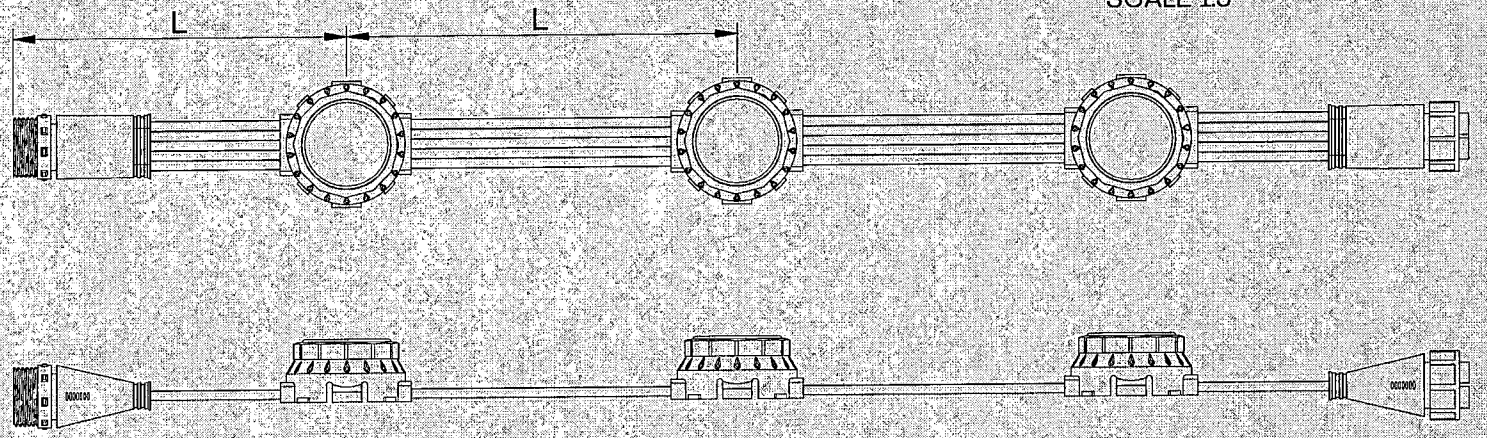
M20 Male 3Pin
Input connector



M20 Female 3Pin
Input connector



Connector
SCALE 1:3



Digimodule XT3

Important:

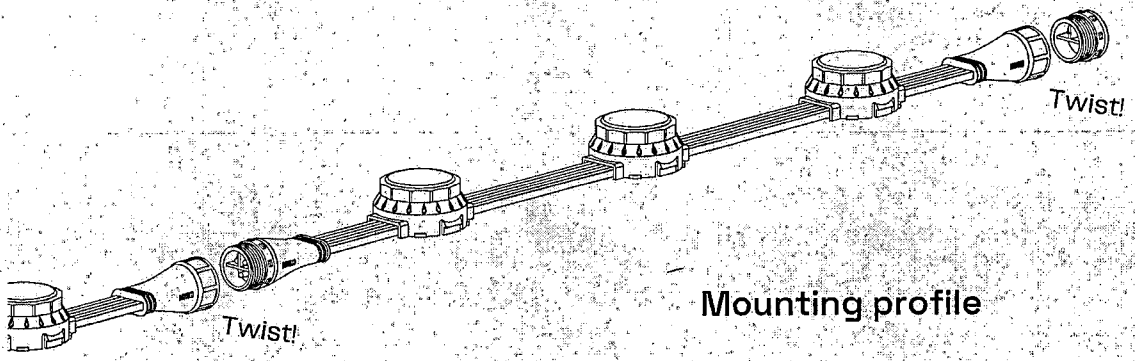
Make sure power is disconnected during installation or maintenance.

Do not attempt installation in wet or severe weather conditions.

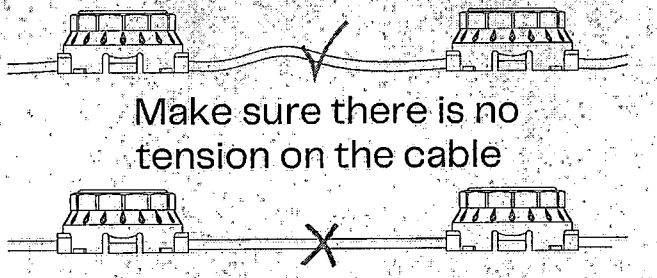
Keep cables protected from sharp objects to prevent damage.

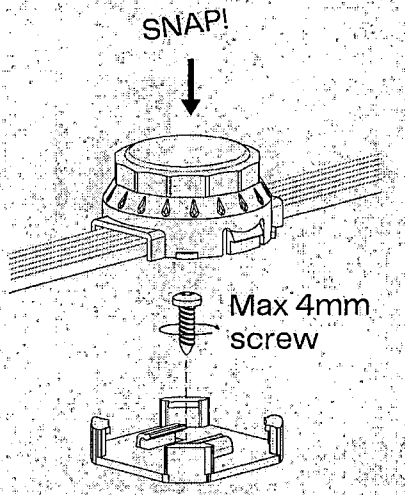
Make sure unconnected fixtures are not exposed to raining/ snowing environment.

For waterproof connection make sure that the last fixture has the endcap connector fixed to the last output connector.



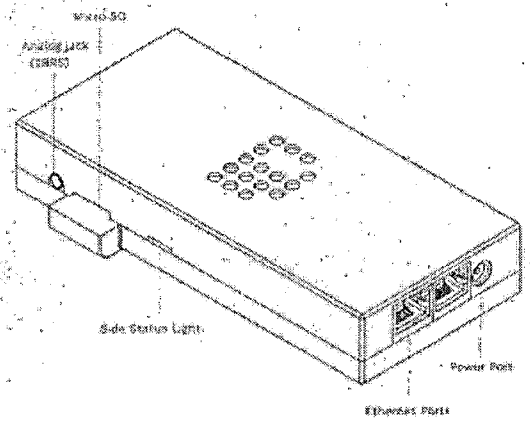
Mounting profile

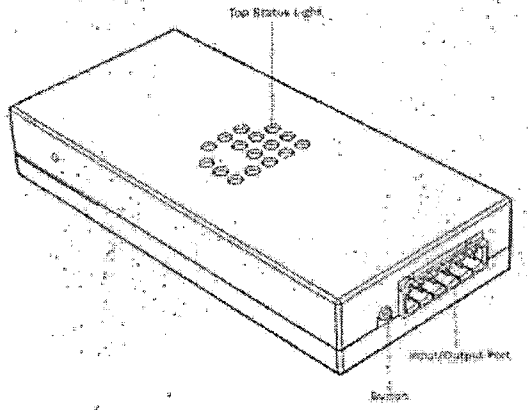


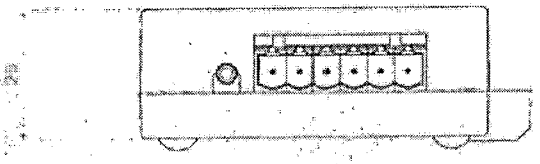


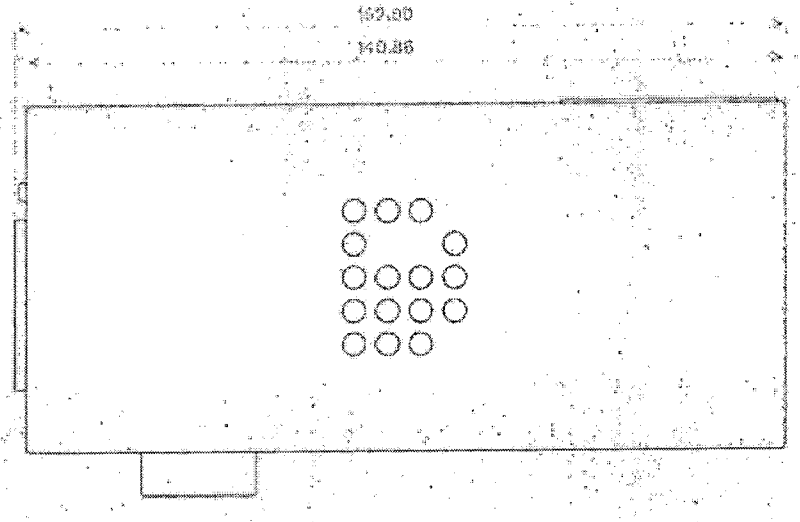
Mounting clip

Digidot C4


Side Status Light
Power Port
Ethernet Ports

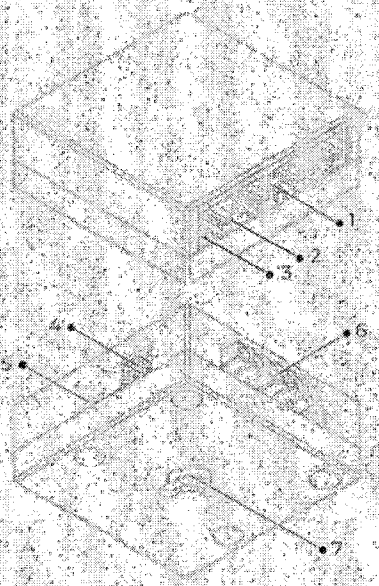

Top Status Light
Input/Output Port
Button

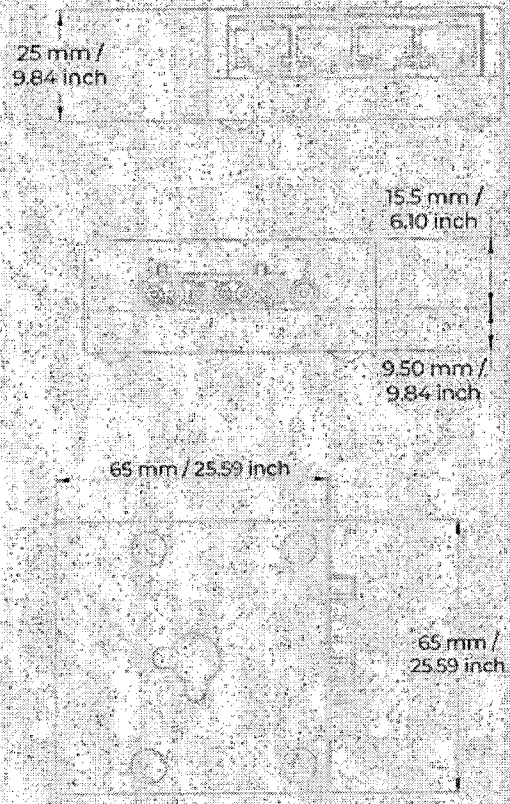




PXLNet

No.	Description
1	4X PxLNet RJ45 output ports
2	Status led power on (green)
3	Status led transmitting data (yellow)
4	Power input | Left = DC- (GND) | Right = DC+
5	Power indicator LED (blue)
6	I/O Connector to DiGidot C4
7	Mounting hole





Pin 1	orange/white = (DMX) Data +
Pin 2	orange = (DMX) Data -
Pin 7	brown/white = (DMX) GND/DC-
Pin 8	brown = (DMX) GND/DC-



1	Data +
2	Data -
3	
4	
5	
6	
7	GND
8	GND

©EHS

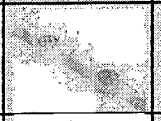
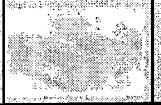
ANSI-EXTA EI-11 standard

Fixture Specification

The following section presents the BOM corresponding to the lighting project, detailing the overall totals of the proposal as well as the LED node count for each façade, in accordance with the information provided.

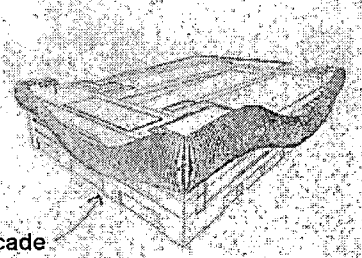
All indicated lengths are subject to final verification based on the project's as-built drawings or through an on-site survey and measurement confirmation.

Additionally, the technical datasheets of the proposed equipment are attached to provide detailed specifications and ensure compliance with the project's requirements.

Item	Description	Picture	Quantity	Units
1	DigiModule XT3 RGBW2700k - Flat, transparent - white housing		24904	u
2	M20E input cable - 200cm 5pins		463	u
3	Meanwell PSU 48v 5A 240w, IP67		93	u
4	Mounting clips		24904	u

EAST FACADE			
Item	Run	Lenght (ft)	
1	E001	19	41
2	E002	19.37	41
3	E003	19.69	42
4	E004	19.97	43
5	E005	20.23	43
6	E006	20.45	44
7	E007	20.65	44
8	E008	20.84	44
9	E009	21	45
10	E010	21.15	45
11	E011	21.29	45
12	E012	21.42	46
13	E013	21.55	46
14	E014	21.67	46
15	E015	21.79	46
16	E016	21.91	47
17	E017	22.03	47
18	E018	22.14	47
19	E019	22.26	47
20	E020	22.37	47
21	E021	22.47	48
22	E022	22.57	48
23	E023	22.65	48
24	E024	22.73	48
25	E025	22.79	48
26	E026	22.84	48
27	E027	22.88	49
28	E028	22.9	49
29	E029	22.9	49
30	E030	22.89	49
31	E031	22.86	48
32	E032	22.82	48
33	E033	22.75	48
34	E034	22.67	48
35	E035	22.57	48
36	E036	22.45	48
37	E037	22.32	47
38	E038	22.17	47
39	E039	22.02	47
40	E040	21.85	46
41	E041	21.68	46
42	E042	21.5	46
43	E043	21.33	45
44	E044	21.16	45
45	E045	21	45
46	E046	20.85	44
47	E047	20.72	44
48	E048	20.61	44
49	E049	20.52	44
50	E050	20.46	44
51	E051	20.44	44
52	E052	20.48	44

EAST FACADE			
Item	Run	Lenght (ft)	
53	E053	20.57	44
54	E054	20.74	44
55	E055	20.97	45
56	E056	21.26	45
57	E057	21.6	46
58	E058	21.99	47
59	E059	22.41	48
60	E060	22.85	48
61	E061	23.31	49
62	E062	23.79	50
63	E063	24.26	51
64	E064	24.74	52
65	E065	25.2	53
66	E066	25.65	54
67	E067	26.08	55
68	E068	26.48	56
69	E069	26.86	57
70	E070	27.2	57
71	E071	27.5	58
72	E072	27.77	58
73	E073	27.99	59
74	E074	28.17	59
75	E075	28.3	60
76	E076	28.39	60
77	E077	28.42	60
78	E078	28.41	60
79	E079	28.35	60
80	E080	28.24	59
81	E081	28.08	59
82	E082	27.88	59
83	E083	27.63	58
84	E084	27.43	58
85	E085	26.98	57
86	E086	26.6	56
87	E087	26.16	55
88	E088	25.69	54
89	E089	25.18	53
90	E090	24.63	52
91	E091	24.04	51
92	E092	23.41	50
93	E093	22.75	48
94	E094	22.06	47
95	E095	21.33	45



East Façade

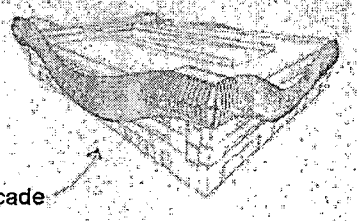
East Façade

Total: 4666 nodes

NORTH FACADE			
Item	Run	Lenght (ft)	Nodes per line
1	N001	21.83	45
2	N002	22.13	46
3	N003	22.43	47
4	N004	22.73	47
5	N005	23.02	48
6	N006	23.3	48
7	N007	23.59	49
8	N008	23.87	50
9	N009	24.14	50
10	N010	24.42	51
11	N011	24.68	51
12	N012	24.94	52
13	N013	25.2	52
14	N014	25.45	53
15	N015	25.7	53
16	N016	25.94	54
17	N017	26.18	54
18	N018	26.41	55
19	N019	26.63	55
20	N020	26.84	56
21	N021	27.05	56
22	N022	27.25	56
23	N023	27.44	57
24	N024	27.62	57
25	N025	27.79	57
26	N026	27.95	58
27	N027	28.1	58
28	N028	28.24	58
29	N029	28.37	59
30	N030	28.48	59
31	N031	28.58	59
32	N032	28.66	59
33	N033	28.72	59
34	N034	28.77	59
35	N035	28.8	60
36	N036	28.8	60
37	N037	28.78	59
38	N038	28.74	59
39	N039	28.67	59
40	N040	28.58	59
41	N041	28.46	59
42	N042	28.3	59
43	N043	28.12	58
44	N044	27.9	58
45	N045	27.64	57
46	N046	27.36	57
47	N047	27.04	56
48	N048	26.69	55
49	N049	26.3	54
50	N050	25.9	54
51	N051	25.46	53
52	N052	25.01	52

NORTH FACADE			
Item	Run	Lenght (ft)	Nodes per line
53	N053	24.55	51
54	N054	24.09	50
55	N055	23.62	49
56	N056	23.15	48
57	N057	22.67	47
58	N058	22.21	46
59	N059	21.74	45
60	N060	21.29	44
61	N061	20.85	43
62	N062	20.43	43
63	N063	20.02	42
64	N064	19.63	41
65	N065	19.27	40
66	N066	18.93	39
67	N067	18.62	39
68	N068	18.35	38
69	N069	18.11	38
70	N070	17.91	37
71	N071	17.75	37
72	N072	17.63	37
73	N073	17.55	37
74	N074	17.52	37
75	N075	17.54	37
76	N076	17.6	37
77	N077	17.71	37
78	N078	17.87	37
79	N079	18.07	38
80	N080	18.32	38
81	N081	18.61	39
82	N082	18.92	39
83	N083	19.26	40
84	N084	19.63	41
85	N085	20	42
86	N086	20.38	42
87	N087	20.76	43
88	N088	12.13	26
89	N089	21.5	45
90	N090	21.86	45
91	N091	22.2	46
92	N092	22.64	47
93	N093	22.86	47
94	N094	23.17	48
95	N095	23.48	49
96	N096	23.77	49
97	N097	24.06	50
98	N098	24.34	50
99	N099	24.62	51
100	N100	24.9	52
101	N101	25.19	52
102	N102	25.49	53
103	N103	25.81	53
104	N104	26.15	54

NORTH FACADE			
Item	Run	Lenght (ft)	Nodes per line
105	N105	26.52	55
106	N106	26.91	56
107	N107	27.34	57
108	N108	27.81	58
109	N109	28.32	59
110	N110	28.88	60
111	N111	29.49	61
112	N112	30.15	62
113	N113	30.86	64
114	N114	31.6	65
115	N115	32.35	67
116	N116	33.11	68
117	N117	33.84	70
118	N118	34.54	71
119	N119	35.19	73
120	N120	35.78	74
121	N121	36.29	75
122	N122	36.7	76
123	N123	37.01	76
124	N124	37.19	77
125	N125	37.25	77
126	N126	37.16	77
127	N127	36.93	76
128	N128	36.53	75
129	N129	35.98	74
130	N130	35.26	73
131	N131	34.38	71
132	N132	33.34	69
133	N133	32.14	66
134	N134	30.78	64
135	N135	29.27	60
136	N136	27.61	57
137	N137	25.8	53



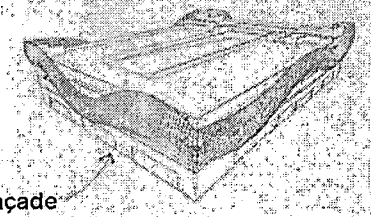
North Façade

North Façade

Total: 7326 nodes

WEST FACADE			
Item	Run	Lenght (ft)	Nodes per line
1	W001	25.27	53
2	W002	25.12	53
3	W003	24.91	53
4	W004	24.65	52
5	W005	24.34	51
6	W006	23.99	51
7	W007	23.61	50
8	W008	23.2	49
9	W009	22.78	48
10	W010	22.36	47
11	W011	21.93	47
12	W012	21.51	46
13	W013	21.1	45
14	W014	20.71	44
15	W015	20.34	43
16	W016	20.01	43
17	W017	19.71	42
18	W018	19.46	42
19	W019	19.25	41
20	W020	19.1	41
21	W021	18.98	41
22	W022	18.94	41
23	W023	18.95	41
24	W024	19.01	41
25	W025	19.12	41
26	W026	19.27	41
27	W027	19.46	42
28	W028	19.67	42
29	W029	19.9	42
30	W030	20.14	43
31	W031	20.37	43
32	W032	20.58	44
33	W033	20.77	44
34	W034	20.93	45
35	W035	21.05	45
36	W036	21.15	45
37	W037	21.23	45
38	W038	21.28	45
39	W039	21.32	45
40	W040	21.34	45
41	W041	21.35	45
42	W042	21.34	45
43	W043	21.32	45
44	W044	21.3	45
45	W045	21.26	45
46	W046	21.23	45
47	W047	21.19	45
48	W048	21.14	45
49	W049	21.1	45
50	W050	21.06	45
51	W051	21.02	45
52	W052	20.98	45

WEST FACADE			
Item	Run	Lenght (ft)	Nodes per line
53	W053	20.95	45
54	W054	20.92	45
55	W055	20.91	45
56	W056	20.9	44
57	W057	20.9	44
58	W058	20.92	45
59	W059	20.95	45
60	W060	21	45
61	W061	21.07	45
62	W062	21.16	45
63	W063	21.27	45
64	W064	21.41	46
65	W065	21.57	46
66	W066	21.77	46
67	W067	22.01	47
68	W068	22.29	47
69	W069	22.62	48
70	W070	22.99	49
71	W071	23.41	50
72	W072	23.87	51
73	W073	24.36	52
74	W074	24.89	53
75	W075	25.44	54
76	W076	26.02	55
77	W077	26.62	56
78	W078	27.22	57
79	W079	27.83	59
80	W080	28.44	60
81	W081	29.04	61
82	W082	29.63	62
83	W083	30.19	63
84	W084	30.71	64
85	W085	21.2	45
86	W086	31.65	66
87	W087	32.04	67
88	W088	32.39	68
89	W089	32.69	68
90	W090	32.93	69
91	W091	33.14	69
92	W092	33.32	70
93	W093	33.49	70
94	W094	33.69	70
95	W095	33.98	71



West Façade

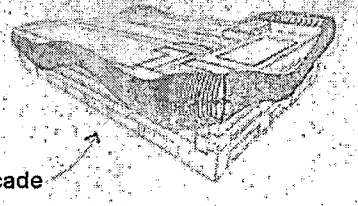
West Façade

Total: 4694 nodes

SOUTH FACADE			
Item	Run	Lenght (ft)	Nodes per line
1	S001	33.98	71
2	S002	34.13	71
3	S003	34.28	72
4	S004	34.43	72
5	S005	34.57	72
6	S006	34.72	73
7	S007	34.85	73
8	S008	34.98	73
9	S009	35.1	73
10	S010	35.22	74
11	S011	35.33	74
12	S012	35.42	74
13	S013	35.51	74
14	S014	35.59	74
15	S015	35.65	74
16	S016	35.7	75
17	S017	35.73	75
18	S018	35.74	75
19	S019	35.74	75
20	S020	35.72	75
21	S021	35.68	75
22	S022	35.62	74
23	S023	35.53	74
24	S024	35.43	74
25	S025	35.3	74
26	S026	35.14	73
27	S027	34.96	73
28	S028	34.76	73
29	S029	34.53	72
30	S030	34.28	72
31	S031	34	71
32	S032	33.69	70
33	S033	33.37	70
34	S034	33.02	69
35	S035	32.66	68
36	S036	23.27	49
37	S037	31.87	67
38	S038	31.46	66
39	S039	31.04	65
40	S040	30.61	64
41	S041	30.17	63
42	S042	29.74	62
43	S043	29.31	62
44	S044	28.88	61
45	S045	28.47	60
46	S046	28.07	59
47	S047	27.68	58
48	S048	27.31	58
49	S049	26.96	57
50	S050	26.63	56
51	S051	26.32	55
52	S052	26.04	55

SOUTH FACADE			
Item	Run	Lenght (ft)	Nodes per line
53	S053	25.78	54
54	S054	25.56	54
55	S055	25.36	54
56	S056	25.18	53
57	S057	25.04	53
58	S058	24.92	53
59	S059	24.83	52
60	S060	24.77	52
61	S061	24.73	52
62	S062	24.72	52
63	S063	24.73	52
64	S064	24.76	52
65	S065	24.82	52
66	S066	24.89	53
67	S067	24.98	53
68	S068	25.08	53
69	S069	25.2	53
70	S070	25.33	53
71	S071	25.46	54
72	S072	25.6	54
73	S073	25.75	54
74	S074	25.9	55
75	S075	26.06	55
76	S076	26.23	55
77	S077	26.4	56
78	S078	26.58	56
79	S079	26.76	56
80	S080	26.94	57
81	S081	27.13	57
82	S082	27.32	58
83	S083	27.51	58
84	S084	27.71	58
85	S085	27.9	59
86	S086	28.09	59
87	S087	28.28	59
88	S088	28.47	60
89	S089	28.65	60
90	S090	28.83	61
91	S091	29	61
92	S092	29.16	61
93	S093	29.31	62
94	S094	29.45	62
95	S095	29.58	62
96	S096	29.7	62
97	S097	29.8	63
98	S098	29.88	63
99	S099	29.93	63
100	S100	29.95	63
101	S101	29.94	63
102	S102	29.85	63
103	S103	29.78	63
104	S104	29.63	62

SOUTH FACADE			
Item	Run	Lenght (ft)	Nodes per line
105	S105	29.44	62
106	S106	29.2	61
107	S107	28.93	61
108	S108	28.63	60
109	S109	28.3	60
110	S110	27.94	59
111	S111	27.56	58
112	S112	27.17	57
113	S113	26.77	56
114	S114	26.35	56
115	S115	25.93	55
116	S116	25.51	54
117	S117	25.09	53
118	S118	24.68	52
119	S119	24.27	51
120	S120	23.87	51
121	S121	23.48	50
122	S122	23.11	49
123	S123	22.74	48
124	S124	22.39	48
125	S125	22.05	47
126	S126	21.73	46
127	S127	21.42	46
128	S128	21.12	45
129	S129	20.84	44
130	S130	20.57	44
131	S131	20.31	43
132	S132	20.07	43
133	S133	19.84	42
134	S134	19.61	42
135	S135	19.4	41
136	S136	19.2	41
137	S137	19.01	41



South Façade

South Façade

Total: 8198 nodes

Control System

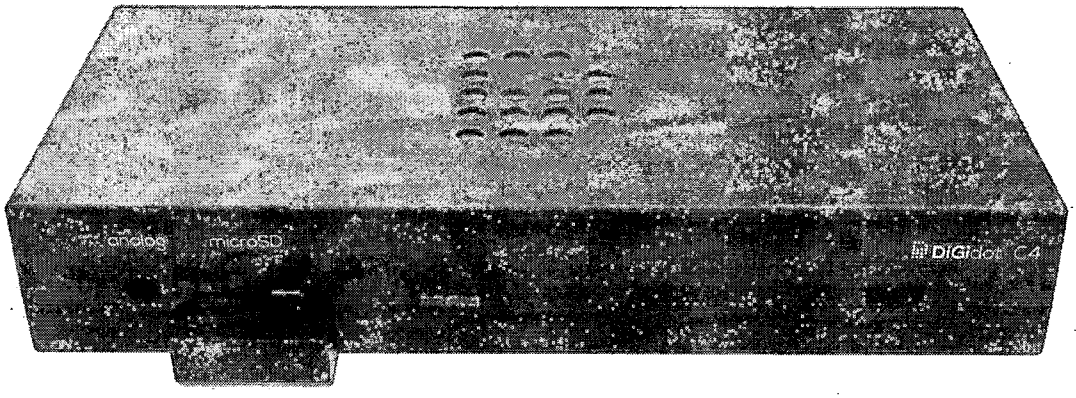
Our lighting control system, based on ARTNET and SPI protocols, is designed with a strong emphasis on the robustness of its components to ensure the uninterrupted display of organic and fluid visual content. The system's reliability is essential to maintain the continuous flow and dynamic transformation that define the visual experience.

