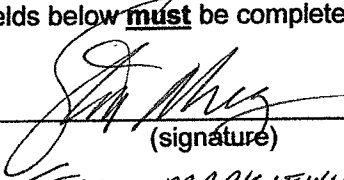


BID/PROPOSAL SIGNATURE PAGE

How to submit bids/proposals: Proposals must be submitted by hard copy only. It will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Services Division, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed 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. 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.

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

Submitted by:  11-24-13
(signature) (date)

Name (printed) STEVE MARKIEWICZ Title: Technology Sales MGR

Company: (Legal Registration) _____

CONTRACTOR, IF FOREIGN CORPORATION, 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>).

Address: 47 N. DELL AVE

City KENVIL, State: NJ Zip 07847

Telephone No. 813-601-7200 FAX No. 973-584-5022 Email: SMARKIEWICZ@MAJORBUCESSUPPLY.COM

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): 30-45 Days

Payment Terms (section 1.04): NET 45 Total Bid Discount (section 1.05): N/A

Does your firm qualify for MBE or WBE status (section 1.09): MBE _____ WBE _____

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.

Date Issued

P-CARDS: Will your firm accept the City's Credit Card as payment for goods/services?

YES NO _____

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. **HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS.** If this section does not apply to your bid, simply mark N/A in the section below.

Variances:

ATTACHMENT 'A'

E-VERIFY AFFIRMATION STATEMENT


RFP/Bid /Contract No: RFP #243-11315

Project Description: Provide and Install License Plate Recognition System

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: MAJOR Police Supply
Authorized Company Person's Signature: 
Authorized Company Person's Title: Technology SALES MGR
Date: 11/27/13

RFP NO.

TITLE:

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS 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 RFP. Violation of the foregoing provision may result in contract termination.

(1) _____ is a **Class A Business** as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt and a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

Business Name

(2) _____ is a **Class B Business** as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt or a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

Business Name

(3) _____ is a **Class C Business** as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.

Business Name

(4) _____ requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

Business Name

(5) _____ requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

Business Name

(6) _____ is considered a **Class D Business** as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.

MAJOR POLICE SUPPLY
Business Name

PROPOSER'S COMPANY: MAJOR POLICE SUPPLY

AUTHORIZED COMPANY PERSON: STEVE MARKIEWICZ [Signature] 11/24/13
NAME SIGNATURE DATE

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.





General Sales Administration

T/A Major Police Supply

Kenvil, NJ 07847

Phone (800) 666-4472 Fax (973) 584-5022

 Contract Holder

November 25, 2013

**City of Fort Lauderdale
Procurement Services Division
100 N. Andrews Avenue, Room 619
Fort Lauderdale, FL 33301**

Ref: RFP # 243-11315 "Provide and Install License Plate Recognition System"

Major Police Supply is pleased to respond to this RFP for the city of Fort Lauderdale. Our intent is to provide a complete and detailed proposal of our ALPR solution. Major Police Supply is providing this 3M – PIPS Technology equipment under GSA Schedule GS-35F-0574X providing an established pre-negotiated Federal Contract for your benefit.

Major Police Supply has been the Master Distributor of this product for the past 5 years. Our expertise and experience with the product is without parallel as demonstrated by close to a thousand mobile and fixed installations along the east coast of the U.S. Our solution provides a turnkey service including consultation, installation, integration, and warranty support for the 3M/PIPS Technology product.

The key benefits to the City of Fort Lauderdale includes:

With the support of 3M Corporation, you have the assurance of working with a worldwide leader in Safety and Security Systems

3M PIPS Technology is recognized as having the most accurate ALPR system on the market with over 25,000 systems deployed worldwide.

With Major Police Supply, you will be working with a company with 25 + years of supporting local, state, and federal law enforcement agencies from New York to Florida. .

In response to your RFP, the following information will confirm our understanding of your requirements. We look forward to working with the City of Fort Lauderdale on this important project.

Sincerely



Steve Markiewicz
Technology Sales Manager
Major Police Supply
smarkiewicz@majorpolicesupply.com
813-601-7200

Title Page

**Fort Lauderdale
RFP No. #243-11315
“Provide and Install License Plate Recognition System”**

**Major Police Supply
47 N. Dell Avenue
Kenvil, New Jersey 07847
Contact: Steve Markiewicz
813-601-7200
smarkiewicz@majorpolicesupply.com**

Specific RFP responses:

Part I – Introduction / Information

Section 6: Your requirement for installation to begin no more than 10 calendar days after receipt of a Purchase order is not feasible. As these systems are built as ordered from 3M Corporation, the normal delivery interval is 4 weeks. We will be able to install all systems within the 5 day window as specified once the installation process has begun.

We understand and concur with all other sections within Part 1.

Part II – RFP Schedule

We understand and concur with this schedule.

Part III – Special Conditions

Section 05: As the preparer of this RFP response, I have the authority to bind Major Police Supply for the purposes of this response.

Steve Markiewicz
Technology Sales Manager
Major Police Supply

Section 11: We have included proof of insurance for Worker's Compensation, General Liability, and Automobile Liability. We have also included the same for our installation contractor in the area – Signal Technology. Upon being named as the successful bidder, we will name the city as an additional insured.

Section 12: We will be subcontracting the installation to the following local Police up fitter:

Signal Technology
420 W. 27th Street
Hialeah, FL 33010
Albert Espinosa
President and Owner

Part IV – Technical Specifications/Scope of Services

We understand the Technical Equipment Specifications and have noted our response to each requirement.

Part V – Proposal Evaluation Criteria

We understand the criteria used to evaluate the RFP responses. We welcome the opportunity to orally present our solution and to provide a live demonstration of the technology.

Part VI – Requirements of the Proposal

We have provided our response per the guidelines outlined in this section.

Part VII – Proposal Pages – Technical Proposal

We have formatted our response in the manner requested.

Organization Profile and Qualifications

Major Police Supply has been the Master Distributor of 3M PIPS Technology ALPR for 5 years. They have been in the law enforcement equipment business for 25+ years providing all police vehicle and specialty vehicle needs of such cities as New York City PD and DC Metro Police. They market, install, and have supported all PIPS systems on the eastern seaboard from New York to Florida. During this time, they have installed hundreds of mobile and fixed camera installations in each of these states. This equipment is being provided through their GSA contract GS-35F-0574X. Major Police Supply will be completing all of the technical aspects of the ALPR installation including IT activities with the City of Fort Lauderdale. They will also be conducting the training on the ALPR systems. We will issue sub-contract with Signal Technology Inc. to complete the physical installation of the equipment. All final configurations and commissioning will be completed by Major Police Supply. Steve Markiewicz who resides in Florida will be the Project Manager for this project.

Major Police Supply originally was the Master Distributor for the PIPS product on the east coast of the US including Florida. At the present time, they continue to be the Master Distributor in only New York, Delaware, New Jersey, and Pennsylvania. With our GSA contract, we now serve customers nationally including Florida. The most recent GSA project in Florida is Hialeah Police Department which is an ongoing project with 3 intersections completed and 6 planned for the near future.

Note: 3M Corporation purchased PIPS Technology from Federal Signal Corporation in the fall of 2012. Some of the collateral and information provided in this response still have the Federal Signal reference. 3M collateral has not yet been published.

A small sample of Major Police Supply / PIPS Technology customers includes:

- 450+ systems deployed in New Jersey surrounding NYC
- Port Authority NY
- SPAWAR – US Secret Service –Washington DC
- Tampa Airport Police FL
- Panama City FL
- Boca Raton FL
- Broward Sheriff's Office FL
- Highpoint NC
- Roanoke VA
- Newark DE
- Ocean City MD
- Pittsburg PA
- City of Atlantis FL
- Port of Miami FL
- NJ State Police
- Hialeah Police Dept FL

In addition to Major Police Supply, 3M-PIPS has a local Florida based direct representative who works closely with us on any issues requiring manufacturer support and assistance.

3M / PIPS Technology Overview:

PIPS Technology, a 3M Corporation company is an industry leader in the development and manufacture of ALPR systems. While the technology was developed by PIPS Technology almost 20 years ago with funding provided by the British government, ALPR has seen broader deployment within the US over the past 5 years. PIPS Technology offers a comprehensive engineered solution and manufactures ALL components of the system rather than using “off the shelf” components as many competitors do.

An Important Consideration

With Fort Lauderdale residing in Broward County, you also have the option of connecting, sharing, and enhancing the current 3M PIPS ALPR platform currently in operation at the Broward Sheriff’s Office (BSO). BSO is the largest 3M PIPS user in the state of Florida. They currently have about 18 mobile units in service and they already utilize the server, software, and data mining capabilities of the system. You could be a standalone operation with your own server or you could add your 6 new mobile units to their existing back office system. At a minimum, with BSO using the 3M PIPS platform, you could access your respective servers for data mining since both systems would be 3M PIPS. BSO ALPR administrators have long been interested in having other cities within the county be able to access their back office system for data mining and crime solving.

The Components:

The 3M PIPS system is comprised of 3 major components.

1. Vehicle equipment – The camera, processor, and related equipment.
2. The in vehicle software (PAGIS) installed on the officer's laptop or MDT.
3. The back office software (BOSS) which is installed on the departmental server.

Please see Attachment #1 - System Specification details.

