ROBERTO REVELES

AMERICAN CIVIL

FOUNDATION
OF ARIZONA
P.O. BOX 17148
PHOENIX, AZ 85011

P/602.650.1854

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WWW.ACLUAZ.ORG



July 30, 2012

Chandler Police Department Public Records 250 E. Chicago St. Chandler, AZ 85225

Re: Public Records Request / Automatic License Plate Readers

To Whom It May Concern:

This letter is a request under Arizona's Public Records Law, A.R.S. § 39-121 et seq., by the American Civil Liberties Union (ACLU) of Arizona. This request seeks records regarding automatic license plate readers (ALPRs). ALPRs are also sometimes referred to as Automatic Vehicle Identification, Car Plate Recognition or License Plate Recognition equipment and/or software. This records request uses ALPR in reference to any of this technology.

# Records Requested

Please provide copies of the following records created from January 1, 2006 to the present:

- 1. All records regarding your policies, practices and procedures for procuring and using ALPR technology, and for storing, accessing and sharing data obtained through ALPR technology;
- 2. All records regarding the procurement of ALPR technology, including
- a. sources of funds used to pay for ALPR technology;
- b. invoices for the purchase of ALPR technology;
- c. local government approval for any ALPR purchase;
- d. interactions with vendors, suppliers and potential suppliers of ALPR technology, including materials and fact sheets supplied by vendors describing their products;
- 3. All records regarding the use of ALPR technology, including
- a. what types of data are obtained;
- b. number of license plates scanned and/or read in a given time period (day, month, year, etc.);
- c. the number of ALPR units or systems acquired;

- d. the number of vehicles equipped with ALPR technology;
- e. for stationary deployments, the number and physical location of ALPR units;
- f. the technical capabilities of the ALPR units;
- 4. All records regarding the storage of data obtained using ALPR technology, including
- a. what types of data are stored for any period longer than an hour;
- b. how long data is stored;
- c. when data must be discarded;
- d. how many individual license plate scan records your agency currently stores;
- 5. All records regarding access to ALPR data, including
- a. the legal justification required before an individual accesses ALPR data;
- b. purposes for which the data may be accessed;
- c. purposes for which the data may not be accessed;
- d. who may access the data, what procedures they must go through to obtain access, and who must authorize access;
- e. the existence or non-existence of a system that records who accesses the data and when the data is accessed;
- 6. All records regarding the sharing of data obtained through ALPR technology, including
- a. what type of data is shared;
- b. which databases your agency puts collected ALPR data into;
- c. third parties, governmental or private, that may access your agency's ALPR data, including what procedures third parties must go through in order to access the data and any restrictions placed on third parties regarding further sharing of your ALPR data;
- d. any agreements to share ALPR data with outside agencies, corporations or other entities;
- 7. All records regarding obtaining ALPR data from third parties, including which databases your agency can access;
- 8. All training materials used to instruct members of your agency in ALPR deployment, data management, or operation of automated records systems that contain ALPR data to which any member of your agency has access, including regional or shared ALPR databases.

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OF ARIZONA

The ACLU of Arizona is a non-profit civil rights organization and these records are not sought for any commercial purpose. We therefore agree to reimburse you for reasonable costs associated with photocopying only. Ariz. Rev. Stat. § 39-121.01(D)(1); cf. Hanania v. City of Tucson, 128 Ariz. 135, 136, 624 P.2d 332, 333 (Ariz. Ct. App. 1980) (agency may not charge non-commercial requestors for costs associated with searching for records). If this amount will exceed \$50, please inform us of this promptly prior to incurring the costs. We reserve the right to designate some or all of the records for copying after onsite inspection. Please send us documents in electronic formats if at all possible.

AMERICAN CIVIL LIBERTIES UNION FOUNDATION OF ARIZONA

Arizona public records law carries with it a presumption that all records are "open to the public for inspection as public records." *Carlson v. Pima County*, 141 Ariz. 487, 490, 687 P.2d 1242 (1984). If this request is denied in whole or in part, please state the specific grounds for denial and provide us with the name and address of the person to whom an appeal may be directed. All severable portions of otherwise exempt material must be made available. Furthermore, we reserve the right to appeal your decision to withhold any information.

According to A.R.S. § 39-121(D)(1) and (E), a custodian of public records shall comply with a request promptly. Please provide these records as soon as possible, but no later than **Friday**, **August 31**, **2012**. If we do not hear from you by that time, we will deem the request denied.