Static or repetitive patterns tend to quickly diminish the impact and emotional engagement of the installation, whereas evolving, natural-looking content strengthens the connection between visitors and the architecture.

To support this, we employ specialized tools such as **ELM**, which translates developed content into ARTNET and SPI while managing automation and scheduling; **TouchOSC**, for manual scene control over a local Ethernet network; **After Effects, Motion5, and Photoshop**, for the design and animation of dynamic visual sequences; and **3ds Max, Lumion, and Twinmotion**, for detailed previsualizations and renderings.

By combining a robust control system with specialized content creation tools, we ensure lighting experiences that are both technically resilient and visually distinctive, reinforcing the project's unique identity.

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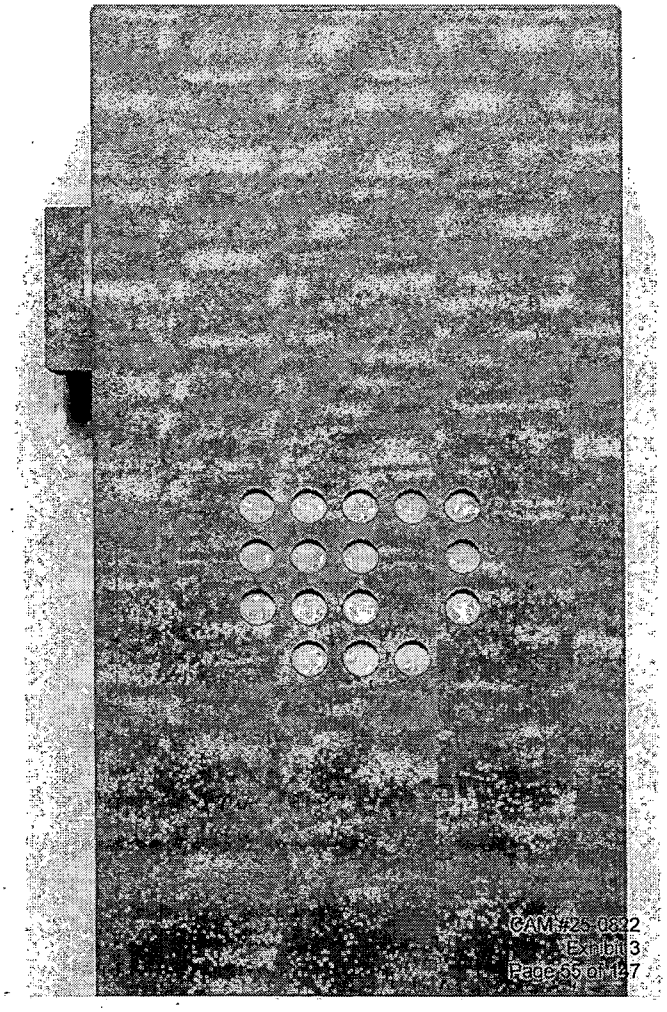
C4 Extended Specification Sheet

DiGidot
PUSHING CONTROL BOUNDARIES

PUSHING CONTROL BOUNDARIES

The DiGidot C4 Extended is a multi functional LED pixel controller that converts Art-Net and DMX to SPI protocols. The output capacity goes up to 8 universes, which is 4096 channels (depending on the C4 license). The internal DHCP server, Wi-Fi and free DiGidot App grand easy access of the internal web interface. A built in network switch allows multiple DiGidot C4 controllers to be daisy chained to create an extensive control network. The DiGidot C4 Extended offers Art-Net & DMX recording, playback and triggering. Extensive triggering options such as analog and digital triggers as well as the integrated calendar offer great flexibility for system integration. Countless extra features such as DMX in and out, Art-Net IP Address filter, Art-Net routing, HTP input signal merger, Art-Net & DMX Monitor, in-/output channel repeater, Gamma correction, adjustable fall back color, output limiters, make this the most powerful LED pixel controller on the market.





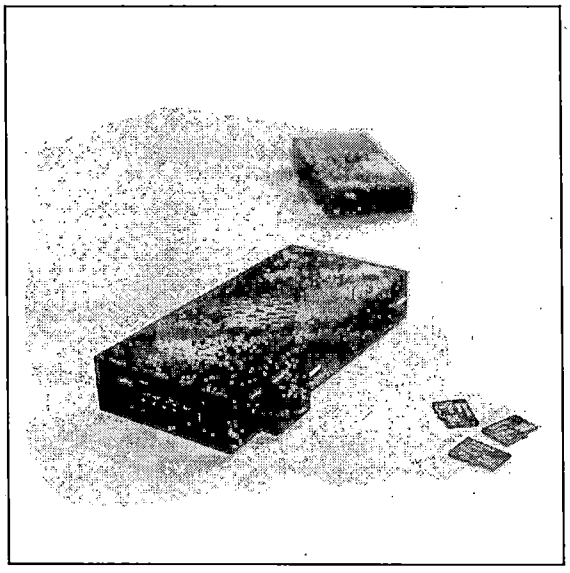
DiGidot

CAM #25-0812
Exhibit 3
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specification sheet

DiGidot C4 Extended

extended 1	20201
extended 2	20202
extended 3	20203
extended 4	20204



description

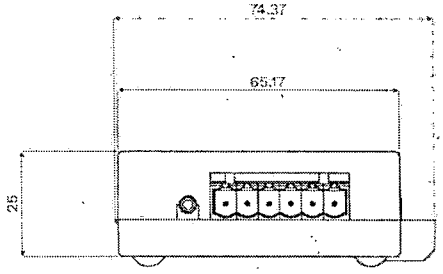
The DiGidot C4 Extended combines all the DiGidot C4 Live features but includes many more powerful features such as recording, a scene generator, playlists, triggering functions, etc.

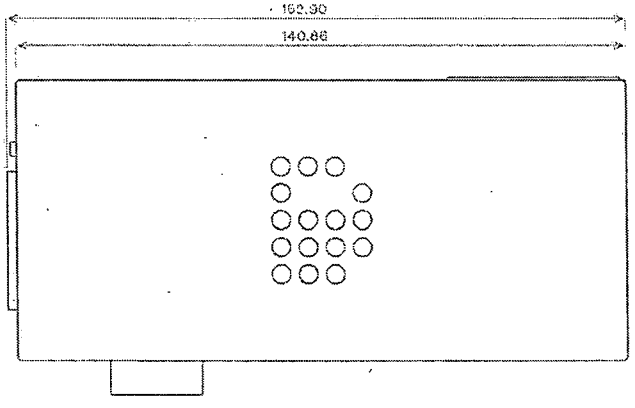
The DiGidot C4 Extended is the perfect solid state stand-alone controller. The DiGidot C4 supports more than 59 SPI protocols and many other industry standard lighting control protocols. We're constantly updating and improving our compatibility by adding new protocols you our system.

summary

- Up to 8 universes (4.096 channels)
- Supports more than 59 protocols
- Art-Net + DMX in & out
- Art-Net/DMX recording & playback
- Analog & digital triggers
- Compact size
- Wide voltage range (5-24 Vdc)
- Easy to connect
- Web interface & free App
- Reliable & easy to use

technical drawings





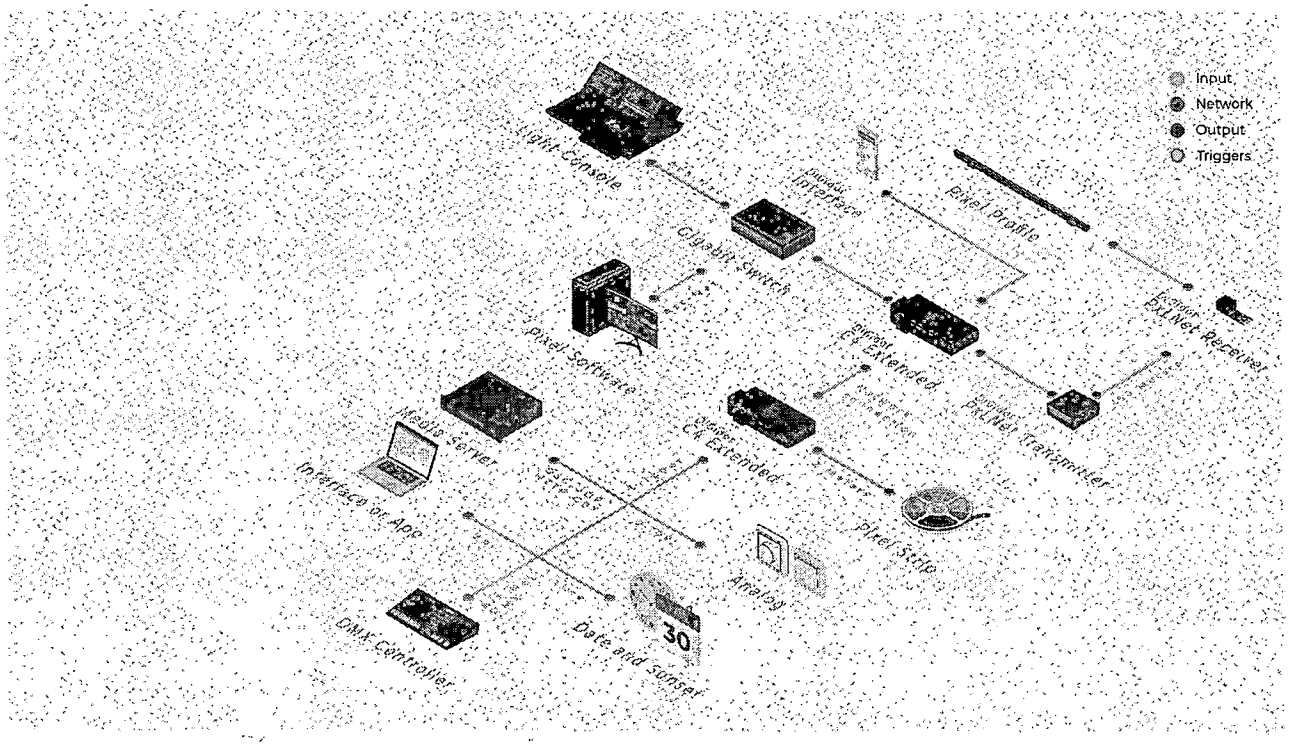
specifications

Input voltage	5-24 Vdc
Max. Power consumption	**5W**
Housing material	Self extinguishing Acrylonitril-Butadieen-Styreen(ABS)
Dimensions	**153 x 74 x 28 mm | 6.02 x 2.91 x 1.10" (L x W x H)**
Weight	140gr | 4.93oz
Mounting	**DIN-Rail or surface mounted**
Operation Temperature (Tc)	0 to 50°C | 32 to 122°F
Ambient Temperature (Ta)	**40°C | 104°F**
Storage temperature	-20 to 50°C | -4 to 122°F
Operating relative humidity	**90% (indoor use only)**
IP rating	IP10
Input Protocols	**Art-Net 1,2,3 & 4 | DMX512 (2 inputs)**
Output Protocols	Art-Net 1,2,3 & 4 (out/through) | DMX512 (2 outputs) | DMX TTL (4 outputs) | 59+ SPI protocols (check supported IC's list)
Output channels	**512 / 1048 / 2048 / 4096 Art-Net and/or up to 1024 DMX channels**
Ethernet	RJ45 compatible, for 10/100 Base-TX Ethernet with static IP address or smart DHCP
Wi-Fi	**10/100 Base Ethernet with static IP address or DHCP**
Wi-Fi protocols	802.11 b/g/n (HT20)
Frequency range	**2.4 GHz ~ 2.5 GHz (2400M ~ 2483.5M)**
TX Power	Max. +20 dBm
Antenna	**On board**
WiFi Mode	Client + Access Point
WiFi security	**WPA, WPA2**
Encryption	WEP/TKIP/AES
Wiring	**Max. 2,5 mm² | 14 AWG**
Connectors	Power: 5-24 Vdc power jack, Art-Net Data: RJ45 bus, IO port: 6-pin Input/Output terminal connector
Compliances	**CE, listed under No. 2016/119-1, cETL US, listed under No. 5010008, RoHs**
Applied standards	EN60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013, IEC60950-1 /EN60950-1, EN61006-6-3, EN55032

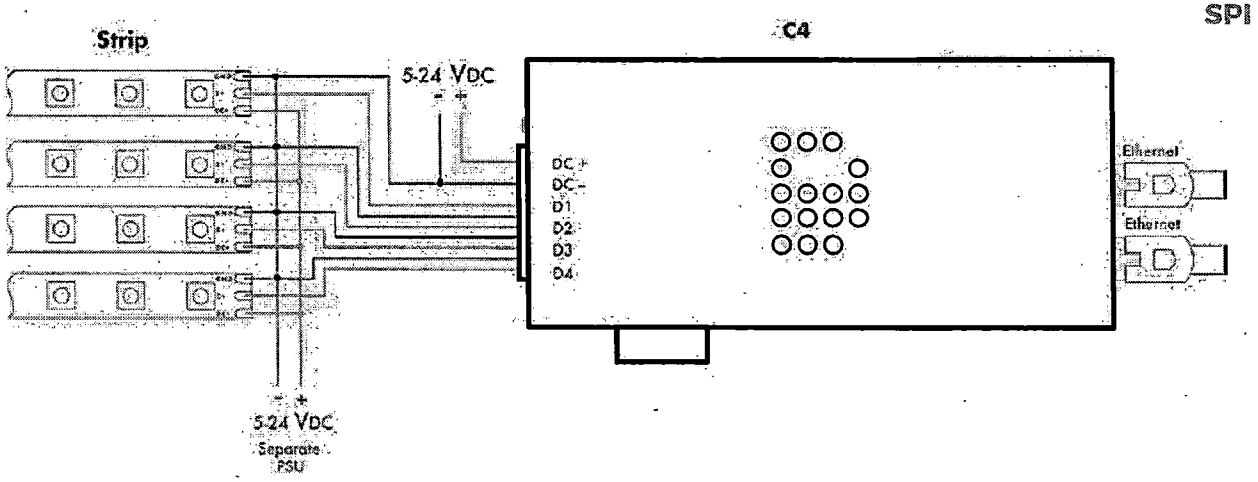
extended specifications

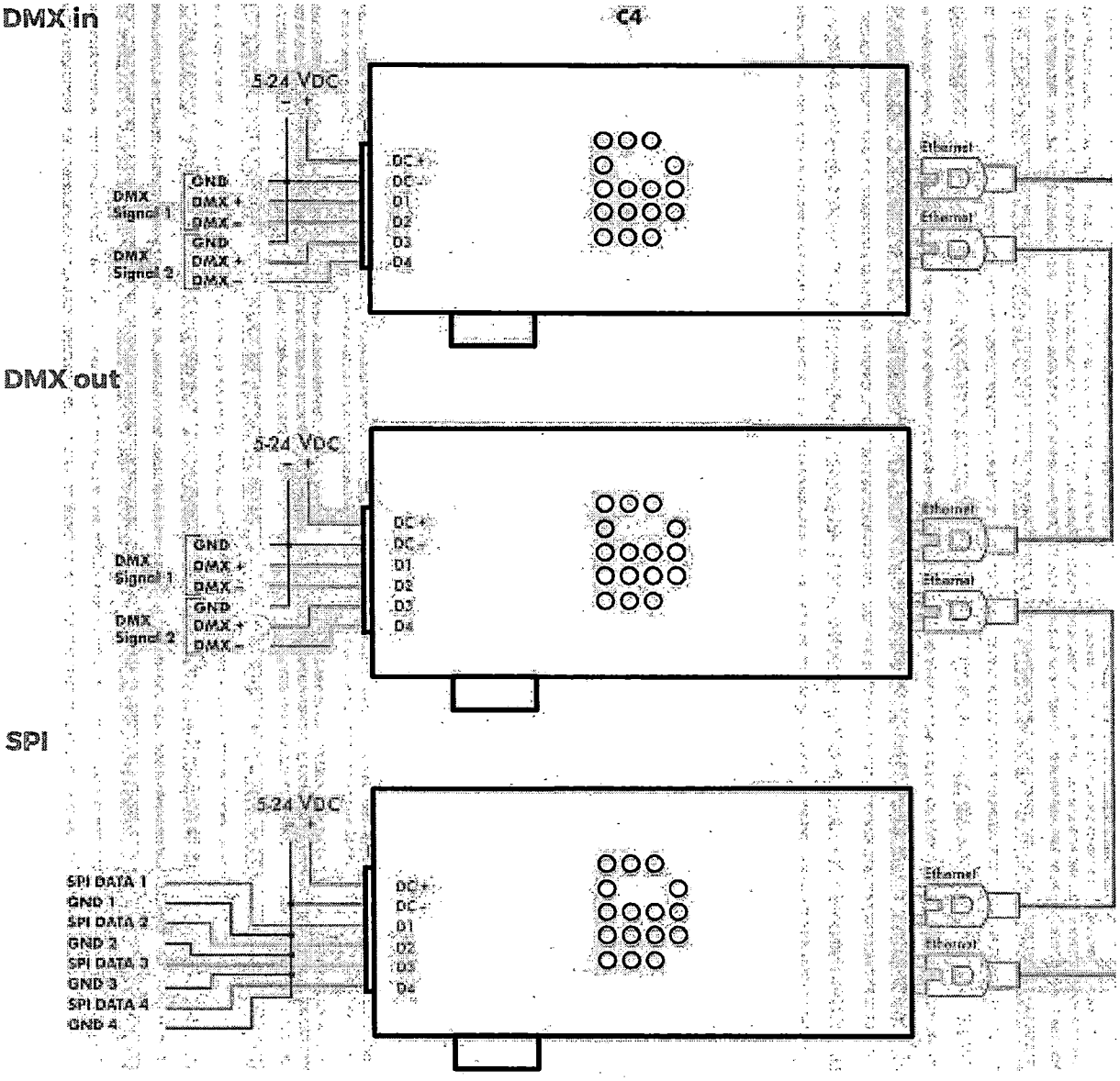
Trigger port	**Max. 3 dry contacts Max. 3 analog inputs (0-10V, 1-10V, 50KΩ potentiometer)**
DiGidot triggers	Internal timer/calendar, Sunrise/Sunset triggering (GPS or city based), Power up, Onwboard button, Art-Net, DMX, OSC,
UDP,	HTTP-Get, JSON, Internal tasks (playing/not playing a scene, presence or absence of Art-Net), DiGidot Web interface, DiGidot App
Memory card	**8 GB Industrial grade microSD card (4 GB for record buffer,**

system overview



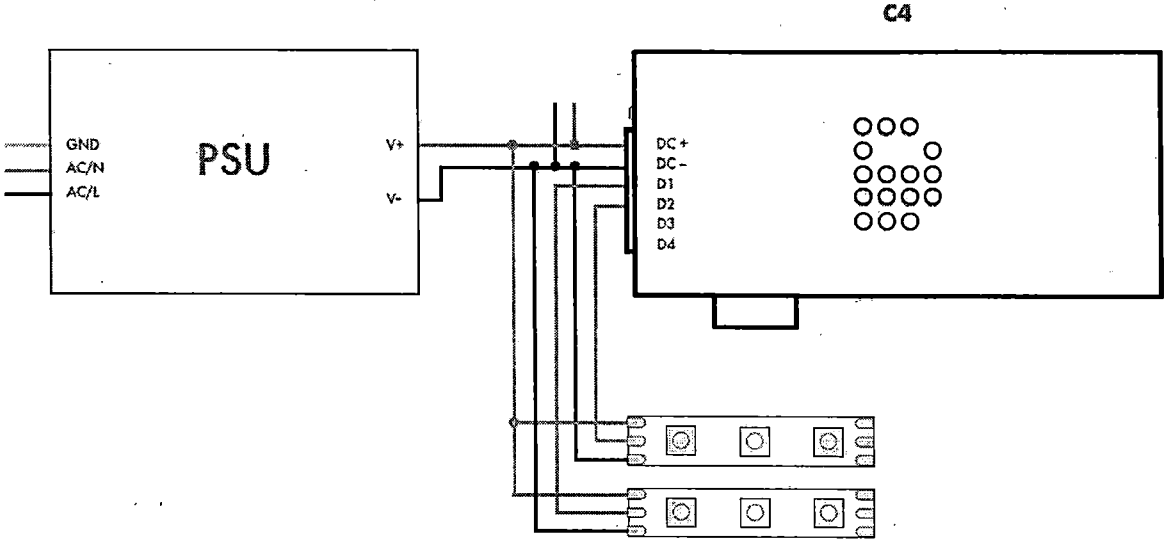
wiring schemes (data)

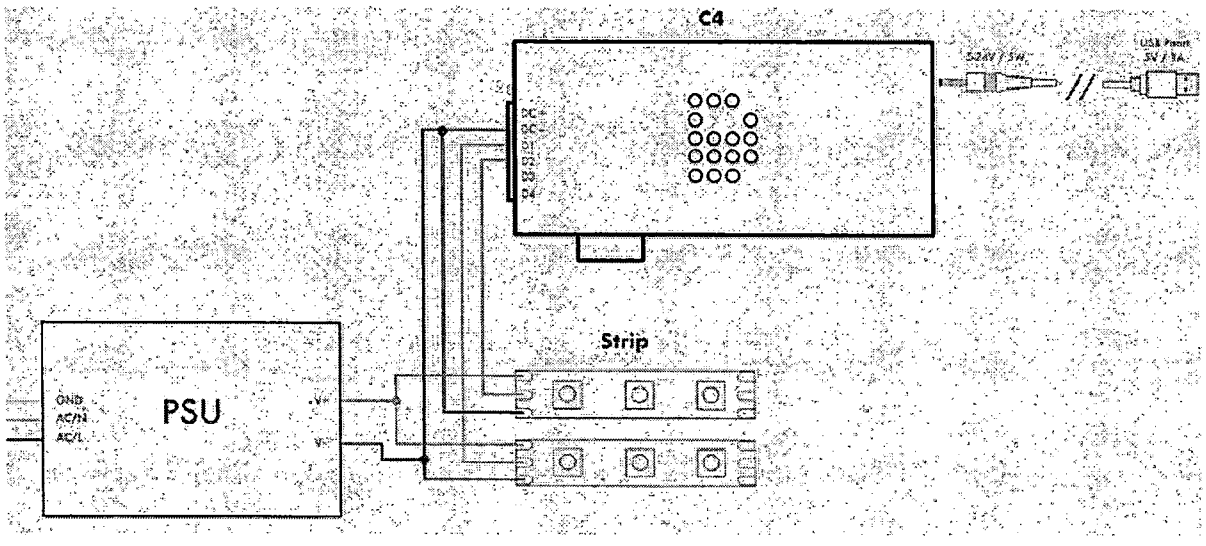




IMPORTANT: All Grounds, from the DiGidot C4 and all power supplies must be connected. The Ground output wires of each Data pair from the DiGidot C4 output must be equal in length as the Data wires.

wiring schemes (power)





For more wiring schemes, and technical information, please read the DiGidot C4 user manual.

Address
DiGidot Technologies BV
Valschermkade 27
1059 CD Amsterdam
The Netherlands

Phone number
+31 (0) 20 820 1849

Email
info@digidot.eu

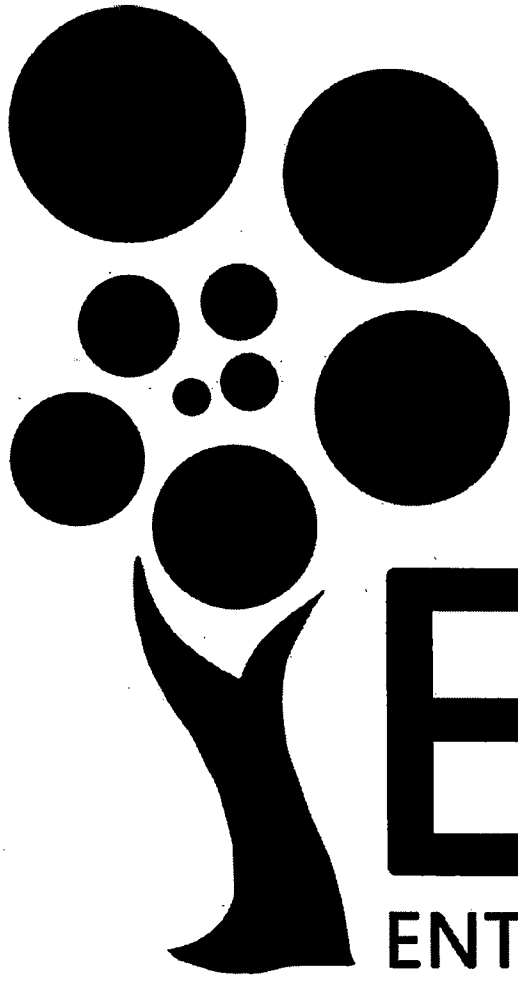
Website
www.digidot.eu

DiGidot

C4 Extended

/Digidot-Technologies-b.v.

