

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 29<sup>th</sup>, 2025

## TABLE OF CONTENTS

1. Executive Summary .....	1
2. Experience and Qualifications.....	
2.1 Company Overview .....	3
2.2 Relevant Experience and Projects.....	5
2.3 Staff and Key Individuals .....	16
2.4 Manufacturer Letter .....	18
2.5 Approach to Scope of Work .....	
2.6 Understanding of Project Objectives .....	20
2.7 Proposed Methodology and Vision .....	22
2.8 Design Plan and Diagrams.....	32
2.9 Tech Sheets .....	52
2.10 Video Proposal .....	92
2.11 Project Quote .....	93
2.12 Maintenance Scope and Quote.....	98
2.13 Project Timeline and Milestones .....	100
3. References .....	
3.1 List of at least three references .....	101
4. Subcontractors .....	
4.1 List and roles of all subcontractors .....	102
4.2 Subcontractor Experience.....	104
5. Required Forms and Compliance Documents .....	
5.1 Sample Insurance Certificate.....	106
5.2 W-9 Form .....	109
5.3 Sunbiz Active Status Page .....	110
5.4 PCI Compliance Statement or AOC (Attestation of Compliance).....	112
6. Licensing Requirements .....	
6.1 Copy of Electrical Contractor License (CEC/REC or other as applicable).....	133

## EXECUTIVE SUMMARY

**The Lumínicos, 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.

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**

The Luminicos, Corp.  
2125 Biscayne Blvd Suite 242  
Miami, FL 33137 USA  
Email: the@luminicos.com  
Telephone: +1 786 789 0606  
www.luminicos.com/en

**CLAUDIA PAZ LIGHTING STUDIO MIAMI OFFICE**

ART LIGHT & DESIGN INC  
2125 Biscayne Blvd Suite 242  
Miami, FL 33137 USA  
Email: claudia@claudiapaz.com  
www.claudiapaz.com

**LUMINICOS LIMA OFFICE**

LUMINICOS S.A.C.  
Calle Bolognesi 180, Miraflores  
Lima, Peru  
Email: the@luminicos.com  
Telephone: +51 1 748 1221  
www.luminicos.com

**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

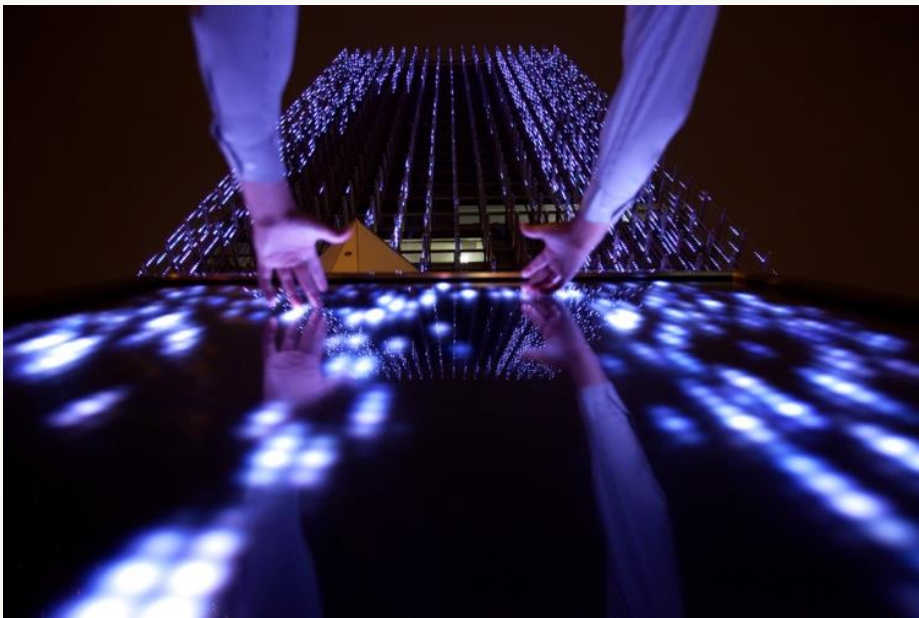


Primera Visión  
Lima, Peru  
Year: 2017  
Client: Cosapi  
Lighting design: Gabriel Allende



# Relevant Experience & Projects | Claudia Paz Lighting Studio

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





# Relevant Experience & Projects | Claudia Paz Lighting Studio

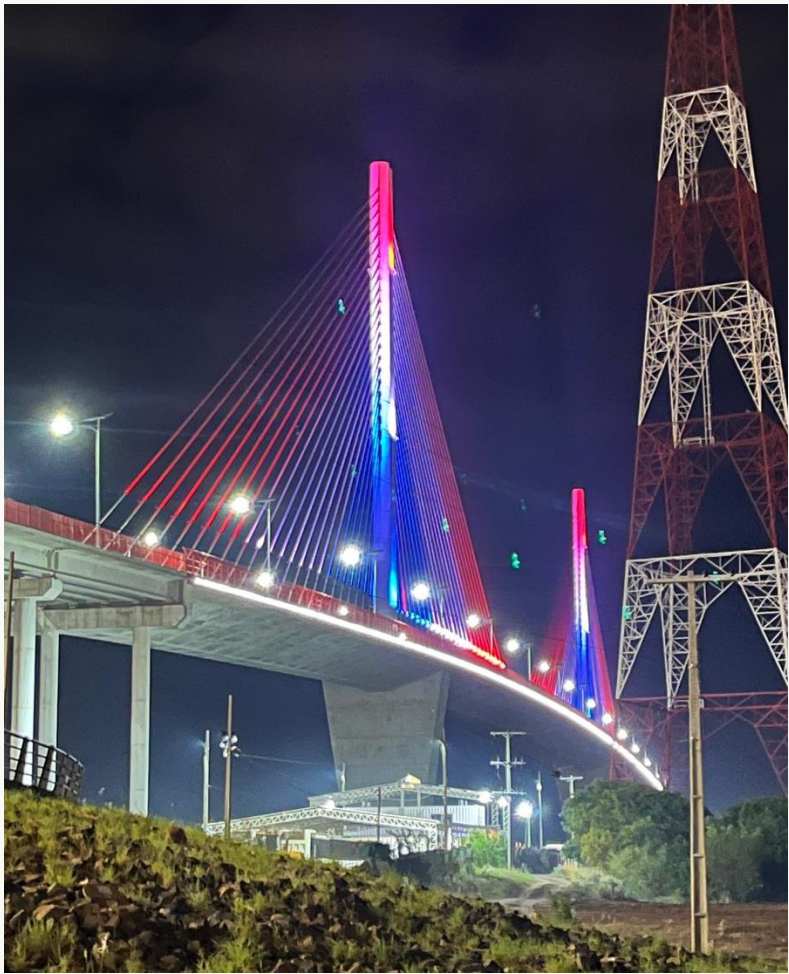
**National Stadium of Peru** | Lima, Peru | 2016 | <https://vimeo.com/105427715>





# 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



**Affinity: An Interactive Art Piece**  
**Lima, Peru**

**Designer:** Claudia Paz – Claudia Paz Lighting Studio  
**Owner:** Banco de Credito del Peru  
**Photos:** Paz & Cheung

An iconic public artwork installation in Peru forges a connection between a bank and the local citizenry. The result is an awe-inspiring experience of light, sound, speed and generative architecture that is directly related to one's own body movements, but can be enjoyed by others regardless of their distance from the building. The piece consists of three main parts: **a 3D façade canvas with six layers of LEDs** (covering 50 by 19 by 1.2 meters); an interactive LED outdoor podium with multi-touch sensors;

and a lighting control system. The fixtures are positioned in two distinct grids: one bright, bold and sparse for dramatic moments; the other concentrated and subtle for nuanced sculptural effects. A total of 26,182 RGB addressable fixtures are used. **As is the case with a musical instrument, people generate their own "composition" at the touch screen podium,** while smart algorithms work in the background to ensure a memorable encounter.

50 LD+A August 2015 [www.ies.org](http://www.ies.org)



AFFINITY: interactive Art piece

**2015**

THE OUTDOOR LIGHTING DESIGN AWARD SPONSORED BY EATON

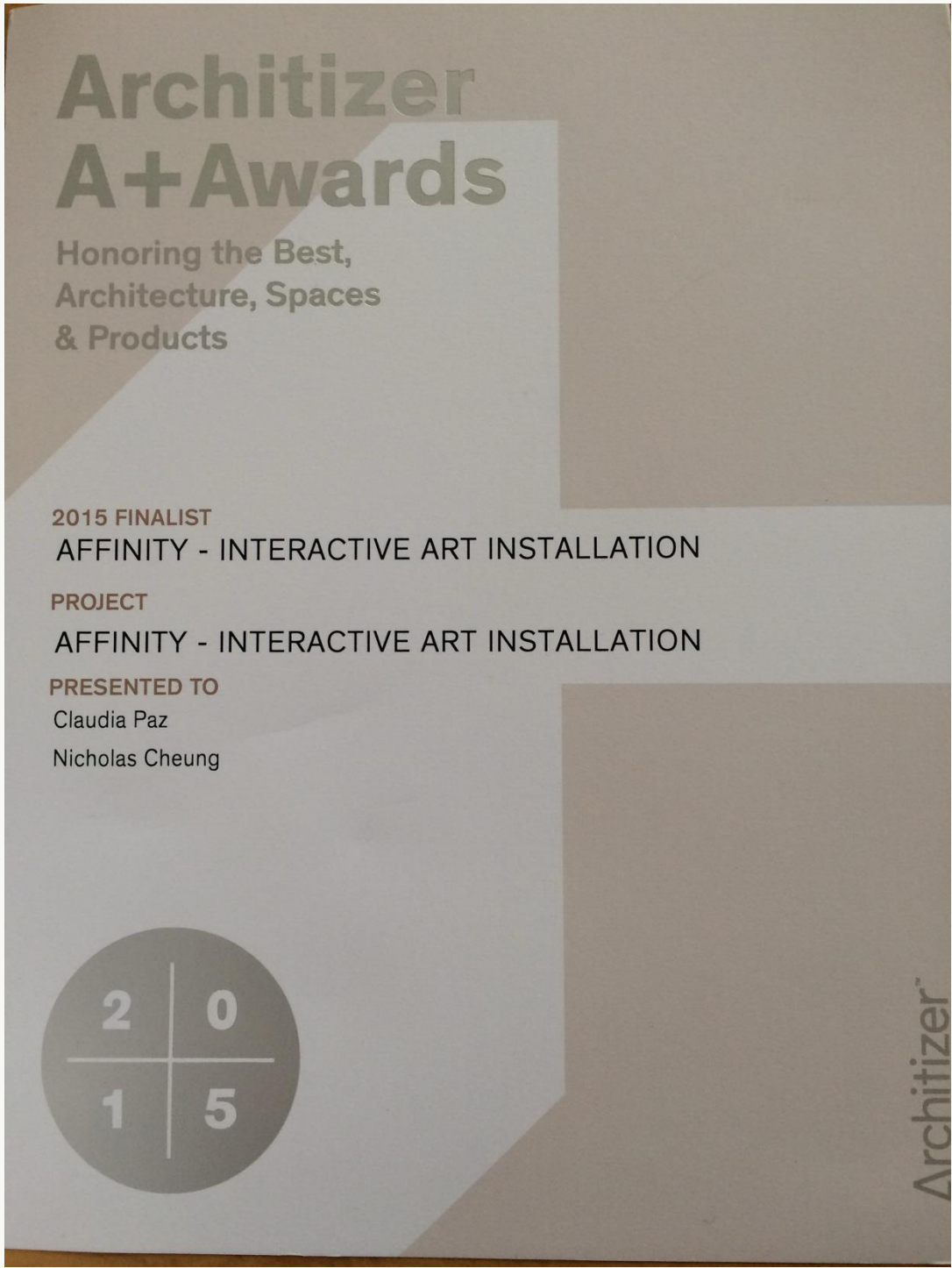
**AWARD OF DISTINCTION**

Claudia Paz  
Designer  
Banco de Credito del Peru  
Project Owner



Illumination Awards Chair

# 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*

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.





### Control System

- ○ 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

- ○ 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 Lauderdale 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 communicates 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

- 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.

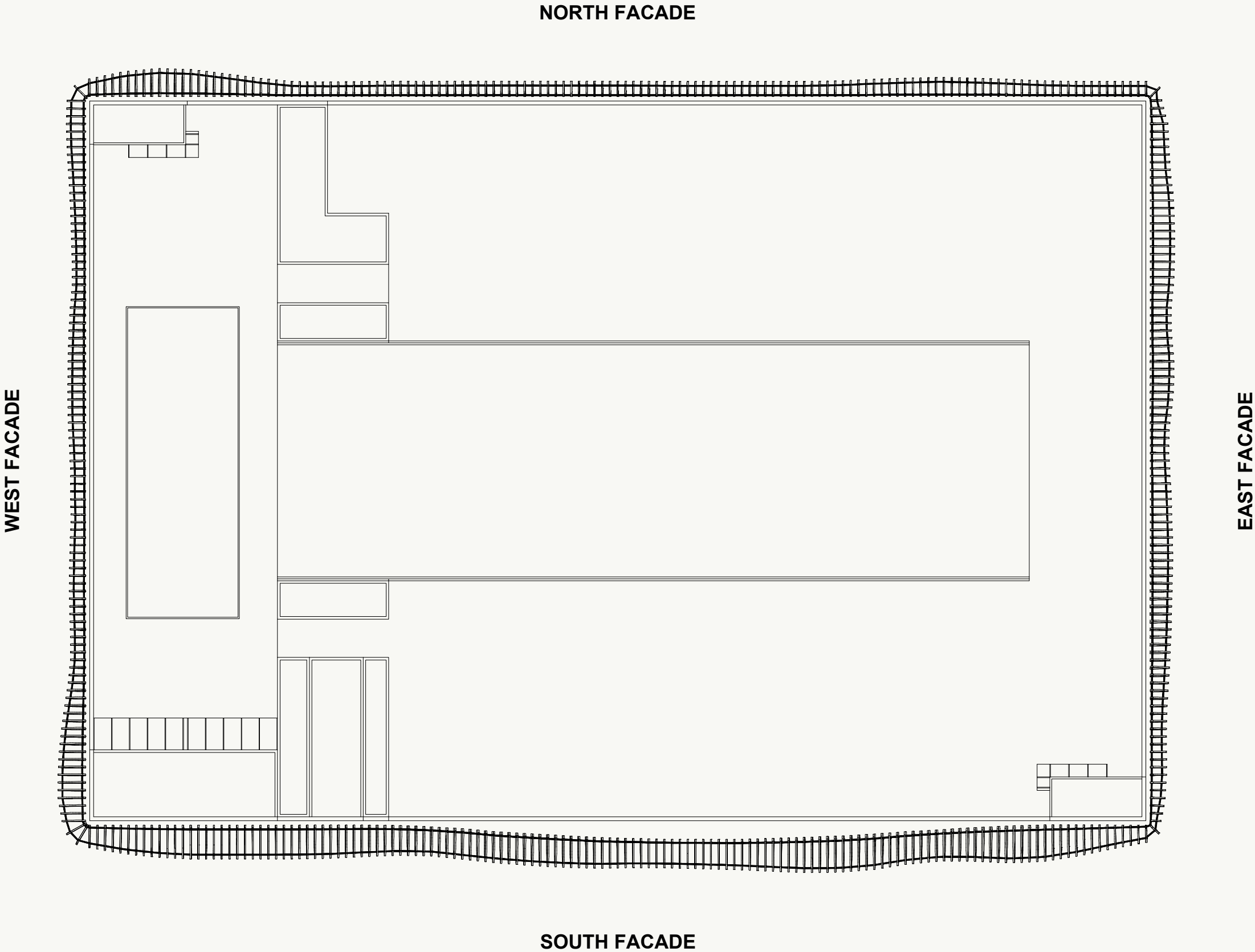
# General description

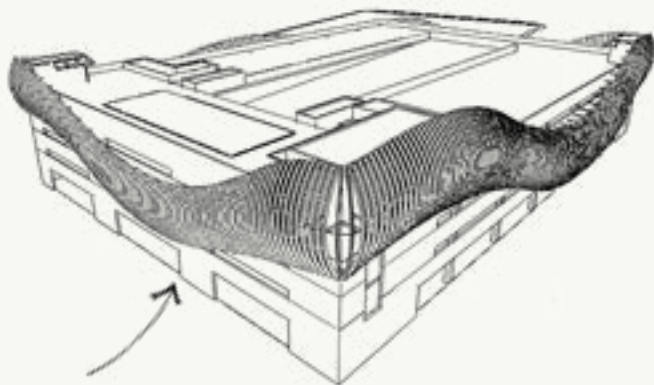
The design proposes the use of small RGBW pixel node lights, each capable of being individually controlled, allowing for highly flexible and dynamic lighting effects.