Thank you for your prompt attention to this matter. Please furnish all applicable records to American Civil Liberties Union of Arizona, P.O. Box 17148 Phoenix, AZ 85011, attn: A. Bareiss. If you have any questions, please contact me or Program Associate Addy Bareiss at 602-650-1854.

Sincerely

Anjali Abraham

Public Policy Director

602-773-6009

1- See ALPR G.O, attached

2A

- 12 camera portable ALPR-AATA (Arizona Auto Theft Authority) grant
- 3 camera fixed ALPR-donated by NICB.
- 3 camera fixed ALPR, 1 server, 1 upgrade (NICB donated ALPR) to 4 camera system. JAG (Justice Assistance Grant) fund.
  - 2 internally fixed 3 camera ALPR. 1 time money expenditure.
  - 2B- See attached
  - 2C-Complied with the City of Chandler purchasing guidelines.
- 2D- All interaction with vendors and suppliers were done in person, by telephone, or through meetings and demos.
  - 3A- License plate characters, GPS data, color overview picture, and the location, date, and time.
  - 3B- Dependent of the use of the ALPR equipped vehicle.
  - 3C-7 ALPR total. 6 fixed and 1 portable unit.
  - 3D- There are 6 departmental units equipped with ALPR's.
  - 3E- 0, No stationary ALPR's are used.
  - 3F- Information listed below was provided from the PIPS website

#### **Overview Software Solutions**

PAGIS Law Enforcement Solution BOSS Law Enforcement Solution Mobile LPI License Plate Inventory System Travel Time Measurement System Fixed and Mobile Cameras

Slate Mobile ALPR cameraSpikeHD Fixed ALPR Camera (Model P382)Spike+ Fixed ALPR Camera (Model P372)ALPR Processors & Accessories

SuperRex III ProcessorComputers and Mobile Data TerminalsServicesPAGIS Law Enforcement Solution

PAGIS (Police ALPR Graphical Interface System) is a patrol-car based license plate recognition system improving officer safety and effectiveness. Using a system of up to four dual-lens Slate™ Mobile cameras mounted on the light bar, the system scans the surrounding area for license plates. The system

captures color images of each vehicle, as well as an infrared image of the plate, which is converted into a text file that is then checked against onboard databases of interest (stolen vehicles, wanted felons, AMBER alerts, etc) stored in the SupeRex processor. In the event of a "hit", an audible and visual alert notifies the officer.

- 4A- IR image of picture of license plate characters, GPS location, time and date.
- 4B-5 years
- 4C- After 5 years.
- 4D-362,485
- 5A- Criminal justice purposes only.
- 5B- Criminal justice purposes only.
- 5C- Non criminal justice purposes.
- 5D- Members of the auto theft unit are currently the only departmental members who have access to the database. Procedures- user name-password.
  - 5E- Exists within the vendor software.
  - 6A- Picture of license plate, color picture of back of vehicle, GPS coordinates, time/date stamp.
  - 6B-None.
  - 6C- The department does not release ALPR date to non-law enforcement agencies.
  - 6D- If requested, the department will release ALPR information to another L.E agency.
  - 7-NLVS-National vehicle locator search.
  - 8- There are currently no training materials used. All training is hands on training.





# CHANDLER POLICE DEPARTMENT GENERAL ORDERS

Serving with Courage, Pride, and Dedication

Order

# D-44 MOBILE LICENSE PLATE READER

Subject

Effective

100 Operations

04/08/08

A. POLICY

This order provides guidelines for the use of Mobile License Plate Reader (MLPR) as an investigative tool

#### **B. DEFINITIONS**

MOBILE LICENSE PLATE READER: A computerized system consisting of digital cameras, a processor unit and a laptop computer. The LPR can read and process license plates at a rate of one plate per second. The unit compares license plates with outstanding plates stored in a database. There are two types of LPR:

- 1. Portable unit can be moved from vehicle to vehicle
- 2 Fixed unit hard mounted to a marked patrol vehicle

# C. PROCEDURES

- CARE AND MAINTENANCE of Mobile License Plate Reader is the responsibility of the Auto Theft Unit who will:
  - a. Maintain the unit and all record keeping
  - b. Train any officer in the use of the LPR, prior to officer being authorized to utilize the equipment
- 2. DATABASE IS UPDATED using a text file ("hot list") supplied by the Department of Public Safety (DPS) and is manually updated twice a day