/DigidotTechnologies



ELM™

ENTTEC LED MAPPER

The ultimate, intuitive LED pixel mapping software solution

Key Features

ELM is all about displaying your video content on LED fixtures of any shapes, in the most convenient way.

- ✓ 3D and 2D Vector-based editor
- ✓ 8192 DMX universes
- ✓ Art-Net, sACN, KiNet
- ✓ Scheduled sequences
- ✓ Control via DMX, OSC, OS2L, MIDI and HTTP
- ✓ CITP/MSEX for consoles and visualizers
- ✓ HD video + audio playback
- ✓ Spout + NDI integrations for live video inputs
- ✓ Stream LED previews to visualizers via NDI
- ✓ DVI outputs for projectors, TVs and Martin P3 system
- ✓ Over 100 high quality animations included
- ✓ Audio-reactive effects
- ✓ RGB, RGBW, RGBA, RGBAW
- ✓ Multiple whites support and WWA
- ✓ 16-bit color support
- ✓ DXF and CSV import
- ✓ Extreme robustness for permanent installations

Computer Requirements

ELM is compatible with Windows 7 and up, including Windows 8, 10 and 11.

The .Net 4.8 framework is required and you'll be prompted to install it if needed.

Minimum

- Windows 7+, dual core 2 GHz CPU, 2 GB RAM
- NVIDIA GeForce 600 series or Intel HD Graphics 5500, released after 2013 with OpenGL 3.3 support

Recommended

- Windows 10 or 11, quad core 3.5 GHz CPU, 8 GB RAM
- NVIDIA GeForce 900 series or NVIDIA 10 series or better
- SSD hard drive

The computer requirements depend on your media type. For example, playing multiple HD videos requires a good computer. A rule of thumb is you can play one full HD video @ 30fps for each 2 GHz CPU core. So if you have an Intel i7 4 GHz (4 cores), you should be able to play 8 full HD videos. Increasing the playback speed to 2x means the fps also increases two times and the number of videos you can play simultaneously is roughly divided by two.

The next table shows the approximate number of videos you can play simultaneously at 30 fps depending on your CPU.

CPU Speed x Cores	Full HD Videos	HD Videos	640x360 Videos
2 GHz x 2	2	4	10
3 GHz x 2	3	6	15
4 GHz x 2	4	9	20
2 GHz x 4	4	9	20
3 GHz x 4	6	13	30
4 GHz x 4	8	18	> 40
3 GHz x 8	10	22	> 40

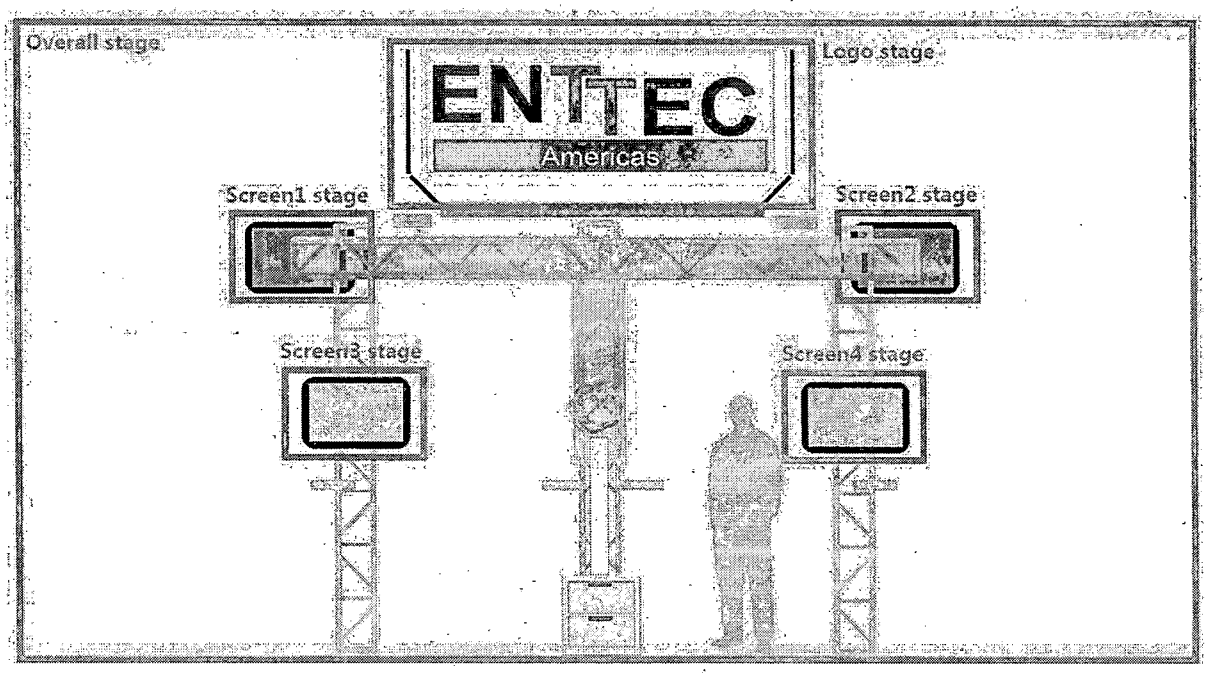
For live video performances, when you want to change the playback speed and go up to 10x, the recommended video resolution is 640x360.

To use the built-in effects, particularly the eye candy effects, the video card will be doing the hard work. If you're using a laptop, make sure it can sustain a continuous use of the effects without overheating. Usually, an integrated video card can render two eye candy effects. For more effects, you need to have a discrete video card.

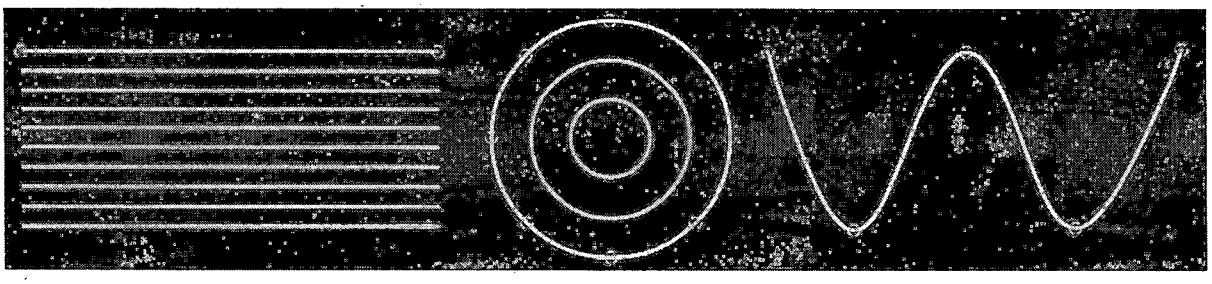
About the DMX output, a 1 Gigabit network should be able to handle 2048 universes @ 44fps. For more universes, a supplementary network card and a second Ethernet network are recommended.

Quick Overview

ELM allows dividing your installation into multiple zones and layers called stages. You control the media content independently for each stage. Stages can overlap and they are merged (blended) to generate the result. A common scenario is to create a stage spanning the whole installation to map media across the board. To enable precise control over specific zones, you create smaller stages inside the big stage. Then you activate these zones whenever you want. For example, in the installation below, we can play a video on the overall stage - which acts as the background layer - and when there's a special event, we activate the logo zone and make it flash.



To represent your LED strips and DMX fixtures inside a stage, ELM has a powerful vector-based editor. This way, you can easily draw many types of shapes, including matrices, loops and curves. ELM computes the position of each LED based on your drawing.



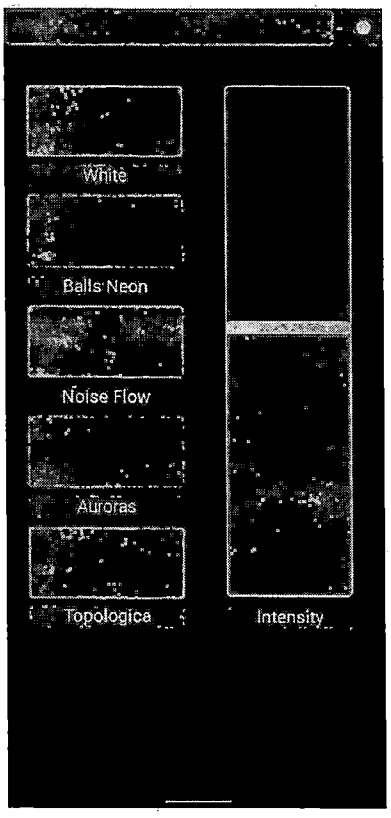
ENTTEC

Controlling ELM w/ OSC and TouchOSC

Create a convenient, user-facing control surface for your ENTTEC Pixel systems

Introduction

In this guide we are going to learn how to use the OSC protocol and 3rd party application Touch OSC to create a simple control surface for your ELM pixel system. The goal is to make a user-facing control panel that we can pass to a non-technical end user so they can control their lighting rig, without needing to have a working knowledge of the ELM software.



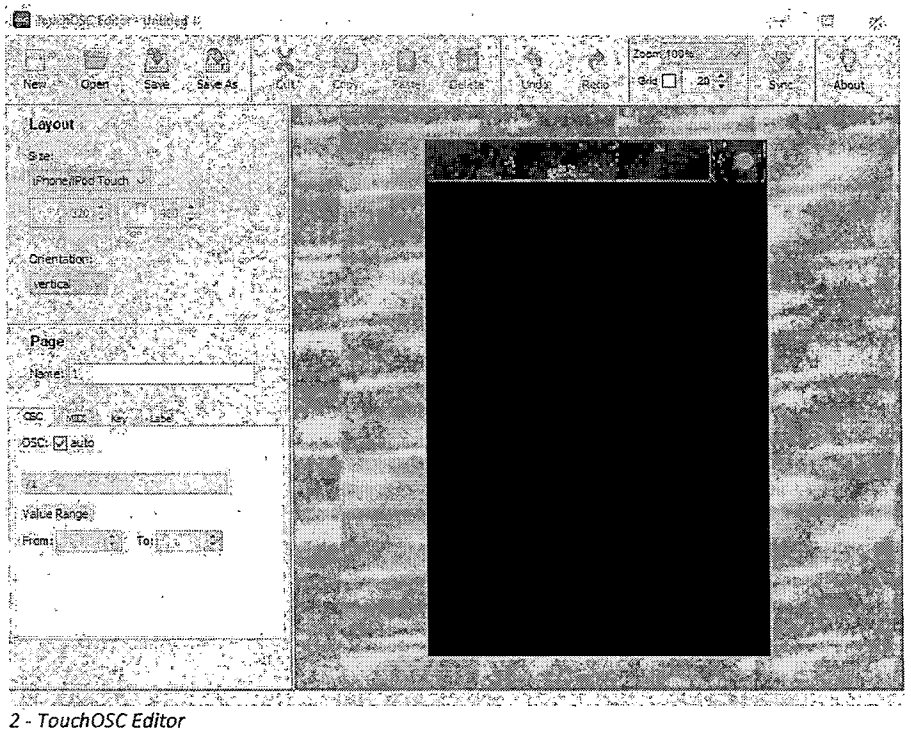
1 - Sample TouchOSC Control Panel

This is a panel with 5 pre-set patterns, and a master intensity control. Using the following steps, you can create a custom control surface as simple or complex as you need.

Creating the Touch OSC layout

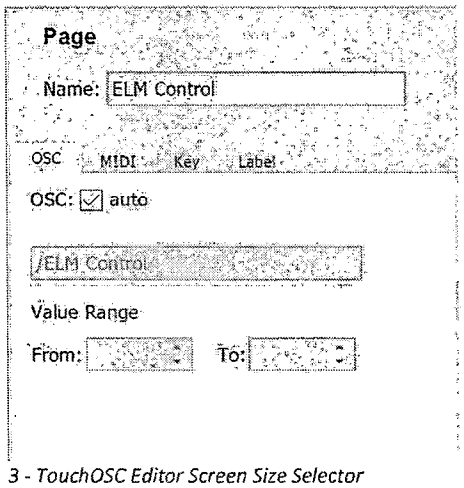
For this part, you'll need TouchOSC Editor – which is available from the Hexler website. This app lets you design your control surface on a computer, and then transfer that over to your tablet/phone.

When you open the editor, you will see a blank black box representing your device screen. Begin by naming this screen and selecting the screen size.

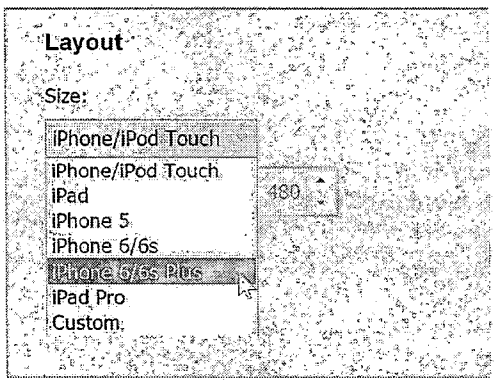


2 - TouchOSC Editor

TouchOSC editor has multiple pre-set sizes applicable for Apple devices, for many smart phones the iPhone 6 plus is a close match. Alternately you can enter your own custom values to match the screen resolution of your device.

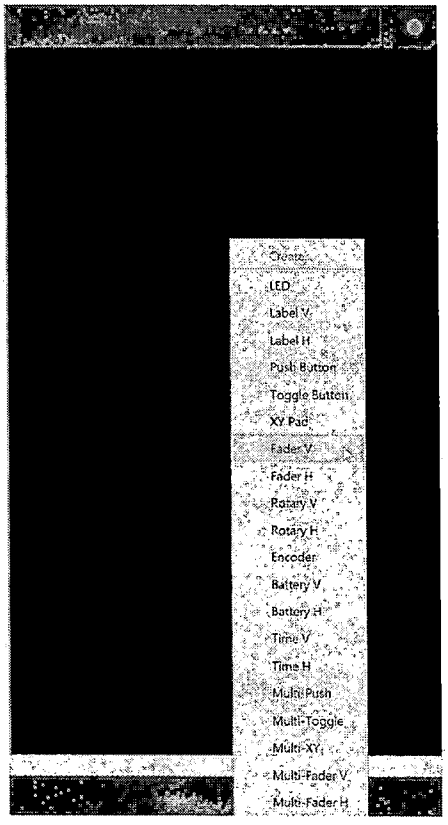


3 - TouchOSC Editor Screen Size Selector

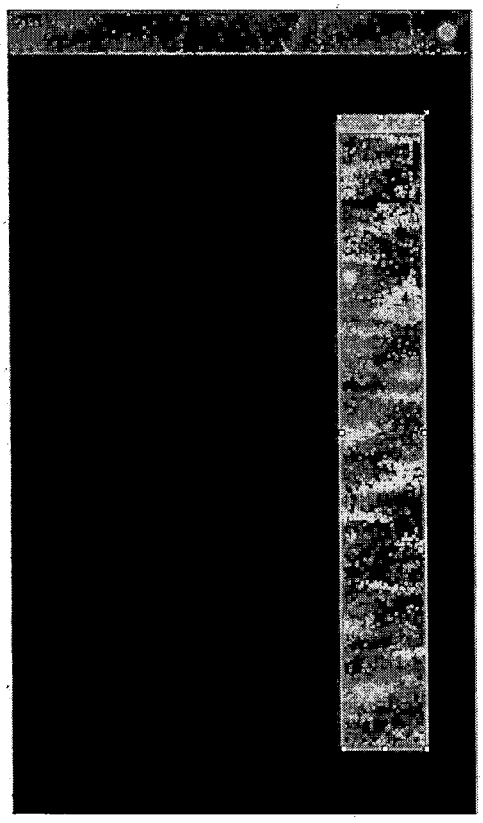


4 - TouchOSC Editor Screen Size Options

Next, you will need to add a fader to control intensity in ELM. To do this right click anywhere on the black space of your layout. A drop-down list will appear with of all the elements you can add. In this case select a vertical Fader (Fader V).



5- Add Element

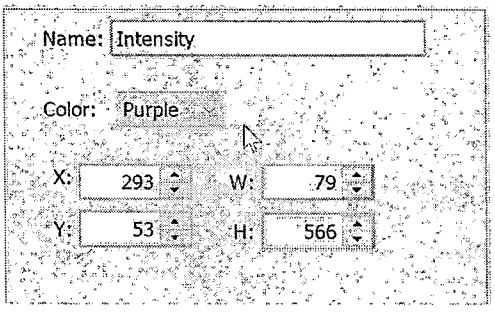


6 - Format Element

Now you can position it where you want and scale it with the re-size markers on the corners and sides.

You can also change the colour and name of your element, allowing for quick and easy identification. Be sure to check the inverted button to ensure your fader moves in the expected direction.

The layout builder always shows elements with the value of 0 so if the solid bar is at the top it will need to be inverted.

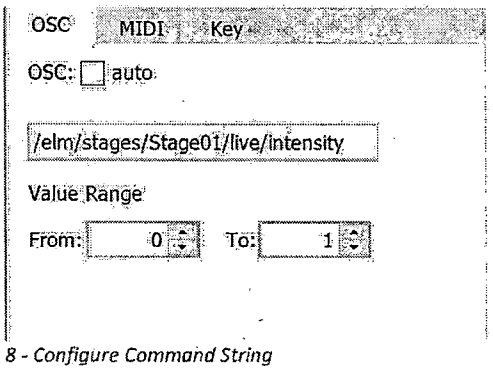


7 - Element Colour Change

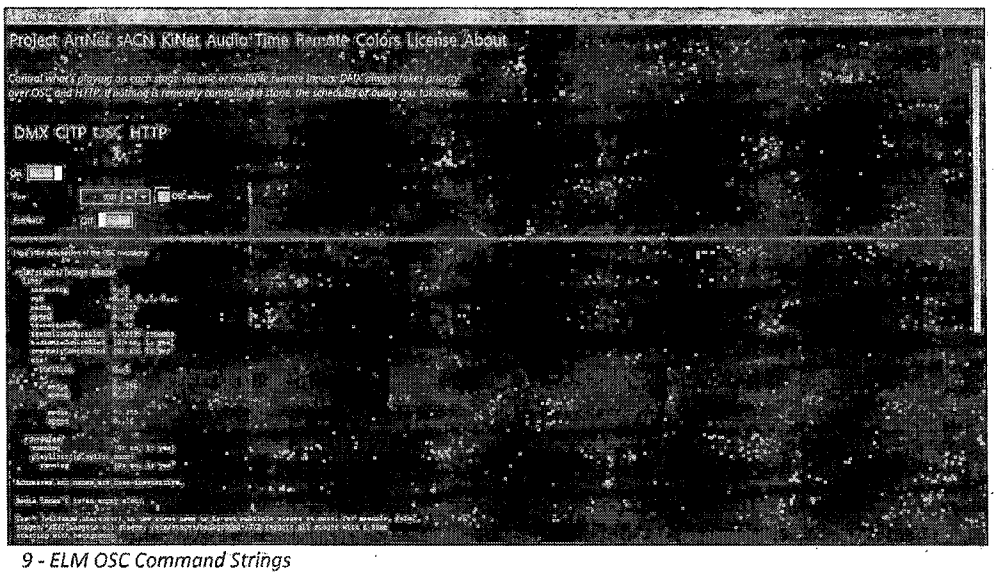
Once you are happy with the position, you can now configure the OSC command string. Touch OSC tries to create default strings based on the item's name. You will need to uncheck this allowing you to enter

your own string. Consult the ELM user manual or the convenient list in ELM under the OSC remote settings page.

For Intensity you will need to enter "/elm/stages/Stage01/live/intensity". Leave light and low values as they are.



8 - Configure Command String



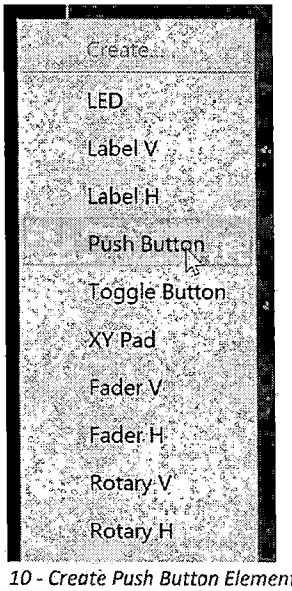
9 - ELM OSC Command Strings

Note – the OSC string is caps sensitive

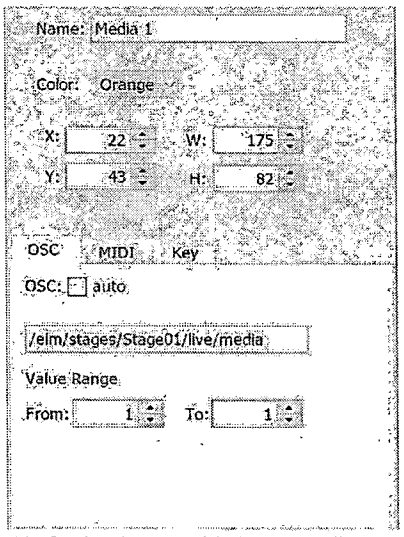
*Note – Stage01 refers to the stage you want to control. If you named your stage something different then you need to use that instead. You can also use * to refer to all stages this would look like "/elm/stages/*/live/intensity"*

Now that you have made your intensity fader, you can move on to making buttons to select the media you want to send. A push button is recommended for this. Select it from the same menu used for selecting your fader.

Re-size and move it to a suitable place on your control panel.



10 - Create Push Button Element



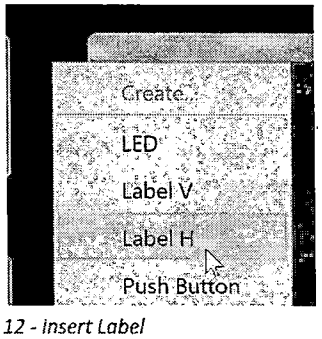
11 - Setting Command String on Media Button

As before you now need to set the OSC command for the new button This is like setting the intensity. Enter "elm/stages/Stage01/live/media" then in the value boxes set them both to be the same. This button will be selecting media slot 1 so set both the high and low values to be 1. If the low value is left at 0 it will act as a momentary switch, only activating the media while the button is held down

Next move on to the remaining 4 buttons. This can be done by repeating earlier steps, however, it is much faster to copy the button you have just made and paste it down. This also makes sure all your buttons are the same size and shape. Any copy and pasted buttons then just need their high and low valued updated to select a new piece of media so the second buttons high and low values should be set to 2, button 3 to 3 etc.

Adding labels is another useful way to keep track of what each element does. These are created in the same way as all other elements. Right click on the black space and select from the drop-down menu as needed.

The text and size can also be edited from the side menu just like other elements.



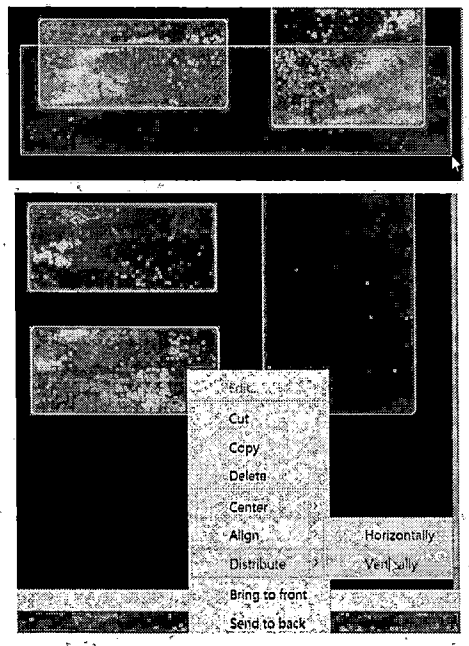
12 - Insert Label



13 - Adjust Label

Finally tidy up your screen using the align and distribute tools. These are great for giving your space a clean, user-friendly look. Access these by selecting multiple elements, 'drag and draw' over the targets and then right clicking an element. You can then select the desired tools from the drop-down menu.

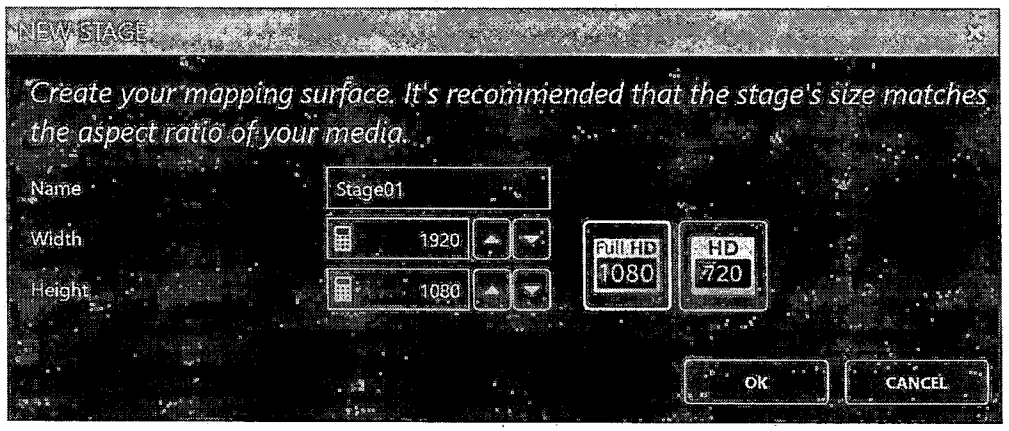
Once you are happy with your layout, save it and then transfer it over to your phone or tablet, so we can later set this as our layout screen. We'll also show you how to import this directly from your computer a bit later on.