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

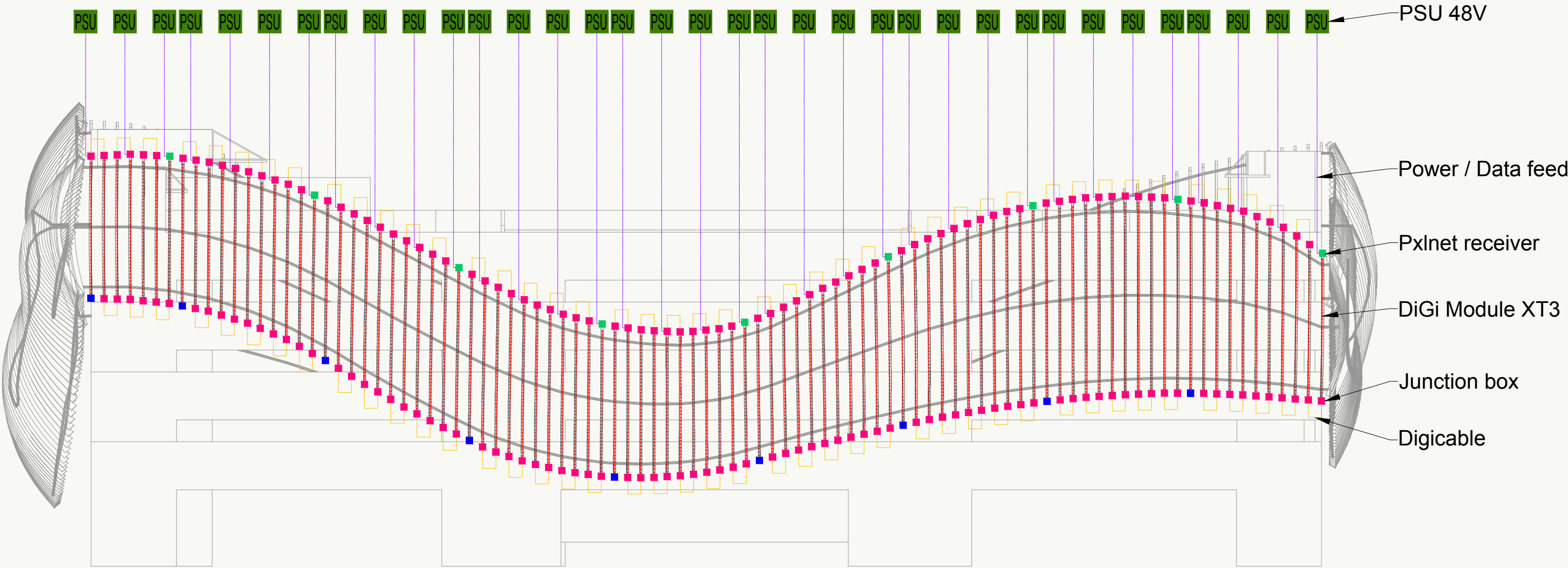




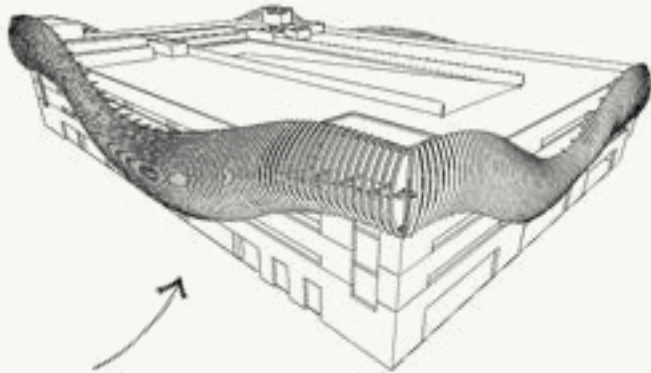
East Façade

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

East Façade



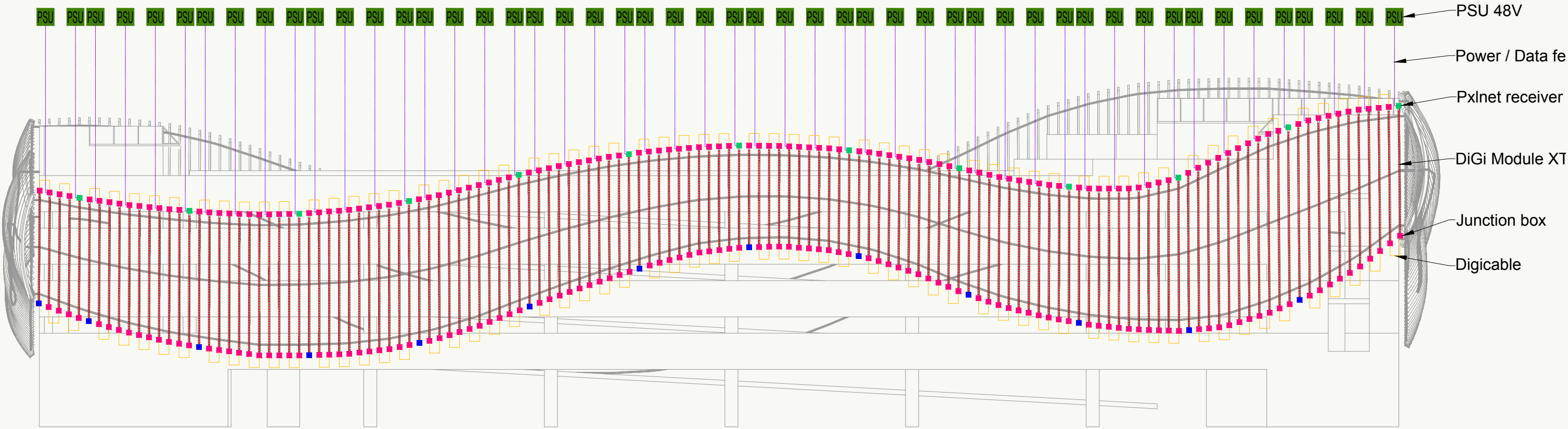




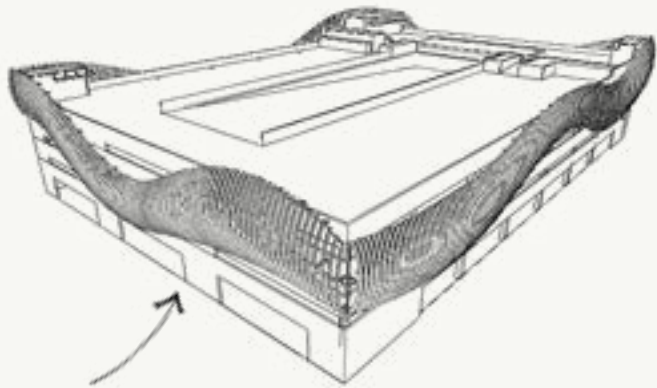
North Façade

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

# North Façade





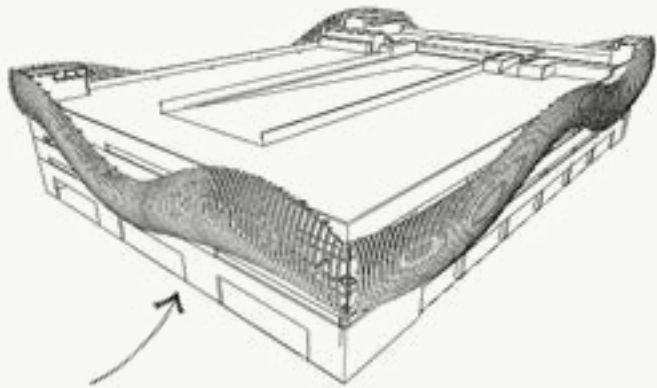


West Façade

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

West Façade

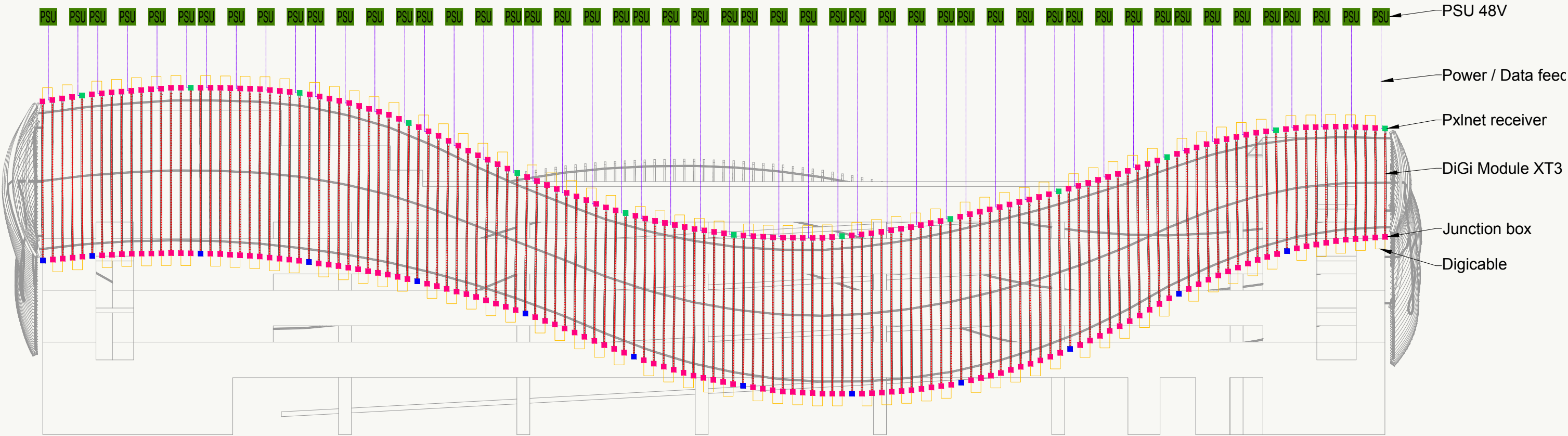




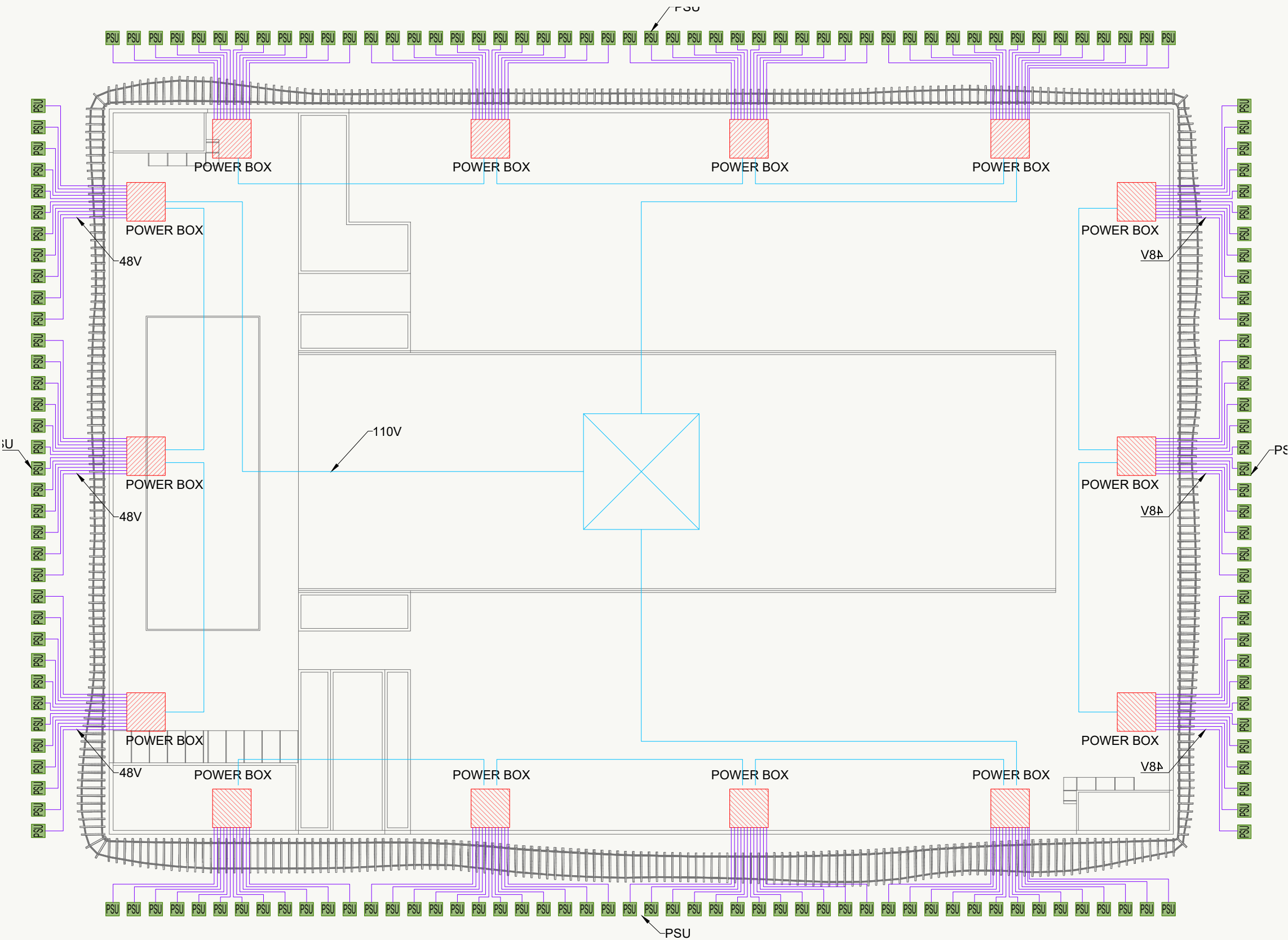
South Façade

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

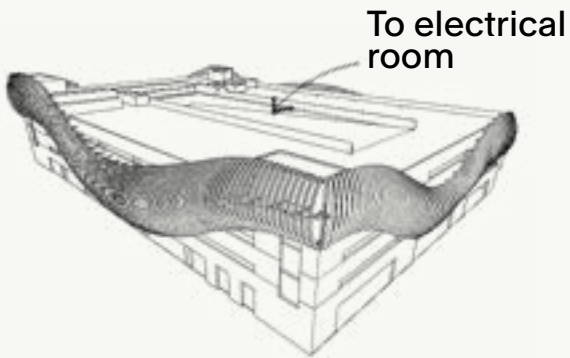
South Façade

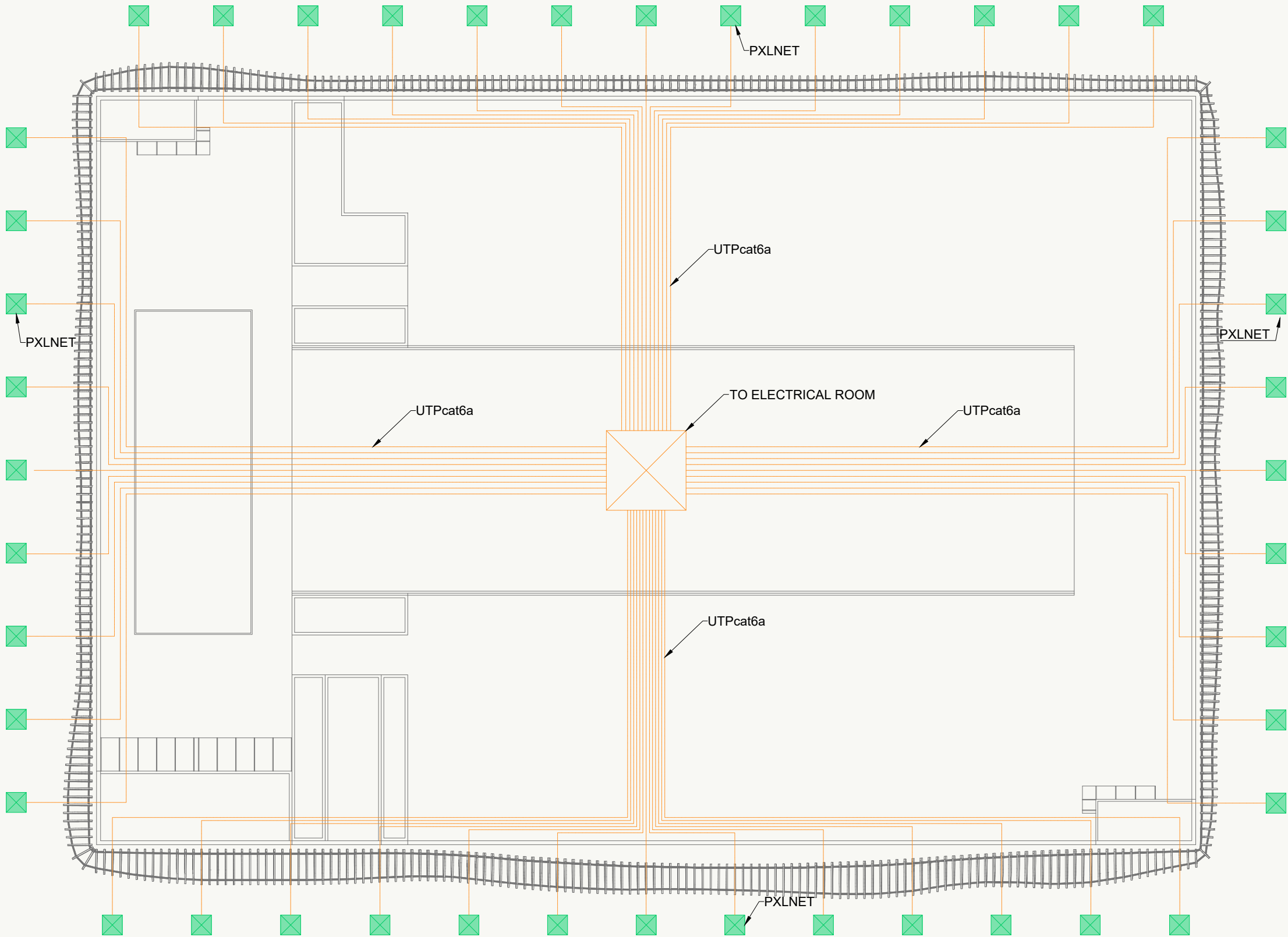




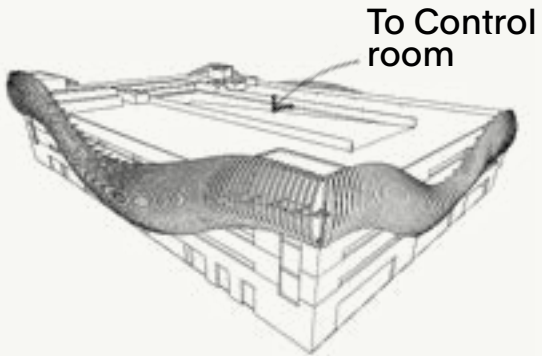


# Power Schematic

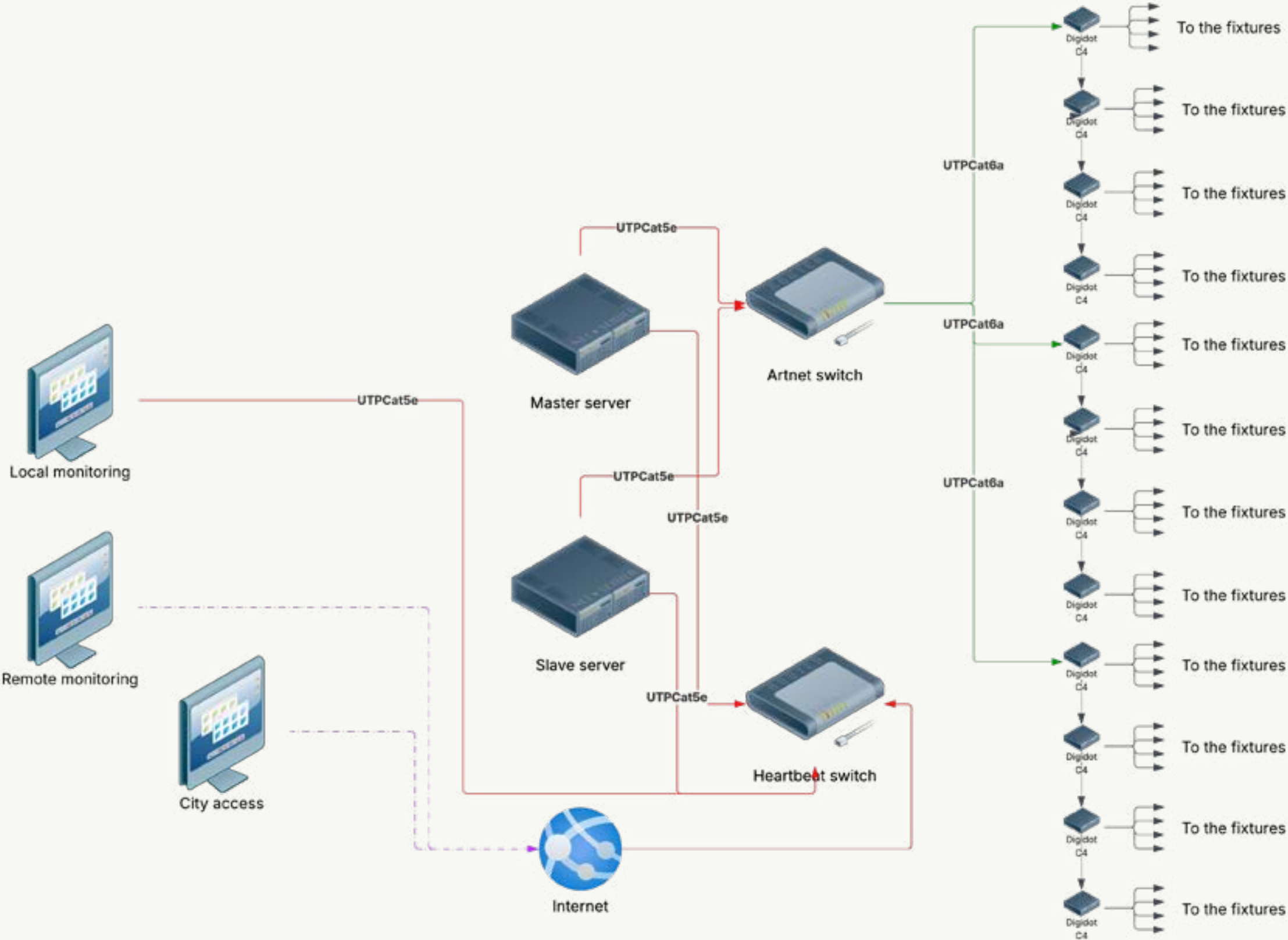




# Data Schematic







# 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.

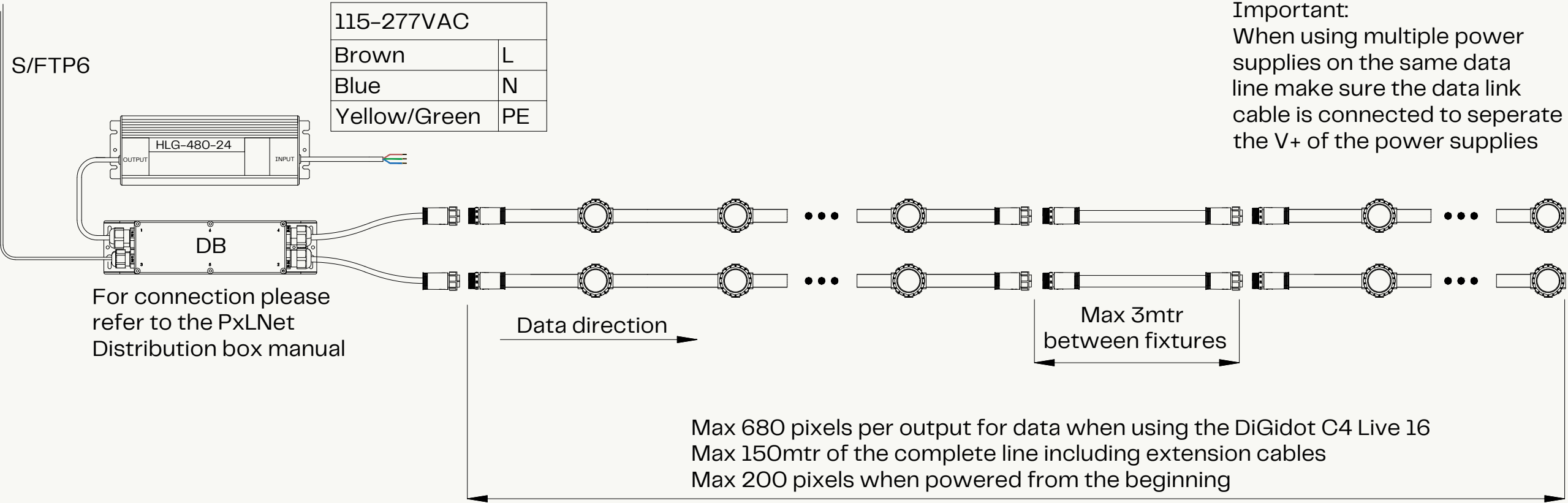


Advanced

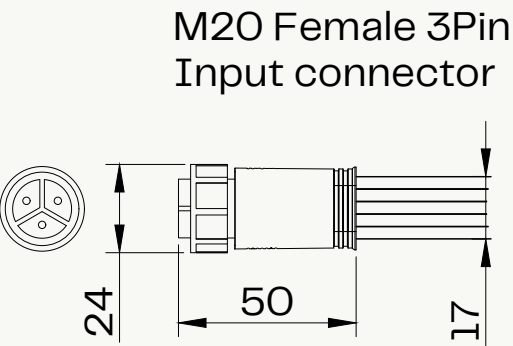
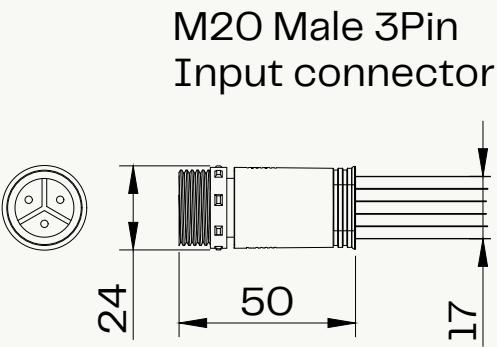
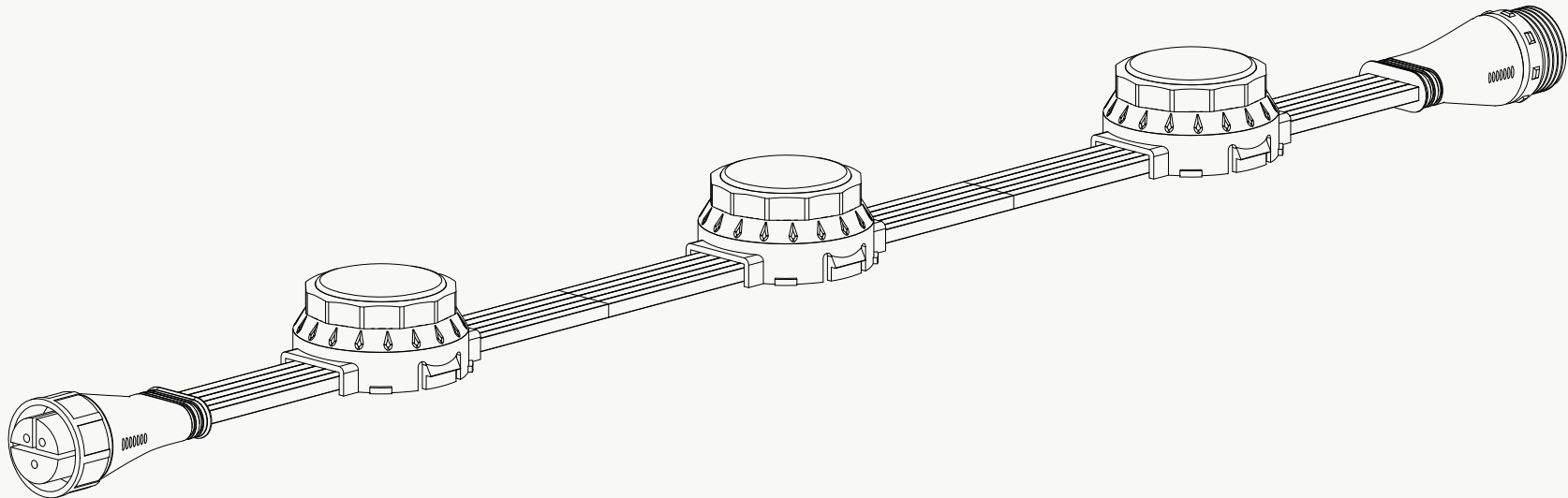
Schematic Wiring  
Control System