# D. OPERATIONAL USE

ALL ACTIVATIONS OF THE MOBILE LICENSE PLATE READER indicating an active stolen vehicle will be verified through MVD records check by using the patrol car's MDC or via communications prior to taking action. When responding to a MLPR stolen vehicle recovery, employees will:

- 1. Process the recovery of stolen vehicle
- 2. Complete all required reports and notifications (G.O. F-10.100)
- 3. Complete inventory of vehicle and any illegal contraband will be documented and impounded (G.O. E-13.200)

**\*** 

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A Federal Signal Company

	Windows 2003 OS and three year warranty from date of purchase.		
	Discount on server due to quantity purchase		(\$2,650)
1	<u>PIPS-SW-BOSS</u> : As a current partner, there is no charge for the BOSS upgrade for your organization. Upgrade to BOSS 3.0 with Admin And 6 user licenses to included BOSS Advanced Mapping/Bing Maps	No Charge	No Charge
	Freight per Unit	\$100	\$300
	TOTAL(Including Taxes)		\$47,750

STAIL TAX \$ 2657.20

# Scope of Work:

Our quote <u>includes</u> 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.

As a current partner, our quote <u>includes</u> No Cost Back Office Server Software (BOSS) to BOSS 3.0. BOSS can be installed on your existing PC or Laptop Computer. 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 office can be utilized for future PIPS mobile installations within your organization. It can also integrate with other Arizona-based 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.

This software has a 4GB storage limit. If your agency has a full license of Microsoft Sequel Server Software, BOSS will not have any storage limit.

All PIPS equipment hardware and software is covered by a one-year parts and labor warranty. Maintenance agreements are available for both our hardware and software products. These agreements supply you with upgrades and improvements to our Optical Character Resolution (OCR) engine for enhanced plate detection capabilities and software upgrades for BOSS and PAGIS in addition to all hardware sold by PIPS Technology, Inc. (cameras, processor, cables, connectors and/or touch screen monitor). The cost for this optional coverage is \$2,000 for the second year (after warranty expiration).

Please let me know if you require any other information. I can be reached directly at 602-363-7077 should you have any questions regarding the content of this quotation. We look forward to continuing our strong partnership with the Chandler Police Department.

Kindest regards,

Gíles Típsword

Giles Tipsword Sales Manager Arizona / New Mexico / Colorado / Utah / Nevada PIPS Technology / Federal Signal Corporation Regulsition: 100236

DATE: 01/410.



100736 SOBOS 2/23/10

Commander Eddle Upshaw Chandler Police Department PO Box 4008 MS 303 Chandler, AZ 85244 December 8, 2009

REF: Three Mobile Law Enforcement License Plate Recognition (ALPR) 3-Camera System with "PAGIS" and electronic chalking

Commander Upshaw,

Thank you for the opportunity to quote our Mobile Law Enforcement Automated License Plate Recognition (ALPR) System referred to as PAGIS. PIPS Technology has been the industry leader in ALPR systems worldwide for over 17 years. We have more than 17,000 cameras currently in operation in 33 countries around the world. When considering an ALPR vendor I hope you will take into consideration the following key points about our company:

- our only market focus is specializing in Automated License Plate Recognition technologies
- As an Original Equipment Manufacturer, we design, manufacture, and develop our own hardware and software – we control the quality and support of our products from start to finish
- PIPS offers an ALPR "back-end" analysis software package (Back Office Server Software: BOSS) that provides data-mining of "historic" license plate information obtained and stored from all deployed mobile (and fixed) systems from within your department which can be integrated with other PAGIS / BOSS users to shafe and data mine their historic plate information
- We have established sales and support offices in California, Illinois and Tennessee

I am pleased to provide you with the following pricing for three three-camera new "low profile" ALPR system "hard" mounted and integrated into your existing MDC system in your patrol vehicles.