14 - Align Elements

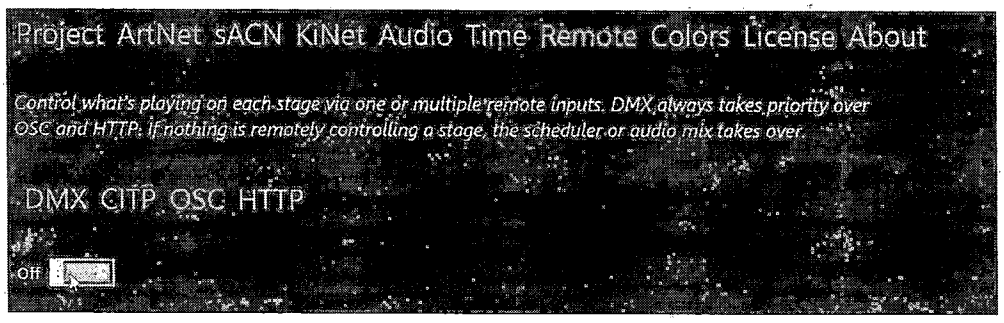
Configuring ELM for an OSC Remote

You can now shift your attention to the ELM software to prepare it for receiving OSC commands. Open ELM and make your stage using the same name that you have specified in Touch OSC editor (remembering it is case sensitive).



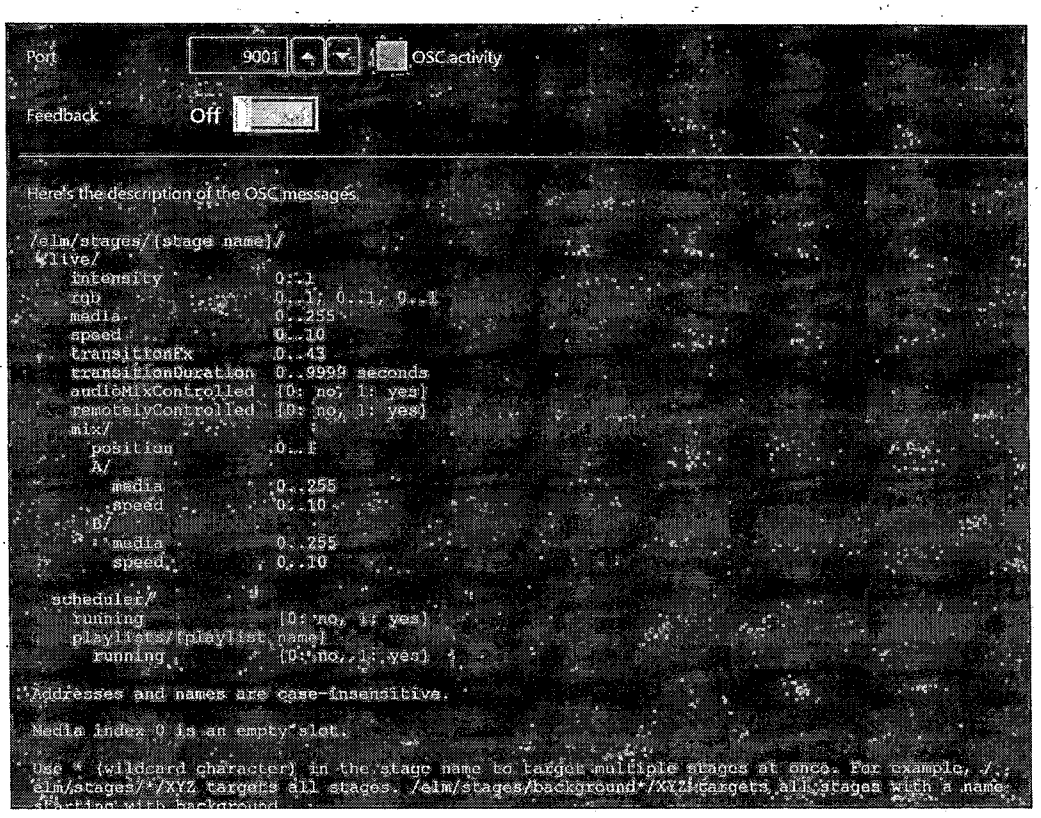
15 - ELM - Create Stage

Then navigate to the OSC remote settings. Path – Settings>Remote>OSC. Simply turn the switch to ON to allow ELM to receive OSC commands.



16 - ELM OSC Tab

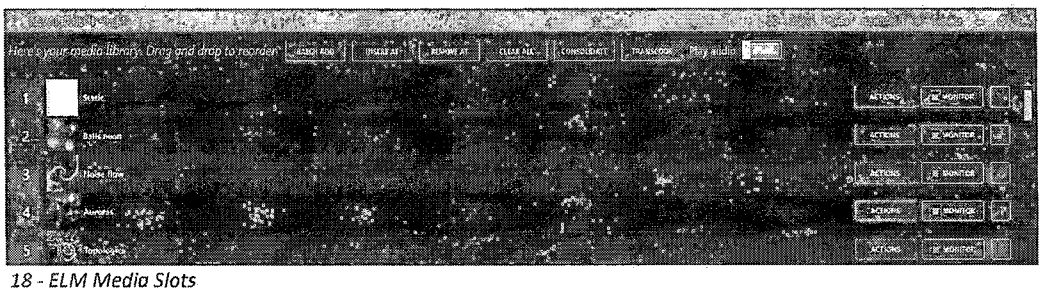
From here you just need note down the port that is being used. The default is 9001 but you can change it if desired. Feedback can be left off as it is not needed for this design.



17 - ELM OSC Settings

Note – the complete list of commands for controlling ELM is also listed here so you do not have to go searching through the user manual.

Lastly make sure your media is in the same slots used in your TouchOSC layouts buttons.



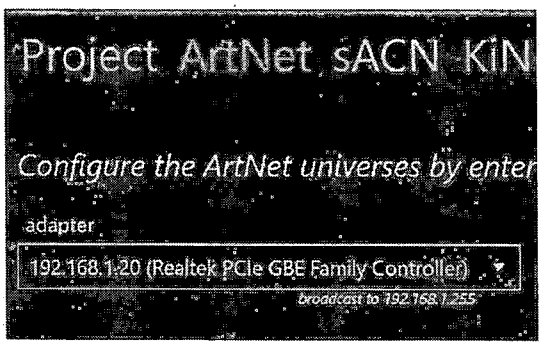
18 - ELM Media Slots

That's it, now ELM is set up ready to be able to receive OSC triggers from your phone or tablet.

Connecting Your Phone/Tablet to Your Computer

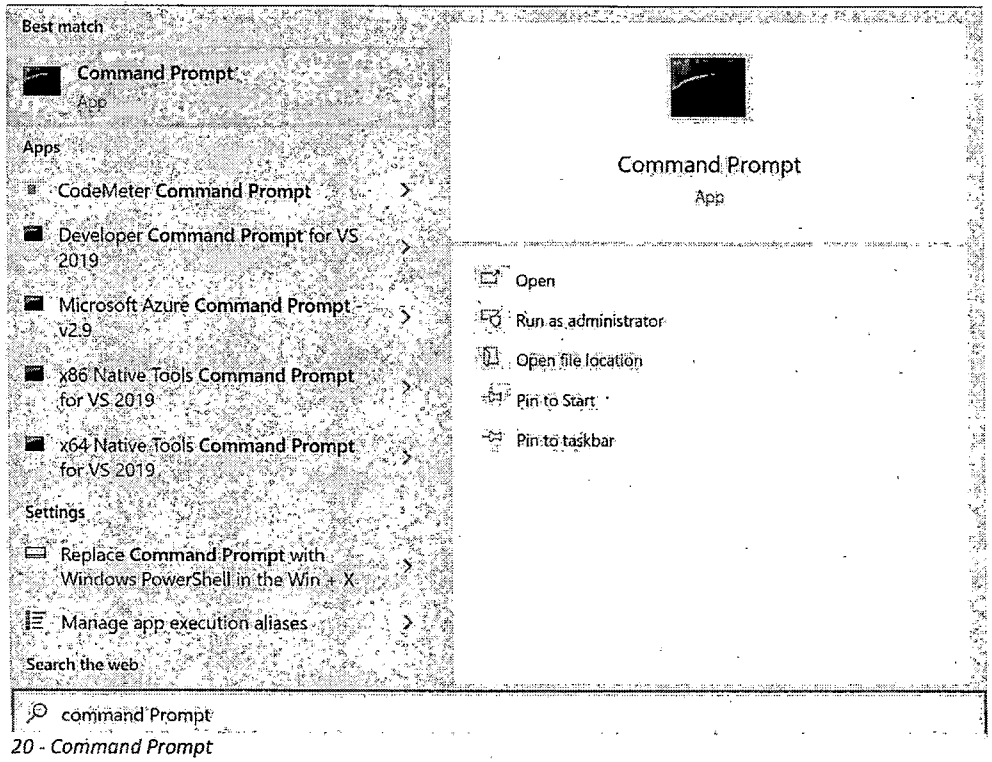
To connect your computer to your phone, install and run TouchOSC bridge – available from the Hexler website - https://hexler.net/products/touchosc
This plugin runs in the background and acts as the link between your programs and the TouchOSC app.

You also need to know the IP address of the computer for later steps. There are many ways to do this. Depending on how your Pixels have been connected you can get the IP address from ELM by going to your output settings and seeing the IP address of the adapter you are using to send your Art-Net.



19 - ELM Output Settings

Another reliable way of getting the IP address of your computer is to open command prompt which can be done by pressing [start] and typing "command prompt"



20 - Command Prompt

Then simply type "ipconfig/all" and press [ENTER].

```
>ipconfig/all
```

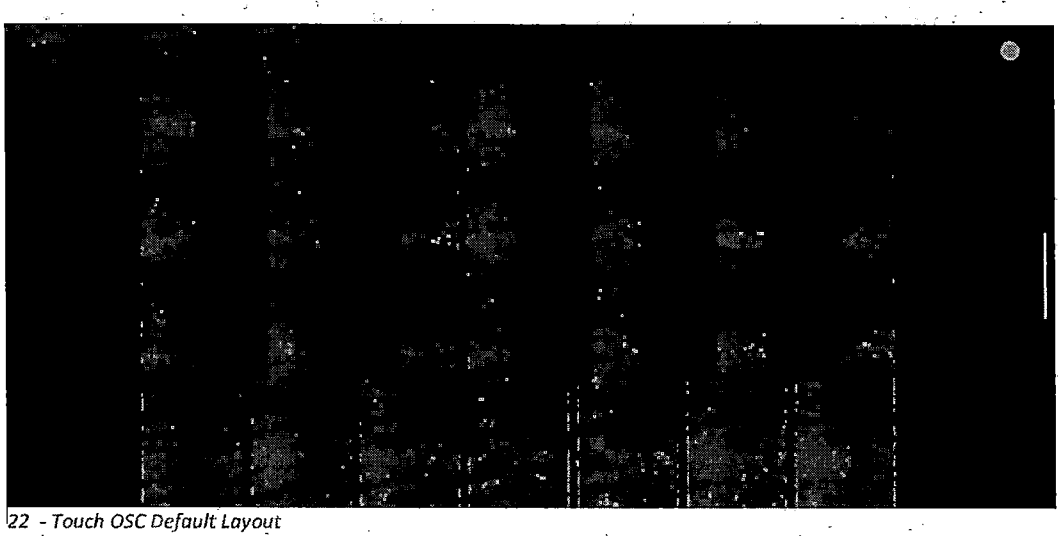
Then scroll up till you see the adapter you are using and look for the IPv4 settings.

```
Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Realtek PCIe GBE Family Controller
   Physical Address. . . . . . . . . : 2C-FD-A1-75-DC-9C
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   Link-local IPv6 Address . . . . . : fe80::386f:3d42:e97a:2512%2(Preferred)
   IPv4 Address. . . . . . . . . . . : 192.168.1.20(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
```

3 - IP Config Results

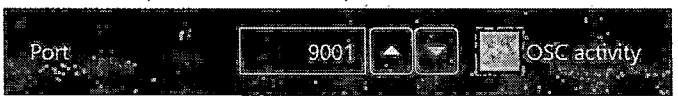
Now we need to open and configure TouchOSC. Open the TouchOSC app on your phone/tablet. When you first open TouchOSC it will show one of the many defaults loaded layouts. To change these settings, simply press the circle in the top right corner of the screen and go to *Layout* to select your own.



22 - Touch OSC Default Layout

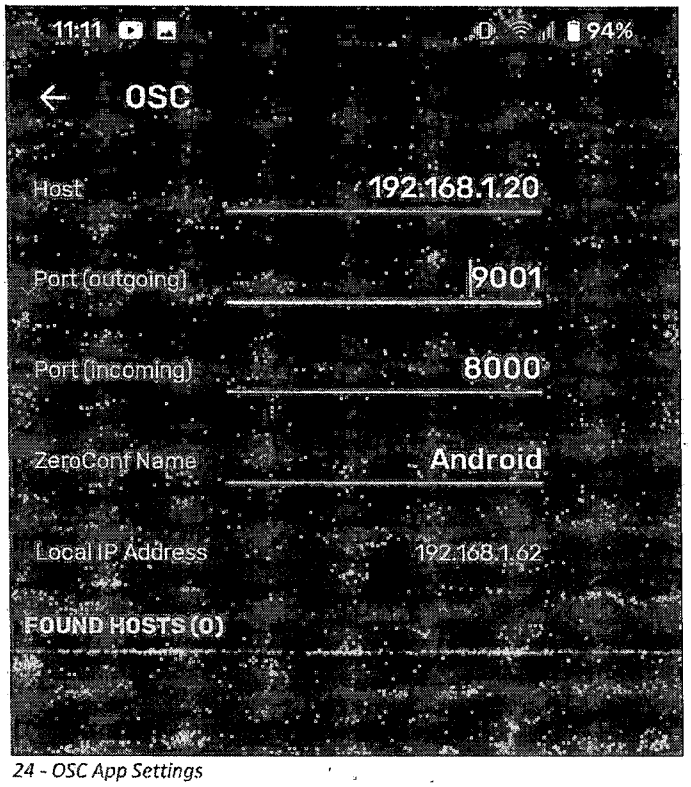
Click on the *OSC* tab, under Settings, from there enter the proper details into the different fields. Some devices will be recognized by the app and you can simply click on them for the app to auto fill the necessary settings. If not, enter the details manually

- ***Host*** - is the IP Address of your computer, which we previously determined to be 192.168.1.20
- ***Port (outgoing)*** - needs to match the port that ELM is expecting to receive on, which as we saw before, defaulted to 9001



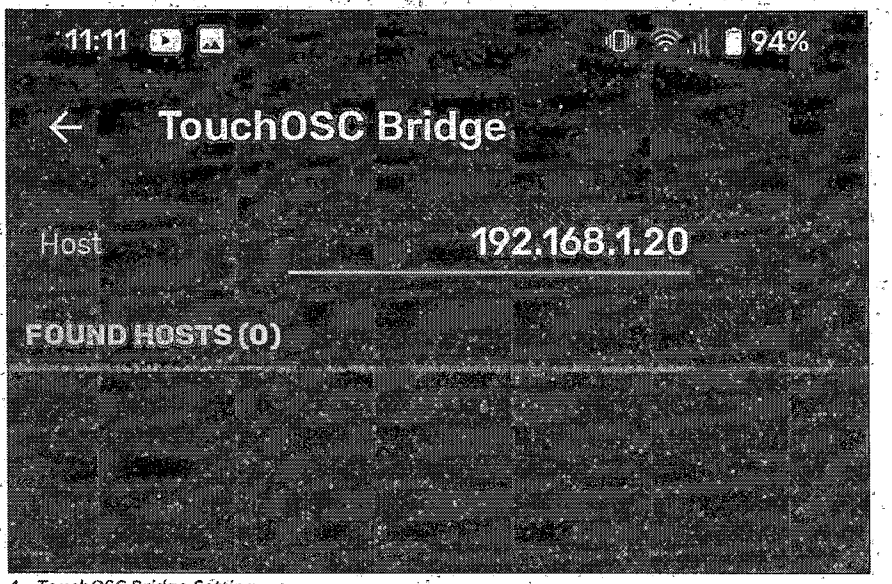
23 - ELM OSC Port Setting

- ***Port (incoming)*** - since our control panel is not receiving any feedback, this setting is irrelevant
- ***ZeroConf Name*** - you can change this to give your device a unique name



24 - OSC App Settings

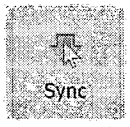
Next the TouchOSC Bridge settings need to be configured. Enter the IP address of the computer in TouchOSC Bridge. As with the OSC tab this will auto discover some computers but if it does not then just enter the IP manually.



4 - TouchOSC Bridge Setting

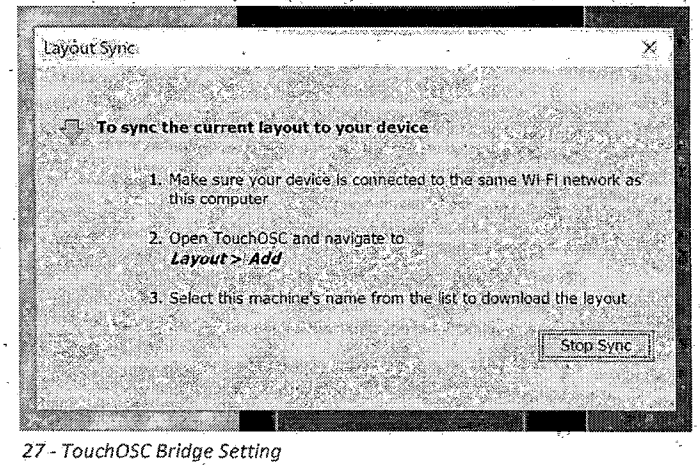
Once those settings are configured, go back to your computer and TouchOSC editor.

Click the sync button and wait for the pop up to appear.

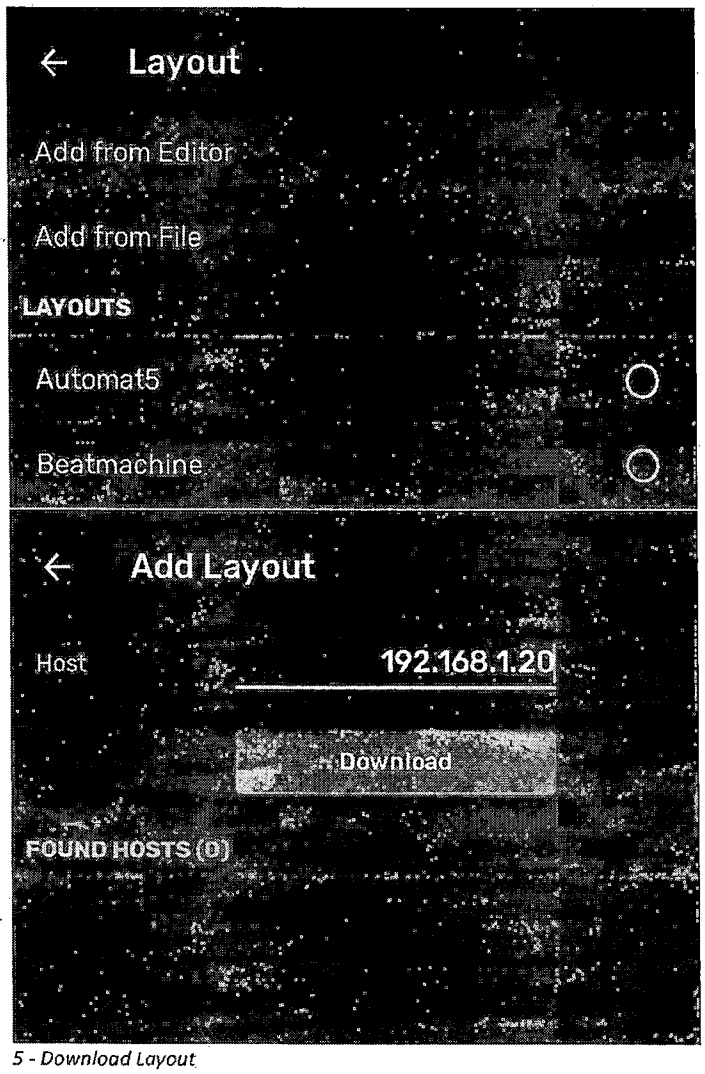


26 - TouchOSC Bridge Setting

Now that the editor is ready to synchronise, switch back to your device running the TouchOSC app, enter the layout menu and select "Add from Editor." Enter the IP address of the computer running the editor and press download. You can then scroll down the list to find the layout you imported and select it but tapping on it so that it is checked. This is another way to import your layout onto your phone/tablet, besides to just transfer the file across manually.



27 - TouchOSC Bridge Setting

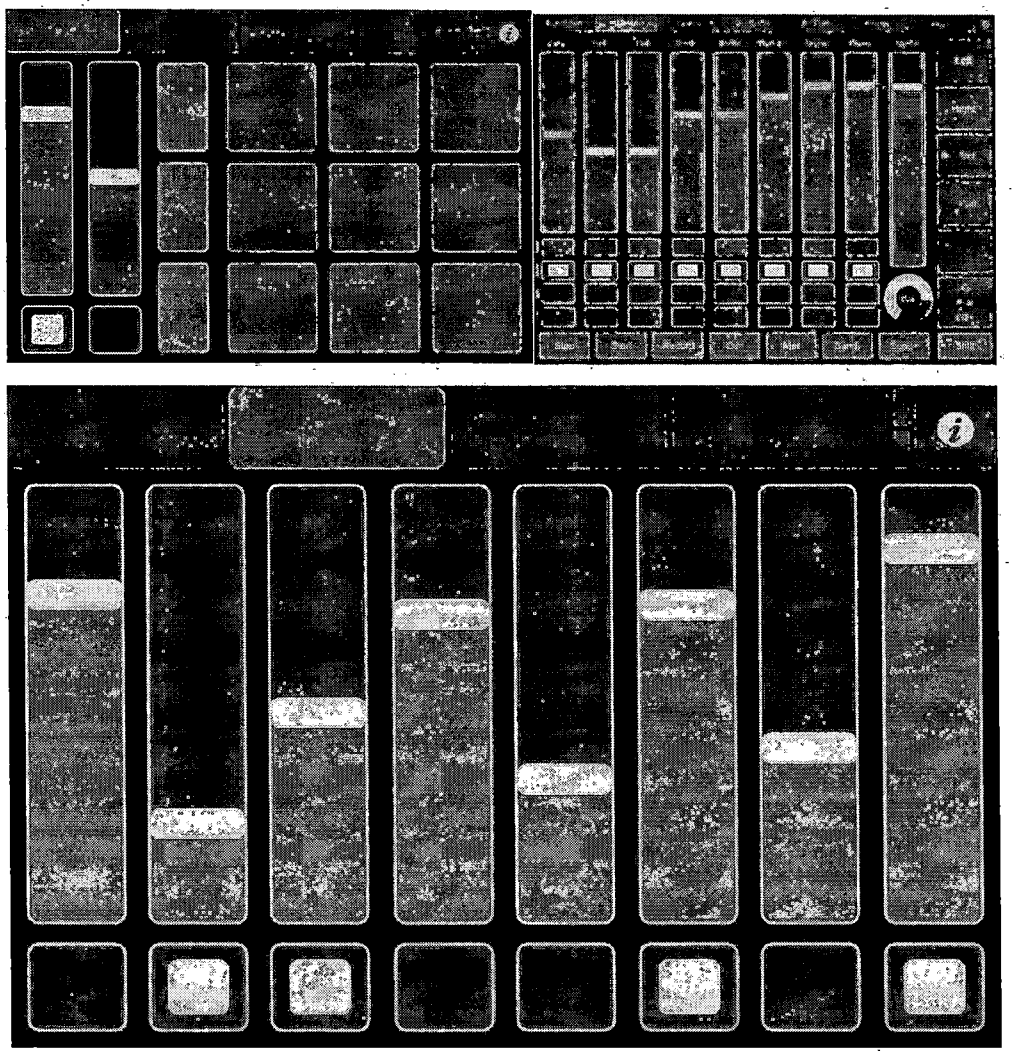


5 - Download Layout

Head back out of the settings on your phone/tablet by using the back arrow and pressing "Done." You should be able to see and use your layout. You can now freely move the fader, press the buttons, and have ELM respond and reflect your changes on its live tab. You can also check if ELM is receiving OSC by looking to see if the box has gone green in the OSC remote tab.

That brings us to the end of this guide, by the end, you'll have a control panel on your phone or tablet to give you or your client a simple, yet professional control surface for manual control over their pixel mapped setup. And this is just the beginning. With a bit of time and ingenuity you can create even more sophisticated control panels.