ALPR Camera

The PIPS Slate camera is the smallest and lowest profile camera on the market. The camera is actually two cameras and an illumination system in one housing. The camera housing contains a cluster of Infrared (IR) LEDs to provide illumination for the camera. The color overview camera provides a color image of the vehicle for additional context and to complete the evidentiary record. (See included brochure) It is manufactured from extruded aluminum with integrated heat-sink fins. The housing is IP67 rated for water and dust resistance. The end caps are sealed and the casing is nitrogen purged. PIPS is rated at 160 mph of combined speed for license plate reads.

The PIPS camera is available in 3 different focal lengths depending on the specific customer application. The 25mm camera is ideal for left, right, or rear adjoining traffic lanes. The 16mm is designed for traffic and capturing parallel and angled parked vehicles. The 8mm camera is specifically for parking lot use.

PAGIS

In the installation and configuration of the officer's vehicle, we create a peer to peer network between the laptop and the PIPS processor in the trunk of the vehicle. The PIPS Technology system uses a Police ALPR Graphical Interface System (PAGIS). This PAGIS Software is the graphical interface (GUI) that is installed on the existing vehicle laptop or MDT. The trunk-mounted SuperRex processor does all of the heavy processing (video analysis for plate finding, OCR of the plates, database matching, packaging of the data record, etc.) The laptop or MDT in the vehicle simply provides the officer with an interface to what is occurring on the SuperRex processor, along with a mechanism for communicating hits. A key benefit of the PIPS system is that the processing is done in the "SuperRex" processor installed in the vehicle. PIPS has consistently led the field in development and updates of our Optical Character Recognition (OCR). Our OCR engines are constantly being updated and improved by PIPS Technology. These OCR engines are tailored to the state (Florida) or region of interest. PIPS currently has over 30 unique US OCR engines available.

The application software is capable of supporting an unlimited number of "hotlist" databases for simultaneous matching. The software is responsive in comparing a captured license plate against multiple and voluminous databases with less than a 2 second response to a query. The officer will also have the capability of adding plate data in the field. The system will provide simultaneous video display for any two (2) dual lens cameras as selected by the user. This image will include:

- The IR License Plate Image
- The license plate interpretation or system read
- A color overview image of the vehicle
- The date and time stamp
- Identification of the camera capturing the image

While the software displays 2 cameras on the officer's MDT, all cameras are working in the background. If the officer receives a hit from a camera not being displayed, the software will immediately present that camera image to the MDT for appropriate action.

PAGIS does not have licensing requirements and can be installed on up to 1000 mobile units.

BOSS

A back office system software (BOSS) resides on a server in the agency, and is linked to any number of databases, or vehicle hotlists. These hotlists may reside on a network location, at an FTP location, or on a website. These hotlists may present differing data schemas and file formats, and the BOSS brings all of these hotlists together for use by the system. The BOSS also monitors these hotlists for updates, pulling them in as changes are made and making them available to the ALPR systems, fixed and mobile. BOSS provides push/pull messaging technology, advanced mapping, location applications and hot list synchronization. BOSS manages users and data from both mobile and fixed ALPR deployments and provides a central repository for all captured license plate data as well as the tools to support data analysis, data queries, and reporting. The PIPS BOSS is an exceptionally powerful, yet simple system to use. As ALPR systems are being deployed, the investigative applications through data mining and intelligence is becoming the primary reason agencies are adding ALPR to their law enforcement arsenal. Some of the key functions of BOSS include:

- BOSS to BOSS sharing of hotlists, reads, and alerts
- Remote notifications via email, text
- Historical data on partial plate, locations, date/time
- Automatic monitoring of numerous hotlists
- Hotlist data import from "any source, any format."
- Provides user administration and security levels
- Advance mapping
- Supports data import from competitors systems

Most agencies add BOSS to an existing departmental server and utilize existing Microsoft Sequel Server licenses for storage of archived plate reads. The recommended system requirements for use with the BOSS Back Office Software System are:

- Intel Xeon quad-core CPU at 2.0GHz
- Windows Server 2003 or 2008 Standard Edition
- SCSI or SAS hard drives at 10,000 RPM
- 32bit or 64 bit OS with 4 GB of Ram
- 1 GB of hard drive space per 50,000 reads stored
- Microsoft SQL Server 2005 / 2008 Standard Edition.

Some of the criteria used for sizing a server include:

- Number of PAGIS vehicles and/or fixed cameras
- Average number of reads per day/month
- Retention period
- BOSS utilization (precise queries or broad queries to browse data)
- Future growth expectations and desire for scalability

BOSS has a one time license fee which provides for Administrator + 2 users. In this case, you can have multiple designated computers with access to BOSS but only 3 can access concurrently. Additional licenses can be purchased which will provide additional concurrent users in increments of 5, 10, and 25. All additional licenses are one time charges.

Connectivity

Communication between the vehicle and the headquarters server (BOSS) can be accommodated by a variety of methods including, cellular, EVDO, 802.11, Wi-Fi, USB 'thumb' drives, wireless Mesh networks, and more.

The Process

- **Installation**

Major Police Supply will furnish all labor, materials, and services required and necessary to install an ALPR system for the City of Fort Lauderdale. In order to plan for this installation, subsequent discussions and survey sheet completion will be required in order to review type of vehicle, type of light bar, preferred camera configuration, etc. We have provided an example of our ALPR Survey form. See Attachment #2

Signal Technology will complete the physical installation of the equipment with the supervision of the Major Police Supply Project Manager.

Note: You have specified a trunk mount option for your 3 camera systems. 3M PIPS can provide this option as requested. We do however recommend that the cameras be installed under the light bar of your vehicle. The reasons for this include:

The PIPS cameras are very small and this provides a more covert appearance. The angle of camera viewing produces a greater accuracy rate. This eliminates the additional weight on the trunk and exposed trunk wiring. PIPS cameras are provided with mounts for your specific light bars.

- **Training**

Major Police Supply will provide training for all officers using the PAGIS in vehicle software and BOSS server training for the Administrator of the system and any other identified individuals requiring access to BOSS for data mining or investigative purposes. Typically, this training is done in a combination of hands on and class room settings. We will work with your agency on the most practical method of training your staff.

Regarding updates, repairs and service calls, Major Police Supply provides first level support for all of our PIPS Technology customers. As the provider of first level support, Major Police Supply will remotely gain access to the PIPS system in order to do initial trouble shooting and software resolution. Should a hardware problem arise, we will take expedited efforts to repair or replace the hardware per the guidelines of the manufacturer's warranty and subsequent maintenance agreements.

Local Business Tax Receipt

Miami-Dade County, State of Florida
-THIS IS NOT A BILL - DO NOT PAY

6815675

BUSINESS NAME/LOCATION
SIGNAL TECHNOLOGY ENTERPRISES INC
420 W 27 ST
HIALEAH FL 33010

RECEIPT NO.
RENEWAL
7089097



OWNER
SIGNAL TECHNOLOGY ENTERPRISES INC
Employee(s) 4

SEC. TYPE OF BUSINESS
220 TANGIBLE PERSONAL PROP DLR

PAYMENT RECEIVED BY TAX COLLECTOR
\$45,00 08/14/2013
FVHST-13-001063

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 all 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-27b.
For more information, visit www.miamidade.gov/taxcollector.

SEE OTHER SIDE



City of Hialeah Business Tax Receipt

2013-14

No: **423620A3**

(OLD-5064A)

Amount: \$ 95.00

The person, firm or corp. listed here has paid the business tax required to engage in or operate the business specified subject to the regulations and restrictions of the City of Hialeah, Florida

Type of Business: Electrical and Electronic Appliance, Television, and Radio Set
Merchant Wholesalers

SIGNAL TECHNOLOGY ENTERPRISES, INC
420 W 27 ST
HIALEAH, FL 33010

Business Location:

420 W 27 ST

Validating No. : 326896

Expires September 30, 2014

THIS IS NOT A BILL



CERTIFICATE OF LIABILITY INSURANCE

DMM
R001DATE (MM/DD/YYYY)
11/18/2013

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).

PRODUCER AUTOMATIC DATA PROCESSING INS AGCY 250717 P: F: PO BOX 33015 SAN ANTONIO TX 78265	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:	FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE INSURER A: Hartford Casualty Ins Co	
INSURED Public Safety USA DBA SIGNAL TECHNOLOGY ENTERPRISES INC 420 W 27TH ST HIALEAH FL 33010	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

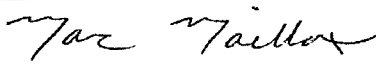
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE	\$
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$
							MED EXP (Any one person)	\$
							PERSONAL & ADV INJURY	\$
							GENERAL AGGREGATE	\$
							PRODUCTS - COMP/OP AGG	\$
								\$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident)	\$
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED: RETENTION \$						EACH OCCURRENCE	\$
							AGGREGATE	\$
								\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		76 WEG EU5504	08/20/2013	08/20/2014	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ERS	
							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 (MAX Line Length is 79; Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Those usual to the Insured's Operations.

CERTIFICATE HOLDER**CANCELLATION**

Fort Lauderdale Police Department 1300 W BROWARD BLVD FORT LAUDERDALE, FL 33312	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 
---	---

© 1988-2010 ACORD CORPORATION. All rights reserved.