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

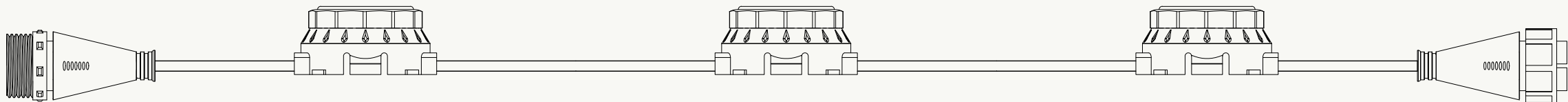
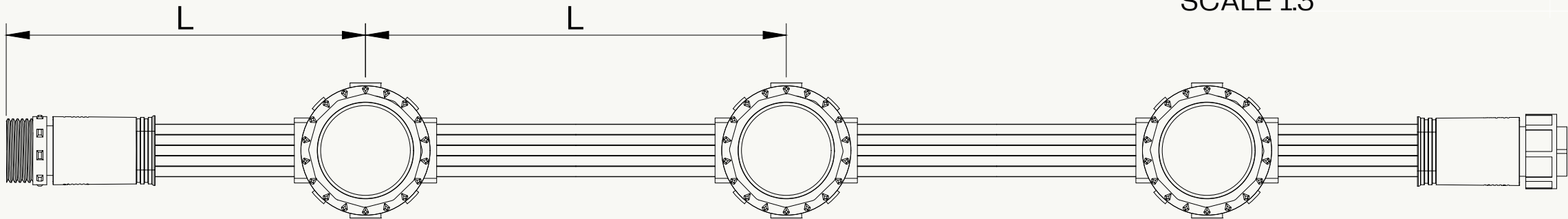
- Indoor
- Outdoor



Digimodule XT3



Connector  
SCALE 1:3





# Digimodule XT3

## Important:

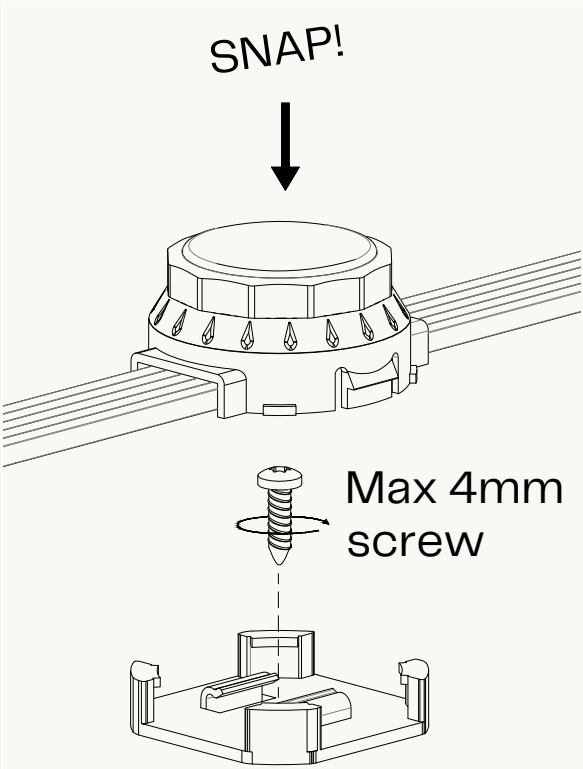
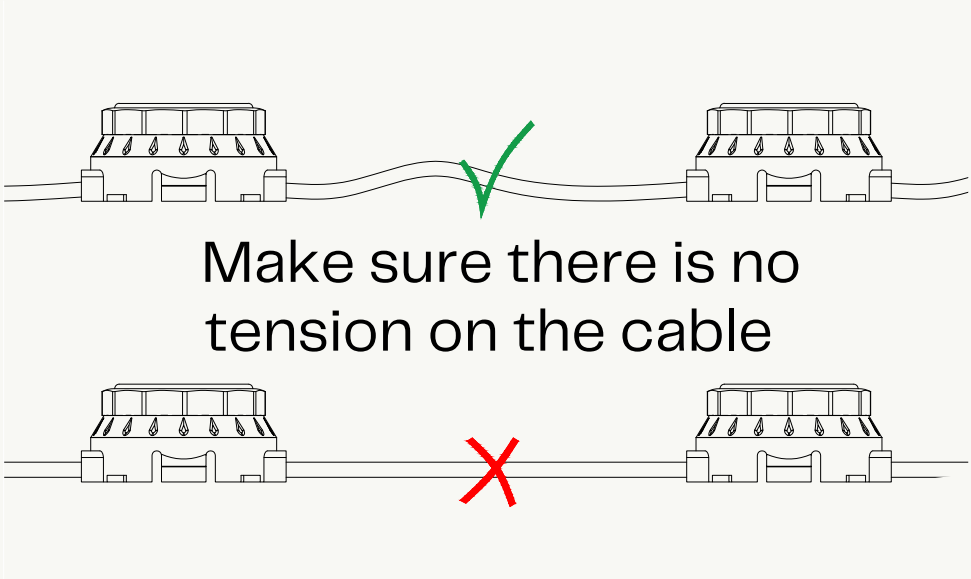
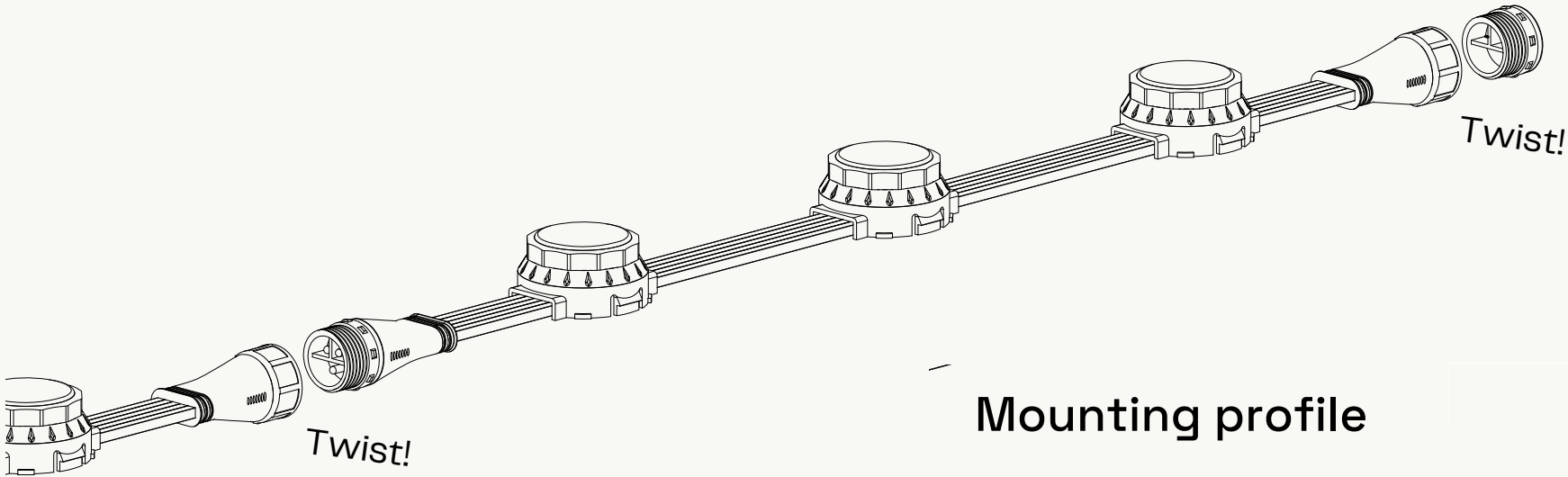
Make sure power is disconnected during installation or maintenance.

Do not attempt installation in wet or severe weather conditions.

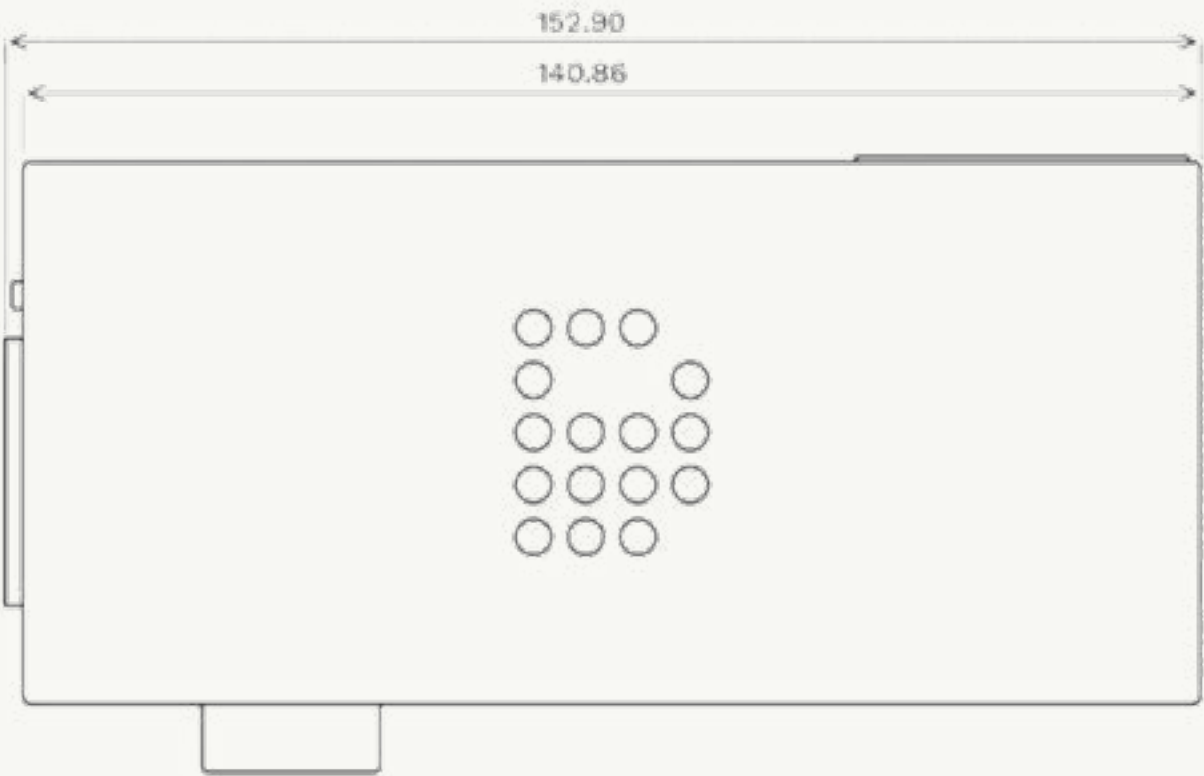
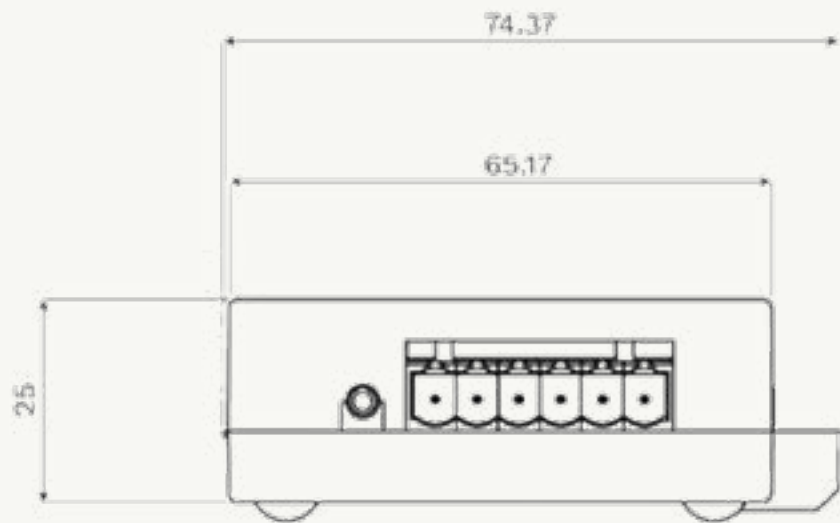
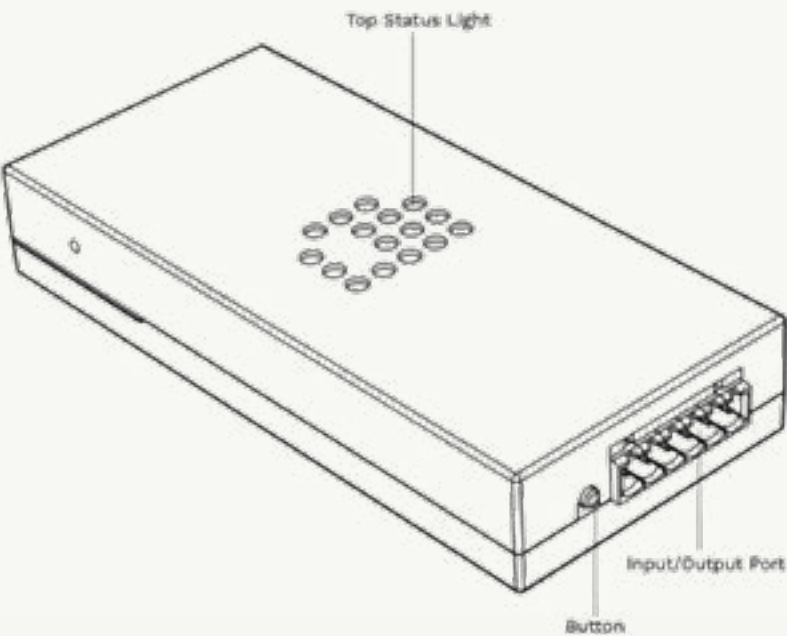
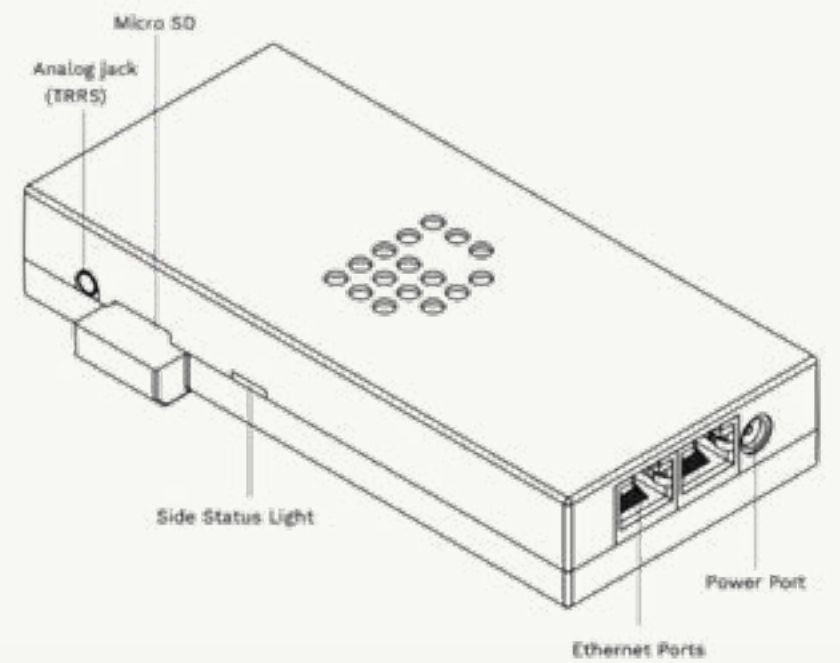
Keep cables protected from sharp objects to prevent damage.

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.



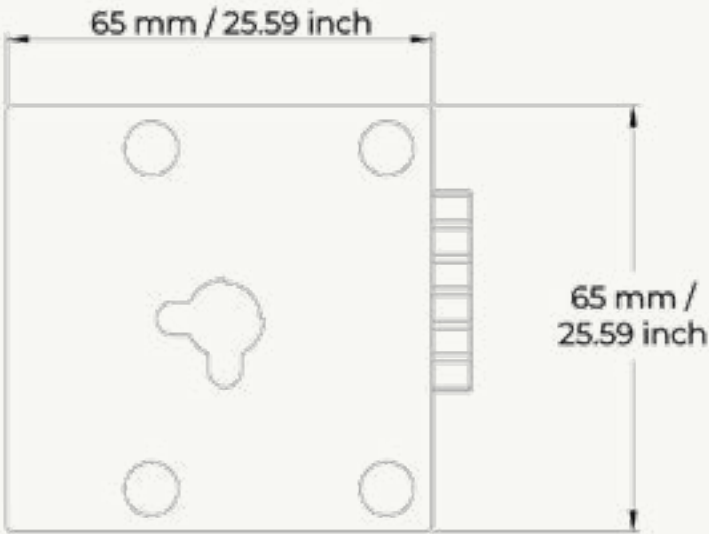
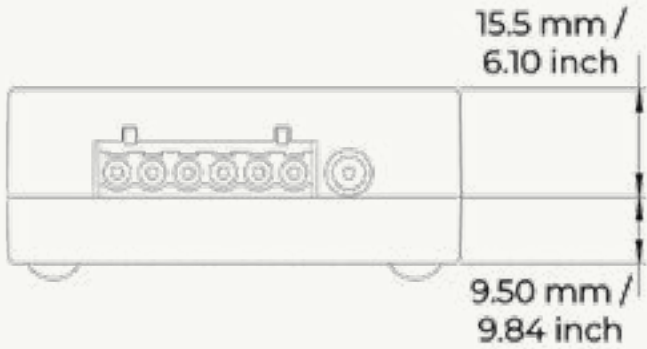
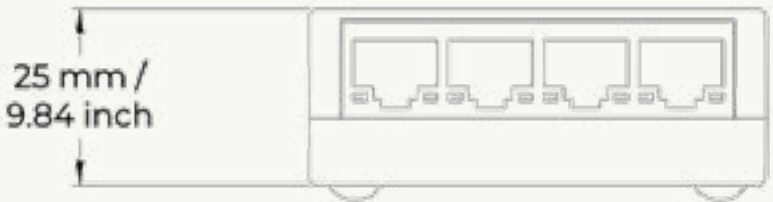
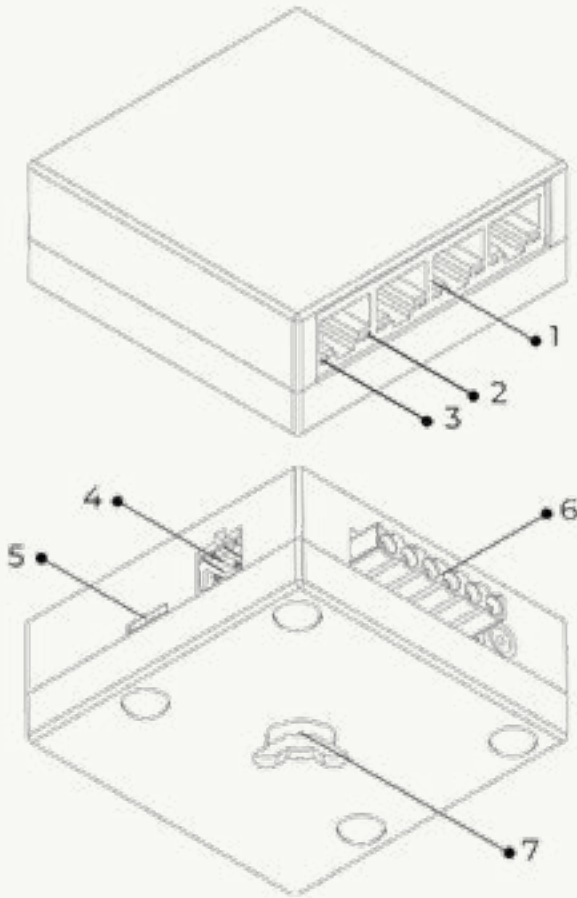
Digidot C4



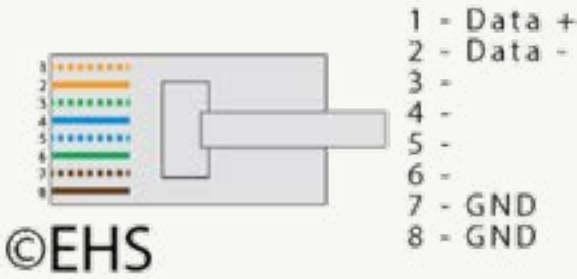


PXLNet

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-







ANSI-EXTA E1-11 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.

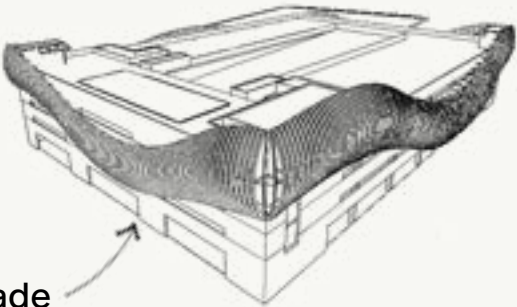
All indicated lengths are subject to final verification based on the project's as-built drawings or through an on-site survey and measurement confirmation. Additionally, the technical datasheets of the proposed equipment are attached to provide detailed specifications and ensure compliance with the project's 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 FAÇADE			
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 FAÇADE			
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



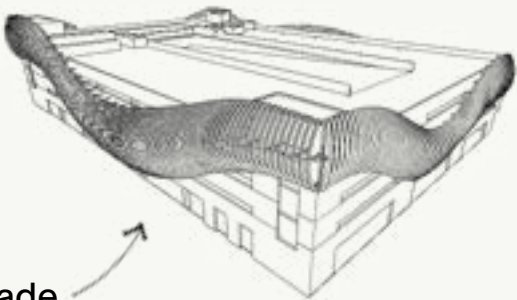
East Façade

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

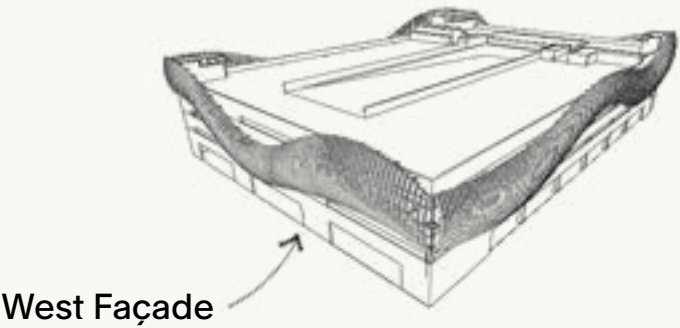
North Façade

Total: 7326 nodes



WEST FAÇADE			
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 FAÇADE			
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



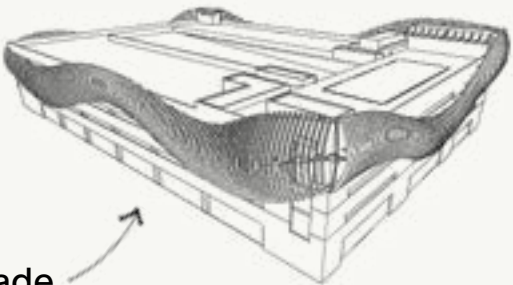
West Façade

Total: 4694 nodes

SOUTH FAÇADE			
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 FAÇADE			
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 FAÇADE			
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.