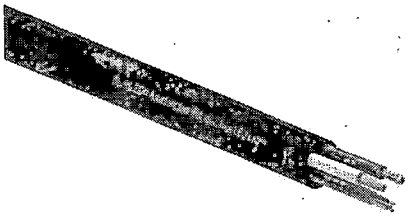
Check out these sleek control surface examples from the Hexler website:



29 – TouchOSC Examples

Digital LED Cable 2x1 + 2x0.14 100 m

7012100



General

Diameter (mm)	6.1
Housing Material	Special halogenfree compound (TM7),
Conductor Stranding	0.14 cores twisted to a pair, covered with polyester tape,
Cable Color	Black
Core	2x1/2x0.14mm2 bare copperwires acc. IEC 60228,
Core Identification	0.14mm2 red/white 1.00mm2 red/white,
Core Isolation	Special halogenfree compound (TI6),
Length (m)	1
Weight (g)	5400
Number of Cores	4

Electronics

Characteristic Impedance	(1x2x0.14mm²) : ? 110 ohm
Conductor Resistance	0.14mm²: max. 135 ohm/km - 1mm²: max. 19.5 ohm/km,
Operating Voltage (V)	Max 50V

Environmental

Storage Temperature	-30 ~ +70 °C
Operating Temperature	-10 ~ +70 °C
UV Constant	yes
Halogen Free	yes

CE RoHS COMPLIANT

Disclaimer

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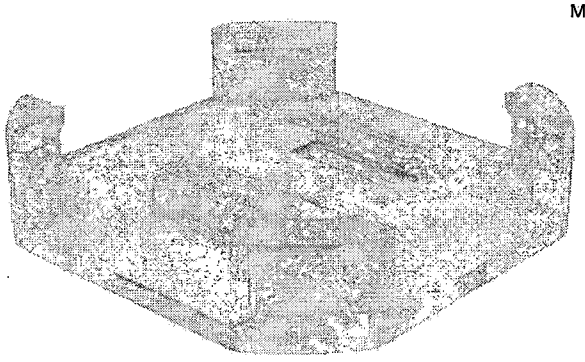
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Mounting clip DiGi Module XT

3553399



General

Length (mm)	40
Width (mm)	40
Height (mm)	9
Housing Color	Transparent
Material	PC

CE

Disclaimer

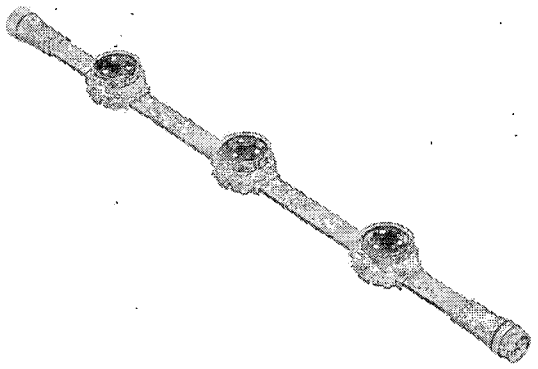
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DiGi Module XT3 Flat Transparant Beige RGBW2700K 3553312



General

Height (mm)	22
Diameter (mm)	42
Housing Material	PC
Weight (g)	18
Housing Color	Beige

Electronics

Input Voltage	48 V DC
Power Supply	External (not included)
Power Consumption (W)	1

Lighting

LED Type	SMD3535
Pixel Pitch	customizable, starting from 100 mm,
Luminous Flux	19 lm
Color Range	RGBW
Optics (°)	110
Color Temperature (Kelvin)	2700 K
LEDs per Pixel	4

Control

Control Units	Single pixel
Number of Channels	4
Compatible ICs	UCS8904

Environmental

Storage Temperature	-30 ~ +80 °C
Operating Temperature	-20 ~ +70 °C
Ingress Protection	IP67

CE RoHS COMPLIANT

Disclaimer

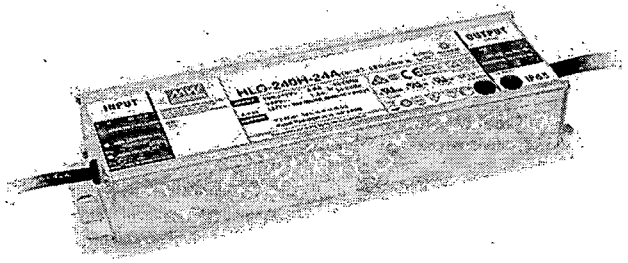
Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

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240W Constant Voltage + Constant Current LED Driver HLG-240H series



TAIWAN EXCELLENCE 2011

SELV IP65 IP67 (except for AB,C,D-type) (except for B/AB/D-type) IS 15885(Part 2/Sec 13) R-41027766 (for 48V only) Type HL

Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Applications

- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

Description

HLG-240H series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-240H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for -40℃ ~ +90℃ case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-240H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

HLG - 240H - 15 A

- A — Function options
- 15 — Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)
- 240H — Rated wattage
- HLG — Series name

Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
B	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
C	------	Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

MEAN WELL

240W Constant Voltage + Constant Current LED Driver **HLG-240H series**

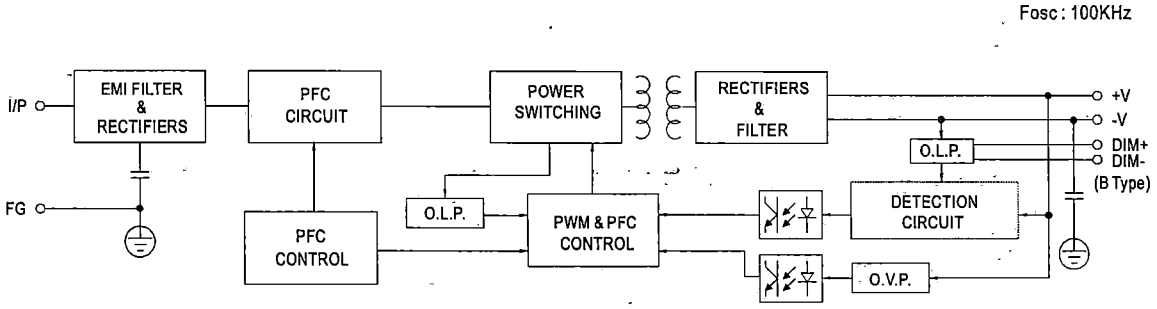
SPECIFICATION

MODEL		HLG-240H-12□	HLG-240H-15□	HLG-240H-20□	HLG-240H-24□	HLG-240H-30□	HLG-240H-36□	HLG-240H-42□	HLG-240H-48□	HLG-240H-54□
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.4	6 ~ 12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A
	RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE	Adjustable for A/AB/C-Type only (via built-in potentiometer)								
		11.2 ~ 12.8V	14 ~ 16V	18.6 ~ 21.4V	22.4 ~ 25.6V	28 ~ 32V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V
	CURRENT ADJ. RANGE	Adjustable for A/AB/C-Type only (via built-in potentiometer)								
		8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A	2.5 ~ 5A	2.23 ~ 4.45A
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.6	1000ms,80ms/115VAC 500ms,80ms/230VAC								
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)								
	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%
	AC CURRENT (Typ.)	4A / 115VAC 2A / 230VAC 1.2A / 277VAC								
	INRUSH CURRENT (Typ.)	COLD START 75A(t_{width}=570μs measured at 50% I_{peak}) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 277VAC								
PROTECTION	OVER CURRENT	95 ~ 108%								
		Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	13.5 ~ 18V	17.5 ~ 21.5V	23.5 ~ 27.5V	27 ~ 34V	33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V
		Shut down and latch off o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~ +90℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase= +90℃								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent (except for HLG-240H C type); UL60950-1(except for AB type),UL8750,TUV EN60950-1;GB19510.1,GB19510.14; IP65 or IP67;J61347-1,J61347-2-13(except for B,AB and D-type),BIS IS15885(for 48V only),EAC TP TC 004, KC61347-1,KC61347-2-13(except for AB,C,D-type) approved								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH								
	EMC EMISSION	Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≧50%) ; EN61000-3-3, GB17743 and GB17625.1,EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type)								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV) EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type)								
OTHERS	MTBF	729.2K hrs min. Telcordia SR-332 (Bellcore) ; 207.9K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H C-Type)								
	PACKING	1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240 C-Type)								

NOTE

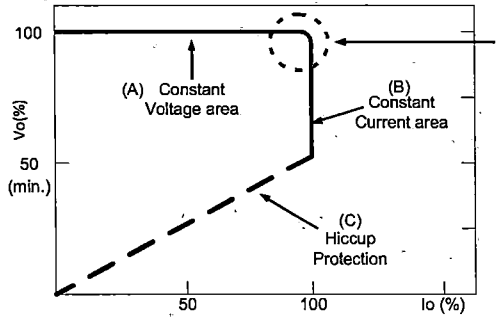
1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Please refer to "DRIVING METHODS OF LED MODULE".
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75℃ or less.
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
11. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf

■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

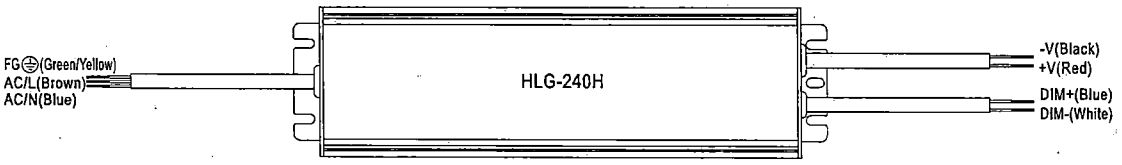


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems..

Should there be any compatibility issues, please contact MEAN WELL.

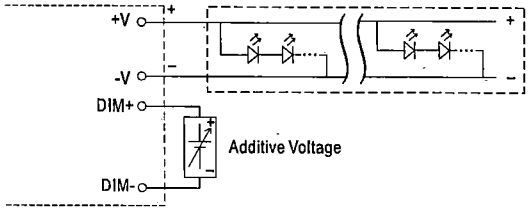
■ DIMMING OPERATION



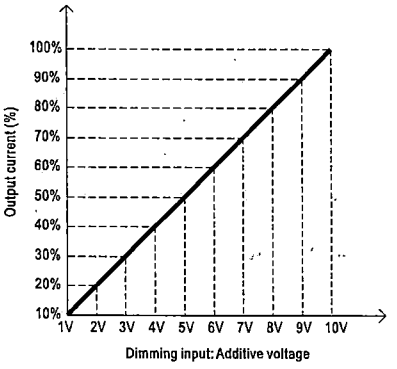
※ 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA (typ.)

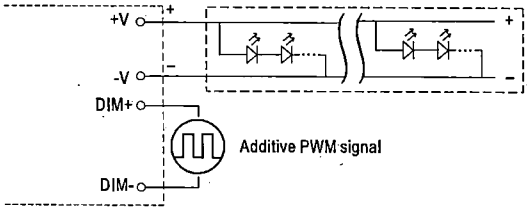
◎ Applying additive 1 ~ 10VDC



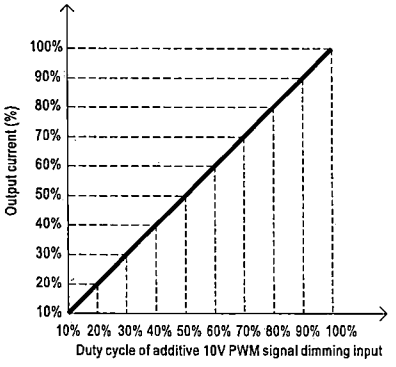
"DO NOT connect "DIM- to -V"



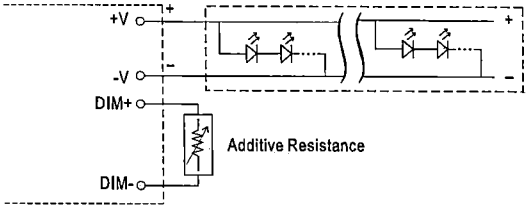
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



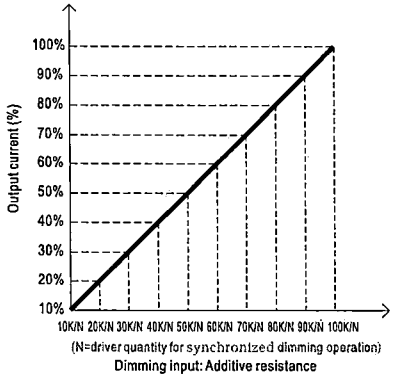
"DO NOT connect "DIM- to -V"



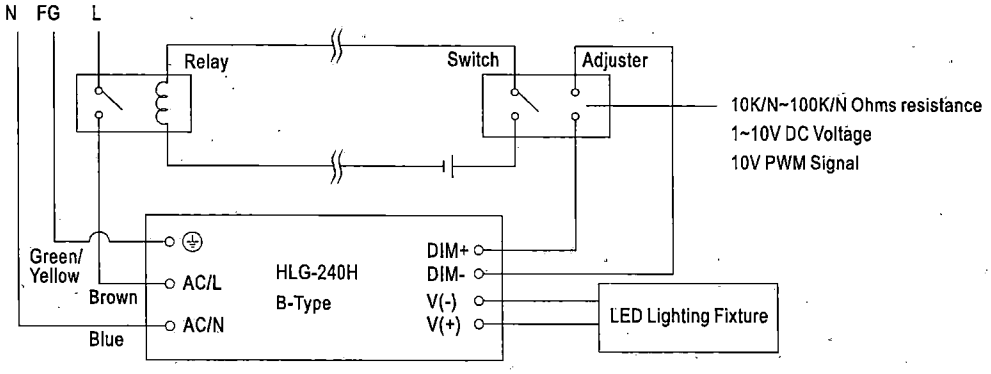
◎ Applying additive resistance:



"DO NOT connect "DIM- to -V"

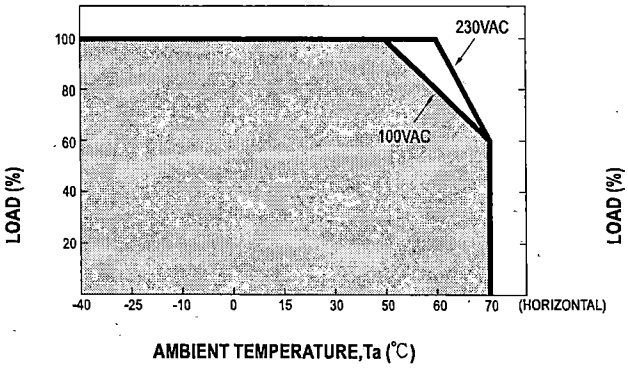


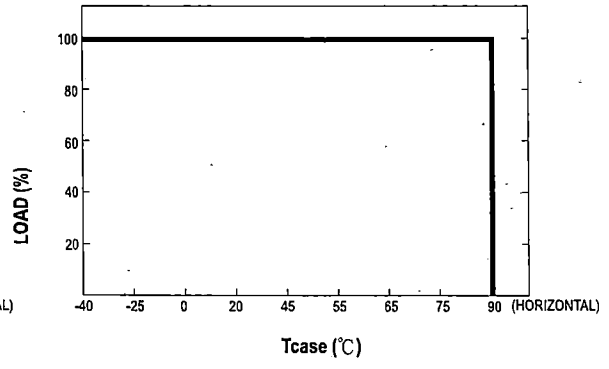
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



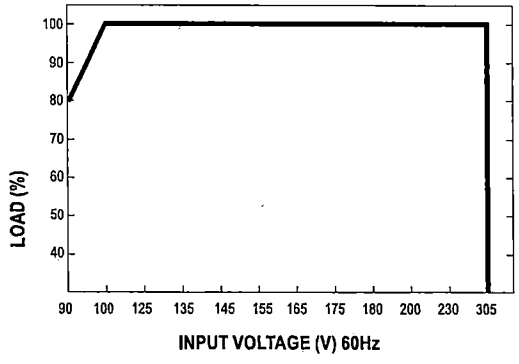
Using a switch and relay can turn ON/OFF the lighting fixture.

■ OUTPUT LOAD vs TEMPERATURE(Note. 10)





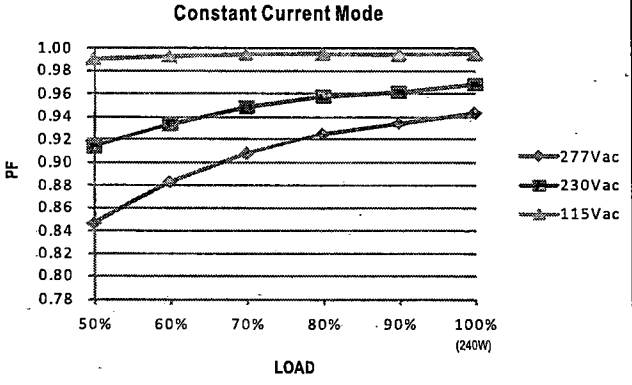
■ STATIC CHARACTERISTICS



※ De-rating is needed under low input voltage.

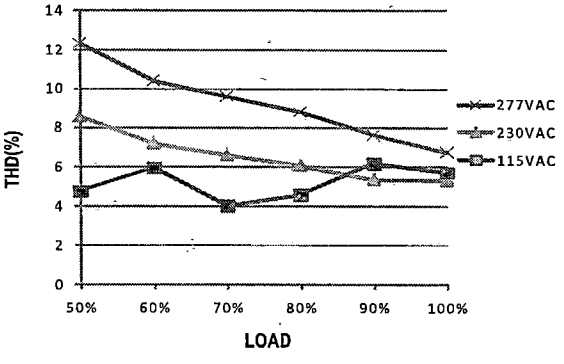
■ POWER FACTOR(PF) CHARACTERISTIC

※Tcase at 80℃



■ TOTAL HARMONIC DISTORTION (THD)

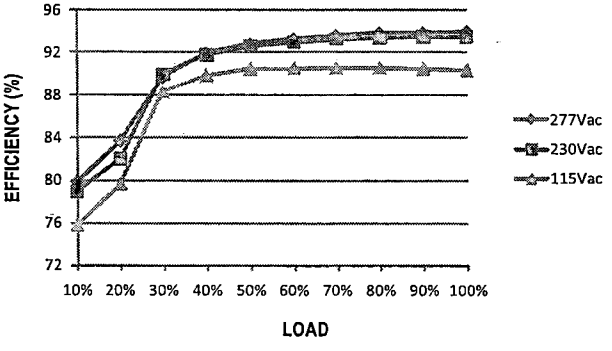
※ 48V Model, Tcase at 80℃



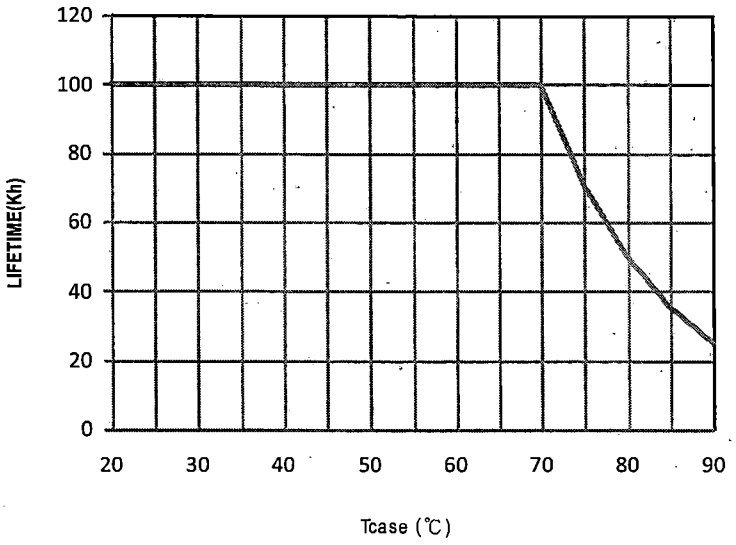
■ EFFICIENCY vs LOAD

HLG-240H series possess superior working efficiency that up to 93.5% can be reached in field applications.

※ 48V Model, Tcase at 80℃



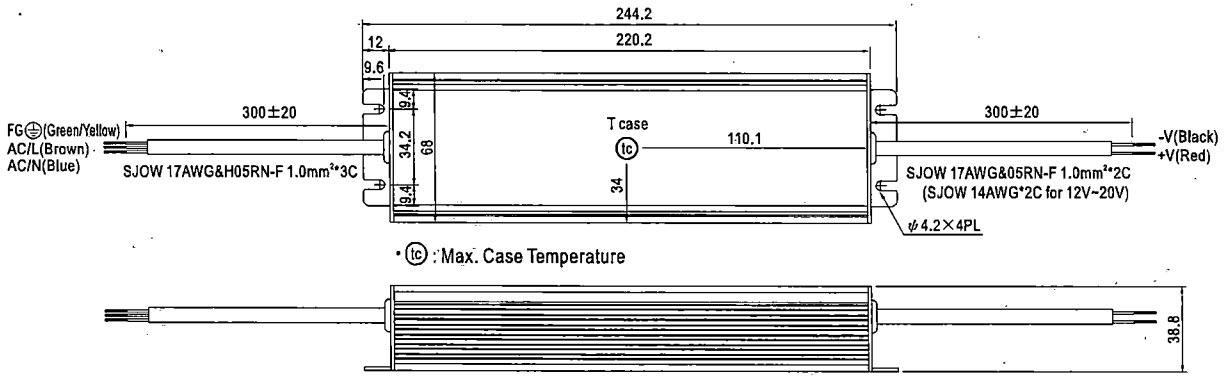
LIFE TIME



■ MECHANICAL SPECIFICATION

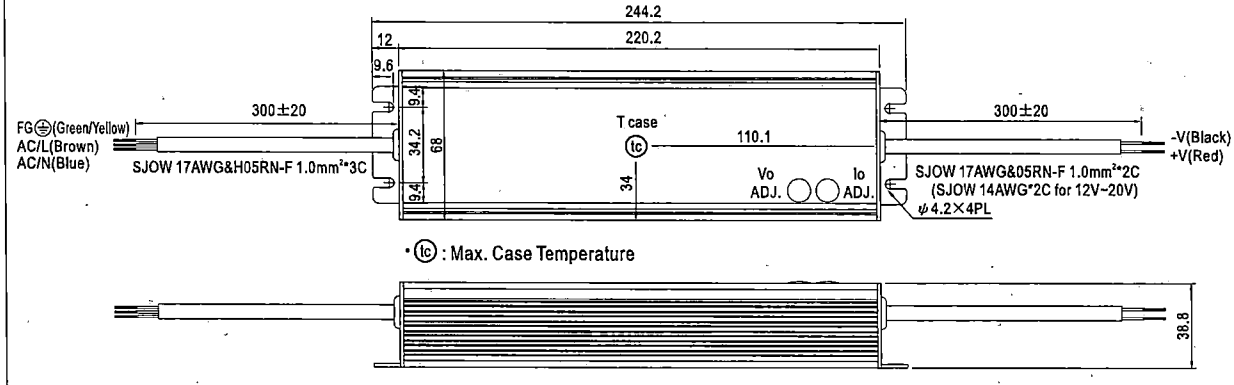
Case No.994C Unit:mm

※Blank/D-Type



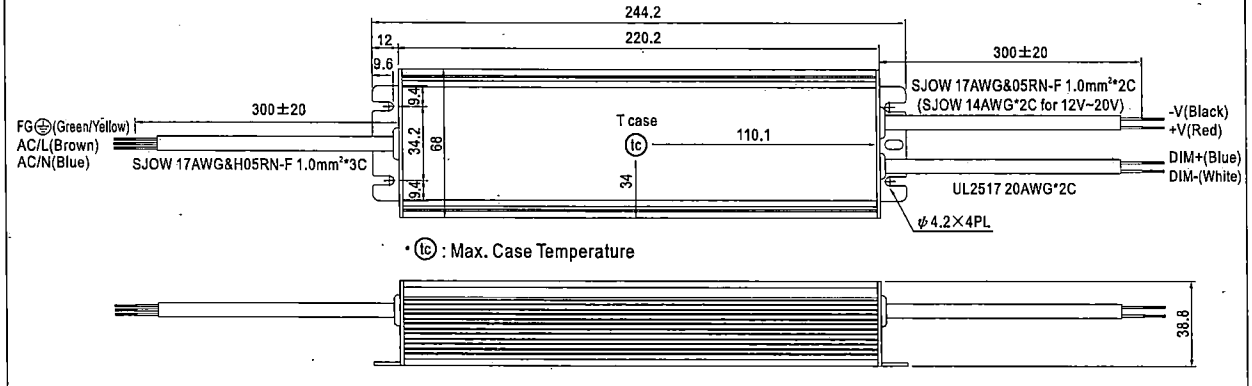
• tc : Max. Case Temperature

※A-Type



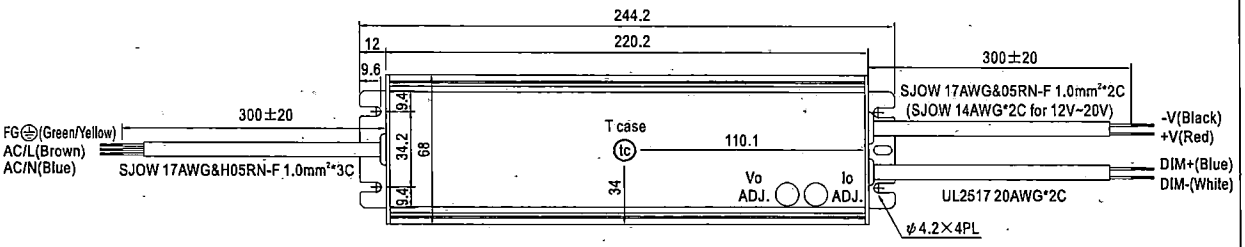
• tc : Max. Case Temperature

※B-Type

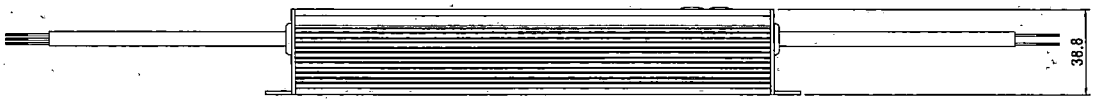


• tc : Max. Case Temperature

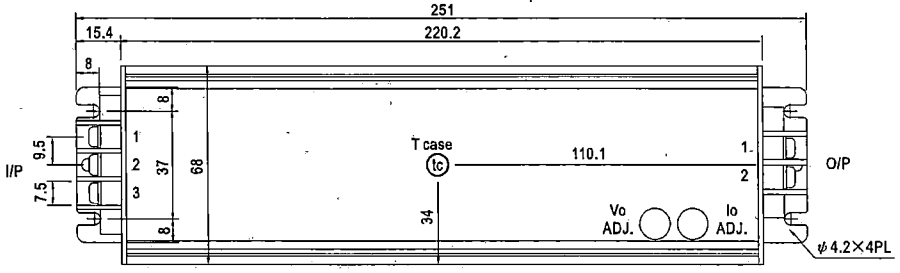
※AB-Type



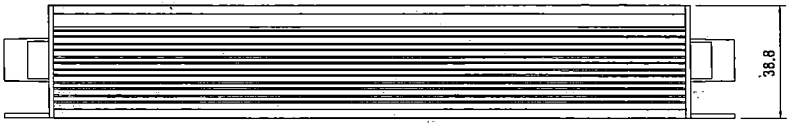
• tc : Max. Case Temperature



※C-Type



• tc : Max. Case Temperature



AC Input Terminal Pin No. Assignment

Pin No.	Assignment
1	FG ⏚
2	AC/L
3	AC/N

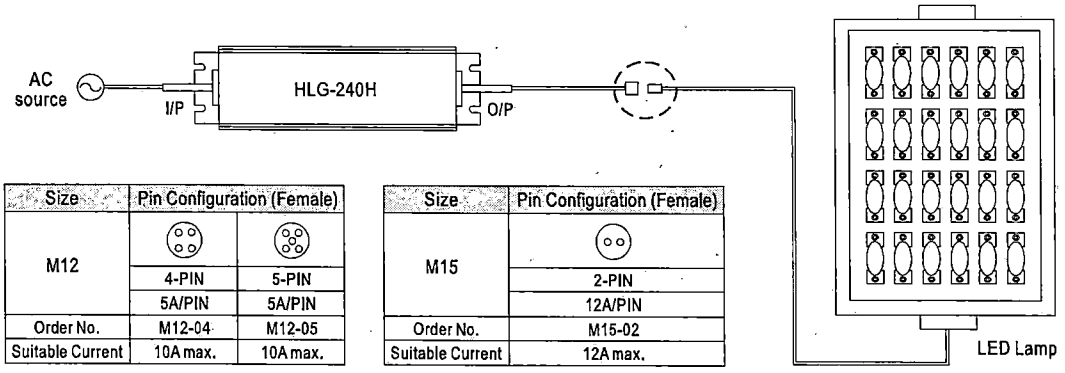
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	-V
2	+V

■ WATERPROOF CONNECTION

※ Waterproof connector

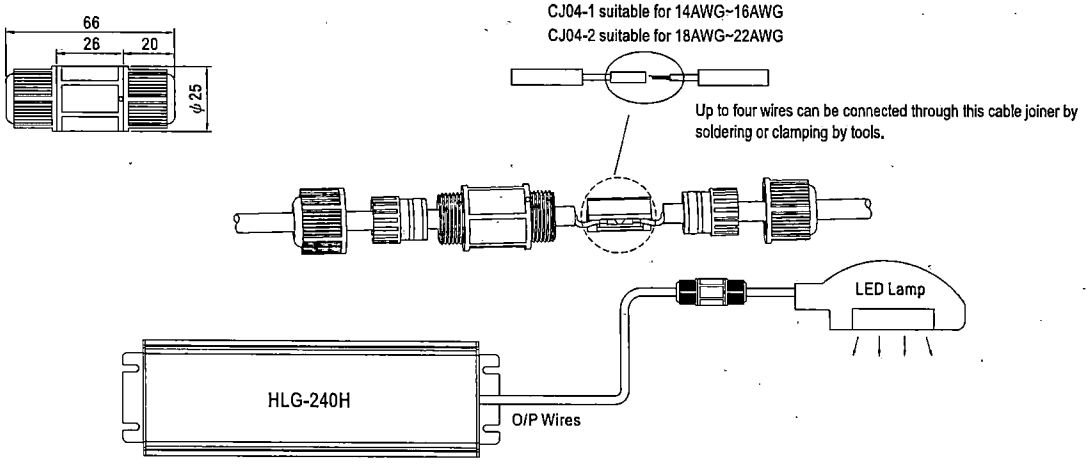
Waterproof connector can be assembled on the output cable of HLG-240H to operate in dry/wet/damp or outdoor environment.