Technical Equipment Specifications

<p>1. System shall be composed of three (3) cameras with DSP (Digital Signal Processor) based OCR processing along with a power distribution and network communication unit, and all necessary cabling and mounting hardware for use in police patrol vehicle settings.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>Comments and Explanation:</p>			
<p>2. The system shall perform all OCR processing on a dedicated processor unit, eliminating the need for any laptop processing requirements.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>Comments and Explanation:</p>			
<p>3. The system shall support a web based application or system to display Hits in full color with the plate read, color vehicle image and cartography from the License Plate Reader system on non-LPR equipped vehicles.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>Comments and Explanation: <i>The back office server (BOSS) is server based with access from multiple users via a LAN or VPN access.</i></p>			
<p>4. Camera cables shall be shielded to eliminate interference due to radar and use military specification (MIL-SPEC) connectors.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>Comments and Explanation:</p>			
<p>5. Each camera unit shall have internal cooling elements to extend high temperature operating levels.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>6. The vendor shall certify that the unit can sustain heat ranges typical for vehicles specified. These standards include when the vehicle is running in Florida summer conditions as well as high humidity conditions.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>Comments and Explanation: <i>3M PIPS has numerous mobile and fixed installations in Florida and meets and exceeds those environmental challenges.</i></p>			
<p>7. The system shall be designed and installed to be immune from the temporary drop in DC power during vehicle starts and shall not reboot or lose connectivity with the vehicles system. All power cables shall be properly fused with an independent fuse.</p>	<p>YES Standard X</p>	<p>YES Custom</p>	<p>NO</p>
<p>Comments and Explanation:</p>			
<p> </p>			

8. The system should be configurable to allow setting a delayed power off in intervals of 0, 5, 10, 60 and 120 minutes.	YES Standard X	YES Custom	NO
Comments and Explanation:			
9. Each camera enclosure shall include two cameras (one color and one black/white) and an infrared illuminator and be nitrogen sealed to perform in any weather condition.	YES Standard X	YES Custom	NO
Comments and Explanation:			
10. LPR system should have a minimum/maximum operating temperature range of at least 20 to 160 degrees Fahrenheit	YES Standard X	YES Custom	NO
Comments and Explanation:			
11. Cameras should be externally mounted with secure magnetic base including operational alignment bracket and variable direction system which allows the camera to be locked into a forward or backward facing position.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>3M PIPS HAS THIS MOUNTING OPTION BUT RECOMMENDS A LIGHT BAR MOUNT FOR COVERT REASONS AND INCREASED PLATE READ ACCURACY.</i>			
12. The mounting system shall include an anti-theft/removal bracket to guarantee the placement of the camera when trunk mounted.	YES Standard X	YES Custom	NO
Comments and Explanation:			
13. Communications between the cameras and user interface shall consist of IP, TCP and UDP over 100Mb Fast Ethernet	YES Standard X	YES Custom	NO
Comments and Explanation:			
14. The system shall separately capture, interpret, process, display and store images of the license plate within range of the equipped vehicle without the interaction of the end-user	YES Standard X	YES Custom	NO
Comments and Explanation:			
15. The system shall continue to read license plates during all functions except for a diagnostic mode.	YES Standard X	YES Custom	NO

Comments and Explanation:

User Interface

1. The user interface software (GUI) shall be able to be loaded on existing laptop computer and not require additional display hardware.	YES Standard X	YES Custom	NO
Comments and Explanation:			
2. The system shall be installed and function on a laptop within the minimum specs for the user interface software.	YES Standard X	YES Custom	NO
Comments and Explanation:			
3. The system shall be installed and function on a laptop within the recommended specs for the user interface software.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>1.2 GHZ AMD OR INTEL PROCESSOR WITH 1GB MEMORY WITH 120 MB AVAILABLE FOR PAGIS SOFTWARE. WINDOWS XP OR WINDOWS 7 (32 OR 64 BIT)</i>			
4. The system shall function with full capabilities with an operating system environment of Microsoft Windows 7 or higher (in 32-bit and 64-bit environments)	YES Standard X	YES Custom	NO
Comments and Explanation:			
5. Each license plate read should consist of one color overview image of the entire target vehicle, one black and white of the license plate, a time and date stamp, GPS coordinates, and any associated "hit" information.	YES Standard X	YES Custom	NO
Comments and Explanation:			
6. The system should allow storage of plate reads for at least 3 months and up to 12 months and retain those records after data transfer to a server for long term storage.	YES Standard X	YES Custom	NO
Comments and Explanation:			

7. The system should provide the ability to store at least 10 million records in its "hotlist" database.	YES Standard X	YES Custom	NO
Comments and Explanation:			
8. The system shall provide the ability to accommodate multiple hotlists acquisition from independent data sources. Hotlists shall include Suspended Licenses, Wanted, Insurance, Sexual Offenders, NCIC, and FCIC.	YES Standard X	YES Custom	NO
Comments and Explanation:			
9. The system should be multi-user capable with user and password management available through the in-vehicle interface.	YES Standard X	YES Custom	NO
Comments and Explanation:			
10. The system shall have the ability to push settings to the in-vehicle system from back office software.	YES Standard X	YES Custom	NO
Comments and Explanation:			
11. The system shall have the ability to lock out certain features based on user logon credentials set through the back office software.	YES Standard X	YES Custom	NO
Comments and Explanation:			
12. The in-vehicle system shall have the ability to query record data on the server and present it to the user without leaving the application.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>we have some users who prefer to have access to both PAGES - IN CAR SOFTWARE AS WELL AS BOSS - BACK OFFICE SOFTWARE IN ORDER TO ACCESS ARCHIVED READ DATA</i>			
13. Hotlists shall be able to be loaded via Wi-Fi (802.11) without user intervention.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>AVAILABLE BUT TYPICALLY NOT UTILIZED DUE TO SLOWER SPEEDS. WE RECOMMEND CELLULAR BETWEEN VEHICLE & SERVER.</i>			

14. Hotlists shall be able to be loaded via cellular without user intervention.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>This method is The STANDARD.</i>			
15. Reads that are on the hotlist shall alert the user with both an audible and visible alarm in under a second.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>3M PIPS ADVERTISES " UNDER 2 SECONDS "</i>			
16. The system shall allow the end-user to query stored reads against time and date and full or partial tags.	YES Standard X	YES Custom	NO
Comments and Explanation:			
17. The system shall allow query results to be displayed and included a time and date stamp, a B&W image of the plate, a color overview image and corresponding GPS coordinates of the read placed on a map including any associated information with the hotlist database match.	YES Standard X	YES Custom	NO
Comments and Explanation:			
18. The mapping system should be local to the laptop and NOT require the use of Internet connection to render any maps.	YES Standard	YES Custom	NO X
Comments and Explanation: <i>MAPPING SOFTWARE IS AT THE SERVER (BOSS) LEVEL. 3M PIPS DOES NOT RECOMMEND MAPPING AT THE VEHICLE LEVEL DUE TO SAFETY REASONS AND THE REALITY THAT OFFICERS DO NOT USE.</i>			
19. The mapping system should be licensed and proof of license must be furnished at time of Bid.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>BING MAPS IS INCLUDED IN COST PROPOSAL. NON WEB BASED MICROSOFT MAPS IS AVAILABLE BUT NOT QUOTED. THIS IS LICENSED BASED ON NUMBER OF CLIENTS ACCESSING.</i>			
20. The mapping system shall be part of the system purchase cost and not tied to data usage	YES Standard X	YES Custom	NO
Comments and Explanation:			

21. The mapping system shall receive regular and timely updates from the vendor while the product is under warranty and support.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>MAPPING SOFTWARE IS WEB BASED BING MAPS ACCESSED AT THE SERVER LEVEL ONLY</i>			
22. The system shall provide multiple layers of security and configuration so that certain matches may alert only those officers with appropriate privileges.	YES Standard X	YES Custom	NO
Comments and Explanation:			
23. The system shall run off an embedded database not requiring additional maintenance or installation.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>SYSTEM PROVIDED WITH BASIC MICROSOFT SQL. ADDITIONAL STORAGE TO BE PROVIDED BY DEPARTMENTAL SQL LICENSES.</i>			
24. The system should run off an embedded database not requiring additional fees.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>PROVIDED WITH 10 GB SQL - BASIC MICROSOFT SQL. ADDITIONAL STORAGE WILL UTILIZE DEPARTMENTAL SQL LICENSES</i>			
25. The system shall allow the ability to toggle between the black/white (IR) image and the corresponding color image on the user interface.	YES Standard X	YES Custom	NO
Comments and Explanation:			
26. The system should be configurable to choose the default presets for images displayed after the system startup as either black/white or the color image.	YES Standard	YES Custom	NO X
Comments and Explanation: <i>STANDARD COLOR IMAGE OF VEHICLE AND BLACK & WHITE IMAGE OF TAG ARE PROVIDED.</i>			
27. The system shall be able to retrieve new or updated hotlist files automatically to an agency-defined schedule, via the wireless network connection without operator intervention (automated updates).	YES Standard X	YES Custom	NO
Comments and Explanation: <i>AVAILABLE BUT NOT RECOMMENDED FOR DATA TRANSFER FROM VEHICLE/BOSS BACK OFFICE SERVER - SLOW SPEEDS</i>			
28. The system shall be able to retrieve new or updated hotlist files automatically to an agency-defined schedule, via cellular modem without operator intervention (automated updates).	YES Standard X	YES Custom	NO