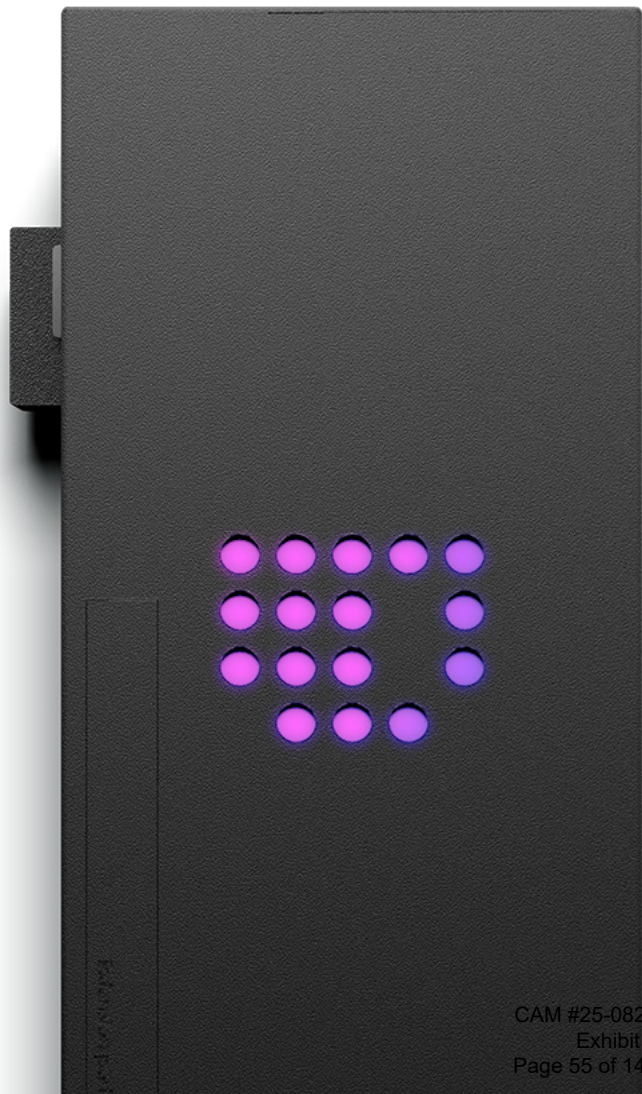




## C4 Extended Specification Sheet

# 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 grant 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.



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



## description

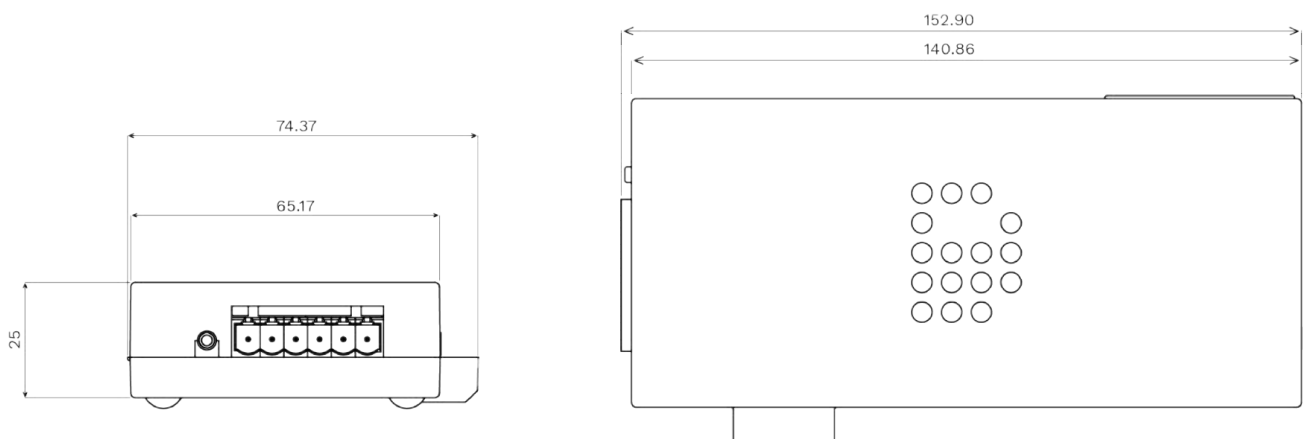
The DiGidot C4 Extended combines all the DiGidot C4 Live features but includes many more powerful features such as recording, a scene generator, playlists, triggering functions, etc.

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

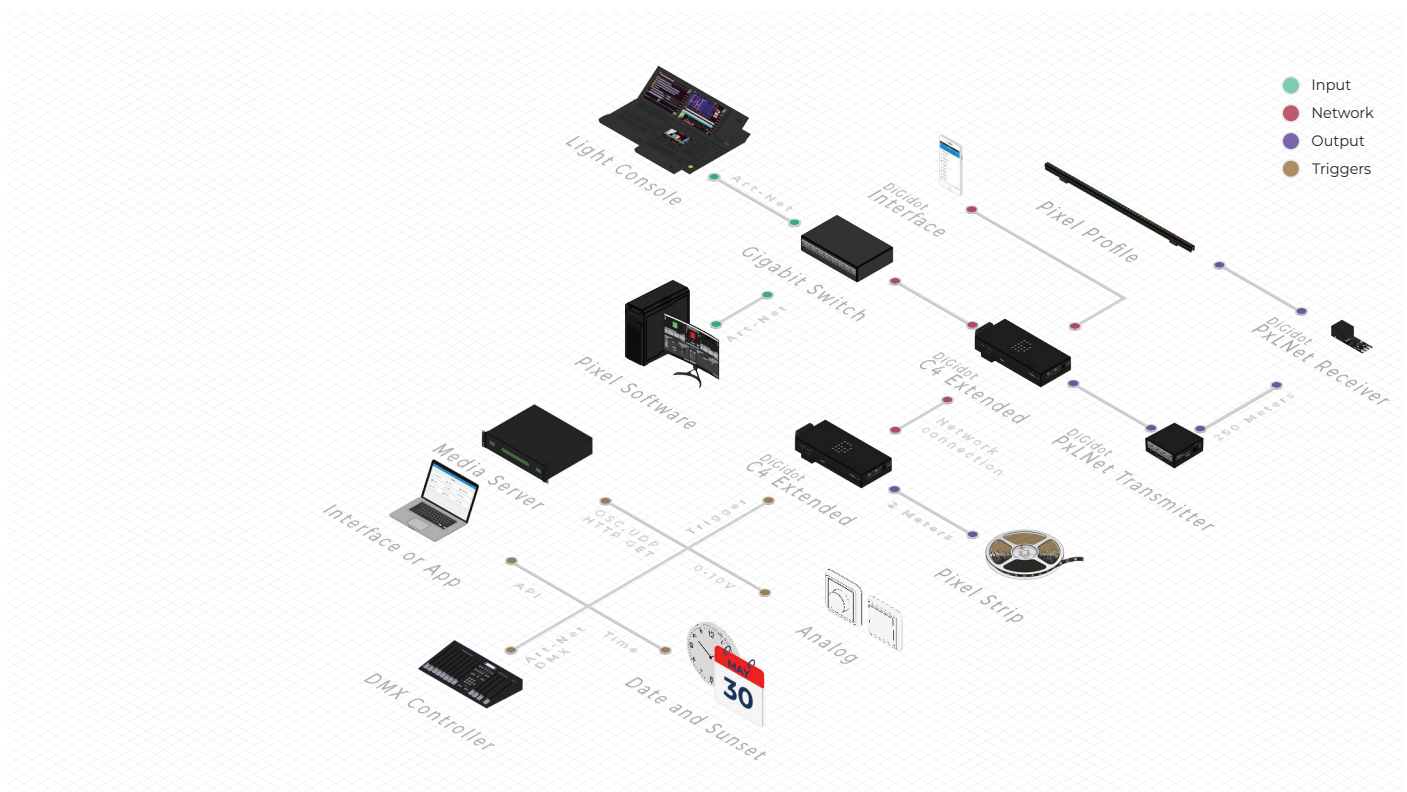
Input voltage	5-24 Vdc
Max. Power consumption	5W
Housing material	Self extinguishing Acrylonitril-Butadiene-Styrene (ABS)
Dimensions	153 x 74 x 28 mm   6.02 x 2.91 x 1.10" (L x W x H)
Weight	140gr   4.93oz
Mounting	DIN-Rail or surface mounted
Operation Temperature (Tc)	0 to 50°C   32 to 122°F
Ambient 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 mm <sup>2</sup>   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

---

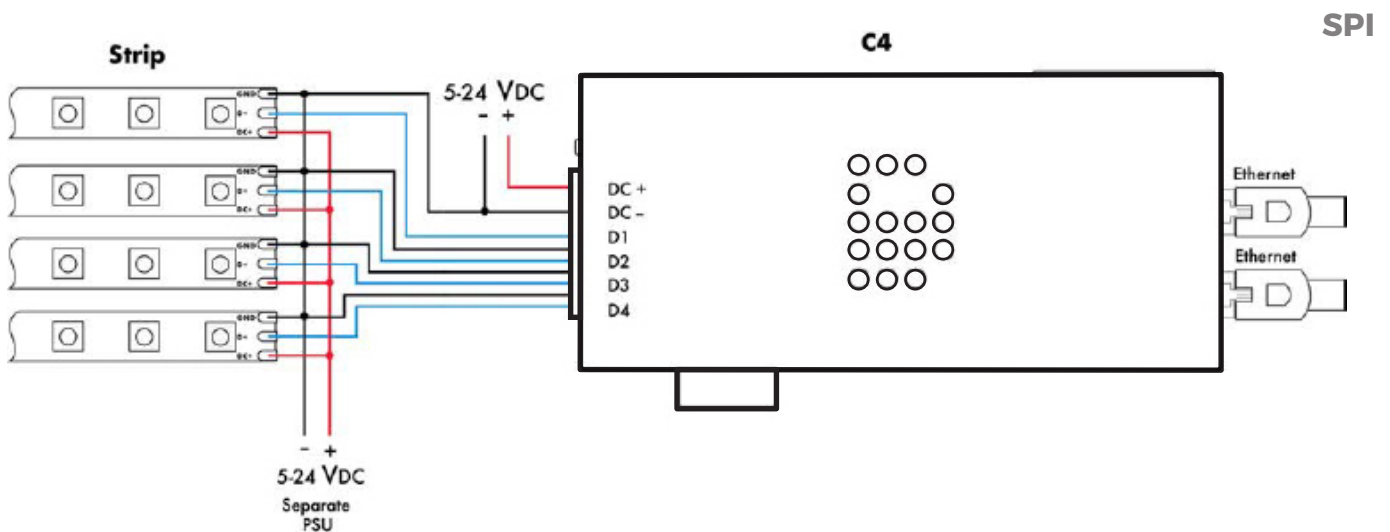
## extended specifications

Trigger port	Max. 3 dry contacts
DiGidot triggers	Max. 3 analog inputs (0-10V, 1-10V, 50KΩ potentiometer)
UDP,	Internal timer/calendar, Sunrise/Sunset triggering (GPS or city based), Power up, Onboard button, Art-Net, DMX, OSC, 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,

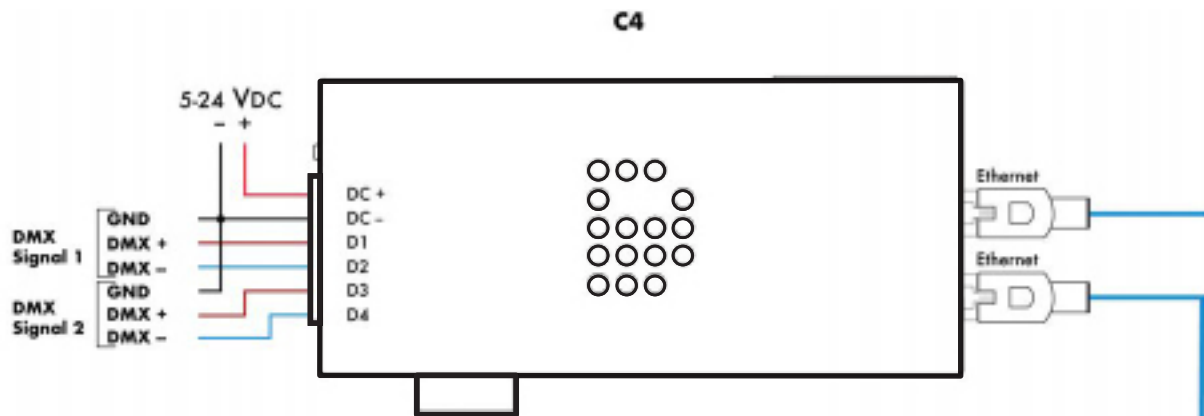
## system overview



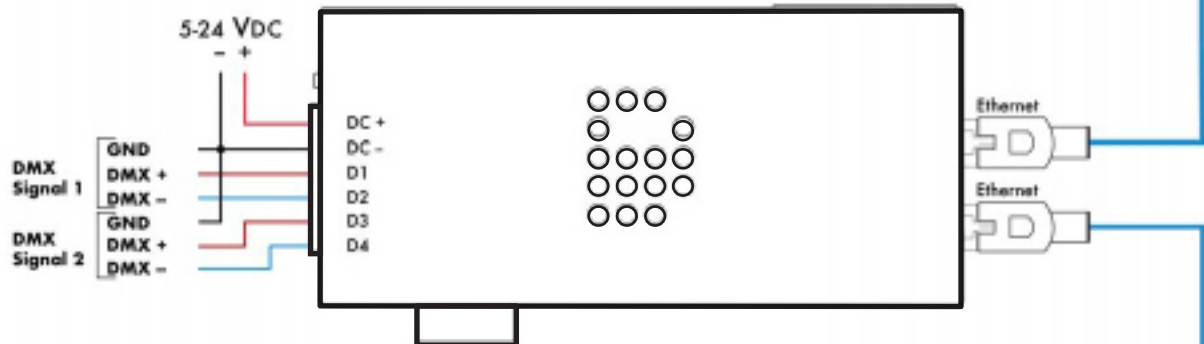
## wiring schemes (data)



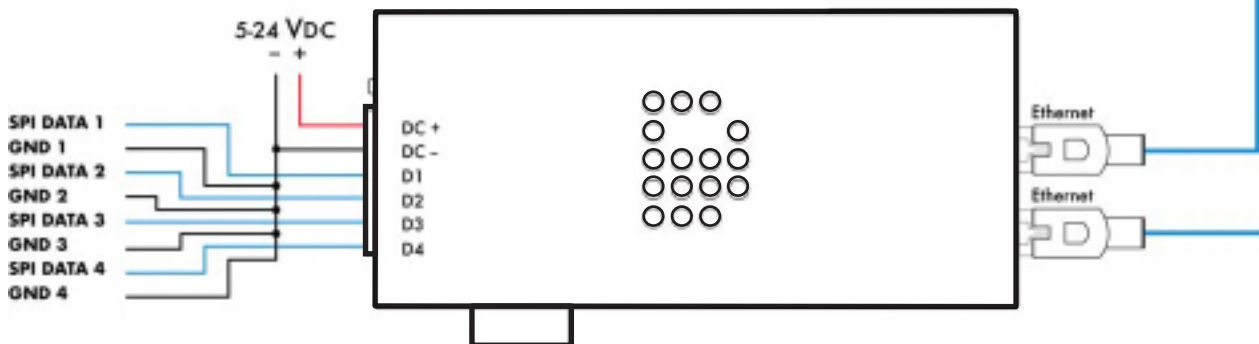
## DMX in



## DMX out



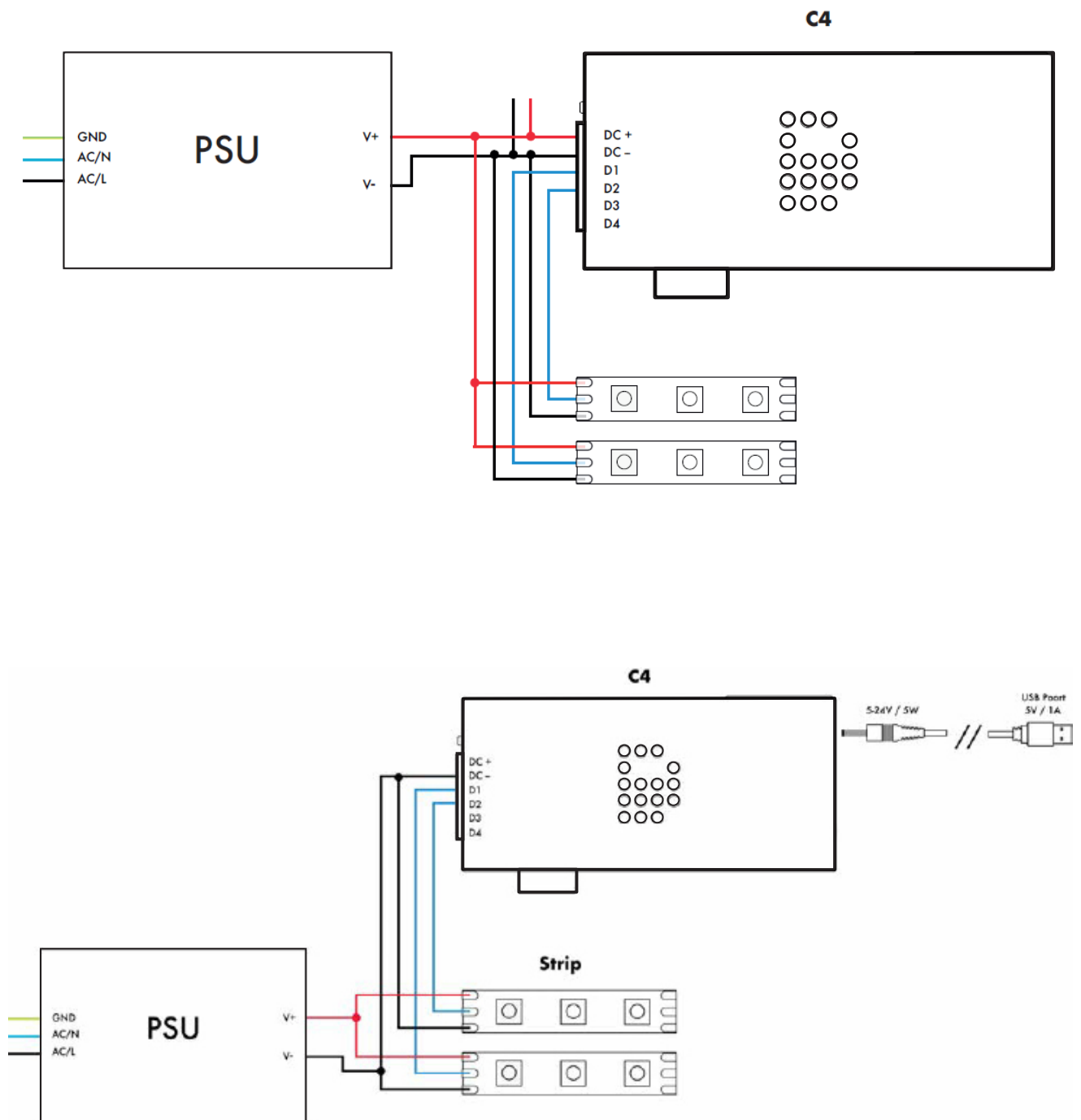
## SPI



**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

**Website**  
[www.digidot.eu](http://www.digidot.eu)

**Phone number**

+31 (0) 20 820 1849

**Email**

[info@digidot.eu](mailto:info@digidot.eu)



**C4 Extended**



/Digidot-Technologies-b.v.



/DigidotTechnologies



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
- ✓ CIP/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

ART  
NET



COLOR  
KINETICS



SPOUT



## 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

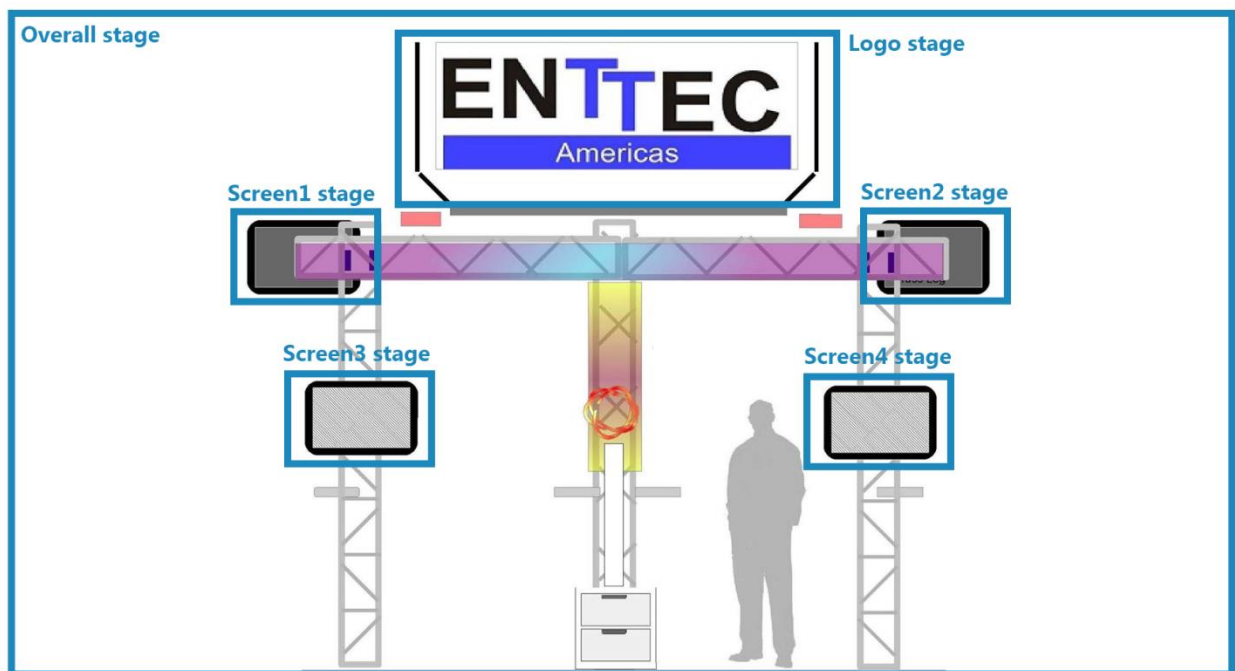
For live video performances, when you want to change the playback speed and go up to 10x, the recommended video resolution is 640x360.