Qty	DESCRIPTION	Each	Extended
3	Siate-810-LE-G: Police ALPR PAGIS unit to include: three Slate dual lens cameras with infrared and color overview; all custom camera cabling; PIPS ALPR processor-trunk mounted; GPS module; all required PAGIS and ALPR software installed on the processor for the State of Arizona stolen vehicle license database (NCIC). Custom flat camera brackets for use on the patrol vehicle of your choice	\$15,500	\$46,500
	Discount provided for quantity purchase		(\$4,650)
1	<u>PIPS-SW-BOSS</u> : As a current partner, there is no charge for the BOSS upgrade for your organization. Upgrade to BOSS 3:0 with Admin And 6 user licenses to included BOSS Advanced Mapping/Bing Maps	No Charge	No Charge
3	PIPS-SRVC-FLDENGR Installation (patrol car only) and training.	\$2,000	\$6,000
	Discount provided for quantity installation. Installations to occur at the same time		(\$3,000)
1	BOSS LPR Server: Rack server hardware platforth for use with BOSS Back Office Software for data storage, application functionality and data sharing. Server elements include Quad Core 2 GHz processor with 4 GB memory, 750 GB hard drive with	\$5,250	\$5,250



Α	Federal	Signal	Company	

	Windows 2003 OS and three year warranty from date of purchase.		
	Discount on server due to quantity purchase		(\$2,650)
1	PIPS-SW-BOSS: As a current partner, there is no charge for the BOSS upgrade for your organization. Upgrade to BOSS 3.0 with Admin And 6 user licenses to included BOSS Advanced Mapping/Bing Maps	No Charge	No Charge
	Freight per Unit	\$100	\$300
	TOTAL(Including Taxes)		\$47,750

#### Scope of Work:

Our quote <u>includes</u> 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.

As a current partner, our quote <u>includes</u> No Cost Back Office Server Software (BOSS) to BOSS 3.0. BOSS can be installed on your existing PC or Laptop Computer. 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 office can be utilized for future PIPS mobile installations within your organization. It can also integrate with other Arizona-based 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.

This software has a 4GB storage limit. If your agency has a full license of Microsoft Sequel Server Software, BOSS will not have any storage limit.

All PIPS equipment hardware and software is covered by a one-year parts and labor warranty. Maintenance agreements are available for both our hardware and software products. These agreements supply you with upgrades and improvements to our Optical Character Resolution (OCR) engine for enhanced plate detection capabilities and software upgrades for BOSS and PAGIS in addition to all hardware sold by PIPS Technology, Inc. (cameras, processor, cables, connectors and/or touch screen monitor). The cost for this optional coverage is \$2,000 for the second year (after warranty expiration).

Please let me know if you require any other information. I can be reached directly at 602-363-7077 should you have any questions regarding the content of this quotation. We look forward to continuing our strong partnership with the Chandler Police Department.

Kindest regards,

# Gíles Típsword

Giles Tipsword
Sales Manager
Arizona / New Mexico / Colorado / Utah / Nevada
PIPS Technology / Federal Signal Corporation

PRODUCTION DB Alert: PO# 500305 has been created from Requisition 100236

Jose Molina

to:

Chris Keipert 02/25/2010 08:17 AM

Cc:

Nicole Potter Show Details

Here's your PO#. When your item comes in can you provide Niki with the Invoice.

Thanks,

Joey

---- Forwarded by Jose Molina/COC on 02/25/2010 08:14.AM ----

From:

City of Chandler <oaprodin@chandleraz.gov>

To:

<jose.molina@chandleraz.gov>

Date:

02/24/2010 01:00 PM

Subject:

PRODUCTION DB Alert: PO# 500305 has been created from Reguisition 100236

Alert: PO# 500305 has been created from Requisition 100236 Requisition Header Description: PIPS TECH/LICENSE PLATE READERS/SOFTWARE-HARDWARE/ACCT5321

01/14

PAGE

# **MEMORANDUM**

**DATE:** July 1, 2009

TO: Commander Upshaw

FROM: Detective Cargill

CC: Lieutenant Kelly, Sergeant Houser

4807824444

RE: License Plate Reader (LPR) expansion project

# CURRENT LEGACY SYSTEMS

The Chandler Police Department currently maintains two (2) LPR systems from Federal Signal (formerly PIPS Technology). One system is a hard mount patrol system that is on loan from the National Insurance Crime Bureau (NICB). The other LPR is a portable system that was bought on a grant from the Arizona Automobile Theft Authority (AATA). The grant expired on June 30th, 2008, however reporting requirements to the AATA are for a five (5) year dutation. The portable LPR is maintained in CIB. The following challenges will outline the challenges with the current legacy systems.