Comments and Explanation: <i>This is the STANDARD method</i>			
29. The GUI shall allow the end user to manually insert a plate, including state and additional description data. The GUI shall also search through in-vehicle stored reads for inserted plates and display any and all past reads on that plate.	YES Standard X *	YES Custom	NO X
Comments and Explanation: * - BOSS - Back Office Software Does NOT Search by STATE.			
30. The system should be able to take a still digital image with the cameras from the user interface.	YES Standard X	YES Custom	NO
Comments and Explanation:			
31. The system shall include on-board cartography in the user interface to show every read on a map	YES Standard	YES Custom	NO X
Comments and Explanation: <i>MAPPING IS NOT PROVIDED IN THE VEHICLE. ONLY AT THE SERVER LEVEL ACCESSIBLE VIA LAN OR VPN. ON BOARD CARTOGRAPHY IS AVAILABLE TO ALL ACCESSING BOSS</i>			
32. The system shall be able to conduct geo-fencing, whereby a violation range can be established for a specific alarm type and the alarm accordingly within that range and tag.	YES Standard	YES Custom	NO X
Comments and Explanation:			
33. The system shall be able to conduct historical checks of gathered data when a new hotlist is published and alert defined groups of users to possible matches.	YES Standard X	YES Custom	NO
Comments and Explanation:			
34. The system should be able to conduct HTML data export containing independent images linked to a report.	YES Standard X	YES Custom	NO
Comments and Explanation:			
35. The system shall have the ability when a tag is hit from a confidential tag placed into the system; it may or may not alert the end user depending on the configuration. This shall be used in confidential surveillance investigations.	YES Standard X	YES Custom	NO

Comments and Explanation:			
36. If there is a hit on a user's laptop when the application is minimized, the application shall return to normal screen size and alert the user.	YES Standard X	YES Custom	NO
Comments and Explanation:			

Server Specs

1. The server application shall be compatible in a virtual environment (VMWARE ESX)	YES Standard X	YES Custom	NO
Comments and Explanation:			
2. The software shall allow searches of stored reads via time and date, tags (including partials), location radius, and map location.	YES Standard X	YES Custom	NO
Comments and Explanation:			
3. The software shall be able to create PDF files for each record to include a color image of the vehicle, a black/white image of the vehicle, a map of the read location and the ability to view the location maps.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>ONLY THE COLOR IMAGE IS PROVIDED. A BLACK AND WHITE IMAGE OF THE PLATE READ IS PROVIDED AS WELL AS ALL OTHER REQUESTED INFORMATION</i>			
4. The server software shall have a mapping system that does not require Internet connectivity in order to render.	YES Standard	YES Custom	NO X
Comments and Explanation: <i>THE SYSTEM UTILIZES BING MAPS VIA INTERNET CONNECTIVITY. WE CAN PROVIDE MICROSOFT MAPS WHICH DOES NOT REQUIRE INTERNET - IT DOES REQUIRE CLIENT LICENSES.</i>			
5. The software shall provide data mining functions including: convoy analysis, unique/duplicate plates, time frame analysis, and nested searches.	YES Standard X	YES Custom	NO
Comments and Explanation:			
6. The system shall be able to generate email messages to mobile devices including mapping.	YES Standard	YES Custom	NO X

Comments and Explanation: <i>EMAIL MESSAGES CAN BE PROVIDED BUT SINCE MAPPING IS NOT PROVIDED BY 3M IN THE VEHICLE, THE MAPPING REQUEST CANNOT BE MET</i>			
7. The software shall be able to manage multiple hotlists that have different independent refresh rates.	YES Standard X	YES Custom	NO
Comments and Explanation:			
8. The software shall be able to manage hidden or covert hotlists and accessibility based on user permissions.	YES Standard X	YES Custom	NO
Comments and Explanation:			
9. The software must allow for multiple login roles with various permission levels.	YES Standard X	YES Custom	NO
Comments and Explanation:			
10. The software shall provide an audit log of user activities.	YES Standard X	YES Custom	NO
Comments and Explanation:			
11. The software shall allow for customized menu selection based on roles.	YES Standard X	YES Custom	NO
Comments and Explanation:			
12. The software system shall be capable of supporting future increases in the number of ALPR equipped police vehicles.	YES Standard X	YES Custom	NO
Comments and Explanation: <i>SUPPORTS ADDITIONAL MOBILE USERS UP TO 1000.</i>			

Support and Warranty

1. The vendor shall provide priority onsite support for all hardware and issues pertaining to the license plate recognition equipment within four hours of being notified. The vendor shall explain their priority support process.	YES Standard X *	YES Custom	NO X *
---	-----------------------------------	---------------	--------------------------

Comments and Explanation: *INITIAL FIRST LEVEL SUPPORT WILL BE RESPONDED TO WITHIN 4 HOURS. REMOTE TESTING AND ACCESS WILL BE CONDUCTED PRIOR TO DISPATCHING LOCAL ONSITE PERSONNEL.*

2. The vendor shall provide priority onsite or remote support for software issues pertaining to the server application within four hours of being notified. The vendor shall explain their priority support process.	YES Standard X	YES Custom	NO
Comments and Explanation:			
3. The vendor shall have a fully functioning product for at least 60 consecutive days without an issue.	YES Standard X	YES Custom	NO
Comments and Explanation:			
4. The vendor shall provide onsite training as part of train-the-trainer on all portions of the license plate recognition application.	YES Standard X	YES Custom	NO
Comments and Explanation:			
5. The vendor's equipment and software shall require a 60 day test period to be considered as fully functional.	YES Standard X	YES Custom	NO
Comments and Explanation:			
6. The vendor shall provide all wiring, cabling, parts, fittings, hardware, fuses, and any other components to properly install their equipment into the vehicle without any additional expense to the city.	YES Standard X	YES Custom	NO
Comments and Explanation:			
7. The vendor shall provide a spare unit to be installed when a device is required to be removed for warranty, maintenance or other service while the units are still under support or warranty.	YES Standard	YES Custom	NO X
Comments and Explanation: <i>3M PIPS Provides A RMA Process To Remove, Ship, And Repair/Replace Any Defective Hardware Under Warranty.</i>			
8. Vendor shall provide 1 year warranty for parts and labor included in the initial purchase. (Warranty period to begin once system is fully functional and approved by City staff – see item 5 above)	YES Standard X	YES Custom	NO
Comments and Explanation:			
9. The vendor shall provide a cost for an additional 3-year of warranty and support.	YES Standard X	YES Custom	NO

Major Police Supply has implemented many similar installations over the past 4+ years and is comfortable and confident in providing a professional installation, commissioning, and rollout of the service.

As the Project Manager for the project, Steve Markiewicz will be your point person for all activities relating to this project. Steve is located in Tampa and is normally in the South Florida market weekly.

We completely understand your objectives in implementing this 6 camera mobile ALPR project. Typically, most of the work will be done up front in determining your specific needs. Questions needing answers include:

- Types of vehicles to be installed
- Focal lengths of the 3 cameras
- Desired placement of the cameras on the vehicle for your use
- Discussion on back office issues such as server, SQL database, etc.
- Training schedule and format
- Types of lightbars on the vehicle (if recommended mounting is used)
- Identify points of contacts, fleet, IT, etc.

Once these have been resolved, all equipment will be ordered and installation, IT configuration, and training will be scheduled. The following time line provides a "typical" time frame for a project like this one.

Projected Time Line for the Project:

Day 1	PO issued to Major Police Supply
Day 3	Project kickoff meeting with Fort Lauderdale personnel
Day 5	PO issued to 3M for all identified equipment PO issued to Signal Technology for installation
Day 35	Equipment received at Fort Lauderdale PD
Day 40	Equipment installation start
Day 42	Equipment installation complete
Day 43	Begin system commissioning, IT configuration, training
Day 45	System completed and operational.
Day 105	60 day review period ends.

Having implemented hundreds of similar projects ranging from single mobile installations to 50+, we understand the resources required to install, maintain, and support the Fort Lauderdale Police.

For all day to day questions and issues, Steve Markiewicz from Major Police Supply will be your contact.

Al Buschemi from 3M is assigned to support all 3M customers in the state.

For service issues, you will be provided with a dedicated Major Police Supply technical resource who will field your calls and normally resolve the issue on the phone or by accessing your system remotely. For the rare occasion when there is an equipment failure, Signal Technology, with offices in Tampa, Hialeah, and Orlando will be responsible for removal of the equipment and shipment back to 3M PIPS.

You also have the benefit of contacting 3M ALPR customer support for additional levels of support.

A future consideration for the City of Fort Lauderdale is the future inclusion of fixed ALPR cameras to complement the mobile units. 3M PIPS is the undisputed leader in fixed camera technology with ALPR, open road tolling, and parking applications.

Major Police Supply is currently working on a fixed camera project for Hialeah Police Department that has currently brought up 5 intersections with 9 more planned for the near future.

Larger Florida References:

Tampa International Airport Police
Tampa International Airport
Tampa, FL 33609
Beth Bauman
813-801-6066
4 mobile systems in place for 3 years

Boca Raton Police Department
100 N.W. Boca Raton Blvd
Boca Raton, Florida
Capt. Coy Dixon
Asst. Chief Edgar Morley
561-338-1234
emorley@ci.boca-raton.fl.us
2 mobile systems in place for 3 years
2 mobile systems recently installed
1 fixed site at Sugar Sand Park

Sgt. Sharon Wesolowski
Broward Sheriff's Office
2601 W. Broward Blvd
Fort Lauderdale, FL
954-321-4796
Sharon_wesolowski@sheriff.org
15 mobile systems in place for 5+ years
3 mobile systems in place for 1 year

Lt. Joe DeJesus
Hialeah Police Department
5555 LeJeune Road
Hialeah, FL
305-781-1922
jdejesus@hialeahfl.gov
1 mobile system recently upgraded
10 fixed cameras at 5 intersections with 9 more intersections planned.