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.

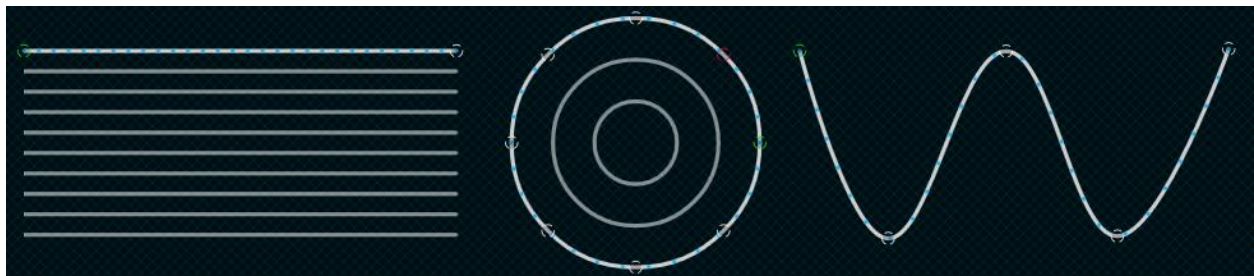
About the DMX output, a 1 Gigabit network should be able to handle 2048 universes @ 44fps. For more universes, a supplementary network card and a second Ethernet network are recommended.

## 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.





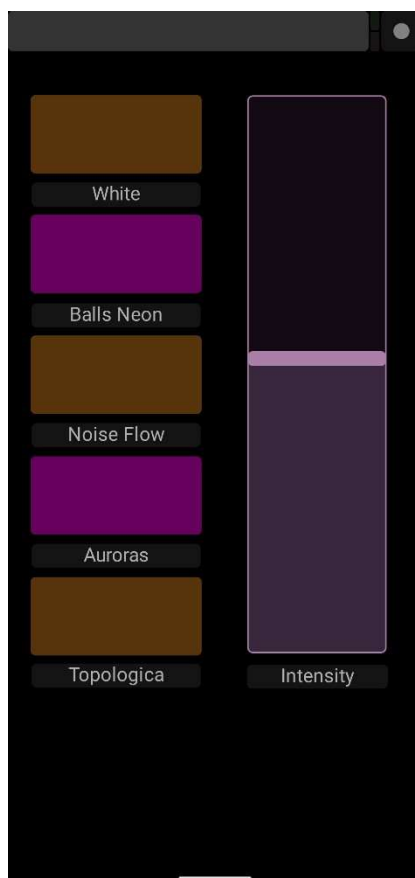


# Controlling ELM w/ OSC and TouchOSC

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 3<sup>rd</sup> 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.



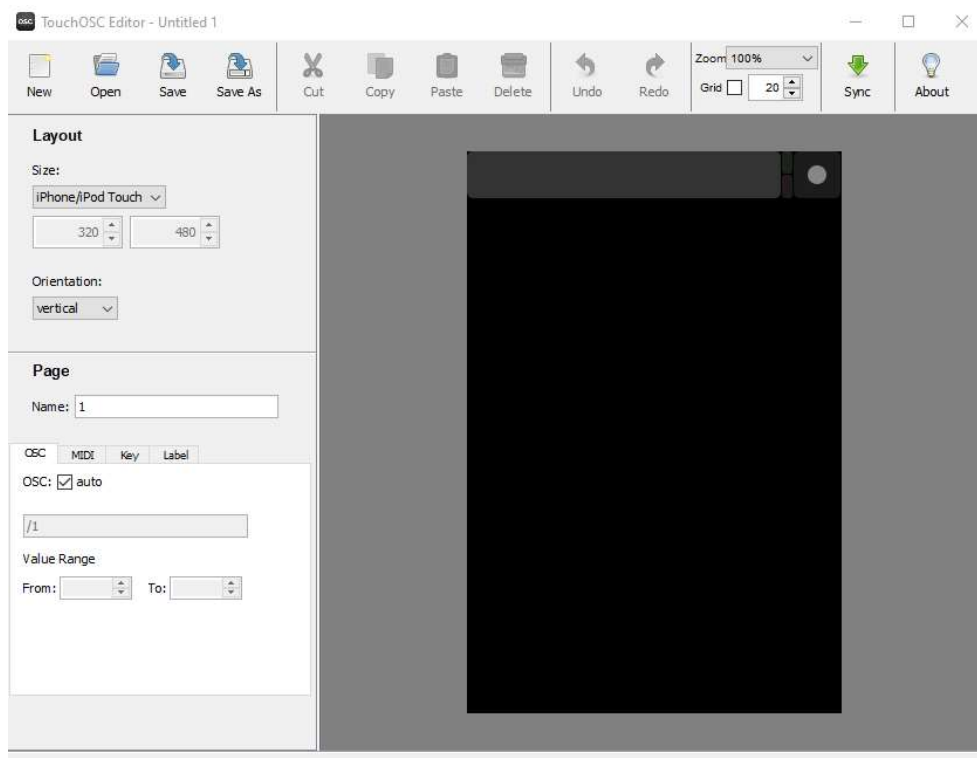
1 - Sample TouchOSC Control Panel

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

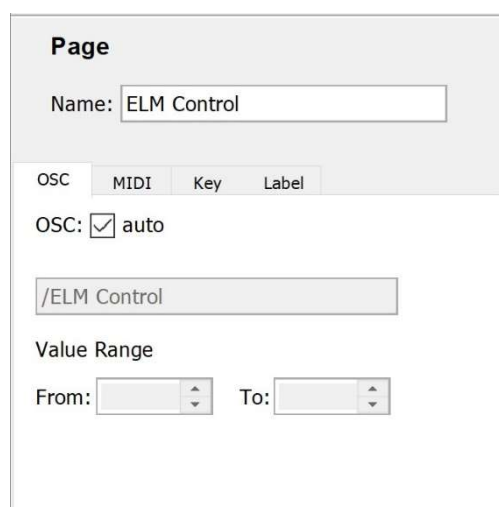
For this part, you'll need TouchOSC Editor – which is available from the Hexler website. This app lets you design your control surface on a computer, and then transfer that over to your tablet/phone.

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.

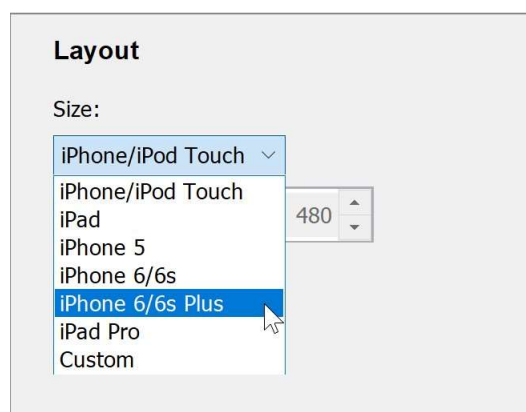


2 - TouchOSC Editor

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.

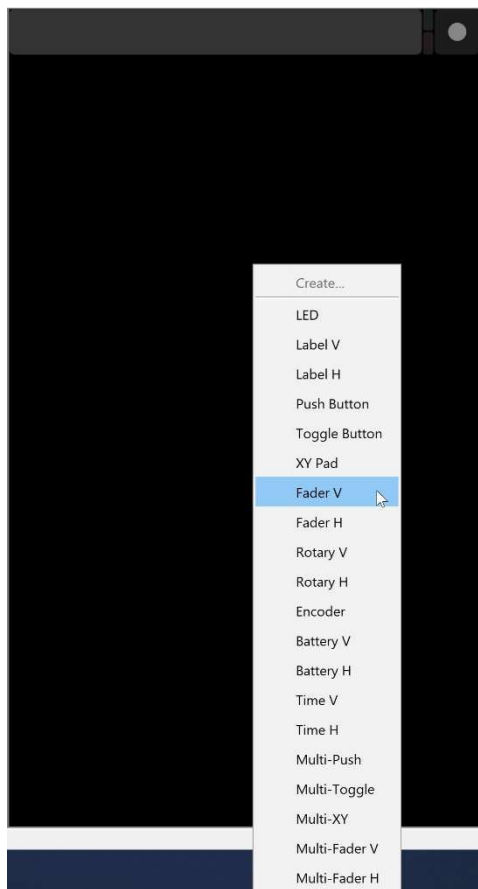


3 - TouchOSC Editor Screen Size Selector

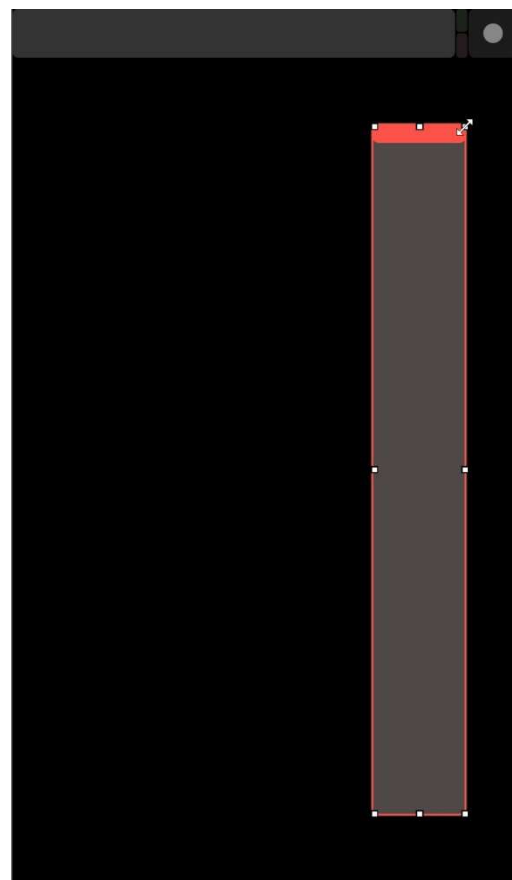


4 - TouchOSC Editor Screen Size Options

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

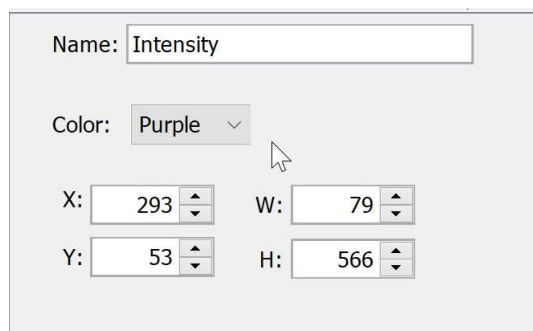


6 - Format Element

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

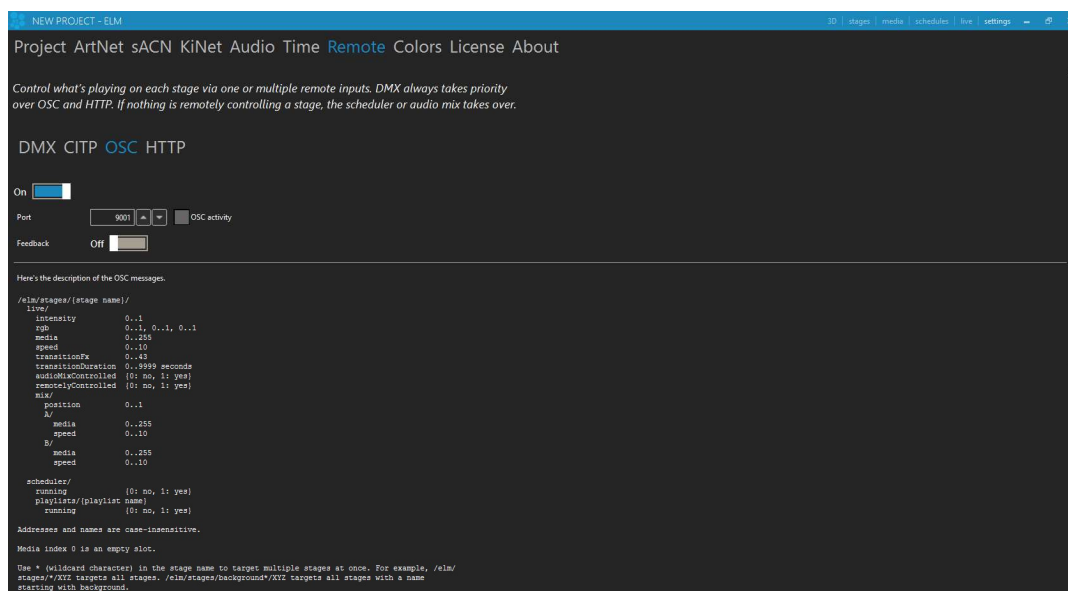
Once you are happy with the position, you can now configure the OSC command string. Touch OSC tries to create default strings based on the item's name. You will need to uncheck this allowing you to enter



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



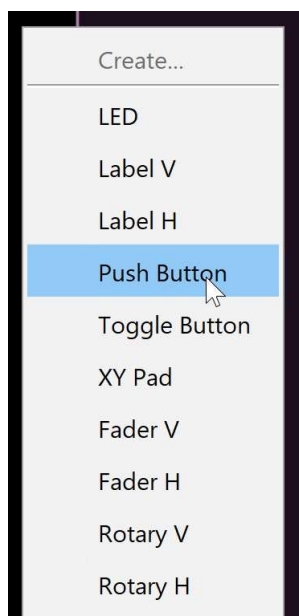
9 - ELM OSC Command Strings

**Note – the OSC string is caps sensitive**

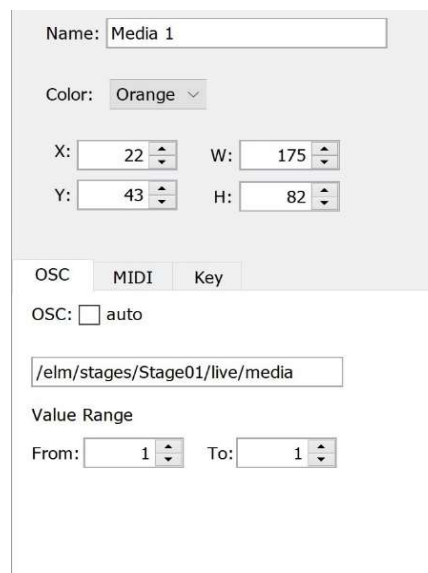
**Note – Stage01 refers to the stage you want to control. If you named your stage something different then you need to use that instead. You can also use \* to refer to all stages this would look like “/elm/stages/\*/live/intensity”**

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



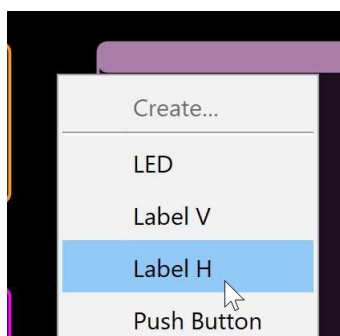
11 - Setting Command String on Media Button

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 values 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.



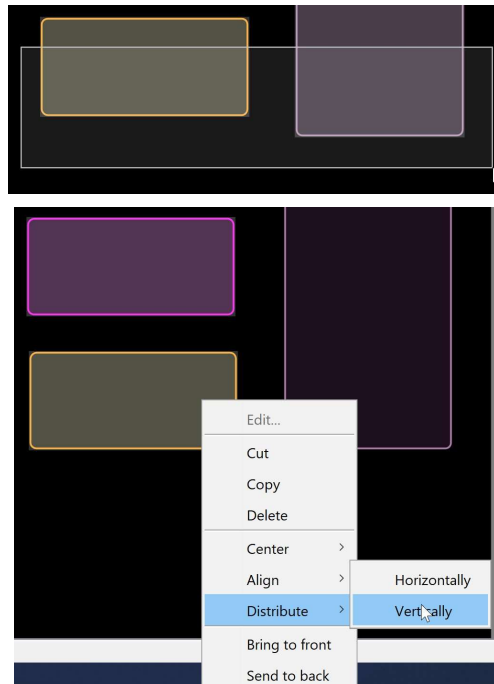
12 - Insert Label



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.

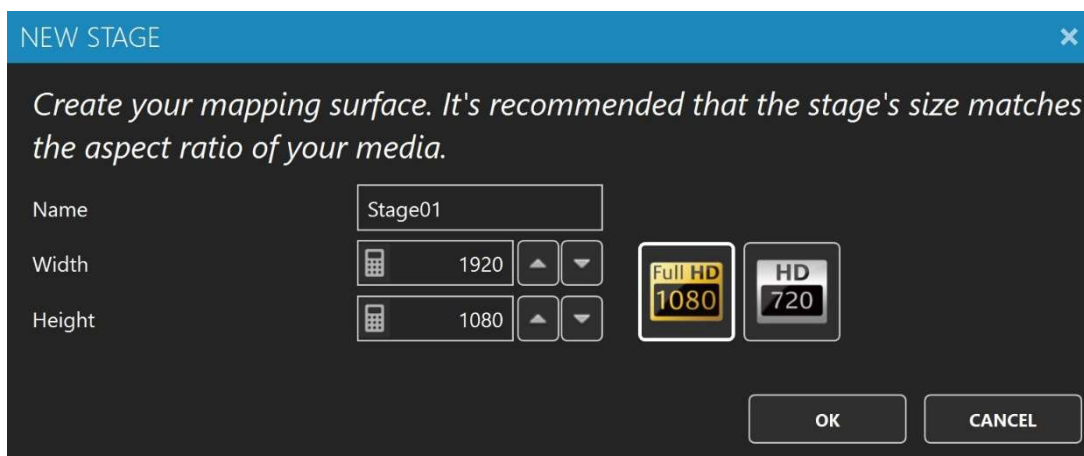


14 - Align Elements



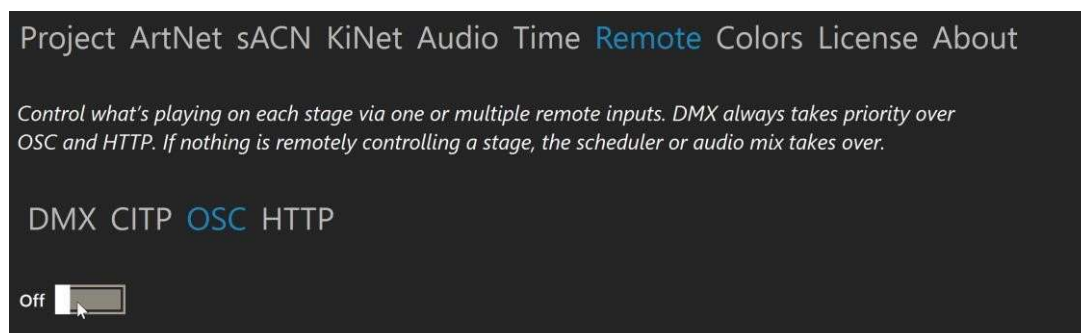
## Configuring ELM for an OSC Remote

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

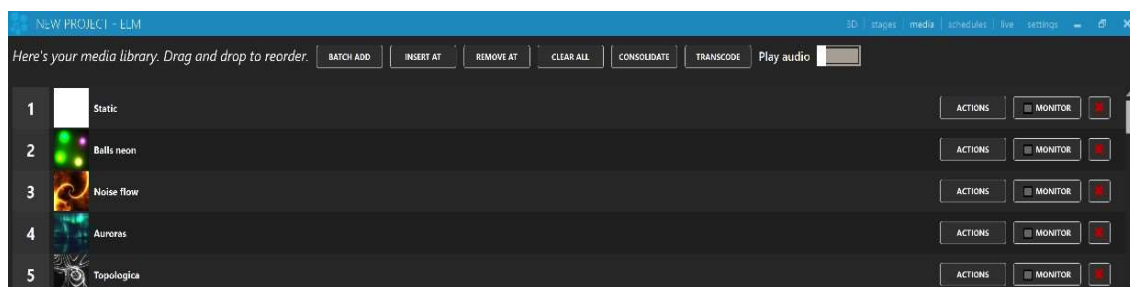
From here you just need note down the port that is being used. The default is 9001 but you can change it if desired. Feedback can be left off as it is not needed for this design.



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>

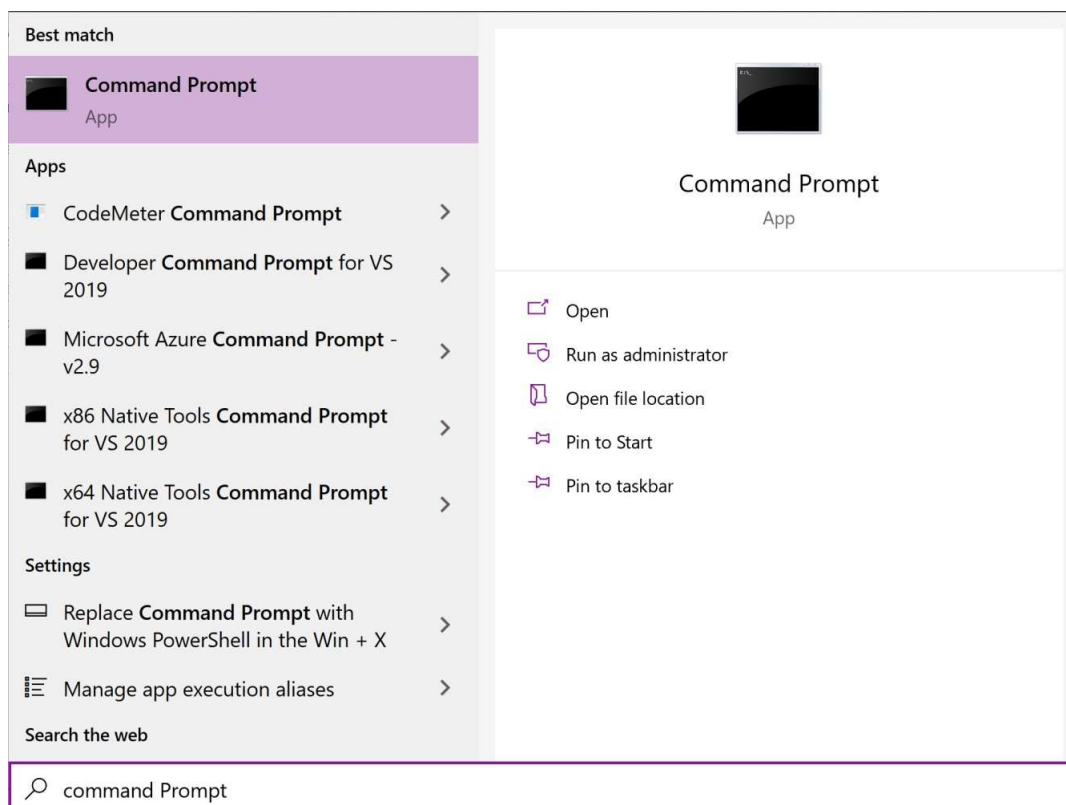
This plugin runs in the background and acts as the link between your programs and the TouchOSC app.