Size	Pin Configuration (Female)	
M12		
	4-PIN	5-PIN
	5A/PIN	5A/PIN
Order No.	M12-04	M12-05
Suitable Current	10A max.	10A max.

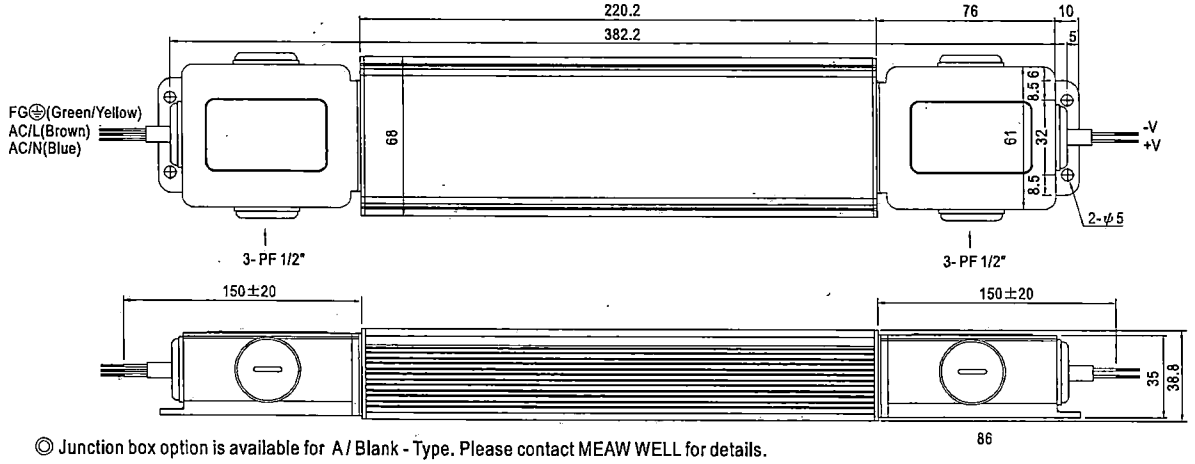
Size	Pin Configuration (Female)
M15	
	2-PIN
	12A/PIN
Order No.	M15-02
Suitable Current	12A max.

※ **Cable Joiner**



◎ CJ04 cable joiner can be purchased independently for user's own assembly.
MEAN WELL order No. : CJ04-1, CJ04-2.

※ **Junction Box Option**



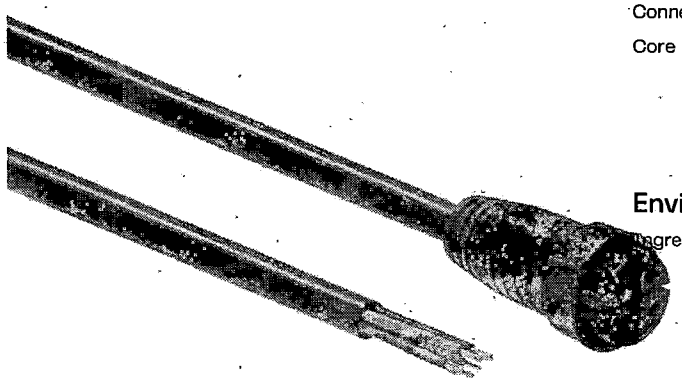
◎ Junction box option is available for A / Blank - Type. Please contact MEAW WELL for details.

■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html

M20E Cables 5 pins Input cable - 100cm

3432515



General

Housing Color	Black
Material	rubber
Connector	M20 - 5 pin
Core Color	Red: V+ , Black: Ground, White: Data +, Green: Data -, Blue: Program,

Environmental

Ingress Protection	IP67

CE

Disclaimer

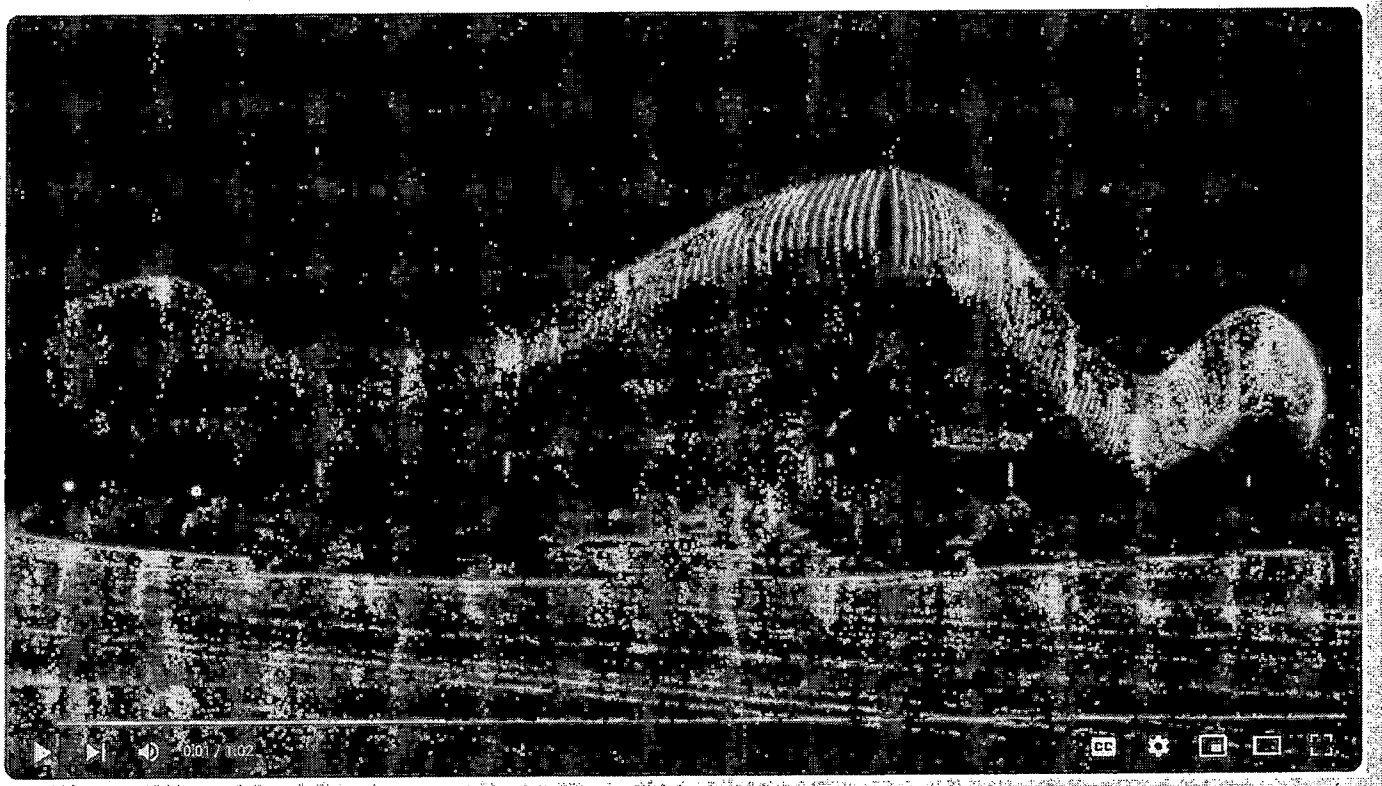
Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

OneEightyOne Bromostraat 18-1 | 1067 TG | Amsterdam
+31 20 8200170 | info@oneeightyone.com | www.oneeightyone.com

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181 oneeighty one.com

Please Check our video proposal: https://youtu.be/Mpu8E0_W8TU



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THE LUMINICOS, CORP
2125 BISCAYNE BLVD
MIAMI, FL 33137
USA. +1 (786) 789 0606

QUOTE: QUO202503178
PROJECT: Las Olas Garage Dynamic Facade Lighting System

DATE
04.28.2025

VALID THRU
07.31.2025

BILL TO:
Kirk McDonald
City of Fort Lauderdale
100 N Andrews AveFort Lauderdale, FL 33301

ESTIMATED LEAD TIME:
15 Weeks

SHIP TO:
City of Fort Lauderdale
200 Las Olas Cir, Fort Lauderdale, FL 33316

PAYMENT TERMS:
Payment in advance

COMMENTS: Tariffs effective as of the date of this proposal are included. Any subsequent tariff reductions will result in a corresponding price adjustment.

Lighting Fixtures

	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	**OneEightyOne** 3553310 DIGI Module XT3 Black - Flat Transparant - RGBW2700K **WARRANTY**: 5 Years **MADE IN:** Netherlands	**24904** u	USD 28.97	USD 721,468.88
2	**OneEightyOne** 3432525 M20E Cables 5 pins - Input cable - 200cm **WARRANTY**: 5 Years **MADE IN:** Netherlands	**724** u	USD 39.20	USD 28,380.80
3	**OneEightyOne** 8442700 Meanwell PSU 48V 5A 240W IP67 - HLG-240H-48 **WARRANTY**: 5 Years **MADE IN:** Netherlands	**145** u	USD 505.19	USD 73,252.55

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	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
4	**OneEightyOne** 20205 DiGidot C4 Extended 12 x 512 (6144 ch) **WARRANTY:** 5 Years **MADE IN:** Netherlands	**18** u	USD 2,489.89	USD 44,818.02
5	**DESCRIPTION**	**QUANTITY**	**UNIT PRICE**	**AMOUNT**
	OneEightyOne 2034102 DiGidot PxLNet Transceiver Kit ST - Screw terminals **WARRANTY:** 5 Years **MADE IN:** Netherlands	**18** u	USD 1,048.58	USD 18,874.44

<b> Subtotal Lighting Fixtures USD 886,794.690

	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
6	**Luminicos** Lum_Facade_Control Lighting Controls: - SPI Controller, 16 outputs and 96 universes. - SP. Inyector - Servers Project Design: - Preparation of wiring and luminaire distribution diagrams - Mounting detail drawings Comissioning - Equipment numbering - Luminaire mapping - Group generation - Content design, including programming of scenes as requested by the City - System configuration and commissioning Project Management - In persons project supervision. - Meetings with city officials.	**1** u	USD 51,413.60	USD 51,413.60

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7	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
	Luminicos Lum_Facade_Install Instalación includes: - Equipment for working at heights - Personal protective equipment (PPE) and safe work practices - City-approved training and certification for working at heights - Low-voltage and communication system wiring - Installation of luminaires, drivers, and controllers - Rack installation and system testing - Two-year warranty (including four maintenance visits per year) - Preparation of engineering and as-built plans	1 u	USD 183,609.73	USD 183,609.73

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SUBTOTAL USD

1,121,818.02

No Tax Included USD

0.00

TOTAL USD

1,121,818.02

QUOTED BY:

Katherine Seminario

TERMS AND CONDITIONS

PRICING: Unit prices do not include taxes.

BEGINNING OF MANUFACTURING: To initiate manufacturing, please send a purchase order or this signed and accepted quote.

CUSTOM MADE FIXTURES: Custom light fixtures are non-refundable and non-cancellable once a delivery date has been provided.

CHANGES AND CANCELLATIONS: Once this quote has been signed and accepted by both parties, changes or cancellations to the order are subject to the condition that manufacturing of the products has not commenced.

If manufacturing has already begun, changes or cancellations to the order will not be possible.

Any request for changes or cancellations must be made in writing and is subject to review and approval by Luminicos. Any costs incurred in relation to requested changes or cancellations will be the responsibility of the customer.

SHIPPING CONDITIONS: Shipping within the United States is delivered to the customer's designated facilities unless otherwise specified.

For sales outside the United States, shipping terms are FOB (Free On Board) to the nearest port closest to the customer's location.

Shipping includes delivering the goods to an area that is accessible for our transport vehicles but does not extend to indoor locations. The customer is responsible for transferring the merchandise from the delivery point to the interior of their warehouse, using the necessary equipment. This does not include the provision of forklifts, crane trucks, or other specialized unloading equipment.

Deliveries and/or work conducted during nighttime hours are not included in the standard shipping costs and will incur an additional fee. Should there be a need to adhere to specific security protocols during unloading, additional charges will apply.

INSTALLATION TRAINING: As part of our after-sales service, we offer training for those responsible for on-site installation, with prior coordination.

WARRANTY: Products are warranted according to technical specifications and conditions of use. It is the buyer's responsibility to ensure that the offered products meet the final requirements. The customer is responsible for reviewing the final measurements of what is offered.

PAYMENT TERMS: Payment is as indicated in the header. Manufacturing begins with confirmed payment or, in the case that the customer has an open and confirmed line of credit with Luminicos, upon signing this document.

CLIENT APPROVAL

By signing below, the undersigned hereby acknowledges having read and understood the terms and conditions set forth in this document and agrees to abide by them on behalf of the client entity specified in the header.

FULL NAME _____

TITLE/POSITION _____

DATE _____

SIGNATURE _____

Control System Architecture and Failover Strategy

Our proposal includes the provision of replacement parts for luminaires, drivers, connection and mounting accessories, as well as backup units for the Artnet signal receivers and their corresponding components. This approach is intended to ensure that the system can be immediately restored to full operation in the event of any failure.

Following the same principle, we propose the use of two servers operating in parallel, configured as a redundancy system to guarantee continuous operation of the installation. These two servers will operate in a Master/Slave configuration, utilizing the shared Artnet network to monitor system status. If the master server fails to transmit a signal within a few seconds, the slave server will automatically take control of the installation.

Each server will be equipped with an SSD backup containing the system configuration, show files, and scheduling data, allowing rapid restoration if necessary. Both servers will operate on Windows 10 LTSC, chosen for its high stability, minimal background processes, and absence of frequent updates, which improves overall system performance.

This architecture, based on a Windows environment, enables not only seamless internal communication between servers but also allows the installation of any remote monitoring software the client may prefer—something not feasible in closed proprietary ecosystems.

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MIRAFLORES, LIMA

MAINTENANCE SERVICES PROPOSAL

Date: April 28th, 2025

To:
City of Fort Lauderdale
Procurement Services Division

Subject: **Proposal for Annual Maintenance Services – Las Olas Parking Garage Dynamic Façade Lighting System**

Dear Procurement Officer,

As part of our commitment to the continued success and longevity of the Dynamic Façade Lighting System at the Las Olas Parking Garage, **The Luminicos, Corp** is pleased to submit the following proposal for comprehensive annual maintenance services.

Scope of Services Included

Our maintenance program is designed to ensure the system operates reliably, safely, and in optimal condition throughout its lifespan. The proposed services include:

- **Quarterly Preventive Maintenance Visits**
  Four (4) site inspections per year, approximately one every three months.
- **System Health Inspections**
  Full verification of lighting fixtures, control systems, cabling, and infrastructure to detect any operational issues.
- **Functional Testing**
  Validation of pixel-level functionality, network stability, and content playback performance.
- **Replacement of Defective Components**
  Replacement of any lighting fixtures, drivers, or control devices identified as defective during inspections, under warranty coverage.
- **Electrical and Data Connection Checks**
  Inspection and re-tightening of power and communication connections.
- **Firmware and Software Updates**
  Installation of applicable updates to controllers and system devices to maintain system security and performance.

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MIRAFLORES, LIMA.

- **Content Playback and Scheduler Verification**
  Review and adjustment of content scheduling to ensure seamless operation during city events and special dates.
- **Fixture Cleaning**
  Light cleaning of exposed lighting fixture surfaces to remove dust or debris and maintain optimal optical performance.
- **Maintenance Reporting**
  Delivery of detailed reports after each site visit, including a summary of findings, maintenance actions performed, and recommendations for any additional corrective measures.

Pricing

The cost for the annual maintenance program, as detailed above, is proposed at:

Annual Maintenance Fee: $18,000.00 (Eighteen Thousand U.S. Dollars)

This fee covers all preventive maintenance services for one year.
Emergency service calls or corrective maintenance outside of the scheduled visits can be provided under a separate agreement if requested.

We are committed to maintaining the Las Olas Parking Garage's dynamic façade lighting system as a vibrant and reliable landmark for the City of Fort Lauderdale. We look forward to partnering with the City to ensure the continued success and beauty of this project.

Should you have any questions or require further information, please do not hesitate to contact us.

Sincerely,



Carlos Molina
CEO
The Luminicos, Corp

PROJECT TIMELINE

STAGE DESCRIPTION	MONTH 01				MONTH 02				MONTH 03				MONTH 04			
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
STAGE 1: DESIGN, RESEARCH AND DEVELOPMENT																
Fixture layout																
Data diagrams																
Power (24v, 48v) diagrams																
Wiring diagram for fixtures																
Wiring diagram between controllers																
Installation details																
STAGE 2: ENGENEERING																
Final plans based on research																
STAGE 3: POWER AND DATA INSTALLATION																
Installing controllers and drivers																
Inspecting data cables and replace old ones.																
Setting up control room.																
STAGE 4: FIXTURE INSTALLATION																
Removing Old Fixtures and installing new ones.																
STAGE 5: CONTENT DESIGN																
Content design																
Storyrboards																
Pre Viz																
Rendering																
STAGE 6: PROGRAMMING, COMMISIONING AND SUPERVISION																
Supervision																
Fixture patch																
Addresing																
Content layout																
Offsite programming																
Onsite programming																
Automation																
STAGE 7: TEST																
Internal test																
Test with the client																
FINAL STAGE: HANDOVER																

REFERENCES

All references shall include owner, address, contact name, phone number, email and the contract value. References shall not include the City of Fort Lauderdale. A minimum of three (3) references shall be provided:

1. **Company Name:** THE LUMINICOS, CORP
   Address: 2125 BISCAYNE BLVD SUITE 242 MIAMI, FL 33137 USA
   Contact Name: _____
   Phone #: _____
   Email Address: THE@LUMINICOS.COM
   Contract Value: _____ Year: _____

2. **Company Name:** ROYAL PALM COMPANIES
   Address: 333 SE 2ND AVE SUITE 3000 MIAMI, FL 33131 USA
   Contact Name: RENE PEREZ
   Phone #: 3052189293
   Email Address: RENEP@RPCHOLDINGS.COM
   Contract Value: 300K Year: 2024

3. **Company Name:** CLUB DE REGATAS LIMA
   Address: AVE. CHACHI DIBOS 1201 CHORRILLOS 15063 PERU
   Contact Name: WILFREDO CESPEDES VARGAS MACHUCA
   Phone #: +51 213 4567 extension 1546
   Email Address: WCESPEDES@CLUBREGATAS.ORG.PE
   Contract Value: 583K Year: 2024

4. **Company Name:** CONSORCIO INTI PUNKU
   Address: AVE. NESTOR GAMBETTA S/N CALLAO 07031 PERU
   Contact Name: JOSE SILVA
   Phone #: +51 987 199 399
   Email Address: JSILVA@CUMBRA.COM.PE
   Contract Value: 2.6M Year: 2024

5. **Company Name:** _____
   Address: _____
   Contact Name: _____
   Phone #: _____
   Email Address: _____
   Contract Value: _____ Year: _____

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SUBCONTRACTOR AND PARTNER DECLARATION

Date: April 28th, 2025

To:
City of Fort Lauderdale
Procurement Services Division

Subject: **Declaration of Subcontractors and Partners for Event #427 – Dynamic Façade Lighting System**

Dear Procurement Officer,

In connection with our proposal for the City of Fort Lauderdale's RFP Event #427, Turnkey Dynamic Façade Lighting System for the Las Olas Parking Garage, **The Luminicos, Corp** hereby formally declares the following strategic partners and subcontractors who will collaborate with us on this project:

1. **Claudia Paz Lighting Studio**
   - **Role:** Engineering Support and Content Design Partner
   - **Scope:**
     - Provide lighting engineering consultancy to ensure compliance with technical performance and creative objectives.
     - Develop the dynamic content, scenes, and visual concepts for the façade lighting system.
     - Coordinate closely with the project team to align the artistic design with operational requirements.

Claudia Paz Lighting Studio is an internationally recognized design firm specializing in dynamic façade lighting and interactive installations. They have successfully collaborated with Luminicos on several international projects, ensuring seamless integration between technology and artistic vision.

2. **DMC Electrical, LLC**
   - **Role:** Installation Partner
   - **Scope:**
     - Perform the electrical installation of the Dynamic Façade Lighting System, including mounting of fixtures, cabling, power supply connections, control system deployment, and final system commissioning support.

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- Ensure compliance with all applicable building codes, electrical standards, and City of Fort Lauderdale regulations.

DMC Electrical is an experienced licensed electrical contractor specializing in commercial and infrastructure lighting installations in the South Florida area, ensuring the highest standards of safety, quality, and performance.

We confirm that all subcontractors and partners listed above are fully committed to collaborating with Luminicos to deliver a successful project that meets or exceeds the City's expectations. All subcontractors will comply with the RFP requirements, insurance obligations, licensing regulations, and City standards.

Should additional documentation, certifications, or compliance forms regarding these subcontractors be required, we are fully prepared to submit them upon request.

Sincerely,

Carlos Molina
CEO
The Luminicos, Corp

DMC
ELECTRICAL

Lic#: ER13012812
04/28/2025
To Whom It May Concern,
Subject: Evidence of Prior Experience in Installation and Maintenance of Facade Lighting Systems
Dear Sir or Madam,

We hereby confirm that DMC Electrical LLC has extensive experience in the installation and maintenance of facade lighting systems and similar projects. Over the past 8 years, we have successfully completed numerous projects involving architectural and decorative lighting for commercial buildings, residential developments, and public spaces.

Our scope of work in these projects typically included:

- Installation of facade -mounted lighting fixtures, including LED, floodlights, and architectural lighting elements.
- Electrical wiring and connection to control systems, including DMX and automated dimming technologies.
- Maintenance services, including regular inspections, troubleshooting, and replacement of lighting components.
- Coordination with architects, engineers, and general contractors to ensure compliance with project specifications and local codes.

A few notable projects demonstrating our capabilities include:

- **Wynwood Central Building Lighting Project –** Installation of facade LED strip lighting and architectural floodlights for a commercial mixed-use building, Miami, FL, 2022.
- **Seaside Residences Exterior Illumination –** Complete facade lighting system including automated color-changing fixtures and integration with building management system, Fort Lauderdale, FL, 2021.
- **City Plaza Public Space Lighting –** Installation and maintenance of facade and landscape lighting for a city government project, Downtown Miami, FL, 2023.

We would be pleased to provide further details, references, or project documentation upon request.

Thank you for considering our qualifications. We look forward to the opportunity to collaborate on your upcoming projects.

Sincerely,
Daniel Medina
President, and Project Manager
DMC Electrical LLC
(786) 337-0751 | dmedina@dmcelectrical.us

Local Business Tax Receipt

Miami–Dade County, State of Florida

–THIS IS NOT A BILL – DO NOT PAY

LBT

7233848

RECEIPT NO.
RENEWAL
7519519

EXPIRES
SEPTEMBER 30, 2025

Must be displayed at place of business
Pursuant to County Code
Chapter 8A – Art. 9 & 10

BUSINESS NAME/LOCATION
DMC ELECTRICAL LLC
DOING BUSINESS IN DADE COUNTY

OWNER
DMC ELECTRICAL LLC
C/O DANIEL MEDINA QUALIFER

Worker(s) 1

SEC. **TYPE OF BUSINESS**
196 SPEC ELECTRICAL CONTRACTOR

17E000583

PAYMENT RECEIVED BY TAX COLLECTOR
75.00 08/20/2024
INT-24-468562

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles – Miami–Dade Code Sec 8a–276.

For more information, visit www.miamidade.gov/taxcollector

MIAMI-DADE COUNTY

THE HARTFORD
BUSINESS SERVICE CENTER
3600 WISEMAN BLVD
SAN ANTONIO TX 78251

April 28, 2025

For Informational Purposes
2125 BISCAYNE BLVD STE 242
MIAMI FL 33137

Account Information:

Policy Holder Details :	**The Luminicos Corp DBA Luminicos**

Contact Us

Need Help?
Chat online or call us at
(866) 467-8730.
We're here Monday - Friday.

Enclosed please find a Certificate Of Insurance for the above referenced Policyholder. Please contact us if you have any questions or concerns.