Panama City Police Department
Panama City FL
Lt. Kevin Miller
850-381-0524

Larger Out of State References

Cincinnati Police Department
310 Ezzard Charles Drive
Cincinnati, OH 45214-2883
Captain Jeff Butler
513-263-8145
Heather Whitton
513-263-8134

Los Angeles County Sheriff Department
12440 Civic Center Dr.
Norwalk, CA 90650
Eric Conway
562-345-4140
Sgt. John Gaw
562-345-4476

East Orange Police Department
15 South Munn Ave
East Orange, NJ 07019
Detective Andrew DiElmo
973-266-5071

Raleigh Police Department
Raleigh North Carolina
John Maultsby
919-996-1145

Passaic County
Passaic County NJ
Det. Barry Turner
973-633-3574

PART VIII - PROPOSAL PAGES – COST PROPOSAL

Cost to the City: Contractor must quote firm, fixed, rate for all services and in accordance with terms, conditions and specifications identified in this request for proposal. This firm fixed rate includes any costs for travel to the City. No other costs will be accepted.

Failure to use the City's COST PROPOSAL Page and provide costs as requested in this RFP, may deem your proposal non-responsive.

Purchase of automated license plate recognition system (ALPR). To include, but not be limited to: supply, installation and training of the License Plate Recognition System. The ALPR system is to include, but not be limited to, six (6) Automatic License Plate Recognition vehicle systems, including the necessary "In-vehicle" equipment and back office software per specifications. Including 1 year warranty for parts and labor.

TOTAL FIRM FIXED FEE (written)

\$ Ninety Five Thousand, Eight hundred sixty Eight AND 54 cents
\$ 95,868.54

Cost for additional years of Maintenance

Year Two: \$ 7,560.00

Year Three: \$ 7,560.00

Year Four: \$ 7,560.00

**GRAND TOTAL FOR SYSTEM AND FOUR YEARS OF MAINTENANCE
(WRITTEN)**

\$ One hundred thousand and Eighteen thousand, five hundred forty ~~Five~~ Eight
and fifty four cents
\$ 118,548.54



General Sales Administration

T/A Major Police Supply

Kenvil, NJ 07847

Phone (800) 666-4472 Fax (973) 584-5022

GSA Contract Holder

GSA Schedule Pricing

SIN	Qty	Equipment and Software Purchase Order #1	List Item Cost
132 8	6	SLATE-810-LE-G -Three Camera Mobile Law Enforcement Package including 810nm illumination, Superex processor, camera cable/connector(s), GPS module, PAGIS software and dongle, PIPS ALPR/OCR Engine, Client/Server architecture, camera bracket mount assemblies.	\$90,045.36
132 33	1	BOSS-MAP - Advanced mapping utilizing Bing Maps. Provides enhanced mapping functionality including satellite imagery, bird's eye, and multiple view options.	\$720.91
SubTotal -GSA Schedule Items			\$90,766.27

GSA – Open Market Items

Contracting Officer Instructions – Note these as separate "Open Market Items" on your Purchase Order

Item #	Qty	Equipment and Software Purchase Order #1	List Item Cost
1	1	BOSS-ADMIN - Back Office System Software utilizing Microsoft SQL Express Server Software for system administration, data analysis and data storage, data mining, reporting, mapping via Google Maps, remote alerting, and networking in support of inter-agency data sharing. Note: Software includes one Admin plus 2 concurrent User Licenses.	\$902.27
SubTotal - Open Market Items			\$902.27

Installation, Commissioning, and Training

Item	Qty	Installation, Optimization, and Training Purchase Order #2	List Item Cost
1	6	MP-SRVC-MVI-Mobile; Field Engineering services for installation, optimization, IT configuration, and training for mobile ALPR vehicles to include PAGIS and BOSS.	\$4,200
Sub Total			\$4,200

Summary

Item	Qty	Summary of Cost	List Item Cost
1	1	GSA Schedule Items – Include on PO #1	\$90,766.27
2	1	GSA Open Market Items – Include on PO #1	\$902.27
3	1	Installation, Optimization and Training – Include on PO #2	\$4,200.00
Total			\$95,868.54

NOTE 1: Only one copy of PIPS-SW-BOSS PRO System Software and one BOSS-SRVR PIPS server is required to support a combination of one or more mobile and/or fixed mobile systems (up to 1,000 separate ALPR mobile or fixed systems).

Scope of Work:

Our quote ***includes*** installation. During that time, our system will be installed in your designated vehicles by our installer. After installation, you or the appropriate personnel will receive training on both PAGIS and BOSS by our representative.

Our quote ***includes*** the cost for our Back Office Server Software (BOSS) that can be installed on a department supplied SQL server. During the installation and training, our engineer will install one copy of this software application that is used for mining of all data collected by each mobile LPR system. The initial cost of installing BOSS for your agency can be utilized for all future PIPS mobile installations within your organization. It can also integrate with other local law enforcement agencies, fixed ALPR sites, or with commercial purchasers of our ALPR systems to provide a comprehensive database of vehicle movement within the surrounding areas where PIPS systems have been deployed.



804 Innovation Drive
Knoxville, TN 37932 USA
Tel 865-392-5540
Fax 865-392-5599
info@pipstechnology.com

Mobile Law Enforcement Automated License Plate Recognition (ALPR) System Specifications

Hardware Specifications

ALPR Cameras:

- The Cameras must be small enough, no more than 2" tall and permanently attached to the vehicle's emergency lightbar so as not to obstruct or otherwise hinder visibility to the lightbar.
- Each Camera shall weigh no more than 4 pounds.
- All camera mounting bracket systems must be fabricated specifically for the vendor's Cameras and must be furnished by the vendor.
- In addition to the camera mounting bracket systems that attach to the vehicle's emergency lightbar, the vendor must have the ability to provide fabricated camera mounting bracket systems that can be installed on those police vehicles commonly referred to as "unmarked units" or those with no roof-mounted lightbar (i.e., clip-on trunk lid mounts). These brackets must easily allow for rotation, tilt, and yaw adjustments.
- There must be no moving parts in the dual-lens Cameras.
- The system must be comprised of self-illuminating Infrared (IR) Cameras for effective license plate image capture in a variety of weather and lighting conditions.
- The Infrared (IR) Light Emitting Diodes (LEDs) must be "pulsed" to enhance license plate capture and extend the lifetime of the LED board.
- The Infrared (IR) portion of the Camera must be available in various wavelengths in order to provide effective license plate capture in different regions of the country and to address the specific license plate properties.
- The Cameras must have a dual lens configuration in a single camera housing featuring both an Infrared (IR) lens for license plate capture and a color overview image of the vehicle for verification purposes. This Camera housing shall also contain onboard IR illumination and shall be sealed to IP67 standards.
- The dual lens Camera must be capable of capturing up to 60 frames per second.
- The Cameras must be capable of producing multiple license plate images with varying flash, shutter and gain settings to ensure a high quality image regardless of weather or lighting conditions.
- The Cameras must utilize a Software Camera Controller to facilitate the selection of the optimum settings for the Gain and Shutter. Once configured by the System Administration or the vendor, all settings must be automated in each Camera.
- The Cameras must have a fixed focal point or target distance from the Camera to the captured vehicle license plate up to 30 feet.

- All Camera cabling and camera connectors must be manufactured or assembled by the vendor that provides the ALPR system and all of the required components.

ALPR Processor:

- The system must provide the customer with the ability to integrate to their existing MDC using Client – Server architecture in order to minimize processor usage on their existing MDC.
- The Automated License Plate Recognition (ALPR) Processor must have a “self trigger mode” to detect the presence of lawfully mounted vehicle license plates in the Cameras’ Field of View (FOV) for image capture from the camera. The System must also provide the capability to use a Hardware Platefinder.
- The ALPR Processor must be designed to be trunk mounted and must incorporate an intelligent Power Supply Unit (PSU) that provides for a safe start-up and shut – down each time the vehicle’s ignition is turned on and turned off.
- The ALPR Processor must control the power supplied to the Cameras and provide video connection points for simplified system wiring.
- The ALPR Processor must have an operating input range of 10.5-16.5V DC at 90W.
- The ALPR Processor must utilize, as a minimum, an automotive 30 GB extreme environment Hard Disk Drive. As an option, the ALPR Processor must be available with a minimum, 1.1 GB Solid State Hard Drive.
- The ALPR Processor must utilize a Core Two Duo processor running Windows XP embedded Operating System.
- The ALPR Processor shall have at least four (4) ALPR digital camera connections, a dedicated GPS input, and four (4) USB Ports.
- The vendor shall also offer a portable version of the ALPR Processor using the same internal components as the trunk-mounted ALPR processor, and also able to support up to four digital ALPR camera connections.
- The ALPR Processor must be designed to meet the environmental conditions associated with a trunk-mounted unit.
- When the system is configured to utilize an independent ALPR processor, the ALPR Processor, all associated software and the Cameras must be developed, designed, manufactured and supported by the same vendor.

Client (In Vehicle) Software Specifications

- The application software must be capable of supporting an unlimited number of “hotlist” databases for simultaneous matching. Throughout this document, the terms “hotlist” and “databases” may be used synonymously.
- The System Administrator must have the capability to define the Agency’s database(s) and assign a color code and priority level to each database to be used when a ‘match’ or a ‘hit’ occurs, i.e., stolen vehicles, stolen license plates, sexual predators, armed felon suspects, registered parolees, etc.
- The application software that resides in the police unit must provide for a User Name and Password as assigned by the System Administrator within the back office server software.