The loaner LPR from NICB did not include a service agreement and any upgrades to the system software are the responsibility of the receiving agency. The portable LPR was purchased with upgraded software and is now several generations of upgrades ahead of the NICB LPR. The result is the two systems cannot "Talk" to each other. The current configuration of the systems requires that the user must download information onto a thumb drive and then upload that information into the LPR. This must be accomplished every time the LPR is used in order to have current information in the system. The result is that anything the user manually inputs into the LPR (ATL's, BOLO's etc) is deleted at the end of each shift.

#### <u>LPR PROGRAM EXPANSION REQUIREMENTS GIVEN TO EACH VENDOR</u>

Each vendor were given the following requirements:

- Three (3) systems that are configured for patrol uses, with four (4) cameras on each system.
- One (1) undercover system that may be mounted in an unmarked vehicle and used for covert investigations.
- Back office capabilities that allow for wireless updates.
- A warrantee and service package,

The three vendors that were chosen to provide presentations on their respective LPR products were Federal Signal (formerly PIPS Technology), ELSAG North America (formerly Remington), and Vigilant Video. These three vendors are representative of most of the LPR systems used in Arizona.

# **EVALUATION CRITERIA**

A committee of the following people was formed to evaluate each vendor's product:

Lieutenant M. Kelly

Sergeant K. Houser

Detective C. Cargill

Detective N. Duncan

Detective A. Wegener

Detective C. Kush

Detective D. Bugallo

The following criteria was used in evaluating each vendor's product:

# Cameras/Optics

- Percentage of accuracy for reads/misreads
- · Ability to read in different environmental conditions
- Size of the cameras ability to meld with current patrol vehicle configurations

# **Back Office Capability**

- Wireless upload/download
- Search capabilities
- Information sharing
- Unique local requirements (ATL's, Warrants, BOLO's etc)
- · Ease of use

#### Warrantee/Licensing

#### FEDERAL SIGNAL (Formerly PIPS Technology)

#### Cameras/Optics

Federal Signal recommended each system to have two (2) forward facing cameras and two (2) side facing cameras as being the optimum use of their system. The side cameras capture parking lots and the forward cameras capture plates to the front. Federal Signal does not have the capability for a rear-facing camera to capture plates in the opposite lanes of travel. The cameras use Infra Red technology and each camera is a self-contained unit.

Federal Signal touts a 95% accuracy rating and the accuracy is not diminished at night, raining, sand storm, etc. The cameras to date do not read symbols and apply the prefixes that are common on Arizona plates, for example Handicapped symbol =WC prefix. There are over 150 different plates in Arizona with unique prefixes. Federal Signal is very responsive to looking at our stored reads and adjusting their software to read different plates.

An evaluation of the accuracy of the optics was completed. The Federal Signal LPR had a 91% accuracy rate.

The size of the cameras is smaller than other vendors and lends itself to a patrol configuration. Their next generation of camera (which was quoted on their bid) is smaller still. This would allow the cameras to be mounted under the light bars of patrol vehicles and easily concealed on an undercover vehicle.

# Back Office capability

Federal Signal boasts that their Back Office is the strength of their system. Each plate read is captured in a color photograph with the GPS coordinates of the read. In the future there will be a mapping program, however, that is not currently fielded. The Back Office does allow for reports to be run and usage for each LPR can be checked. The search function allows for a partial plate search. For example, a 211 occurred and a witness caught a partial plate of "AX" for a white Impala. The search function will bring up every read that has "AX" in the plate with a photograph and GPS coordinates of the vehicle. A challenge to the system is that to gain information, the user must go to a single "mother" computer.

The Federal Signal Back Office allows for a wireless upload/download if a hot point is established. Netware is the wireless software used, which is currently employed by the Chandler Police Department.

Federal Signal does not have an information sharing process in place. An agency will be required to host the information and allow other agency users to gain access. To date there is no host agency in the metro Phoenix area.

Federal Signal does allow for manual entry into the deployed LPR systems. ATL's, BOLO's, Amber Alerts can be entered by the user, however, once the system has been downloaded at the end of shift, the information needs to be entered again.

The Federal Signal system is fairly easy to use. The LPR runs in the background of a standard MDC and only comes to the foreground when a hit is received. The display shows both forward cameras as independent displays. To see the side cameras, the user must manually switch to that screen. A variety of alert tones are available to signify different hits.