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

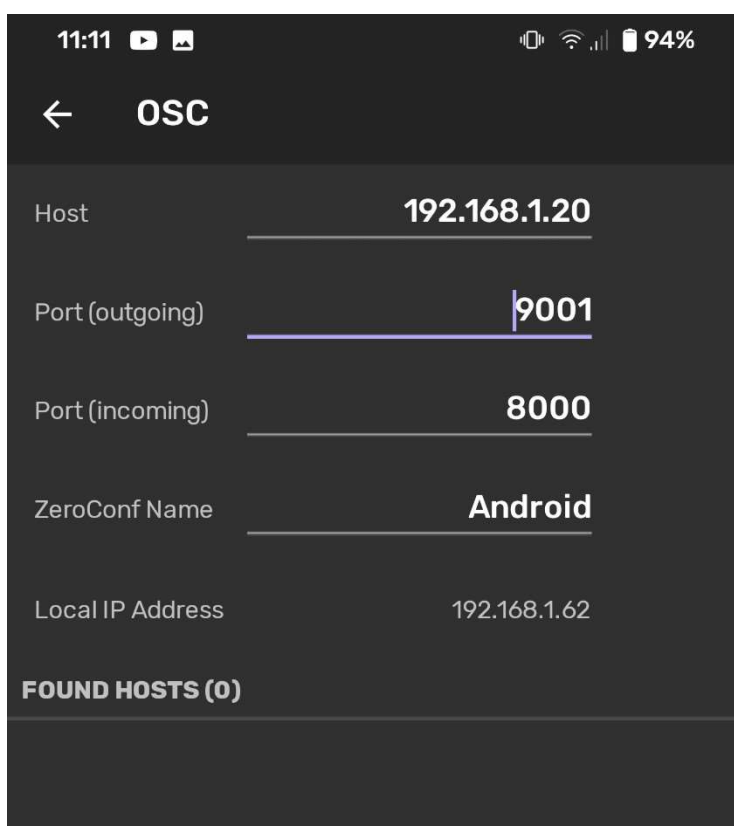
Click on the *OSC* tab, under Settings, from there enter the proper details into the different fields. Some devices will be recognized by the app and you can simply click on them for the app to auto fill the necessary settings. If not, enter the details manually

- **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



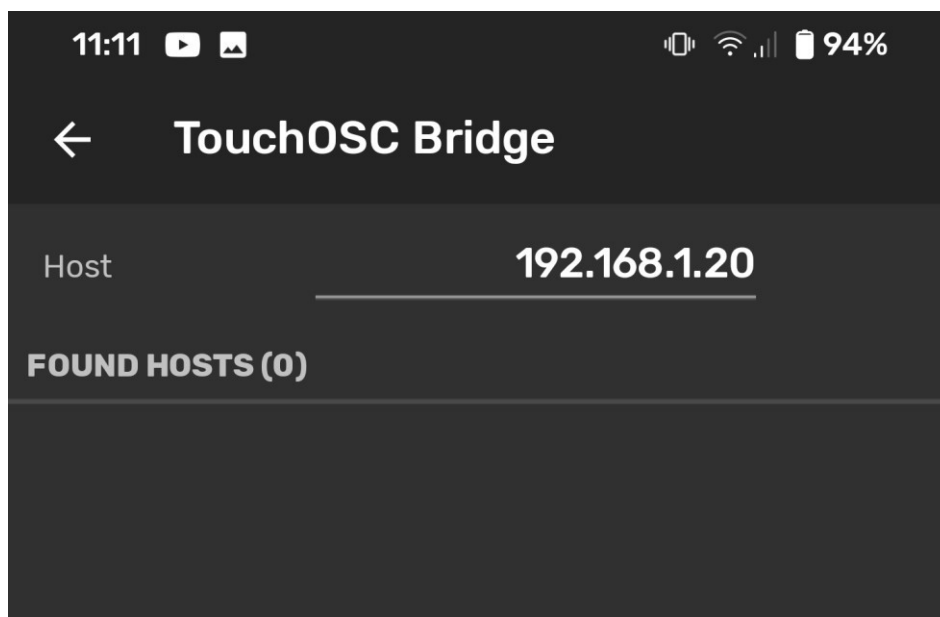
23 - ELM OSC Port Setting

- **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

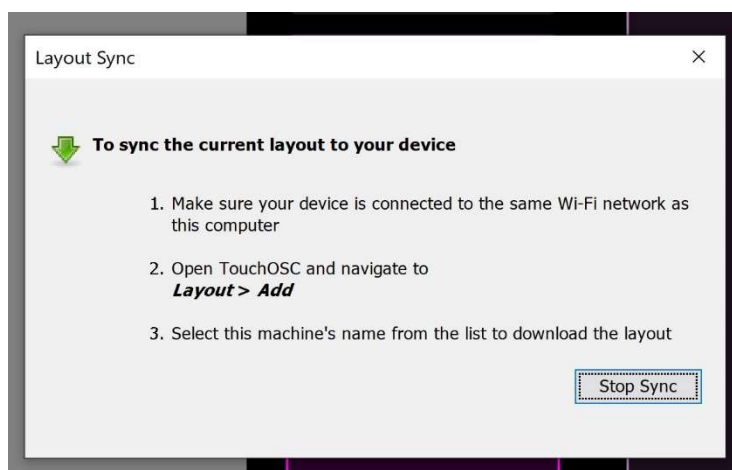
Once those settings are configured, go back to your computer and TouchOSC editor.

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



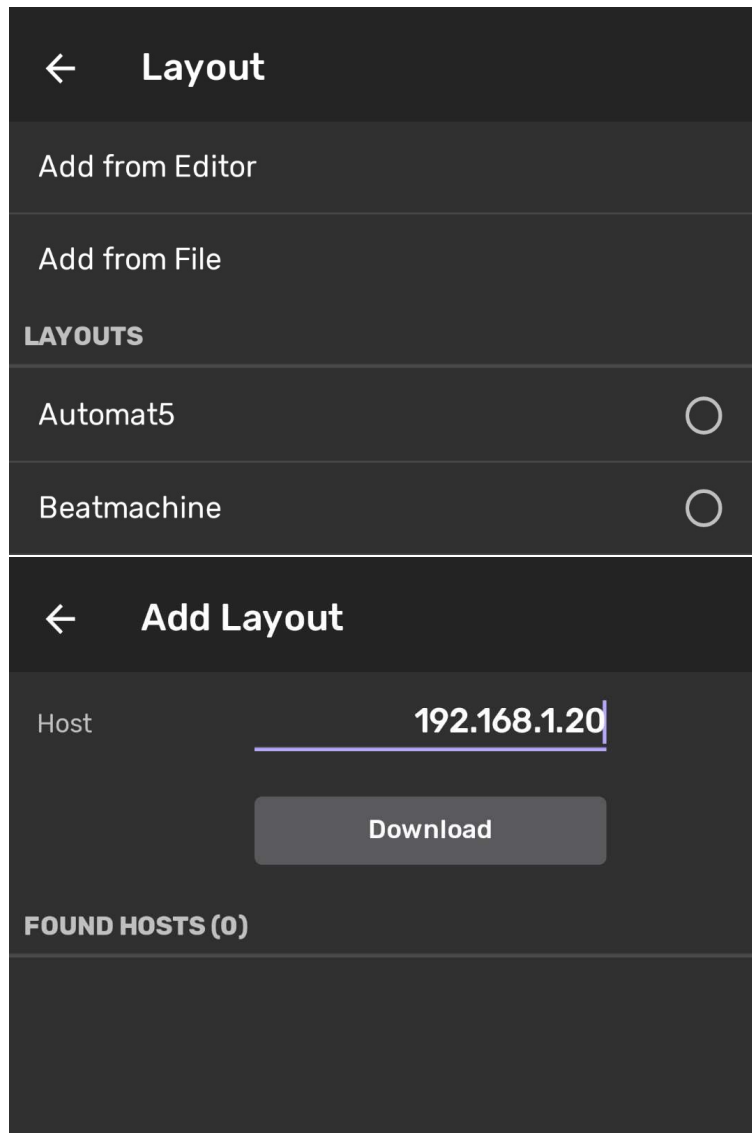
26 - TouchOSC Bridge Setting

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



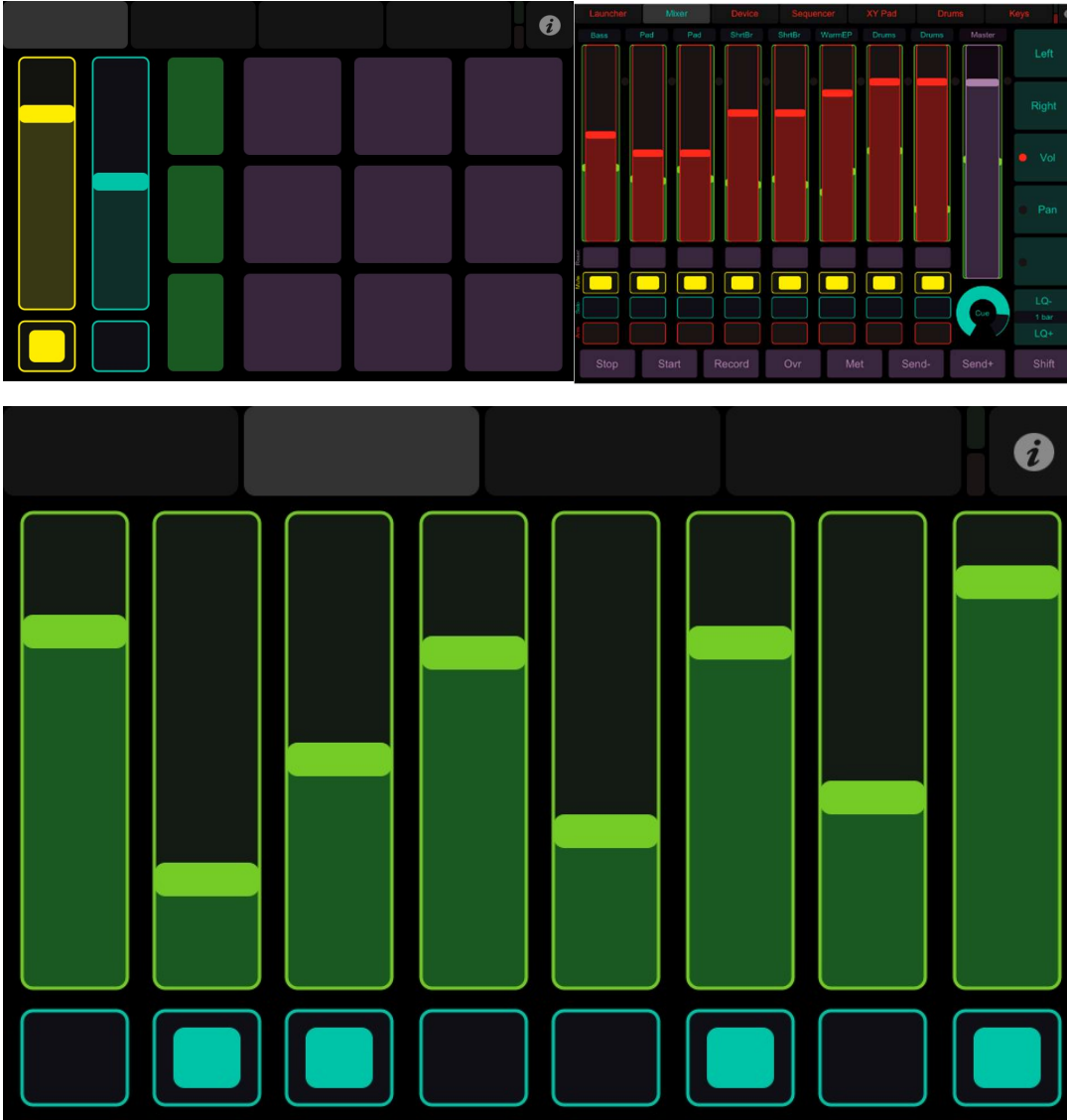


5 - Download Layout

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



General

Diameter (mm)	6.1
Housing Material	Special halogenfree compound (TM7),
Conductor Stranding	0.14 cores twisted to a pair, covered with polyester tape, Black
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	(1x2x0.14mm <sup>2</sup> ) : ? 110 ohm
Conductor Resistance	0.14mm <sup>2</sup> : max. 135 ohm/km - 1mm <sup>2</sup> : 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



Disclaimer

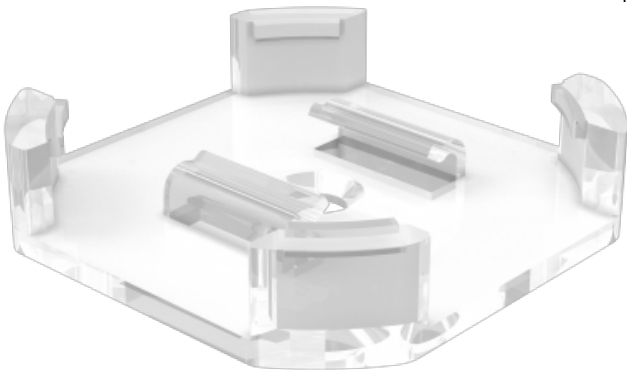
Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document 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.





General

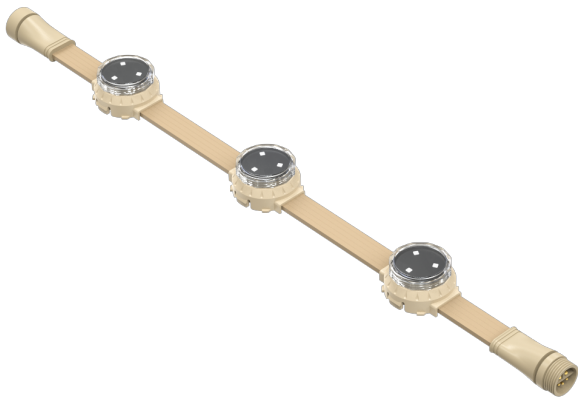
Length (mm)	40
Width (mm)	40
Height (mm)	9
Housing Color	Transparent
Material	PC



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.





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



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.





## 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

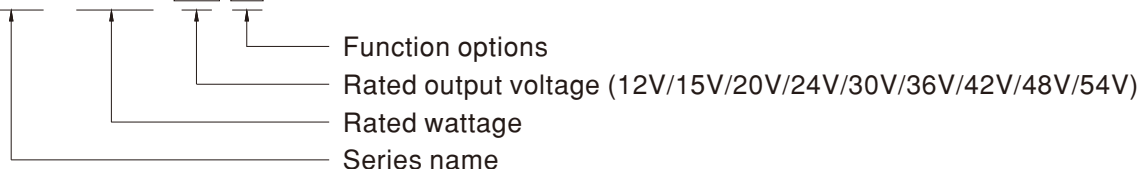
- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

## 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°C ~ +90°C 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**



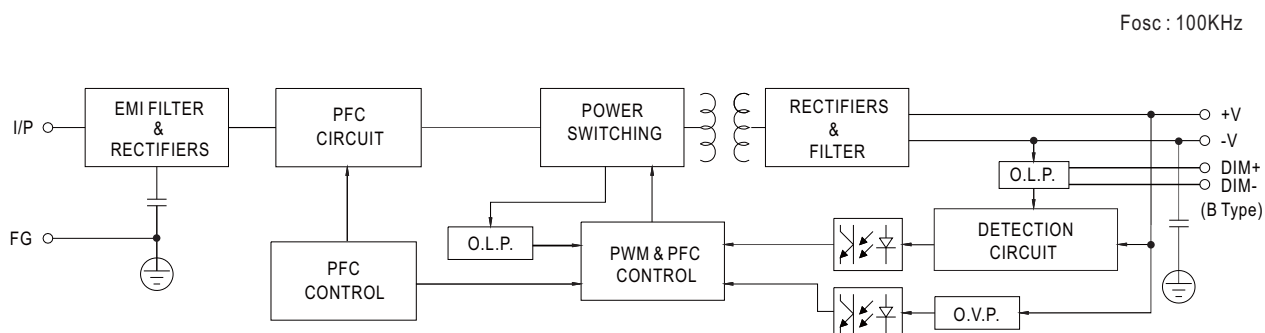
Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
B	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 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

**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 <small>Note.4</small>	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.) <small>Note.2</small>	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 <small>Note.3</small>	± 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 <small>Note.6</small>	1000ms,80ms/115VAC    500ms,80ms/230VAC										
HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC										
INPUT	VOLTAGE RANGE <small>Note.5</small>	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(twidth=570μs measured at 50% Ipeak) 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	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Please refer to "DRIVING METHODS OF LED MODULE".</p> <p>5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>9. This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75℃ or less.</p> <p>10. Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a>.</p> <p>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).</p> <p>12. For any application note and IP water proof function installation caution, please refer our user manual before using.</p> <p><a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></p>										
CAM #25-0822											

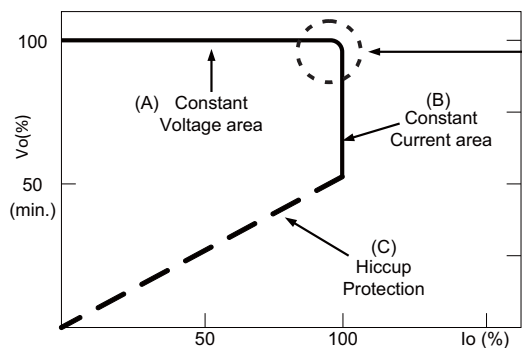


## BLOCK DIAGRAM



## DRIVING METHODS OF LED MODULE

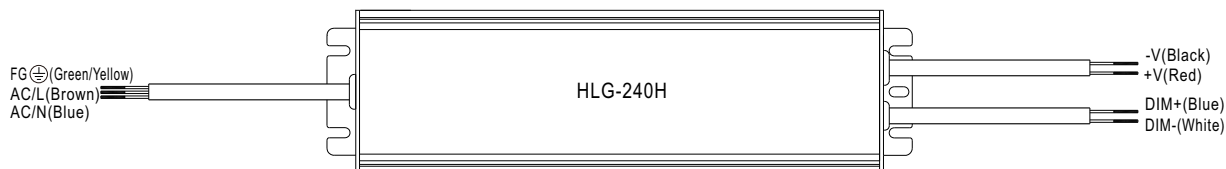
- ※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



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.

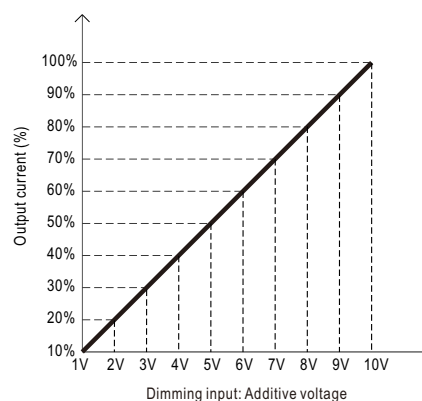
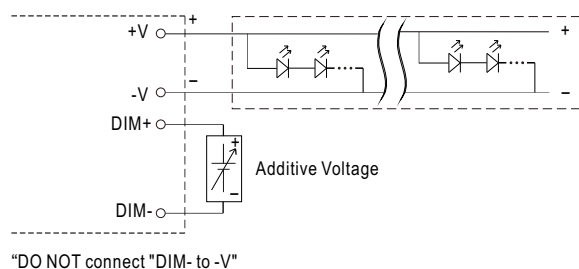
## DIMMING OPERATION



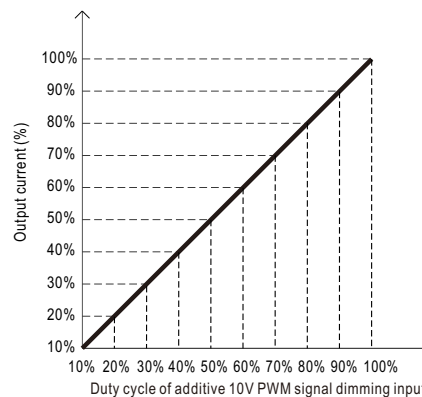
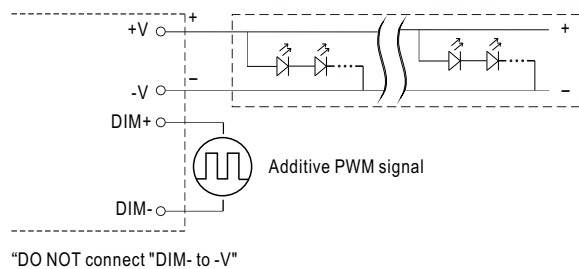
### ※ 3 in 1 dimming function (for B/AB-Type)

- 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: 100 $\mu$ A (typ.)