- The application software must be responsive in comparing a captured license plate against multiple and voluminous databases with *less* than a 2 second response to a query of a database/s containing up to 10,000,000 records. In the Client-Server architecture, this specification is based upon the Customer's Laptop Computer or MDC meeting the System requirements.
- The system must have the feature that allows "hot list" databases to be created either from within the back office server software or in the field by authorized users whereby authorized users must have the capability to add license plate data to the system's database/s while in the field. All license plate data added by the authorized user will remain a part of the selected database until the database is 'overwritten' by the System Administrator or by a new or updated database(s).
- The system must provide a feature to enable or disable "fuzzy-logic" plate matching in each police unit to enable the system to match common number character issues (0/O and 8/B) or unknown characters. This feature can be enabled or disabled at the user's discretion.
- The system must provide for the ability to read license plates from up to four dual-lens Cameras simultaneously.
- The system must provide live, simultaneous video display of all of the following data for any two (2) dual lens Cameras as selected by the user:
 - The IR License Plate Image
 - The license plate interpretation or system read
 - A corresponding color overview image of the vehicle displaying the captured IR license plate
 - The date and time stamp
 - Identification of the Camera capturing the image
 - The GPS Coordinates for every license plate captured by the system
- When the system identifies a "match" or a "hit" of the license plate, the following additional data must be displayed in a timely manner on the system's Hit Screen:
 - The color coded database indicating the name or title of the database where the "match" occurred
 - All narrative text, if any, from the database where the "match" occurred
- The Hit Screen must remain displayed until acknowledged by the officer, *and* while displayed, the system must continue to process license plate data in the background and all captured data must be stored in the system during this interval.
- If so configured within the back office server software by the Administrator, the officer may also select a disposition button on the Hit Screen. These Dispositions are determined by the Administrator, and may be used in reporting the result of the hit (Arrest, Vehicle Parked, Vehicle Recovered, etc).
- In the event that a subsequent "match or hit" should occur while the original Hit Screen is displayed to the officer, the system must alert the officer that a second or subsequent "hit" occurred and the system is waiting for the officer's intervention.
- The system must provide a touch screen feature to enlarge the vehicle's color overview image so that it can be examined by the police officer in order to gain additional information or the verification of information.



PIPST
TECHNOLOGY

A Federal Signal Company

804 Innovation Drive
Knoxville, TN 37932 USA
Tel 865-392-5540
Fax 865-392-5599
info@pipsttechnology.com

- The system must have the capability to provide touch screen navigation for the police application GUI.
- The system must provide for the ability to run "covert" hotlists for gang investigations, organized crime, or other details. If so deployed by the administrator from the back office server software, a covert hotlist will not alert the officer to a hit but will send this hit information to the back office where it can be sent to a defined notification list.
- The system must provide the System Administrator with the ability to customize audible alerts to differentiate between unique events within the software application.
- The system must provide a visual alert for each defined event that displays in the foreground regardless of other applications in use at that time.
- The system must provide the officer with the capability to mark a license plate read as a "misread."
- The system must provide the officer with the capability to manually enter a license plate for the purpose of searching that license plate against the system's database(s).
- The system must provide the officer with the capability to review all of the following:
 - "hits"
 - license plate images and associated data
 - license plate searches performed by the officer indicating the date and time the search was conducted
 - misreads
- The system must provide the officer with the ability to query the client software application to determine if a particular license plate has been captured in the system. If the license plate data is in the system, the officer must have the ability to review each license plate capture and the associated system data displayed on the Review Screen to include:
 - The IR License Plate Image
 - The corresponding color overview image of the vehicle
 - The date and time stamp and
 - The GPS coordinates
- The system must provide the ability to add notes to the "hit" record for permanent storage and subsequent retrieval.
- The system must be capable of capturing license plates in any of the following modes: (a) an adjacent lane on either side of the police vehicle while driving through traffic and/or parking lots; (b) traffic in an adjacent lane while parked on the side or shoulder of a roadway; (c) any parking application from parallel to perpendicular parked car orientation with respect to the movement of the police vehicle and (d) an adjacent lane to capture the rear license plate of the vehicle as it passes the police unit or vice versa
- The camera configuration must be capable of switching from one monitoring mode to another via the software application by "pressing" the corresponding on-screen function button.
- The system must have the capability to capture a still image of importance at the officer's discretion using the color overview camera(s).

Back Office Server Software Specifications

- As part of the overall system and functionality, a back office server software application must be provided so the customer can manage all the data collected by the various ALPR deployment (client applications), manage the database functions and manage the user administration functions.
- The system shall allow monitoring and management of both fixed, mobile, and portable ALPR units (devices) within the same application. Devices shall be able to be assigned to Sites for ease of management.
- The system must provide the ability to assign priorities to the various databases utilized by each police agency.
- The system must provide the System Administrator with the ability to import national and local databases from a website, ftp location or network address.
- The system shall allow for the option of automatically updating all hotlist databases from the originating website, FTP, or network address.
- The system shall allow for the scheduling of hotlist updates from the source location.
- The system shall allow for the definition of custom hotlist import formats, to enable a standard .csv or text file to be easily imported and made useable by the system without the need for vendor involvement.
- The system should allow for the option of configurable disposition buttons to be pushed out the client application. These Dispositions are determined by the Administrator, and when enabled, require the officer to enter a disposition prior to clearing the Hit screen (Arrest, Vehicle Parked, Vehicle Recovered, etc). This information is fed back into the server application for reporting purposes.
- The system must provide application security by assigning users to a Group, with a defined Role, which determines access levels and privileges within the system.
- The system must allow integration with Microsoft Active Directory for automated import of users from Active Directory to the back office.
- The system must provide the System Administrator with the ability to define and configure custom roles with various access levels and privileges based upon user responsibilities.
- The system must provide remote access to stored data for analysis and reporting using a Zero Administration Smart Client. The Smart Client shall be freely deployed to any number of network PC's.
- The Smart Clients shall be able to be deployed on Microsoft Windows XP and Vista workstations. The vendor shall support Microsoft Windows 7 workstations by December 2009.
- The system shall allow the administrator to view users currently logged into the system and disconnect users as needed.
- The system shall allow selective tracking and auditing of user queries in order to prevent system abuse.
- The system must provide Quick Click reporting system statistics (reads, hits, etc) for a given timeframe, mobile unit, or officer login ID.
- The system must provide the ability to perform a full or partial license plate query against the databases.



PIPE
TECHNOLOGY

A Federal Signal Company

804 Innovation Drive
Knoxville, TN 37932 USA
Tel 865-392-5540
Fax 865-392-5599
info@pipstechnology.com

- The system must provide the ability to query for license plate data based upon time, date, user-defined location and the user.
- The system must provide the ability to query for a full or partial license plate based on a physical address and search radius.
- The system must provide the ability to utilize a mapping function to plot or identify the locations of a particular license plate or identify all plates captured in a particular area during a particular time.
- The system must provide the ability to utilize a mapping function to plot or identify the location of all selected "reads" or "hits."
- The system must provide the ability to cross-link license plate data from external systems, such as DMV records, for querying.
- The system shall be capable of allowing the user to combine results of multiple queries and present them in a single report.
- The system must allow for advanced mapping to include street, satellite, and birds-eye views.
- The system must provide multiple methods for downloading and uploading information between the vehicle and the back office application including USB thumb drive and wireless connectivity.
- The system must provide a server network environment to facilitate the sharing of data.
- The system shall support the ALPR Data Standardization efforts from the NIJ and the IACP (JDXML).
- The system shall use Microsoft SQL Server 2005 or later as its database engine.
- The back office system database shall have the capability to store a minimum 10 million plate reads simultaneously including images.
- The back office system shall be able to be installed on Microsoft Windows XP, Windows Server 2003 or Windows Server 2008 on both x86 and x64 platforms.
- The system shall allow for remote user setup and networking capabilities to facilitate querying and online, real-time data sharing between multiple instances of the back office system across agencies and jurisdictions.
- The system shall allow automated, real-time remote sharing of hotlists between multiple instances of the back office system.
- The client application for networked PC's must be a zero administration installation from a web page residing on the server.
- Data and images stored in the system must have the capability to be printed as determined by the System Administrator.
- An "Export to Excel" and "Print to .pdf" function must be provided within the application for reads, hits, and reports.
- The system must provide a method for automatically purging data at the device level, based upon the System Administrator's specifications.
- The system shall feature online help within the Smart Client application.
- The system shall allow for role-based access to individual reports.
- The system shall provide a standard e-mail template to be used for e-mail alert notifications, and shall allow customization of that e-mail template.
- The system shall allow for the automated and controlled deployment of a hotlist to any selection of Cameras or mobile systems.

- The system shall allow for the notification rules to be set for a specific hotlist, allowing the administrator to define which user groups with defined roles receive alert notifications from a given hotlist.
- The system shall allow for a hotlist to be marked as covert, such as gang members or organized crime. This allows for a hotlist to be matched against the hotlist in a vehicle with no officer notification or alert, unless that officer is on the defined notification list for that covert hotlist.
- The system shall allow for queries to be saved as favorites, to enable quick and easy access to a data set being used in an investigation.