Sincerely,

Your Hartford Service Team

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 04/28/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATIONIS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LEAVITT GROUP AGENCY ASSOC LLC 34471464 PO BOX 130 CEDAR CITY UT 84720	**CONTACT NAME:**	
	PHONE (A/C, No, Ext): (866) 216-6133	**FAX** (A/C, No): (435) 586-1510
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	**NAIC#**
	INSURER A : Hartford Underwriters Insurance Company	30104
INSURED THE LUMINICOS CORP DBA LUMINICOS 2125 BISCAYNE BLVD STE 242 MIAMI FL 33137	**INSURER B :**	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED.NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/Y YYY)	LIMITS	
A	COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] General Liability GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:			34 SBM BB2AKP	10/31/2024	10/31/2025	EACH OCCURRENCE	$1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$1,000,000
							MED EXP (Any one person)	$10,000
							PERSONAL & ADV INJURY	$1,000,000
							GENERAL AGGREGATE	$2,000,000
							PRODUCTS - COMP/OP AGG	$2,000,000
A	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS			34 SBM BB2AKP	10/31/2024	10/31/2025	COMBINED SINGLE LIMIT (Ea accident)	$1,000,000
							BODILY INJURY (Per person)	
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE	
							AGGREGATE	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N [ ] N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						[ ] PER STATUTE [ ] OTH-ER	
							E.L. EACH ACCIDENT	
							E.L. DISEASE -EA EMPLOYEE	
							E.L. DISEASE - POLICY LIMIT	
A	Employment Practices Liability Insurance			34 SBM BB2AKP	10/31/2024	10/31/2025	Each Claim Limit Annual Aggregate Limit	$25,000 $25,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES **(ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**

Those usual to the Insured's Operations.

CERTIFICATE HOLDER

For Informational Purposes
2125 BISCAYNE BLVD STE 242
MIAMI FL 33137

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Susan L. Castaneda

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 04/28/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Ismaray Gonzalez	
King Insurance Partners, LLC 643 SW 4th Ave Suite 210 Gainesville FL 32601	PHONE (A/C, No, Ext): (888) 377-0420	FAX (A/C, No):
	E-MAIL ADDRESS: ismaray.gonzalez@king-insurance.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Ohio Security Insurance Co.	24082
INSURED Dmc Electrical LLC 13151 SW 17th Ct Miramar FL 33027	INSURER B: GEICO Marine Insurance Company	
	INSURER C: Ascendant Underwriters	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** CL2492361407 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:			BLS60256960	10/06/2024	10/06/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 300,000 $ 15,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
B	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] OWNED AUTOS ONLY [ ] HIRED AUTOS ONLY [X] SCHEDULED AUTOS [ ] NON-OWNED AUTOS ONLY			9300117602	02/25/2025	02/25/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) PIP-Basic	$ $ 10,000 $ 20,000 $ 10,000 $ 10,000
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE $	$ $ $
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: Y If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WC-80206-0	05/12/2024	05/12/2025	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

License#EC13012812

CERTIFICATE HOLDER

City of Bonita Springs
9220 Bonita Beach Rd, Suite 11
Bonita Springs FL 34135

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



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Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See *Specific Instructions* on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

THE LUMINICOS, CORP

2 Business name/disregarded entity name, if different from above.

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☑ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) _____

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) _____

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____

(Applies to accounts maintained outside the United States.)

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐

5 Address (number, street, and apt. or suite no.). See instructions.

2125 BISCAYNE BLVD ST 242

Requester's name and address (optional)

6 City, state, and ZIP code

MIAMI, FL 33137

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–		

or

Employer identification number

8	7	–	1	2	5	2	2	7	8

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here | **Signature of U.S. person** | **Date**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

DIVISION OF CORPORATIONS

Sunbiz.org DIVISION of CORPORATIONS an official State of Florida website

Department of State / Division of Corporations / Search Records / Search by Entity Name /

Detail by Entity Name

Foreign Profit Corporation
THE LUMINICOS, CORP

Filing Information

Document Number	F23000006676
FEI/EIN Number	87-1252278
Date Filed	12/01/2023
State	DE
Status	ACTIVE

Principal Address

2125 BISCAYNE BLVD SUITE 242
MIAMI, FL 33137

Mailing Address

2125 BISCAYNE BLVD SUITE 242
MIAMI, FL 33137

Registered Agent Name & Address

MOLINA, CARLOS
2125 BISCAYNE BLVD SUITE 242
MIAMI, FL 33137

Officer/Director Detail

Name & Address

Title P

MOLINA GALLARDO, CARLOS R
2125 BISCAYNE BLVD SUITE 242
MIAMI, FL 33137

Annual Reports

Report Year	Filed Date
2024	04/29/2024

Document Images

04/29/2024 -- ANNUAL REPORT	View image in PDF format
12/01/2023 -- Foreign Profit	View image in PDF format



Detail by Entity Name

Florida Limited Liability Company
DMC ELECTRICAL, LLC

Filing Information

Document Number	L17000168734
FEI/EIN Number	82-2450592
Date Filed	08/08/2017
State	FL
Status	ACTIVE
Last Event	REINSTATEMENT
Event Date Filed	11/13/2018

Principal Address

13151 SW 17th Ct
Miramar, FL 33027

Changed: 09/28/2023

Mailing Address

13151 SW 17th Ct
Miramar, FL 33027

Changed: 09/28/2023

Registered Agent Name & Address

MEDINA, DANIEL A
13151 SW 17th Ct
Miramar, FL 33027

Name Changed: 11/13/2018

Address Changed: 09/28/2023

Authorized Person(s) Detail

Name & Address

Title President

MEDINA, DANIEL A

Lumínicos®

USA. +1 (786) 789 0606
2125 BISCAYNE BLVD
MIAMI, FL 33137
PE. +51 748 1221
CA. BOLOGNESI 180 OF 302
MIRAFLORES, LIMA

To: Procurement Services Division
City of Fort Lauderdale
100 N Andrews Avenue, Fort Lauderdale, FL 33301

Subject: PCI Compliance – Clarification for Event #427 – Las Olas Garage Lighting Façade RFP

Dear Procurement Committee,

On behalf of **The Luminicos, Corp** we respectfully submit this letter to clarify our compliance with the Payment Card Industry Data Security Standard (PCI DSS) in connection with our participation in the RFP Event #427 for the Las Olas Garage Lighting Façade.

Our company is classified as a **Level 4 PCI DSS merchant**, as we process fewer than 20,000 e-commerce credit card transactions annually. Furthermore, we do not store, process, or transmit cardholder data directly on our systems.

Instead, we utilize **Stripe**, a PCI DSS Level 1 certified payment service provider (PSP), to handle all payment transactions. As such, **Stripe manages the entire card data environment on our behalf**, and we do not come into contact with sensitive payment information at any point in the transaction process.

To document our compliance:

- We are providing a copy of Stripe's current **Attestation of Compliance (AOC)**, issued by Coalfire Systems, Inc., an approved Qualified Security Assessor (QSA).
- We have also completed the appropriate **SAQ-A (Self-Assessment Questionnaire A)**, which applies to merchants that outsource all payment processing to PCI DSS validated third parties, such as Stripe. This SAQ is signed and maintained internally in accordance with PCI DSS standards.

Based on PCI DSS guidelines and industry practice, **Level 4 merchants who outsource to PCI DSS-certified providers like Stripe are not required to obtain an AOC signed by a Qualified Security Assessor (QSA)**. We hope this satisfies the PCI compliance documentation requested in the RFP.

Lumínicos®

USA. +1 (786) 789 0606
2125 BISCAYNE BLVD
MIAMI, FL 33137
PE. +51 748 1221
CA. BOLOGNESI 180 OF 302
MIRAFLORES, LIMA

Should you require any additional documentation or further clarification, we would be happy to provide it.

Thank you for your time and consideration.

Sincerely,



Carlos Molina
CEO



Payment Card Industry
Data Security Standard

Attestation of Compliance for Report on Compliance – Service Providers

Version 4.0.1

Publication Date: August 2024

PCI DSS v4.0.1 Attestation of Compliance for Report on Compliance – Service Providers

Entity Name: Stripe, Inc.

Date of Report as noted in the Report on Compliance: 03/01/2025

Date Assessment Ended: 02/05/2025

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Section 1: Assessment Information

Instructions for Submission

This Attestation of Compliance (AOC) must be completed as a declaration of the results of the service provider's assessment against the *Payment Card Industry Data Security Standard (PCI DSS) Requirements and Testing Procedures* ("Assessment"). Complete all sections. The service provider is responsible for ensuring that each section is completed by the relevant parties, as applicable. Contact the entity(ies) to which this AOC will be submitted for reporting and submission procedures.

This AOC reflects the results documented in an associated Report on Compliance (ROC). Associated ROC sections are noted in each AOC Part/Section below.

Capitalized terms used but not otherwise defined in this document have the meanings set forth in the PCI DSS Report on Compliance Template.

Part 1. Contact Information

Part 1a. Assessed Entity (ROC Section 1.1)

Company name:	Stripe, Inc.
DBA (doing business as):	Stripe, Inc. (US) Stripe Payments Canada, Limited (Canada) Stripe Payments UK Limited Stripe Technology Europe Limited Stripe Payments Europe Limited Stripe Payments Singapore Pte Ltd. Stripe Payments Malaysia Sdn Bhd. PT Stripe Payments Indonesia Stripe Payments (Thailand) Ltd. Stripe India Private Limited Stripe Japan, Inc. Stripe Payments Australia Pty Ltd Stripe New Zealand Limited Stripe Brasil Soluções de Pagamento - Instituição de Pagamento Ltda. Stripe Payments Mexico, S. de R.L. de C.V.
Company mailing address:	354 Oyster Point Blvd South San Francisco, CA 94080
Company main website:	https://www.stripe.com
Company contact name:	Aaron Spinks
Company contact title:	Head of Infrastructure
Contact phone number:	888-963-8955
Contact e-mail address:	support@stripe.com

Part 1b. Assessor (ROC Section 1.1)

Provide the following information for all assessors involved in the Assessment. If there was no assessor for a given assessor type, enter Not Applicable.

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PCI SSC Internal Security Assessor(s)	
ISA name(s):	Not Applicable
Qualified Security Assessor	
Company name:	Coalfire Systems, Inc.
Company mailing address:	8480 E Orchard Rd, Suite 5800, Greenwood Village, CO 80111
Company website:	https://www.coalfire.com
Lead Assessor name:	Riona Mascarenhas
Assessor phone number:	+1 877-224-8077
Assessor e-mail address:	coalfiresubmission@coalfire.com
Assessor certificate number:	QSA-205-285

Part 2. Executive Summary

Part 2a. Scope Verification

Services that were INCLUDED in the scope of the Assessment (select all that apply):

Name of service(s) assessed:	Stripe Payments – (Checkout, Payment Links, Elements, Link, Stripe.js v3, Stripe.jsv2), Stripe Connect, Stripe Dashboard, Stripe Billing, Stripe Invoicing, Stripe Terminal, Stripe Mobile (iOS and Android Mobile SDKs), Stripe Issuing, Stripe API, Stripe Multiprocessor

Type of service(s) assessed:

Hosting Provider:	**Managed Services:**	**Payment Processing:**
☐ Applications / software	☐ Systems security services	☒ POI / card present
☐ Hardware	☐ IT support	☒ Internet / e-commerce
☐ Infrastructure / Network	☐ Physical security	☐ MOTO / Call Center
☐ Physical space (co-location)	☐ Terminal Management System	☐ ATM
☐ Storage	☐ Other services (specify):	☐ Other processing (specify):
☐ Web-hosting services		
☐ Security services		
☐ 3-D Secure Hosting Provider		
☐ Multi-Tenant Service Provider		
☐ Other Hosting (specify):		
☐ Account Management	☒ Fraud and Chargeback	☒ Payment Gateway/Switch
☐ Back-Office Services	☒ Issuer Processing	☐ Prepaid Services
☒ Billing Management	☐ Loyalty Programs	☐ Records Management
☒ Clearing and Settlement	☒ Merchant Services	☐ Tax/Government Payments
☐ Network Provider		
☐ Others (specify): None		

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Note: *These categories are provided for assistance only and are not intended to limit or predetermine an entity's service description. If these categories do not apply to the assessed service, complete "Others." If it is not clear whether a category could apply to the assessed service, consult with the entity(ies) to which this AOC will be submitted.*

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Part 2. Executive Summary *(continued)*

Part 2a. Scope Verification *(continued)*

Services that are provided by the service provider but were NOT INCLUDED in the scope of the Assessment (select all that apply):

Name of service(s) not assessed:	Not Applicable

Type of service(s) not assessed:

Hosting Provider:	**Managed Services:**	**Payment Processing:**
☐ Applications / software	☐ Systems security services	☐ POI / card present
☐ Hardware	☐ IT support	☐ Internet / e-commerce
☐ Infrastructure / Network	☐ Physical security	☐ MOTO / Call Center
☐ Physical space (co-location)	☐ Terminal Management System	☐ ATM
☐ Storage	☐ Other services (specify):	☐ Other processing (specify):
☐ Web-hosting services		
☐ Security services		
☐ 3-D Secure Hosting Provider		
☐ Multi-Tenant Service Provider		
☐ Other Hosting (specify):		
☐ Account Management	☐ Fraud and Chargeback	☐ Payment Gateway/Switch
☐ Back-Office Services	☐ Issuer Processing	☐ Prepaid Services
☐ Billing Management	☐ Loyalty Programs	☐ Records Management
☐ Clearing and Settlement	☐ Merchant Services	☐ Tax/Government Payments
☐ Network Provider		
☐ Others (specify):		

Provide a brief explanation why any checked services were not included in the Assessment:	Not Applicable

Part 2b. Description of Role with Payment Cards (ROC Sections 2.1 and 3.1)

Describe how the business stores, processes, and/or transmits account data.	Stripe, Inc. provides software solutions that allows businesses of all sizes to securely accept payments and expand globally. Stripe is an acquirer that processes card-not-present and card-present transactions via the api.stripe.com endpoint. Stripe facilitates payment transactions for customers via Stripe payment applications and integration methods including JavaScript, Stripe API, mobile SDKs, and terminal hardware for transactions. Additionally, Stripe

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	exports PANs for user migrations, law enforcement requests and for mandatory card reporting. Stripe's API service (api.stripe.com) enables payment transactions for merchants and allows Stripe to manage the collection, processing and storage of payments and CHD on their behalf. Merchants are provided with a tokenized API service to process credit card transactions. Merchants securely connect to Stripe by including a snippet of code in their back-end custom application. The API code allows the cardholder details such as name, address, primary account number (PAN), card expiration date, and card validation value (CVV2, CVC2, CID) that are collected to be transmitted securely via HTTPS using TLS to Stripe. Stripe vaults CHD within a token vault database using strong encryption. For payment processing, CHD details (such as primary account number (PAN), card expiration date, and card validation value (CVV2, CVC2, CID)) are sent outbound to Stripe's third-party payment processing partners via dedicated IPSec VPN tunnels or site-to-site VPN connections, which are contingent on the partner. Post authorization, only the status of the payment card transaction details and the token are stored in the databases for settlement processes. No Sensitive Authentication Data (SAD) is stored on any system components post authorization. In addition to payment processing, Stripe also enables Issuing services via the Stripe API.
Describe how the business is otherwise involved in or has the ability to impact the security of its customers' account data.	None, all functionality and services that could impact the security of cardholder data are described above.
Describe system components that could impact the security of account data.	The system components assessed impacting the security of the CDE are in scope databases, servers, firewalls/network security groups.

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Part 2. Executive Summary *(continued)*

Part 2c. Description of Payment Card Environment

Provide a high-level description of the environment covered by this Assessment. *For example:* • *Connections into and out of the cardholder data environment (CDE).* • *Critical system components within the CDE, such as POI devices, databases, web servers, etc., and any other necessary payment components, as applicable.* • *System components that could impact the security of account data.*	Stripe's cardholder data environment (CDE) system components are hosted across AWS cloud hosting environments and Equinix datacenters. These environments are physically and logically separated from the company's corporate offices and development/testing environments. There is no direct physical or point to point Virtual Private Network (VPN) connections between the production CDE cloud environment and the Stripe corporate office network or the development/testing environments. The CDE is segmented from non CDE systems using virtual firewalls and Access Control Lists (ACLs). Inbound access from the Internet to the CDE is secured over HTTPS with TLS encryption supporting the most secure protocol and highest cipher that the customer's browser can negotiate to access the Stripe applications and to process payment transactions. Remote access to the CDE is restricted via bastion hosts enabled with multifactor authentications. Outbound connections are restricted to necessary ports and protocols to support forwarding transactions to payment partners for payment authorization. The following critical system components within the CDE were assessed: • AWS applicable services (Virtual firewalls (security groups), load balancers, audit trails, time synchronization) • Servers (bastions, application, logging, database) • AWS Management console
Indicate whether the environment includes segmentation to reduce the scope of the Assessment. (Refer to the "Segmentation" section of PCI DSS for guidance on segmentation)	☒ Yes ☐ No

Part 2d. In-Scope Locations/Facilities (ROC Section 4.6)

List all types of physical locations/facilities (for example, corporate offices, data centers, call centers and mail rooms) in scope for this Assessment.

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Facility Type	Total Number of Locations (How many locations of this type are in scope)	Location(s) of Facility (city, country)
Physical Data Centers	7	Equinix Colocation Data Centers • Tokyo, Japan • Osaka, Japan • San Jose, CA, USA • Washington DC USA • Seattle, WA, USA • STET (Equinix datacenter regions of Saint-Denis, France and Paris, France)
Cloud hosted datacenters – AWS	9	AWS Cloud Hosting Data Centers • ap-northeast-1 / Asia Pacific (Tokyo) • ap-south-1 / Asia Pacific (Mumbai) • ap-southeast-1 / Asia Pacific (Singapore) • ap-southeast-2 / Asia Pacific (Sydney) • eu-west-1 / Europe (Ireland) • us-east-1 / US East (N. Virginia) • us-east-2 / US East (Ohio) • us-west-1 / US West (N. California) • us-west-2 / US West (Oregon)

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Part 2. Executive Summary *(continued)*

Part 2e. PCI SSC Validated Products and Solutions (ROC Section 3.3)

Does the entity use any item identified on any PCI SSC Lists of Validated Products and Solutions*?

☒ Yes ☐ No

Provide the following information regarding each item the entity uses from PCI SSC's Lists of Validated Products and Solutions:

Name of PCI SSC validated Product or Solution	Version of Product or Solution	PCI SSC Standard to which Product or Solution Was Validated	PCI SSC Listing Reference Number	Expiry Date of Listing
Stripe Terminal P2PE	Not Applicable	P2PE v3.1	2022-01212.001	05/26/2025

* For purposes of this document, "Lists of Validated Products and Solutions" means the lists of validated products, solutions, and/or components, appearing on the PCI SSC website (www.pcisecuritystandards.org) (for example, 3DS Software Development Kits, Approved PTS Devices, Validated Payment Software, Point to Point Encryption (P2PE) solutions, Software-Based PIN Entry on COTS (SPoC) solutions, Contactless Payments on COTS (CPoC) solutions), and Mobile Payments on COTS (MPoC) products.

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Part 2. Executive Summary *(continued)*

Part 2f. Third-Party Service Providers (ROC Section 4.4)

For the services being validated, does the entity have relationships with one or more third-party service providers that:

• Store, process, or transmit account data on the entity's behalf (for example, payment gateways, payment processors, payment service providers (PSPs, and off-site storage))	☒ Yes ☐ No
• Manage system components included in the entity's Assessment (for example, via network security control services, anti-malware services, security incident and event management (SIEM), contact and call centers, web-hosting companies, and IaaS, PaaS, SaaS, and FaaS cloud providers)	☒ Yes ☐ No
• Could impact the security of the entity's CDE (for example, vendors providing support via remote access, and/or bespoke software developers).	☒ Yes ☐ No

If Yes:

Name of Service Provider:	Description of Services Provided:
Amazon - Amazon Web Services (AWS)	Cloud Service Provider
Equinix, Inc.	Colocation Hosting Provider
Idemia UK	Facilitates Generation and issuing of cards
Thales	Facilitates Generation and issuing of cards
Fastly	Content Delivery Network
Kodex,Inc.	Provides secure platform for legal subpoena and litigation responses
Euronet Services India Pvt. Ltd	Provides financial and payment processing services, supporting colocation hosting
STET (Cartes Bancaires)	Provides financial and payment processing services, supporting colocation hosting

Note: *Requirement 12.8 applies to all entities in this list.*

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Part 2. Executive Summary *(continued)*

Part 2g. Summary of Assessment (ROC Section 1.8.1)

Indicate below all responses provided within each principal PCI DSS requirement.

For all requirements identified as either "Not Applicable" or "Not Tested," complete the "Justification for Approach" table below.

Note: *One table to be completed for each service covered by this AOC. Additional copies of this section are available on the PCI SSC website.*

Name of Service Assessed: Stripe Payments – (Checkout, Payment Links, Elements, Link, Stripe.js v3, Stripe.jsv2), Stripe Connect, Stripe Dashboard, Stripe Billing, Stripe Invoicing, Stripe Terminal, Stripe Mobile (iOS and Android Mobile SDKs), Stripe Issuing, Stripe API, Stripe Multiprocessor

PCI DSS Requirement	Requirement Finding More than one response may be selected for a given requirement. Indicate all responses that apply.				Select If a Compensating Control(s) Was Used
	In Place	Not Applicable	Not Tested	Not in Place	
Requirement 1:	☒	☒	☐	☐	☐
Requirement 2:	☒	☒	☐	☐	☐
Requirement 3:	☒	☒	☐	☐	☐
Requirement 4:	☒	☒	☐	☐	☐
Requirement 5:	☒	☒	☐	☐	☐
Requirement 6:	☒	☐	☐	☐	☐
Requirement 7:	☒	☐	☐	☐	☐
Requirement 8:	☒	☒	☐	☐	☐
Requirement 9:	☒	☒	☐	☐	☐
Requirement 10:	☒	☐	☐	☐	☐
Requirement 11:	☒	☒	☐	☐	☐
Requirement 12:	☒	☒	☐	☐	☐
Appendix A1:	☐	☒	☐	☐	☐
Appendix A2:	☐	☒	☐	☐	☐

Justification for Approach

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For any Not Applicable responses, identify which sub-requirements were not applicable and the reason.	Requirement 1.2.6 – Not Applicable, there are no insecure protocols or services in Stripe CDE. Requirement 1.3.3 – Not Applicable, there are no wireless networks connected to Stripe CDE. Requirement 2.2.5 - Not Applicable, there are no insecure services, daemons or protocols enabled in Stripe CDE. Requirement (s) 2.3.1. 2.3.2 - Not Applicable, Stripe does not maintain any in-scope wireless networks connecting to the cardholder data environment. Requirement 3.5.1.1 - Not Applicable, hashes are not utilized in the CDE. Requirement (s) 3.5.1.2, 3.5.1.3 - Not Applicable, Stripe does not utilize disk encryption in the CDE Requirement 3.6.1.3 - Not Applicable, There is no cleartext access to the cryptographic key materials. Requirement 3.7.6 – Not Applicable, Stripe does not maintain manual clear text cryptographic key operations in the CDE. Requirement 3.7.2, 3.7.9 – Not Applicable, Stripe does not share or distribute keys in the CDE Requirement 4.2.1.2 – Not Applicable, Stripe does not have wireless networks connected to the CDE Requirement 5.2.3.1 – Not Applicable, Stripe has anti-malware enabled for all assets in the CDE. Requirement 8.2.2 – Not Applicable, Stripe does not have any shared, generic user accounts in the CDE. Requirement 8.2.3 – Not Applicable, Stripe does not maintain access to remotely connect to customer premises. Requirement 8.2.7 - Not Applicable, Stripe does not have remote access to customer premises. Requirement 8.3.9 – Not Applicable, Stripe has MFA solutions deployed along with passwords. Requirement (s) 8.3.10. 8.3.10.1 - Not Applicable, Stripe does not provide non-consumer customer access to the CDE. Requirement (s) 8.6.1, 8.6.2, 8.6.3 – Not Applicable, that there are no accounts used for interactive logins for systems or applications. Requirement (s) 9.4.1, 9.4.1.1, 9.4.1.2, 9.4.2, 9.4.3, 9.4.4, 9.4.5, 9.4.5.1, 9.4.6, 9.4.7 – Not Applicable, Stripe does not store PAN or sensitive authentication data in any form (digital and non-digital media) or backup media. Requirement (s) 9.5.1, 9.5.1.1, 9.5.1.2, 9.5.1.2.1, 9.5.1.3 – Not Applicable, Stripe does not maintain POS/POI devices in the CDE. Requirement (s) 11.3.1.3, 11.3.2.1 - Not Applicable, Stripe did not have any significant changes to the CDE. Requirement 11.4.4 - Not Applicable, no exploitable vulnerabilities found during the penetration test. Requirement 11.4.7 - Not Applicable, Stripe does not conduct and maintain penetration testing support for customers.

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	Requirement 12.3.2 – Not Applicable, Stripe does not utilize customized approach in the CDE. Requirement 12.5.3 – Not Applicable, there were no significant changes to the organizational structure. Requirement (s) A1.1.1, A1.1.2, A1.1.3, A1.1.4, A 1.2.1, A1.2.2, A1.2.3 - Not Applicable, Stripe customers do not have access to the CDE and hence customer specific controls are not applicable. Requirement (s) A2.1.1, A2.1.2, A2.1.3 – Not Applicable, Stripe does not maintain POS/POI devices that use SSL/early TLS.
For any Not Tested responses, identify which sub-requirements were not tested and the reason.	Not Applicable

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Section 2 Report on Compliance

(ROC Sections 1.2 and 1.3)

Date Assessment began: ***Note:*** *This is the first date that evidence was gathered, or observations were made.*	08/29/2024
Date Assessment ended: ***Note:*** *This is the last date that evidence was gathered, or observations were made.*	02/05/2025
Were any requirements in the ROC unable to be met due to a legal constraint?	☐ Yes ☒ No
Were any testing activities performed remotely?	☒ Yes ☐ No

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Section 3 Validation and Attestation Details

Part 3. PCI DSS Validation (ROC Section 1.7)

This AOC is based on results noted in the ROC dated *(Date of Report as noted in the ROC 03/01/2025).*

Indicate below whether a full or partial PCI DSS assessment was completed:

☒ **Full Assessment** – All requirements have been assessed and therefore no requirements were marked as Not Tested in the ROC.