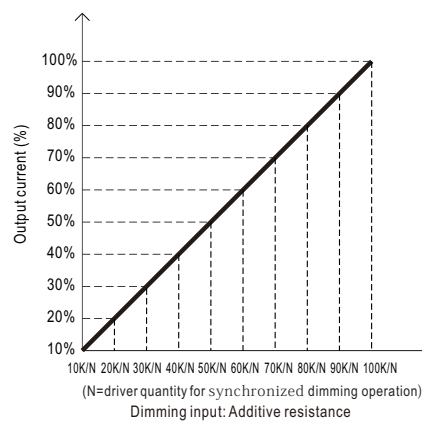
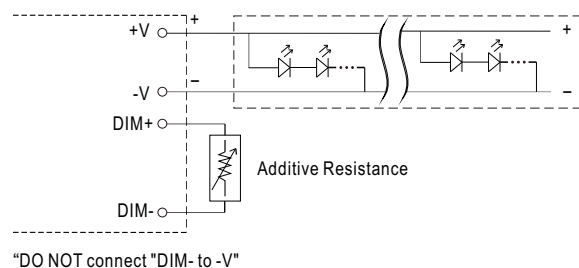
#### ◎ Applying additive 1 ~ 10VDC



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



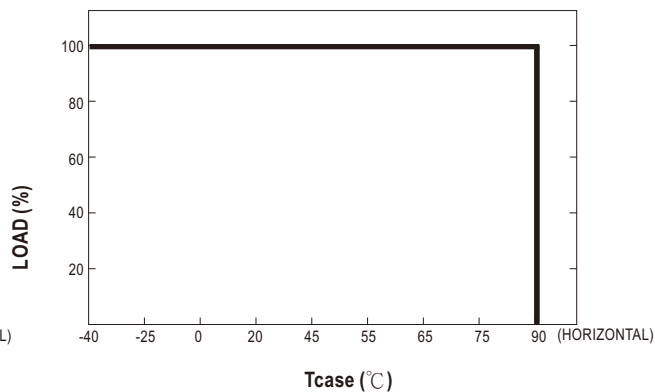
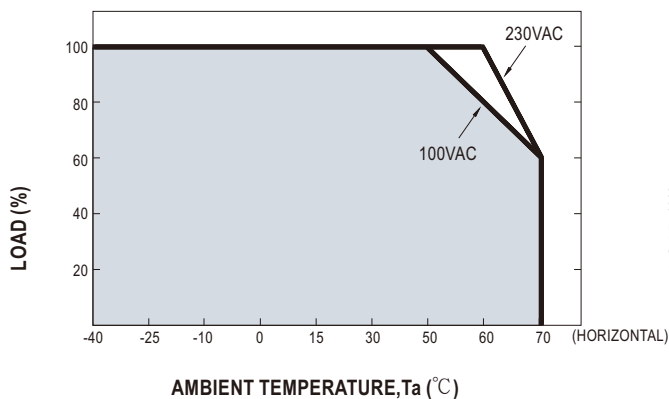
#### ◎ Applying additive resistance:



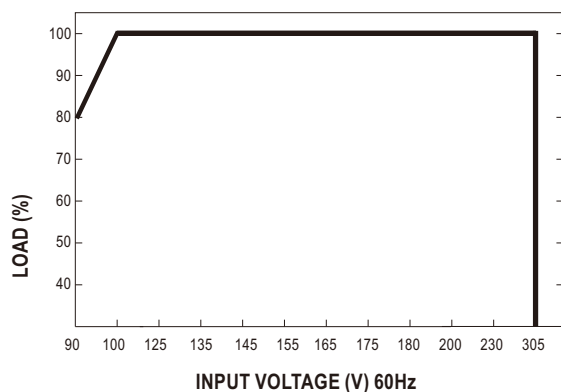
Wiring diagram for the LED Lighting Fixture. The diagram shows the connection of power lines (N, FG, L) to a relay, switch, and adjuster. The relay is connected to the L line and the switch. The switch is connected to the adjuster. The adjuster is connected to the DIM+ and DIM- lines. The DIM+ and DIM- lines are connected to the LED Lighting Fixture. The V(-) and V(+) lines are also connected to the LED Lighting Fixture. The diagram includes labels for the components: Relay, Switch, Adjuster, HLG-240H B-Type, and LED Lighting Fixture. It also includes a list of required components: 10K/N~100K/N Ohms resistance, 1~10V DC Voltage, and 10V PWM Signal.

Page 87 of 147

## OUTPUT LOAD vs TEMPERATURE(Note. 10)

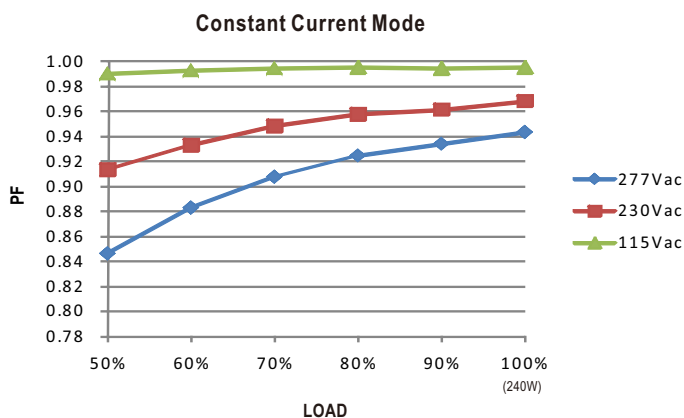


## STATIC CHARACTERISTICS



## POWER FACTOR(PF) CHARACTERISTIC

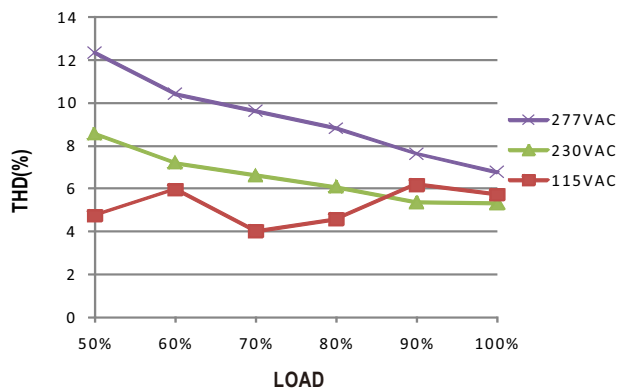
※ Tcase at 80°C



※ De-rating is needed under low input voltage.

## TOTAL HARMONIC DISTORTION (THD)

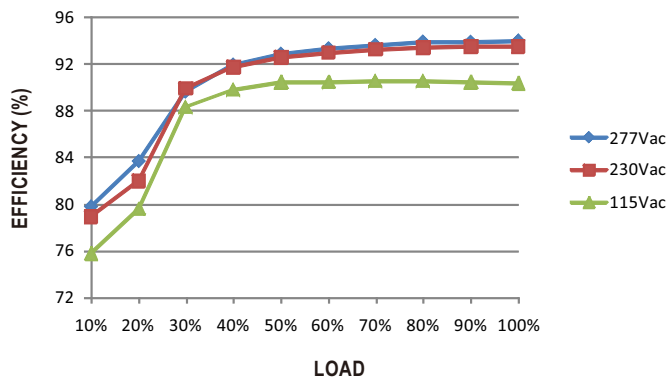
※ 48V Model, Tcase at 80°C



## EFFICIENCY vs LOAD

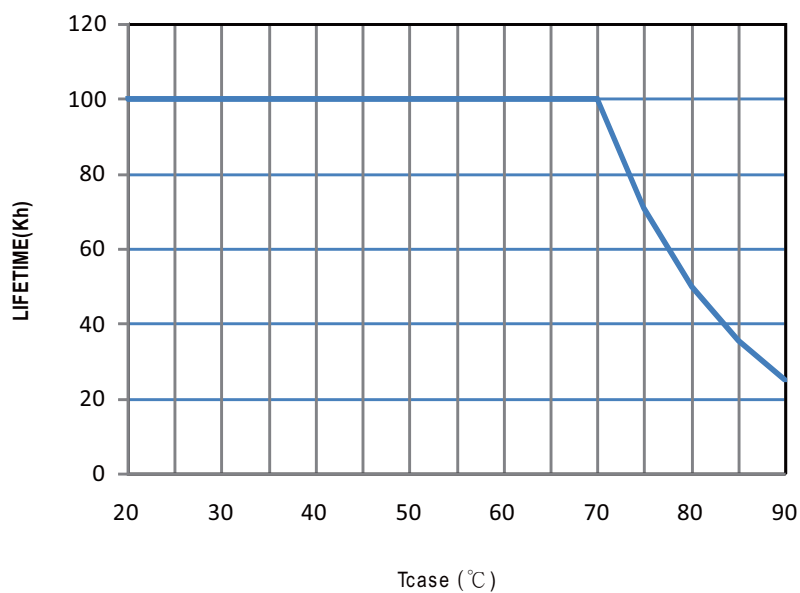
HLG-240H series possess superior working efficiency that up to 93.5% can be reached in field applications.

※ 48V Model, Tcase at 80°C

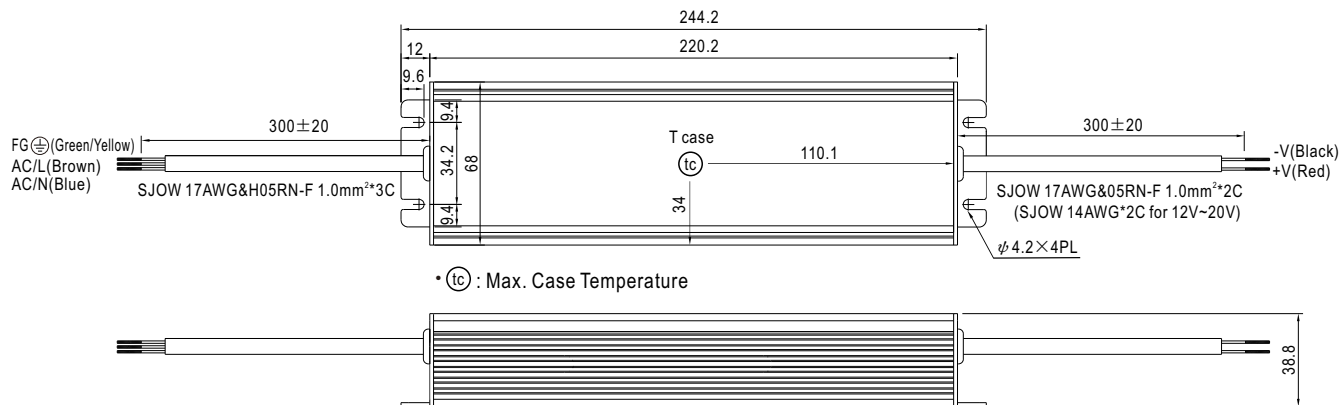
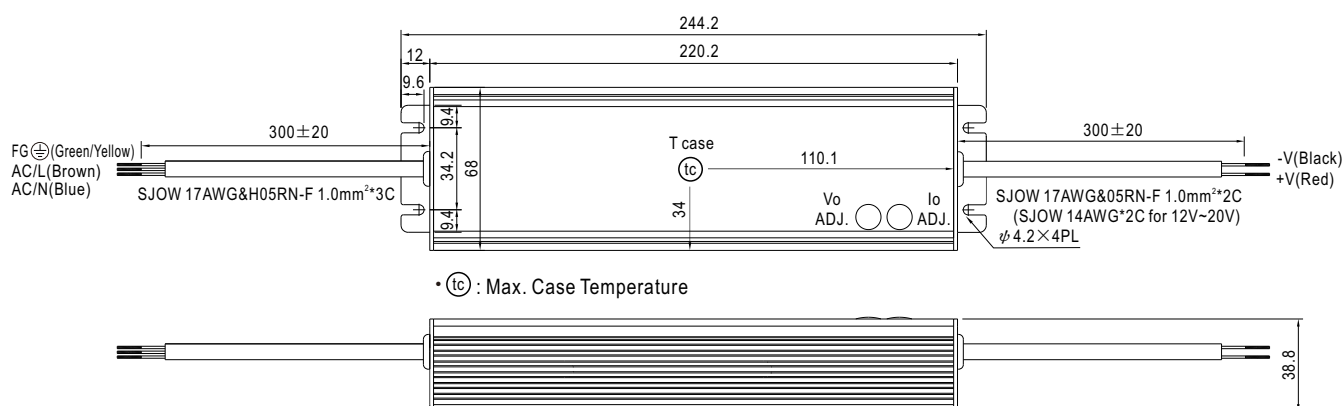
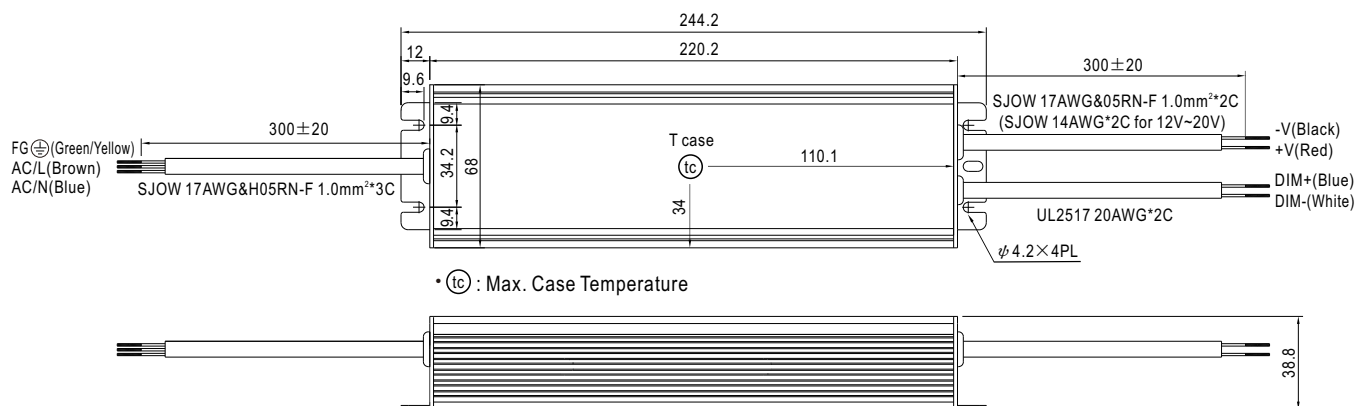


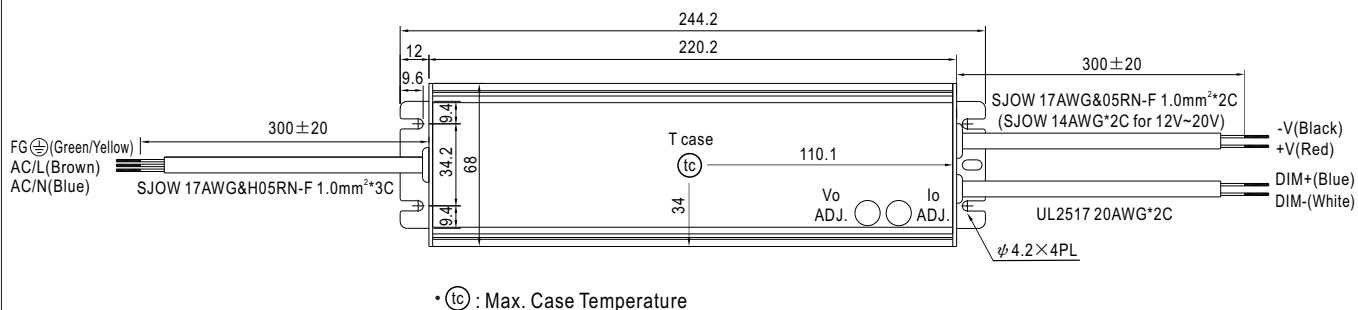
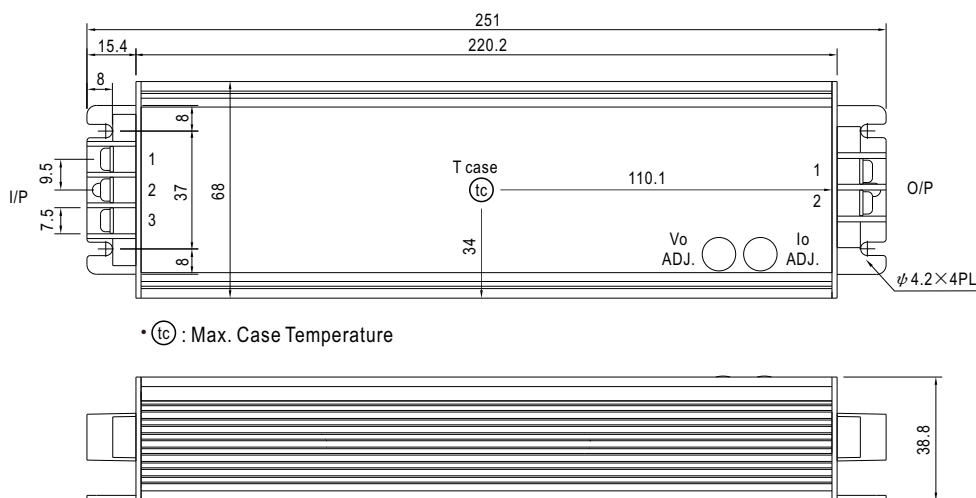


■ LIFE TIME



Case No.994C Unit:mm

**MECHANICAL SPECIFICATION**
**※Blank/D-Type**

**※A-Type**

**※B-Type**


**※AB-Type**

**※C-Type**


AC Input Terminal Pin No. Assignment

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

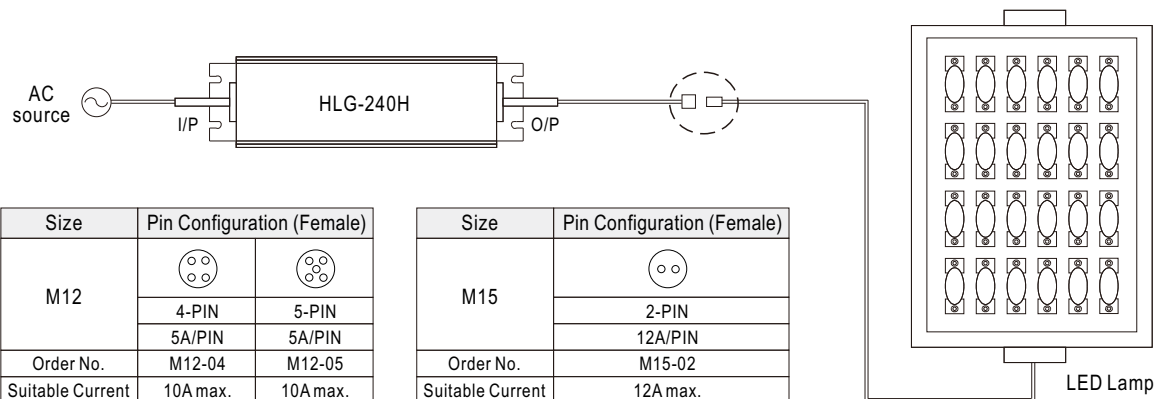
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	-V
2	+V

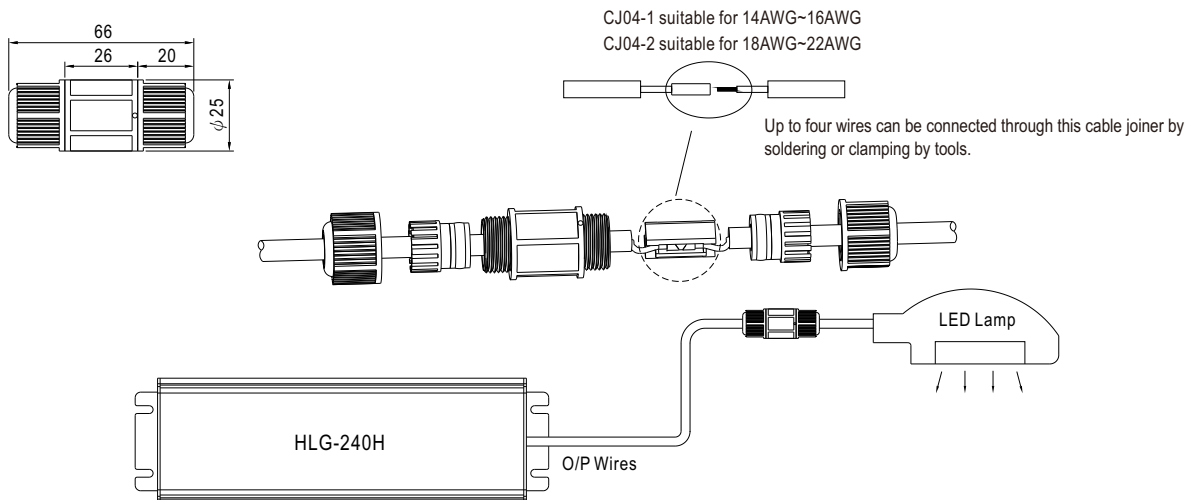
## WATERPROOF CONNECTION

※ Waterproof connector

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

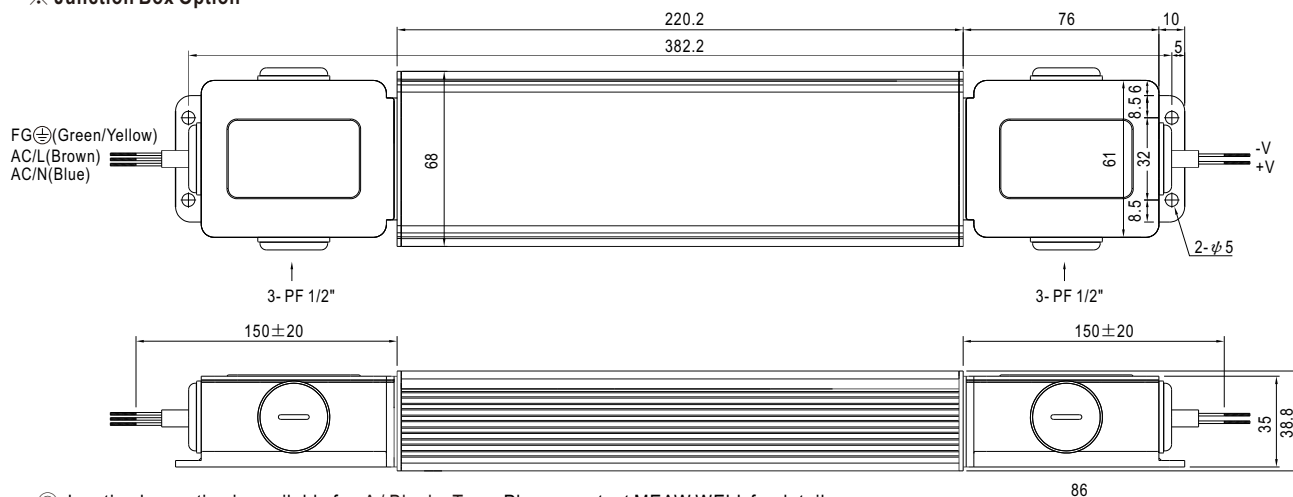


※ Cable Joiner



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

※ Junction Box Option

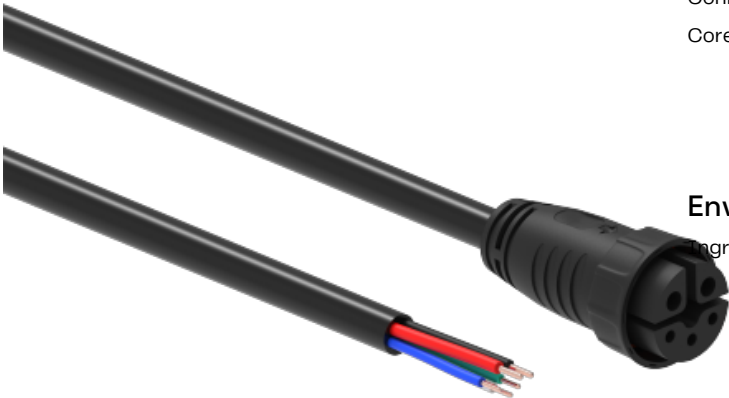


◎ Junction box option is available for A / Blank - Type. Please contact MEAN WELL for details.