General Requirements

- All hardware and software provided by the vendor must be covered under a one-year parts, material and labor warranty at no additional cost to the customer.
- The vendor must offer extended warranty/maintenance costs for both hardware and software for an additional three (3) years at the expiration of the first year of service.
- The vendor must have at least 17 years of proven experience in Automated License Plate Recognition technology and systems.
- The successful vendor must be financially stable, showing at least 5 years of profitable business in Automated License Plate Recognition.
- The vendor must have at least 50 years of experience in the Public Safety market.
- The vendor must have at least 17,000 ALPR Cameras in operation around the world.
- The vendor must have at least 100 customer accounts that have purchased the ALPR systems and are actively using the ALPR product and/or its components.
- The vendor must provide variants of the Optical Character Recognition (OCR) Engine that are tailored/designed for a specific country, state, or region.
- As part of the vendor's system maintenance agreement with the customer, Optical Character Recognition (OCR) updates and/or revisions must be provided as determined by the vendor to address changes in the state's license plates during the term of the maintenance agreement
- The system must have the capability to capture vehicle license plates at differential speeds up to 160 mph with license plate capture and read accuracy rates in excess of 90% for readable and lawfully installed license plates.
- The vendor must have scored above a 4.0 on the 5-point, United States DHS SAVER Mobile License Plate Recognition Systems Assessment Report dated October 2008.
- The system must provide effective license plate capture at night with no external lighting required.
- After issuance of the purchase order, all hardware and software must be delivered to the customer site within eight (8) weeks.
- The successful vendor must provide on-site system training for the system users and the System Administrator/s.
- The successful vendor must provide system installation and/or system installation oversight based upon the customer's requirements.
- All system documentation must be furnished in electronic format.



804 Innovation Drive
Knoxville, TN 37932 USA
Tel 865-392-5540
Fax 865-392-5599
info@pipstechnology.com

- The vendor must have the ability to provide ALPR Cameras for fixed site monitoring as well as installation services for these Cameras. These fixed site Cameras must be compatible with the same software solutions outlined in this bid specification for the mobile system, allowing for the data to be collected in a central location for all mobile and fixed cameras.

Standards and Testing Requirements

- The ALPR Cameras must meet "eye safe" certification standards, as established by an international testing agency.
- The ALPR Cameras must be sealed to IP67 Standards.
- The ALPR Cameras must meet BS EN 60068 2-27 requirements for Mechanical Shock.
- The ALPR Cameras must meet Mil. Std. 810F method 516.5, Procedure V requirements for Shock Crash Hazard.
- The ALPR Cameras must meet all the requirements set forth in:
 - Electrostatic Discharge (ESD), EN 61000-4-2 and
 - Radiated Emissions, FCC Part 15 and EN 55022



Mobile ALPR System, CUSTOMER SURVEY

This form is to be completed upon receipt of a purchase order from a customer as this information is required to order the correct mounting equipment for the ALPR system.

Sales Person: _____ Date Completed: _____
 Work: _____ Cell: _____ Email: _____

Reseller Information (if applicable)

Company Name: _____
 Contact Name: _____
 Work: _____ Cell: _____ Email: _____

Customer Contact for Installation Coordination

Customer Name: _____
 Vehicle Install Address: _____
 Contact Name: _____
 Work: _____ Cell: _____ Email: _____
 Software Install Address: _____
 Contact Name: _____
 Work: _____ Cell: _____ Email: _____

Customer Contact for IT Support & Administration

System Administrator: _____
 Work: _____ Cell: _____ Email: _____
 IT Support: _____
 Work: _____ Cell: _____ Email: _____

Installation Recommendation

- PIPS Installer
- Customer fleet service with PIPS supervision/commissioning
- Authorized Service Shop
- Customer fleet service with PIPS commissioning
(previous installation experience with PIPS required)

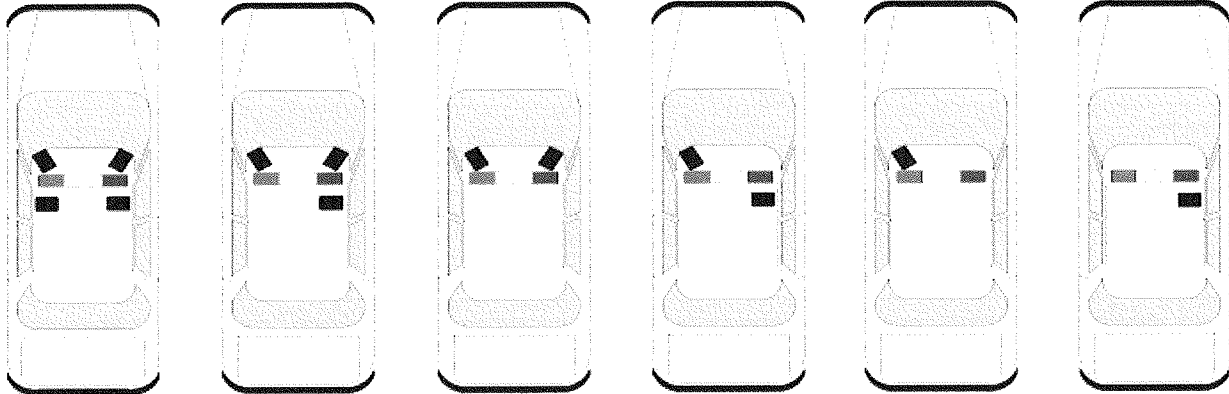
Notes: _____



PIPS TECHNOLOGY

A 3M company

Mobile ALPR System, CUSTOMER SURVEY



PIPS Mobile System Camera Configuration (check one)

- Platinum
 Gold
 Silver Highway
 Silver Parking
 Bronze Highway
 Bronze Parking

Customer Use Cases (check the use case configuration that applies)

Platinum Package

- Two Highway & Two Parking
- One Highway, One Street Parking & Two Side Parking
- Opt. Left Side Parking with Rear Facing Highway

Gold Package

- Two Highway & One Parking
- One Highway, One Street Parking & One Side Parking
- Opt. Left Side Highway Rear Facing

Silver Package

- Two Highway
- One Highway & One Street Parking
- One Highway & One Side Parking
- One Street Parking & One Side Parking
- Opt. Left Side Highway Rear Facing

Bronze Package

- One Highway
- Opt. Left Side Highway Rear Facing
- One Street Parking
- One Side Parking

Vehicle Details

Number of vehicles to be deployed: _____

Make, model and year of vehicle: _____

Light bar manufacturer and model: _____

If no light bar is available, what is the recommended mounting technique for the vehicle?

Is the vehicle equipped with factory installed Police Package? Yes No

Is vehicle equipped with a Charge Guard? Timer Set to _____ Yes No

Does the vehicle contain an equipment tray in trunk? Yes No

Is there enough space on tray to mount SuperX (12x16)? Yes No

Note: this section must be completed for each vehicle deployed if any of the noted details of the vehicle are deferent.



PAGIS Hardware Configuration

Standalone Configuration: Yes No

If Yes, PIPS monitor must be included as part of the quote

Client/Server Configuration: Yes No

MDC Make/Model: _____

Ethernet port must be available to use existing MDC in client/server architecture.

Has this been confirmed? Yes No

Notes: _____

BOSS Considerations

BOSS hardware provided by customer: Yes No

If Yes, provide the customer with the PIPS minimum specifications for a BOSS server

SQL Server 2005/2008 database engine to be provided by customer? Yes No

Note: BOSS 3.0 Currently only supports SQL Server 2005 & 2008

BOSS Virtual Mapping: Bing Maps (Recommended) Tiger Maps MS MapPoint

BOSS Licensing: Default Admin + Two 5 Users (Recommended) _____ Users

What type of hotlist databases will be used in BOSS? _____

Data Communication

Data transfer between BOSS and PAGIS will be accomplished by:

- USB Thumb Drive (*Must have available USB port on MDC*)
- Physical Ethernet Connection
- WiFi HotSpot
- Cellular Data Aircard Cellular Provider: _____
- Mesh Network



PAGIS Installation Notes:

PAGIS Client/Server Architecture:

To install PAGIS on the MDC, the PIPS technician will require temporary Windows Administrative Right for the MDC that must be provided by the agency's IT department.

MDC/MDT Minimum Requirements:

- 1.2 GHz AMD or Intel Processor with 1GB of Memory with 128MB available for PAGIS.
- Windows 7 (32bit or 64bit), Windows XP Pro with Service Pack 2 or later.
- Available 10/100 Ethernet Port and USB Port (1.1 or higher - 2.0 preferred).
- 15 GB available space on the hard drive.
- X VGA screen with minimum of 800x600 screen resolution. Touch screen preferred.

Ethernet Port on MDC:

You will need to have an available Ethernet port available on your MDC. We must be able to set the IP address of this port to (192.200.200.200). Hubs are not an option. If you do not have an available port, you will need to purchase a USB or PCMCIA adaptor that adds an Ethernet port to your MDC. Our ALPR system need full ownership of that port.

NetMotion:

If you are running NetMotion, you will need to apply these rules. Log into the NetMotion server as administrator. Click Settings, then Client. Click Global Client Settings, then select Passthrough List, Click the "Add..." button on the right, Select "Network Address" and enter the following settings (as shown): IP address: 192.200.200.0 (the zero is correct, it's an IP address "range") Subnet Mask: 255.255.255.0.

Keep all other settings default (as shown) and click OK. The MDC must disconnect from NetMotion and reconnect again for the settings to be applied locally.

Cisco VPN Client:

Make sure Stateful Firewall is unchecked.

Anti-Virus Applications:

Anti-Virus applications and or network filters such as Symantec may interfere with PAGIS operation.

PAGIS Connection to BOSS:

If using a USB Thumb Drive to transmit data between BOSS and PAGIS, the Thumb Drive must have a minimum of 256MB available space.