☐ **Partial Assessment** – One or more requirements have not been assessed and were therefore marked as Not Tested in the ROC. Any requirement not assessed is noted as Not Tested in Part 2g above.

Based on the results documented in the ROC noted above, each signatory identified in any of Parts 3b-3d, as applicable, assert(s) the following compliance status for the entity identified in Part 2 of this document *(select one):*

☒	**Compliant:** All sections of the PCI DSS ROC are complete, and all assessed requirements are marked as being either In Place or Not Applicable, resulting in an overall **COMPLIANT** rating; thereby Stripe,Inc. has demonstrated compliance with all PCI DSS requirements except those noted as Not Tested above.
☐	**Non-Compliant:** Not all sections of the PCI DSS ROC are complete, or one or more requirements are marked as Not in Place, resulting in an overall **NON-COMPLIANT** rating; thereby *Not Applicable* has not demonstrated compliance with PCI DSS requirements. **Target Date** for Compliance: *Not Applicable* An entity submitting this form with a Non-Compliant status may be required to complete the Action Plan in Part 4 of this document. Confirm with the entity to which this AOC will be submitted before completing Part 4.
☐	**Compliant but with Legal exception:** One or more assessed requirements in the ROC are marked as Not in Place due to a legal restriction that prevents the requirement from being met and all other assessed requirements are marked as being either In Place or Not Applicable, resulting in an overall **COMPLIANT BUT WITH LEGAL EXCEPTION** rating; thereby *Not Applicable* has demonstrated compliance with all PCI DSS requirements except those noted as Not Tested above or as Not in Place due to a legal restriction. This option requires additional review from the entity to which this AOC will be submitted. *If selected, complete the following:*

Affected Requirement	Details of how legal constraint prevents requirement from being met
Not Applicable	Not Applicable

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Part 3. PCI DSS Validation *(continued)*

Part 3a. Service Provider Acknowledgement

Signatory(s) confirms:
(Select all that apply)

☒	The ROC was completed according to *PCI DSS*, Version 4.0.1 and was completed according to the instructions therein.
☒	All information within the above-referenced ROC and in this attestation fairly represents the results of the Assessment in all material respects.
☒	PCI DSS controls will be maintained at all times, as applicable to the entity's environment.

Part 3b. Service Provider Attestation

Aaron Spinks

boxSIGN 4W279XPV-1VQ56P35

Signature of Service Provider Executive Officer ↑	Date: 03/03/2025
Service Provider Executive Officer Name: Aaron Spinks	Title: Head of Infrastructure

Part 3c. Qualified Security Assessor (QSA) Acknowledgement

If a QSA was involved or assisted with this Assessment, indicate the role performed:	☒ QSA performed testing procedures. ☐ QSA provided other assistance. If selected, describe all role(s) performed: Not Applicable

Riona Mascarenhas

boxSIGN 13KQQZPQ-1VQ56P35

Signature of Lead QSA ↑	Date: 03/03/2025
Lead QSA Name: Riona Mascarenhas	

Andrew Barratt

boxSIGN 4PVXXKY4-1VQ56P35

Signature of Duly Authorized Officer of QSA Company ↑	Date: 03/03/2025
Duly Authorized Officer Name: Andrew Barratt	QSA Company: Coalfire Systems, Inc.

Part 3d. PCI SSC Internal Security Assessor (ISA) Involvement

If an ISA(s) was involved or assisted with this Assessment, indicate the role performed:	☐ ISA(s) performed testing procedures. ☐ ISA(s) provided other assistance. If selected, describe all role(s) performed:

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Part 4. Action Plan for Non-Compliant Requirements

Only complete Part 4 upon request of the entity to which this AOC will be submitted, and only if the Assessment has Non-Compliant results noted in Section 3.

If asked to complete this section, select the appropriate response for "Compliant to PCI DSS Requirements" for each requirement below. For any "No" responses, include the date the entity expects to be compliant with the requirement and provide a brief description of the actions being taken to meet the requirement.

PCI DSS Requirement	Description of Requirement	Compliant to PCI DSS Requirements (Select One)		Remediation Date and Actions (If "NO" selected for any Requirement)
		YES	NO	
1	Install and maintain network security controls	☐	☐	
2	Apply secure configurations to all system components	☐	☐	
3	Protect stored account data	☐	☐	
4	Protect cardholder data with strong cryptography during transmission over open, public networks	☐	☐	
5	Protect all systems and networks from malicious software	☐	☐	
6	Develop and maintain secure systems and software	☐	☐	
7	Restrict access to system components and cardholder data by business need to know	☐	☐	
8	Identify users and authenticate access to system components	☐	☐	
9	Restrict physical access to cardholder data	☐	☐	
10	Log and monitor all access to system components and cardholder data	☐	☐	
11	Test security systems and networks regularly	☐	☐	
12	Support information security with organizational policies and programs	☐	☐	
Appendix A1	Additional PCI DSS Requirements for Multi-Tenant Service Providers	☐	☐	
Appendix A2	Additional PCI DSS Requirements for Entities using SSL/early TLS for Card-Present POS POI Terminal Connections	☐	☐	

Note: The PCI Security Standards Council is a global standards body that provides resources for payment security professionals developed collaboratively with our stakeholder community. Our materials are accepted in numerous compliance programs worldwide. Please check with your individual compliance accepting organization to ensure that this form is acceptable in their program. For more information about PCI SSC and our stakeholder community please visit: https://www.pcisecuritystandards.org/about_us/

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13151 SW 17th Ct
Miramar, FL 33027

Annual Reports

Report Year	Filed Date
2023	01/18/2023
2024	01/19/2024
2025	01/24/2025

Document Images

01/24/2025 -- ANNUAL REPORT	View image in PDF format
01/19/2024 -- ANNUAL REPORT	View image in PDF format
09/28/2023 -- AMENDED ANNUAL REPORT	View image in PDF format
01/18/2023 -- ANNUAL REPORT	View image in PDF format
02/18/2022 -- ANNUAL REPORT	View image in PDF format
02/01/2021 -- ANNUAL REPORT	View image in PDF format
01/19/2020 -- ANNUAL REPORT	View image in PDF format
02/08/2019 -- ANNUAL REPORT	View image in PDF format
11/13/2018 -- REINSTATEMENT	View image in PDF format
08/08/2017 -- Florida Limited Liability	View image in PDF format

Florida Department of State, Division of Corporations

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ELECTRICAL CONTRACTORS' LICENSING BOARD

THE ELECTRICAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

MEDINA, DANIEL A.

DMC ELECTRICAL, LLC
13151 SW 17TH COURT
MIRAMAR FL 33027

LICENSE NUMBER: EC13012812

EXPIRATION DATE: AUGUST 31, 2026

Always verify licenses online at MyFloridaLicense.com

ISSUED: 08/13/2024

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

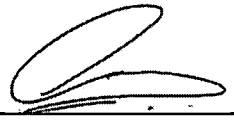
In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

> 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).
>
> 3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME	RELATIONSHIPS

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.



Authorized Signature

CHIEF EXECUTIVE OFFICER

Title

CARLOS R MOLINA GALLARDO

Name (Printed)

28/04/2025

Date

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

   Contracts. Every Contract exceeding $100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

   The Contract shall include provisions for the following:

   (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.

   (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.



Authorized Signature

CARLOS R MOLINA GALLARDO, CEO

Print Name and Title

28/04/2025

Date

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

____ MasterCard

✓ Visa

THE LUMINICOS, CORP

Company Name

CARLOS R MOLINA GALLARDO

Name (Printed)

Signature

CHIEF EXECUTIVE OFFICER

Title

28/04/2025

Date

LOCAL BUSINESS PREFERENCE

Section 2-199.2, Code of Ordinances of the City of Fort Lauderdale, (Ordinance No. C-12-04), provides for a local business preference.

In order to be considered for a local business preference, a bidder must include the Local Business Preference Certification Statement of this ITB, as applicable to the local business preference class claimed **at the time of bid submittal.**

Upon formal request of the City, based on the application of a Local Business Preference the Bidder shall, within ten (10) calendar days, submit the following documentation to the Local Business Preference Class claimed:

A) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **and**

B) List of the names of all employees of the bidder and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the local business preference.

THE COMPLETE LOCAL BUSINESS PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK:
https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-186LOBUPRPR

Definitions: The term "Business" shall mean a person, firm, corporation or other business entity which is duly licensed and authorized to engage in a particular work in the State of Florida. Business shall be broken down into four (4) types of classes:

1. Class A Business – shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City **and** shall maintain a staffing level of the prime contractor for the proposed work of at least fifty percent (50%) who are residents of the City.

2. Class B Business - shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City **or** shall maintain a staffing level of the prime contractor for the proposed work of at least fifty percent (50%) who are residents of the City.

3. Class C Business - shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone **and** staffed with full-time employees within the limits of Broward County.

4. Class D Business – shall mean any Business that does not qualify as either a Class A, Class B, or Class C business.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local business price preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

(1) _____ Business Name is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and evidence of their addresses shall be provided within 10 calendar days of a formal request by the City.

(2) _____ Business Name is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the Business Tax Receipt **or** a complete list of full-time employees and evidence of their addresses shall be provided within 10 calendar days of a formal request by the City.

(3) _____ Business Name is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.

(4) _____ Business Name requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(5) _____ Business Name requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(6) _____ Business Name is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186 and does not qualify for Local Preference consideration.

BIDDER'S COMPANY: THE LUMINICOS, CORP

AUTHORIZED COMPANY PERSON: CARLOS R MOLINA GALI _____ 24/04/202

PRINT NAME SIGNATURE DATE

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PREFERENCE

Section 2-185, Code of Ordinances of the City of Fort Lauderdale, provides for a disadvantaged business preference:

In order to be considered for a DBE Preference, a bidder must include a certification from a government agency, as applicable to the DBE Preference class claimed **at the time of bid submittal.**

Upon formal request of the City, based on the application of a DBE Preference the Bidder shall, within ten (10) calendar days, submit the following documentation to the DBE Class claimed:

A) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **or** State of Florida active registration **and/or**

B) List of the names of all employees of the bidder and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the disadvantaged business preference.

THE COMPLETE DBE PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: https://www.fortlauderdale.gov/home/showpublisheddocument?id=56883

Definitions

a. The term "disadvantaged class 1 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual. The term "Class B business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, or shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.

b. The term "disadvantaged class 2 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with a full-time employees and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual. The term "Class D business" shall mean any business that does not qualify as a Class A, Class B, or Class C business.

c. The term "disadvantaged class 3 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a CAM #21-0053 Exhibit 1 Page 6 of 10non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

d. The term "disadvantaged class 4 enterprise" shall mean any disadvantaged business enterprise that does not qualify as a Class A, Class B, or Class C business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the disadvantaged business enterprise price preference classification as indicated herein, and further certifies and agrees that it will re-affirm its preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this solicitation. Violation of the foregoing provision may result in contract termination.

(1) _____ Business Name is a disadvantaged class 1 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual. The term "Class B business" shall mean any business that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, or shall maintain a staffing level for the proposed work of at least fifty percent (50%) who are residents of the City of Fort Lauderdale.

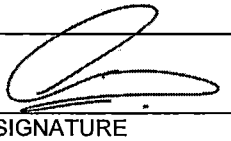
(2) _____ Business Name is a disadvantaged class 2 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with a full-time employee(s) and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual. The term "Class D business" shall mean any business that does not qualify as a Class A, Class B, or Class C business.

(3) _____ Business Name is a disadvantaged class 3 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a CAM #21-0053 Exhibit 1 Page 6 of 10non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(4) _____ Business Name is a disadvantaged class 4 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that does not qualify as a Class A, Class B, or Class C business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

(5) _____ Business Name is not considered a Disadvantaged Enterprise Business as defined in the City of Fort Lauderdale Ordinance Sec.2-185 and does not qualify for DBE Preference consideration.

BIDDER'S COMPANY: THE LUMINICOS, CORP

AUTHORIZED COMPANY PERSON: CARLOS R MOLINA GALLA  24/04/2025

PRINT NAME SIGNATURE DATE

E-VERIFY AFFIRMATION STATEMENT

RFP/Bid /Contract No: Event # 427

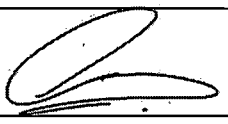
Project Description: Las Olas Garage Lighting Façade

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

(a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
(b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: THE LUMINICOS, CORP

Authorized Company Person's Signature: 

Authorized Company Person's Title: CHIEF EXECUTIVE OFFICER

Date: 28/04/2025

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)

2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)

3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)

4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)

5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)

6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(I), Florida Statutes)

7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.

8. ***(Only applicable if purchasing real property)*** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

9. The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: CARLOS R MOLINA GALLARDO Title: CHIEF EXECUTIVE OFFICER Entity: THE LUMINICOS, CORP

Signature: _____ Date: 28/04/2025

NOTARY PUBLIC ACKNOWEDGEMENT SECTION

STATE OF FLORIDA (FN)
COUTY OF ~~MIAMI-DADE~~ BROWARD

The foregoing instrument was acknowledged before me, by means of ☑ physical presence or ☐ online notarization, this 28 day of April 2025, by CARLOS R MOLINA GALLARDO, as CHIEF EXECUTIVE OFFICER for THE LUMINICOS, CORP, who is personally known to me or who has produced FLORIDA DRIVER LICENSE as identification.

Notary Public Signature: _____ (Notary Seal)

Print Name: ~~CARLOS R MOLINA GALLARDO~~ (FN) FLORIAN NAPP

My commission expires: 12/19/2026

FLORIAN NAPP
MY COMMISSION # HH 341233
EXPIRES: December 19, 2026

REFERENCES

All references shall include owner, address, contact name, phone number, email and the contract value. References shall not include the City of Fort Lauderdale. A minimum of three (3) references shall be provided:

1. **Company Name:** THE LUMINICOS, CORP
   Address: 2125 BISCAYNE BLVD SUITE 242 MIAMI, FL 33137 USA
   Contact Name: _____
   Phone #: _____
   Email Address: THE@LUMINICOS.COM
   Contract Value: _____ Year: _____

2. **Company Name:** ROYAL PALM COMPANIES
   Address: 333 SE 2ND AVE SUITE 3000 MIAMI, FL 33131 USA
   Contact Name: RENE PEREZ
   Phone #: 3052189293
   Email Address: RENEP@RPCHOLDINGS.COM
   Contract Value: 300K Year: 2024

3. **Company Name:** CLUB DE REGATAS LIMA
   Address: AVE. CHACHI DIBOS 1201 CHORRILLOS 15063 PERU
   Contact Name: WILFREDO CESPEDES VARGAS MACHUCA
   Phone #: +51 213 4567 extension 1546
   Email Address: WCESPEDES@CLUBREGATAS.ORG.PE
   Contract Value: 583K Year: 2024

4. **Company Name:** CONSORCIO INTI PUNKU
   Address: AVE. NESTOR GAMBETTA S/N CALLAO 07031 PERU
   Contact Name: JOSE SILVA
   Phone #: +51 987 199 399
   Email Address: JSILVA@CUMBRA.COM.PE
   Contract Value: 2.6M Year: 2024

5. **Company Name:** _____
   Address: _____
   Contact Name: _____
   Phone #: _____
   Email Address: _____
   Contract Value: _____ Year: _____

DEPARTMENT OF FINANCE – PROCUREMENT

ANTI-HUMAN TRAFFICKING AFFIDAVIT

Rev: 1 | Date: 08/06/2024

The undersigned, on behalf of THE LUMINICOS, CORP a FL (*State*) CORPORATION (*Type of Entity*), ("Nongovernmental Entity"), under penalty of perjury, hereby deposes and says:

1. My name is CARLOS R MOLINA GALLARDO
2. I am an ____ officer or ✓ authorized representative of the Nongovernmental Entity.
3. I attest that the Nongovernmental Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes (2024), as may be amended or revised.

Under penalties of perjury, I declare that I have read the foregoing Anti-Human Trafficking Affidavit and that the facts stated in it are true.

Signature of Officer or Representative: _____

Name of Officer or Representative: CARLOS R MOLINA GALLARDO Title: CHIEF EXECUTIVE OFFICER

Office Address: 2125 BISCAYNE BLVD SUITE 242 MIAMI, FL 33137 USA

Email Address: THE@LUMINICOS.COM

Main Phone Number: 786 789 0606 FEIN No.: 87-1252278

STATE OF FLORIDA (FL)
COUNTY OF ~~MIAMI-DADE~~ BROWARD

Sworn to and subscribed before me by means of ☑ physical presence or ☐ online notarization, this 28 day of April, ~~2024~~ 2025 (FN) by CARLOS R. MOLINA GALLARDO

FLORIAN NAPP
MY COMMISSION # HH 341233
(SEAL) EXPIRES: December 19, 2026

_____
(Signature of Notary Public – State of FLORIDA)

FLORIAN NAPP
Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known ____ OR Produced Identification ✓

Type of Identification Produced FLORIDA DRIVER LICENSE

Approved by: Glenn Marcos, Chief Procurement Officer
Uncontrolled in hard copy unless otherwise marked

CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the City's on-line strategic sourcing platform prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration) THE LUMINICOS, CORP EIN (Optional): 87-1252278

Address: 2125 BISCAYNE BLVD SUITE 242 MIAMI, FL 33137 USA

City: MIAMI State: FL Zip: 33137

Telephone No.: 786 789 0606 FAX No.: - Email: THE@LUMINICOS.COM

Delivery: Calendar days after receipt of Purchase Order **(section 1.02 of General Conditions)**: 115 days

Total Bid Discount **(section 1.05 of General Conditions)**: 0

Check box if your firm qualifies for DBE **(section 1.09 of General Conditions)**: ☐

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
NO. 1	03/12						

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars ($500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

CARLOS R MOLINA GALLARDO
Name (printed)

Signature

28/04/2025
Date

CHIEF EXECUTIVE OFFICER
Title

CITY OF FORT LAUDERDALE

COMPETITIVE OR NON-COMPETITIVE NEGOTIATIONS TERM SHEET

EXHIBIT C

Solicitation Type: Request for Proposals

Solicitation Number: 427

Solicitation Title: Las Olas Garage Lighting Façade

Vendor: The Luminicos Corp

Initial Term: Three (3) years with two (2) optional one-year renewals

Date: 9/7/25

A term sheet is a summary of the negotiations containing the agreed upon key terms of an agreement. It serves as a template, references key points, and essentially lays the foundation for ensuring the pertinent aspects of the business transaction to avoid any misunderstanding and make it clear of the intent of both parties.

#	Key Term Description	Cite to Section/Clause of Solicitation, Proposal or Draft Agreement	Explanation/Agreed upon Term
1.	Responsibility	The selected vendor will be responsible for the design, selection, installation, operation, maintenance, and programming of the DFLS during the term of the agreement.	The Luminicos Corp. understands and accepts responsibilities as the selected Vendor.
2.	Attic Stock	Attic Stock (spares) will be stored on-site and required for all system components. The exact number of spares will be dependent upon known and calculated failure rates and upon the nature of the component.	The Luminicos Corp agreed to supply a to be determined number of removable nodes (4 LEDs) that CoFL will keep on hand for spare parts.
3.	Hardware and Lighting	The DFLS shall be provided with firmware and software to operate via Central control; to be provided by the same manufacturer as the fixtures. Lifetime updates and upgrades.	DFLS will be controlled by the same manufacturer known as "181" for DMX, SPI controllers, internal software and firmware.
4.	Data Sources/File Types (Section 3.2.4n)	Change to read "file types" EPS; JPG; PNG; MP4; HEIC; MOV; SVG;	The Luminicos Corp., agreed to change "data source" to " file type" and facilitate the following file types, EPS; JPG; PNG; MP4; HEIC; MOV; SVG.
5.	Installation	Project timeline	Per Lumincos Corp's proposal and project timeline, the installation will be completed within 4 months.

6.	Six-month to a year "return visit"	Once the owner has "lived" with the system, a return visit to make slight adjustments to the GUI lighting effects, and integration.	Within 6 months up to 1 year after the installation is complete and the façade is functioning. Luminicos will make continuous adjustments to optimize the lighting to the City's Satisfaction.
7.	Maintenance	1st year included in proposal.	Maintenance starts after the Six-month to a year "return visit" is complete. 1st year of maintenance is free. The 2nd through 5th maintenance years at an annual cost of $18,000.00. Maintenance will consist of inspecting for functionality of lighting and repair; repair if needed will take place on same day or next day depending on daylight
8.	Maintenance Reporting	Delivery of detailed reports after each site visit, including a summary of findings, maintenance actions performed, and recommendations for any additional corrective measures.	Luminicos will provide a written report of findings after each maintenance check. Report will be submitted via email within 48 hours of maintenance check. Some examples of reports: -Movement of lighting -Color Pixels (lighting) -Functioning/functional
9.	Warranty	DFLS shall carry a product warranty period of (5) years.	Luminicos is responsible for the warranty on all labor while the manufacturer is responsible for the warranty of the parts; Luminicos will engage the manufacturer for parts warranty issues. Warranty on parts and labor at no additional cost.
10	Software Troubleshooting/Hosting	All software, middleware, and hardware as proposed by Luminicos	Luminicos will troubleshoot any problems encountered by the City involving the software, middleware, and hardware proposed by Luminicos.
11	Contract Term with Renewal Option Price Breakdown	Request for Proposals, Section 2.35 and Section IV, Compensation, of the Agreement.	The initial three (3) year term and two (2) additional one-year renewal options price breakdown is as follows: <u>Initial Three-Year Term</u>: Year 1- Installation of Lighting Façade = $1,139,818.02 Year 2- 1st Year Maintenance: No Cost Year 3- 2nd Year Maintenance: $18,000 <u>Two (2) Additional One-Year Renewal Options</u>: Year 4- 3rd Year Maintenance: $18,000 Year 5- 4th Year Maintenance: $18,000 The fifth year of maintenance of $18,000 has been agreed to outside the five (5) year contract term and will be processed as a *Proprietary Purchase* pursuant to Section 2-181(f)(3), Code of Ordinances of the City of Fort Lauderdale, Florida, whereby the City may purchase a proprietary item without the necessity of a competitive solicitation when it is not readily available from more than one (1) supplier, manufacturer, or person and is unique in nature.
12	Progressive Payments and Milestones	Progressive payments	5% – Engineering & installation plans 15% – Demolition / de-installation 30% – Delivery of luminaires and control equipment to the jobsite 25% – Installation completed 25% – Final commissioning & acceptance

13	Contract Point of Contact (POC)	Luminicos Corp's POC for the term of the contract.	Name: CARLOS MOLINA Title: CEO Cellphone: (305) 363-6497 Email: carlos@luminicos.com

The person below is authorized to bind the parties to the agreed upon key points and terms cited above to incorporate into an agreement.

City of Fort Lauderdale	Name of Firm: The Luminicos Corp.
Signature: Rickelle Williams	Signature: Digitally signed by MOLINA GALLARDO CARLOS RAUL
Print Name: Rickelle Williams	Print Name: CARLOS MOLINA
Position/Title: City Manager Date: 9/26/2025	Position/Title: CEO Date:

Tabulation Of Bids

Event # : 427

Version: 5

Name: Las Olas Garage Lighting Facade

Description: The City of Fort Lauderdale, Florida (City) is seeking qualified, experienced and licensed firm(s), hereinafter referred to as Contractor, Bidder or Proposer, to provide a turnkey, dynamic Façade Lighting System (DFLS) at the Las Olas Parking Garage for the City, in accordance with the terms, conditions, and specifications contained in this Request for Proposals (RFP).

Open Date: 03/12/2025 02:00:00 PM **Close Date:** 04/29/2025 02:00:00 PM

Event Currency: USD

Supplier	Bid Amount
G&H Electric Inc. 227 SW 2 Avenue Fort Lauderdale, FL 33301	2,764,940.96
Canseco Electrical Contractors Inc 8567 Coral Way #395 Miami, FL 33155	7,250,000.00
Statement Lighting and Designs LLC 24349 Adair Ave Sorrento, FL 32776	2,508,281.00
SKYLINE ARTS LLC 605 Heron Drive Delray Beach, FL 33444	3,812,000.00
Syris Tech LLC 8 The Green, Suite A. Dover, DE 19901	1,605,000.04

Tabulation Of Bids For Event # 427: Las Olas Garage Lighting Facade

The Luminicos, Corp. 2125 Biscayne Blvd Suite 242 Miami, FL 33137	1,139,818.02
Koncept Systems LLC 10893 NW 17th ST Suite 120 Doral, FL 33172	882,039.04
Sign Acquisition, LLC 130 Commerce Rd Boynton Beach, FL 33426	4,499,552.40

Items

Item: LAS OLAS GARAGE LIGHTING FACADE

Description: Las Olas Garage Lighting Facade

Unit of Measure: LS **Quantity:** 1.0000

	Quantity	Unit Price	Extended Amount
G&H Electric Inc.	1.0000	2,678,291.000	2,678,291.00
Canseco Electrical Contractors Inc	1.0000	6,854,000.000	6,854,000.00
Statement Lighting and Designs LLC	1.0000	2,462,141.000	2,462,141.00
SKYLINE ARTS LLC	1.0000	3,758,000.000	3,758,000.00
Syris Tech LLC	1.0000	1,540,000.000	1,540,000.00
The Luminicos, Corp.	1.0000	1,121,818.020	1,121,818.02
Koncept Systems LLC	1.0000	832,839.040	832,839.04
Sign Acquisition, LLC	1.0000	4,454,553.480	4,454,553.48

Item: MONTHLY MAINTENANCE FAÇADE LIGHT

Description: Monthly Maintenance Façade Lighting System

Tabulation Of Bids For Event # 427: Las Olas Garage Lighting Facade

Unit of Measure: MO **Quantity:** 12.0000

	Quantity	Unit Price	Extended Amount
G&H Electric Inc.	12.0000	7,220.830	86,649.96
Canseco Electrical Contractors Inc	12.0000	33,000.000	396,000.00
Statement Lighting and Designs LLC	12.0000	3,845.000	46,140.00
SKYLINE ARTS LLC	12.0000	4,500.000	54,000.00
Syris Tech LLC	12.0000	5,416.670	65,000.04
The Luminicos, Corp.	12.0000	1,500.000	18,000.00
Koncept Systems LLC	12.0000	4,100.000	49,200.00
Sign Acquisition, LLC	12.0000	3,749.910	44,998.92