## INSTALLATION MANUAL

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





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
--------------------	------



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.



Please Check our video proposal:  
[https://youtu.be/Mpu8E0\\_W8TU](https://youtu.be/Mpu8E0_W8TU)



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

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

4	<div>DESCRIPTION</div> <div>OneEightyOne 20205</div> <div>DiGidot C4 Extended 12 x 512 (6144 ch)</div>	<div>QUANTITY</div> <div>18 u</div>	<div>UNIT PRICE</div> <div>USD 2,489.89</div>	<div>AMOUNT</div> <div>USD 44,818.02</div>
	<div>WARRANTY: 5 Years</div>			
	<div>MADE IN: Netherlands</div>			

---

5	<div>DESCRIPTION</div> <div>OneEightyOne 2034102</div> <div>DiGidot PxLNet Transceiver Kit ST - Screw terminals</div>	<div>QUANTITY</div> <div>18 u</div>	<div>UNIT PRICE</div> <div>USD 1,048.58</div>	<div>AMOUNT</div> <div>USD 18,874.44</div>
	<div>WARRANTY: 5 Years</div>			
	<div>MADE IN: Netherlands</div>			
			<b> Subtotal Lighting Fixtures USD 886,794.690	

---

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

---



7	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
	<div><b>Luminicos Lum_Facade_Install</b> Instalación includes:<ul style="list-style-type: none"><li>- Equipment for working at heights</li><li>- Personal protective equipment (PPE) and safe work practices</li><li>- City-approved training and certification for working at heights</li><li>- Low-voltage and communication system wiring</li><li>- Installation of luminaires, drivers, and controllers</li><li>- Rack installation and system testing</li><li>- Two-year warranty (including four maintenance visits per year)</li><li>- Preparation of engineering and as-built plans</li></ul></div>	1 u	USD 183,609.73	USD 183,609.73

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.

## MAINTENANCE SERVICES PROPOSAL

Date: April 28<sup>th</sup>, 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.



- **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
<b><u>STAGE 1: DESIGN, RESEARCH AND DEVELOPMENT</u></b>																
Fixture layout																
Data diagrams																
Power (24v, 48v) diagrams																
Wiring diagram for fixtures																
Wiring diagram between controllers																
Installation details																
<b><u>STAGE 2; ENGENEERING</u></b>																
Final plans based on research																
<b><u>STAGE 3: POWER AND DATA INSTALLATION</u></b>																
Installing controllers and drivers																
Inspecting data cables and replace old ones.																
Setting up control room.																
<b><u>STAGE 4: FIXTURE INSTALLATION</u></b>																
Removing Old Fixtures and installing new ones.																
<b><u>STAGE 5: CONTENT DESIGN</u></b>																
Content design																
Storyboards																
Pre Viz																
Rendering																
<b><u>STAGE 6: PROGRAMMING, COMMISIONING AND SUPERVISION</u></b>																
Supervision																
Fixture patch																
Addressing																
Content layout																
Offsite programming																
Onsite programming																
Automation																
<b><u>STAGE 7: TEST</u></b>																
Internal test																
Test with the client																
<b><u>FINAL STAGE: HANDOVER</u></b>																

## **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:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**2. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**3. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**4. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**5. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

## SUBCONTRACTOR AND PARTNER DECLARATION

Date: April 28<sup>th</sup>, 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.



- 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



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



7233848

RECEIPT NO.

RENEWAL

7519519

**BUSINESS NAME/LOCATION**

DMC ELECTRICAL LLC  
DOING BUSINESS IN DADE  
COUNTY



**EXPIRES**  
**SEPTEMBER 30, 2025**

Must be displayed at place of business

Pursuant to County Code  
Chapter 8A - Art. 9 & 10

**OWNER**

DMC ELECTRICAL LLC  
C/O DANIEL MEDINA QUALIFER

**SEC. TYPE OF BUSINESS**

196 SPEC ELECTRICAL  
CONTRACTOR

**PAYMENT RECEIVED  
BY TAX COLLECTOR**

75.00 08/20/2024  
INT-24-468562

Worker(s)

1

17E000583

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](http://www.miamidade.gov/taxcollector)





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:

<b>Policy Holder Details :</b>	<b>The Luminicos Corp DBA Luminicos</b>
--------------------------------	---



## 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 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).

<b>PRODUCER</b> LEAVITT GROUP AGENCY ASSOC LLC 34471464 PO BOX 130 CEDAR CITY UT 84720	<b>CONTACT NAME:</b>	
	<b>PHONE</b> (866) 216-6133 (A/C, No, Ext):	<b>FAX</b> (435) 586-1510 (A/C, No):
	<b>E-MAIL ADDRESS:</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
	<b>INSURER A:</b> Hartford Underwriters Insurance Company	
<b>INSURED</b> THE LUMINICOS CORP DBA LUMINICOS 2125 BISCAYNE BLVD STE 242 MIAMI FL 33137	<b>NAIC#</b> 30104	
	<b>INSURER B:</b>	
	<b>INSURER C:</b>	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	
	<b>INSURER F:</b>	

## 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 YY)	LIMITS	
A	COMMERCIAL GENERAL LIABILITY			34 SBM BB2AKP	10/31/2024	10/31/2025	EACH OCCURRENCE	\$1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
	<input checked="" type="checkbox"/> General Liability						MED EXP (Any one person)	\$10,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY	\$1,000,000
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						GENERAL AGGREGATE	\$2,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	\$2,000,000
A	AUTOMOBILE LIABILITY			34 SBM BB2AKP	10/31/2024	10/31/2025	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	ANY AUTO						BODILY INJURY (Per person)	
	ALL OWNED AUTOS	<input type="checkbox"/>	SCHEDULED AUTOS				BODILY INJURY (Per accident)	
	HIRED AUTOS	<input checked="" type="checkbox"/>	NON-OWNED AUTOS				PROPERTY DAMAGE (Per accident)	
	<input checked="" type="checkbox"/> AUTOS	<input type="checkbox"/>						
	UMBRELLA LIAB EXCESS LIAB						EACH OCCURRENCE	
	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE						AGGREGATE	
	DED <input type="checkbox"/> RETENTION \$							
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE	OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/>	N/A				E.L. EACH ACCIDENT	
	If yes, describe under DESCRIPTION OF OPERATIONS below						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	\$25,000
							Annual Aggregate Limit	\$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*

© 1988-2015 ACORD CORPORATION. All rights reserved.

ACORD 25 (2016/03)

The ACORD name and logo are registered marks of ACORD



# 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).

<b>PRODUCER</b> King Insurance Partners, LLC 643 SW 4th Ave Suite 210  Gainesville FL 32601	<b>CONTACT NAME:</b> Ismaray Gonzalez <b>PHONE (A/C, No, Ext):</b> (888) 377-0420 <b>E-MAIL ADDRESS:</b> ismaray.gonzalez@king-insurance.com <b>FAX (A/C, No):</b>  <b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> Ohio Security Insurance Co. <b>INSURER B:</b> GEICO Marine Insurance Company <b>INSURER C:</b> Ascendant Underwriters <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>	<b>NAIC #</b> 24082
<b>INSURED</b>  Dmc Electrical LLC 13151 SW 17th Ct  Miramar FL 33027		

**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	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			BLS60256960	10/06/2024	10/06/2025	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			9300117602	02/25/2025	02/25/2026	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 10,000 BODILY INJURY (Per accident) \$ 20,000 PROPERTY DAMAGE (Per accident) \$ 10,000 PIP-Basic \$ 10,000
	<b>UMBRELLA LIAB</b> <b>EXCESS LIAB</b> <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input checked="" type="checkbox"/> Y	N/A		WC-80206-0	05/12/2024	05/12/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 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****CANCELLATION**City of Bonita Springs  
9220 Bonita Beach Rd, Suite 11

Bonita Springs

FL 34135

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

© 1988-2015 ACORD CORPORATION. All rights reserved.

**Request for Taxpayer  
Identification Number and Certification**

Go to [www.irs.gov/FormW9](http://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.	<b>1</b> 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.) <b>THE LUMINICOS, CORP</b>	
	<b>2</b> Business name/disregarded entity name, if different from above.	
	<b>3a</b> Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only <b>one</b> of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor <input checked="" type="checkbox"/> C corporation <input type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) _____ <b>Note:</b> 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. <input type="checkbox"/> Other (see instructions)	<b>4</b> 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.)
	<b>3b</b> 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 <input type="checkbox"/>	
	<b>5</b> Address (number, street, and apt. or suite no.). See instructions. <b>2125 BISCAYNE BLVD ST 242</b> <b>6</b> City, state, and ZIP code <b>MIAMI, FL 33137</b> <b>7</b> List account number(s) here (optional)	<b>Requester's name and address (optional)</b>

**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.

<b>Social security number</b>									
			-				-		
<b>or</b>									
<b>Employer identification number</b>									
8	7	-	1	2	5	2	2	7	8

**Part II Certification**

Under penalties of perjury, I certify that:

- 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
- 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
- I am a U.S. citizen or other U.S. person (defined below); and
- 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.

<b>Sign Here</b>	<b>Signature of U.S. person</b> 	<b>Date</b>
------------------	--	-------------

**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](http://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



[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](#)





[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

## Detail by Entity Name

Florida Limited Liability Company  
DMC ELECTRICAL, LLC

### Filing Information

<b>Document Number</b>	L17000168734
<b>FEI/EIN Number</b>	82-2450592
<b>Date Filed</b>	08/08/2017
<b>State</b>	FL
<b>Status</b>	ACTIVE
<b>Last Event</b>	REINSTATEMENT
<b>Event Date Filed</b>	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

**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.

Should you require any additional documentation or further clarification, we would be happy to provide it.

Thank you for your time and consideration.

Sincerely,

A stylized, handwritten signature in black ink, consisting of a large, sweeping loop followed by a horizontal stroke and a small dot.

**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**

## 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:	<a href="https://www.stripe.com">https://www.stripe.com</a>
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.

## 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:

- ☐ Applications / software
- ☐ Hardware
- ☐ Infrastructure / Network
- ☐ Physical space (co-location)
- ☐ Storage
- ☐ Web-hosting services
- ☐ Security services
- ☐ 3-D Secure Hosting Provider
- ☐ Multi-Tenant Service Provider
- ☐ Other Hosting (specify):

##### Managed Services:

- ☐ Systems security services
- ☐ IT support
- ☐ Physical security
- ☐ Terminal Management System
- ☐ Other services (specify):

##### Payment Processing:

- ☒ POI / card present
- ☒ Internet / e-commerce
- ☐ MOTO / Call Center
- ☐ ATM
- ☐ Other processing (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

**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.

## 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:

- ☐ Applications / software
- ☐ Hardware
- ☐ Infrastructure / Network
- ☐ Physical space (co-location)
- ☐ Storage
- ☐ Web-hosting services
- ☐ Security services
- ☐ 3-D Secure Hosting Provider
- ☐ Multi-Tenant Service Provider
- ☐ Other Hosting (specify):

#### Managed Services:

- ☐ Systems security services
- ☐ IT support
- ☐ Physical security
- ☐ Terminal Management System
- ☐ Other services (specify):

#### Payment Processing:

- ☐ POI / card present
- ☐ Internet / e-commerce
- ☐ MOTO / Call Center
- ☐ ATM
- ☐ Other processing (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



	<p>exports PANs for user migrations, law enforcement requests and for mandatory card reporting.</p> <p>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.</p> <p>In addition to payment processing, Stripe also enables Issuing services via the Stripe API.</p>
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.

## 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.

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 <ul style="list-style-type: none"> <li>• Tokyo, Japan</li> <li>• Osaka, Japan</li> <li>• San Jose, CA, USA</li> <li>• Washington DC USA</li> <li>• Seattle, WA, USA</li> <li>• STET (Equinix datacenter regions of Saint-Denis, France and Paris, France)</li> </ul>
Cloud hosted datacenters – AWS	9	AWS Cloud Hosting Data Centers <ul style="list-style-type: none"> <li>• ap-northeast-1 / Asia Pacific (Tokyo)</li> <li>• ap-south-1 / Asia Pacific (Mumbai)</li> <li>• ap-southeast-1 / Asia Pacific (Singapore)</li> <li>• ap-southeast-2 / Asia Pacific (Sydney)</li> <li>• eu-west-1 / Europe (Ireland)</li> <li>• us-east-1 / US East (N. Virginia)</li> <li>• us-east-2 / US East (Ohio)</li> <li>• us-west-1 / US West (N. California)</li> <li>• us-west-2 / US West (Oregon)</li> </ul>

## 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](http://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.

## 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))	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
• Could impact the security of the entity's CDE (for example, vendors providing support via remote access, and/or bespoke software developers).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.



## 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:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 2:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 3:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 4:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 5:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 6:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 7:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 8:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 9:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 10:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 11:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirement 12:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appendix A1:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appendix A2:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Justification for Approach

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.

	<p>Requirement 12.3.2 – Not Applicable, Stripe does not utilize customized approach in the CDE.</p> <p>Requirement 12.5.3 – Not Applicable, there were no significant changes to the organizational structure.</p> <p>Requirement (s) A1.1.1, A1.1.2, A1.1.3, A1.1.4, A1.2.1, 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.</p> <p>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.</p>
For any Not Tested responses, identify which sub-requirements were not tested and the reason.	Not Applicable

## Section 2 Report on Compliance

### (ROC Sections 1.2 and 1.3)

Date Assessment began: <b>Note:</b> <i>This is the first date that evidence was gathered, or observations were made.</i>	08/29/2024
Date Assessment ended: <b>Note:</b> <i>This is the last date that evidence was gathered, or observations were made.</i>	02/05/2025
Were any requirements in the ROC unable to be met due to a legal constraint?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were any testing activities performed remotely?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

## 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)*:

<input checked="" type="checkbox"/>	<p><b>Compliant:</b> 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 <b>COMPLIANT</b> rating; thereby Stripe, Inc. has demonstrated compliance with all PCI DSS requirements except those noted as Not Tested above.</p>				
<input type="checkbox"/>	<p><b>Non-Compliant:</b> 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 <b>NON-COMPLIANT</b> rating; thereby <i>Not Applicable</i> has not demonstrated compliance with PCI DSS requirements.</p> <p><b>Target Date</b> for Compliance: <i>Not Applicable</i></p> <p>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.</p>				
<input type="checkbox"/>	<p><b>Compliant but with Legal exception:</b> 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 <b>COMPLIANT BUT WITH LEGAL EXCEPTION</b> rating; thereby <i>Not Applicable</i> 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.</p> <p>This option requires additional review from the entity to which this AOC will be submitted.</p> <p><i>If selected, complete the following:</i></p> <table border="1"> <thead> <tr> <th>Affected Requirement</th> <th>Details of how legal constraint prevents requirement from being met</th> </tr> </thead> <tbody> <tr> <td>Not Applicable</td> <td>Not Applicable</td> </tr> </tbody> </table>	Affected Requirement	Details of how legal constraint prevents requirement from being met	Not Applicable	Not Applicable
Affected Requirement	Details of how legal constraint prevents requirement from being met				
Not Applicable	Not Applicable				



## Part 3. PCI DSS Validation *(continued)*

### Part 3a. Service Provider Acknowledgement

**Signatory(s) confirms:**

(Select all that apply)

<input checked="" type="checkbox"/>	The ROC was completed according to <i>PCI DSS</i> , Version 4.0.1 and was completed according to the instructions therein.
<input checked="" type="checkbox"/>	All information within the above-referenced ROC and in this attestation fairly represents the results of the Assessment in all material respects.
<input checked="" type="checkbox"/>	PCI DSS controls will be maintained at all times, as applicable to the entity's environment.

### Part 3b. Service Provider Attestation

	
 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

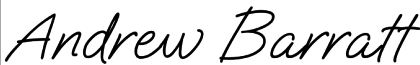

If a QSA was involved or assisted with this Assessment, indicate the role performed:

☒ QSA performed testing procedures.

☐ QSA provided other assistance.

If selected, describe all role(s) performed: Not Applicable

	
 Signature of Lead QSA ↑	Date: 03/03/2025
Lead QSA Name: Riona Mascarenhas	

	
 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:

## 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	<input type="checkbox"/>	<input type="checkbox"/>	
2	Apply secure configurations to all system components	<input type="checkbox"/>	<input type="checkbox"/>	
3	Protect stored account data	<input type="checkbox"/>	<input type="checkbox"/>	
4	Protect cardholder data with strong cryptography during transmission over open, public networks	<input type="checkbox"/>	<input type="checkbox"/>	
5	Protect all systems and networks from malicious software	<input type="checkbox"/>	<input type="checkbox"/>	
6	Develop and maintain secure systems and software	<input type="checkbox"/>	<input type="checkbox"/>	
7	Restrict access to system components and cardholder data by business need to know	<input type="checkbox"/>	<input type="checkbox"/>	
8	Identify users and authenticate access to system components	<input type="checkbox"/>	<input type="checkbox"/>	
9	Restrict physical access to cardholder data	<input type="checkbox"/>	<input type="checkbox"/>	
10	Log and monitor all access to system components and cardholder data	<input type="checkbox"/>	<input type="checkbox"/>	
11	Test security systems and networks regularly	<input type="checkbox"/>	<input type="checkbox"/>	
12	Support information security with organizational policies and programs	<input type="checkbox"/>	<input type="checkbox"/>	
Appendix A1	Additional PCI DSS Requirements for Multi-Tenant Service Providers	<input type="checkbox"/>	<input type="checkbox"/>	
Appendix A2	Additional PCI DSS Requirements for Entities using SSL/early TLS for Card-Present POS POI Terminal Connections	<input type="checkbox"/>	<input type="checkbox"/>	

*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/](https://www.pcisecuritystandards.org/about_us/)*

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

<a href="#">01/24/2025 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/19/2024 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">09/28/2023 -- AMENDED ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/18/2023 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/18/2022 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/01/2021 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/19/2020 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/08/2019 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">11/13/2018 -- REINSTATEMENT</a>	View image in PDF format
<a href="#">08/08/2017 -- Florida Limited Liability</a>	View image in PDF format





Ron DeSantis, Governor

Melanie S. Griffin, Secretary



**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](https://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

Title

Name (Printed)

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

\_\_\_\_\_  
Print Name and Title

\_\_\_\_\_  
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

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Name (Printed)

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
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](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: \_\_\_\_\_

AUTHORIZED COMPANY PERSON: \_\_\_\_\_  
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 10 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 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) 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.

\_\_\_\_\_  
Business Name

(2) 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.

\_\_\_\_\_  
Business Name

(3) 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 10 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.

\_\_\_\_\_  
Business Name

(4) 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.

\_\_\_\_\_  
Business Name

(5) 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.

\_\_\_\_\_  
Business Name

BIDDER'S COMPANY: \_\_\_\_\_

AUTHORIZED COMPANY PERSON: \_\_\_\_\_  
PRINT NAME SIGNATURE DATE

## E-VERIFY AFFIRMATION STATEMENT

RFP/Bid /Contract No: \_\_\_\_\_

Project Description: \_\_\_\_\_

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: \_\_\_\_\_

Authorized Company Person's Signature: \_\_\_\_\_  


Authorized Company Person's Title: \_\_\_\_\_

Date: \_\_\_\_\_

**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: [Signature] Date: 28/04/2025

**NOTARY PUBLIC ACKNOWLEDGEMENT SECTION**

STATE OF FLORIDA (F)  
COUNTY OF MIAMI-DADE BROWARD

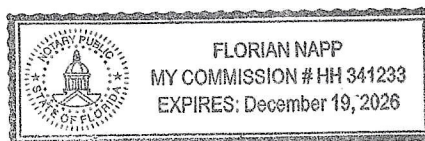
The foregoing instrument was acknowledged before me, by means of ☒ physical presence or ☐ online notarization, this 28 day of April, 2025, by CARLOS R MOLINA GALLARDO, as CHIEF EXECUTIVE OFFICER for THE LUMINICOS, CORP, who is personally known to me or who has produced Florida Driver License as identification.

Notary Public Signature: [Signature]

(Notary Seal)

Print Name: CARLOS R MOLINA GALLARDO (F)  
FLORIAN NAPP

My commission expires: 12/19/2026



## **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:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**2. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**3. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**4. Company Name:** \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Year: \_\_\_\_\_

**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: [Signature]

Name of Officer or Representative: CARLOS R MOLINA GALLARDO Title: CHIEF EXECUTIVE OFFICER

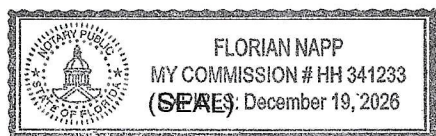
Office Address: 2125 BISCAYNE BLVD SUITE 242 MIAMI, FL 33137 USA

Email Address: THE@LUMINICOS.COM

Main Phone Number: 786 789 0606 FEIN No.: 87-1252278

STATE OF FLORIDA  
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, by CARLOS R. MOLINA GALLARDO  
2025 FN



(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



## 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) \_\_\_\_\_ EIN (Optional): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_ Email: \_\_\_\_\_

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): \_\_\_\_\_

Total Bid Discount (**section 1.05 of General Conditions**): \_\_\_\_\_

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
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**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:

\_\_\_\_\_  
Name (printed)

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title