(Note: Thumb Drives using U3 technology are not supported)



BOSS Installation Notes:

BOSS System Requirements:

Minimum System Configuration

- Pentium compatible CPU at 1.5GHz
- Windows XP SP2 or later
- 512 MB of RAM
- 1 GB of hard drive space
- Microsoft SQL Server 2008 Express Edition

Recommended System Configuration

- Intel Xeon quad-core CPU at 2.0GHz
- Windows Server 2003 or 2008 Standard Edition
- 32 bit or 64 bit OS with 4GB RAM.
- SCSI or SAS hard drives at 10,000 RPM
- 1 GB of hard drive space per 50,000 reads stored
- Microsoft SQL Server 2005 / 2008 Standard Edition

Microsoft SQL Server:

Microsoft SQL server 2005/2008 is required to house the BOSS database. If no SQL is available, PIPS can provide a SQL license as a line item on the quotation.

(Note: PIPS can implement a free version of SQL Server Express Edition to customers with only one or two vehicle deployment and data storage requirements have a 10GB limitation).

BOSS Internet Connectivity:

BOSS requires an internet connection to utilize Microsoft's software licensing key activation and to access Bing Maps if selected for mapping option (Recommended).

(Note: if internet connection is not possible, email activation is possible)

BOSS Databases:

The customer is responsible for securing all hotlist databases of interest for use with BOSS. The user will need to make arrangements to secure access to the State version of the NCIC database or any other databases of interest prior to BOSS installation.

Firewall / Proxy Servers:

If using a firewall or Proxy Server, the IT department will need to configure these systems to allow BOSS communication to various components of the ALPR system. (See Below)

- BOSS Internet access to the Microsoft Bing Maps site, TCP port 80 (if using this option).
- BOSS Smart Client installations on workstations will need a open communication route to two TCP/IP ports on the BOSS Server (default 23032 & 32023)
- PAGIS 2.5x communication to BOSS if using WiFi or Cellular aircard must have open communication route to the BOSS Server TCP/IP port (default 8090).

Mental Checklist to cover with the Customers:


Discuss hit list database sources and customer responsibility to provide

Discuss the importance of appropriate size of server and database engine based on customer requirement for data mining

Cover warranty terms and quote extended maintenance as part of the inial quote

Discuss the analytical power of BOSS and the ability to data share

Discuss the benefit of both fixed and mobile ALPR solutions as an integrated program for maximum benefit



3M™ Mobile ALPR Camera Formerly known as “Slate”

Features:

- Dual camera sensors provide infrared license plate images and color vehicle overview images
- Proprietary “Triple-Flash” technology
- Compact, low-profile, weatherproof design with no moving components
- Multiple calibration options

Benefits:

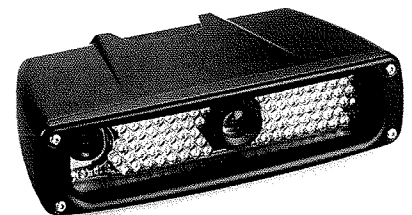
- Superior image quality and accurate performance
- Provides durability and longevity in on-street operating environments
- Sleek design helps to maintain light bar visibility
- Capable of capturing 60 fps
- IP67 compliant

Superior plate capture performance bundled in a compact, low profile design

Overview:

The 3M™ Mobile ALPR Camera is a dual camera that incorporates infrared illumination for effective license plate imaging and a color camera to provide a vehicle overview image. Using a proprietary technique, known internally as “Triple-flash” technology, this covert camera can effectively suppress ambient light such as headlights and bright sunlight. This helps to reduce the image quality differences caused by plate-to-plate quality variations.

3M Mobile ALPR Cameras are available in multiple calibrations. In conjunction with the placement on the vehicle, these cameras are designed to meet the specific needs of almost any agency.



- **Traffic Camera-** Primarily suited for adjacent lane traffic application. It is designed for longer-range traffic applications such as interstate and highway patrol. This camera is most often mounted on the patrol vehicle looking forward into each adjacent lane.
- **Short Traffic Camera-** Suited for urban deployments with slower moving city traffic and streets lined with parked vehicles. Also capable of reading across two lanes of traffic.
- **Parking Camera-** Serves a very unique application for dedicated parking patrols. This camera is most commonly mounted on the passenger side looking out 90 degrees from the patrol vehicle.
- **Long Parking Camera-** This camera is typically mounted on the driver side looking out 45 degrees from the patrol vehicle.

3M



3M™ License Plate Capture Software

Formerly known as "PAGIS"

Features:

- User-friendly and intuitive interface
- MDC/laptop or touch screen monitor integration
- Direction indicator to alert officer which camera captured the "hit"
- Monitoring of officer action taken — ie: pulled car over, arrested suspect, issued ticket, etc.
- User configurable audio and visual alarms
- Wirelessly transfer data to/from 3M Back Office System Software

Benefits:

- Officer Safety—providing officers with greater spatial awareness
- Reduction in profiling claims—the system compares each and every captured plate regardless of driver condition
- Discrete evidence collection—can be used to record digital images (like graffiti) for evidential purposes
- Data protection—uses data encryption to eliminate evidence tampering

The in-car software that makes high volume, accurate, license plate recognition possible

Overview:

In a mobile ALPR deployment, the 3M™ License Plate Capture Software provides the graphical user interface (GUI) and in-car software for feeding processed license plate images to the officer driving the vehicle. In real time, the software compares these images to plates found on federal or local hotlists. The field officer will be alerted at moment's notice when a match occurs. Officers may even prioritize hotlists to receive alerts accordingly.

The 3M License Plate Capture Software was designed to provide significant productivity and safety improvements as compared to traditional, manual license plate searches. While an officer patrols, the 3M License Plate Capture Software is consistently running in the background; checking each and every captured plate against one or more databases of interest. Each of the captured plates are automatically recorded and saved with the associated infrared plate image, corresponding OCR translation, color plate image, date and time stamp, GPS coordinate, and relevant data from hotlist (in the event of a hit). The search functionality in the 3M License Plate Capture Software allows officers to use the saved information and query data of interest against multiple search parameters such as time, date, full or partial plate, and/or location; or manually enter data for immediate use of new intelligence.





3M™ Mobile ALPR Processor

Formerly known as "SupeRex III"

Features:

- Intelligent power management with integrated surge protection
- Solid state drive
- Integrated GPS input
- Core2 Duo processor with four-channel frame grabber
- Proprietary hardware plate-finder technology designed to minimize the CPU processing
- Numerous OCR optimization options

Benefits:

- Added protection for use with other vehicle systems
- Reliable, long-term operation in on-street operating environments
- Powerful and efficient processing for up to four ALPR cameras
- Programmable vehicle timer allows quick "on" operation for up to one hour after ignition is "off"

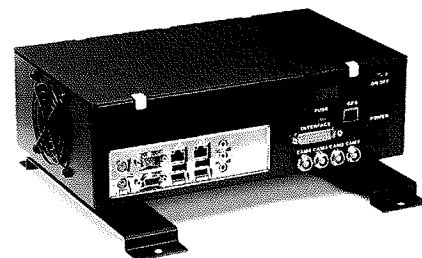
Powerful and efficient processing designed specifically for the vehicle environment

Overview:

The 3M™ Mobile ALPR Processor was engineered to simultaneously support up to four dual camera (color and infrared), 3M Mobile ALPR Cameras. It was designed specifically for on-street, law enforcement environments for the purpose of ALPR applications.

By utilizing a unique, "plate-finder" technology founded on the dimensions of a license plate, the 3M Mobile ALPR Processor can preprocess images sent from the vehicle's ALPR cameras. This lessens the load forced upon the CPU and built-in, customized Optical Character Recognition (OCR) software; inevitably increasing the number of accurate license plate reads in a given time frame.

A solid state drive equips the 3M Mobile ALPR Processor with added long-term operation reliability in on-street operating conditions and the automated shut-down feature with surge protection provides users with peace of mind, knowing that other vehicle systems have some protection against adverse affects.



3M™ Back Office System Software

Formerly known as "BOSS"

Features:

- Administrator defined access levels
- Seamless sharing of hotlists, reads, and alerts between agencies utilizing 3M Back Office System Software
- Remote notification via email or text messaging
- Custom alert sounds/notices can pass to mobile deployments
- Capable of processing immense hotlists and deploying them wirelessly to mobile devices
- User-friendly and intuitive interface
- Available in multiple languages

Benefits:

- Ease of administration
- Easy access to large amounts of historical and real-time data
- Data protection using data encryption
- Powerful investigative and analysis tool

The central repository for all license plate data along with tools to support data analysis, queries, and reporting

Overview:

The 3M™ Back Office System Software (3M software) organizes and archives the vast amount of data that mobile and/or fixed ALPR deployments collect. It allows users to search for suspects using basic parameters such as time, date, and plate number (full or partial). Additionally, investigators tracking or looking for a particular vehicle can search a chosen radius around a known address or map location that may be associated with that license plate.

In fixed site applications, license plate data is fed directly into the 3M Back Office System Software. The data is compared to any number of motor vehicle hotlists and if a match occurs; alerts are deployed wirelessly as authorized by the administrator of the system.

In mobile applications, hotlist comparisons are done using software in a moving vehicle. Hits identified in vehicle can be alerted simultaneously to the 3M Back Office System Software. Administrators can designate, based upon the severity of the matched database or hotlist, which alerts are announced to the 3M Back Office System Software.