## Warrantee/Licensing

The first year is covered with the purchase of the equipment and each additional year is \$2,000.00. A drawback is that the service technicians are located in California; however, they are very forthcoming over the phone.

Federal Signal does require the purchase of licenses to use the Back Office. They will provide us with 5-10 licenses for individual users based on the purchase. Additional licenses would need to be purchased separately. This does diminish some of the Back Office capabilities should a licensed user be unavailable.

The Federal Signal quote is \$85,400.00 based on the requested criteria and is an attachment to this memorandum.

## ELSAG NORTH AMERICA (Formerly Remington)

# Cameras/Optics

ELSAG North America recommended that the Chandler Police Department deploy a three (3) camera system for the patrol units. Two (2) forward facing cameras that have enough breadth that they will capture parking lot plates. They recommend a rear-facing camera to capture plates in the opposite travels lanes. ELSAG is the only vender that offers a rear-facing camera, which exponentially increases the effectiveness of each system. They say that each camera is capable of covering three lanes of traffic, however, two lanes of traffic is more realistic. ELSAG also uses Infra Red technology and each camera is a self-contained unit.

ELSAG says their accuracy rate is 90-94% and the optics is not affected by nighttime hours or inclement weather. Like Federal Signal, ELSAG is not currently able to read the symbols on Arizona plates and apply the appropriate prefix.

ELSAG was unable to provide a demo unit to test the accuracy rate.

The size of the cameras is large and cumbersome, however, the cameras do have a greater field of view, which negates their size. ELSAG is currently fielding a next generation of camera that is considerably smaller with the same capabilities. Their quote is for the deployment of the smaller cameras. The smaller cameras would not interfere with the function of a patrol light bar and could be easily concealed on a covert vehicle.

#### Back Office capability

ELSAG also boasts that their Back Office is the strength of their system. Each plate is captured as a black and white image, and Infra Red image. The GPS coordinates of the read are captured and stored as well as a pin mapped local mapping program. The search function allows for free text searching on partial plates. Additionally, the mapping program will pin map everywhere that plate has been read (multiple reads) on one map.

The search function also allows for the user to check for combinations, i.e. one vehicle that consistently is read following another vehicle. The search functions of the ELSAG system are far superior in its capability than any other vender. Another benefit is that the user may access the information from anywhere (covered in greater depth in the Warrantee/Licensing section).

ELSAG is wireless compatible with a hot point that needs to be established in strategic areas. The vendor has not provided the information on the wireless driver to date.

The ELSAG Back Office is integrated with COPLINK, thus, the process for information sharing with other agencies is already in place. This will also give the users access to other agency information when searching for information.

The ELSAG Back Office is uncomplicated and easy to navigate. All cameras are displayed on the same screen with the display switching from camera to camera depending on which camera is reading plates. The performance of each camera can easily be checked and adjusted if needed.

## Warrantce/Licensing

The ELSAG warrantee is all-inclusive for the first year and 5% of the purchase price for every subsequent year.

ELSAG has no licensing issues. Their philosophy is that we bought it so we own it. This product could be fielded to every desk top within the network. A possible scenario is that the communications section could enter ATL's into the LPR's as they receive the information.

## \*\*IMPORTANT NOTE\*\*

ELSAG North America understands that we currently have Federal Signal as our legacy system. They have offered to replace our current portable unit with an ELSAG unit at no additional cost if a decision is made by March 15, 2009.

The ELSAG North America quote is \$101,725.00 based on our criteria and is attached to this memorandum.

#### **VIGILANT VIDEO**

#### Cameras/Optics

Vigilant Video recommends that the optimum configuration for their optics is a four (4) camera system on each vehicle. Two (2) forward facing, one (1) side scan, and one (1) rear facing for opposing traffic. Vigilant claims that the combine contact speed for the rear-facing camera is in excess of 120 MPH, which would be more than adequate for patrol vehicles operating within the city.

The cameras use Infra Red technology and each camera is a self-contained unit. Vigilant guarantees and accuracy rate of more than 90%. An accuracy test was completed and the Vigilant system was 89% accurate on it's reads.

The cameras themselves are small enough that they can be mounted on the light bar for a patrol configuration.

# Back Office capability

The Vigilant system back officer capability is very robust and easy to navigate. The system is web based thus reducing the storage capacity requirements. The Vigilant system does everything the Federal Signal and ELSAG systems do, so I will focus on the unique capabilities.

The back office may be loaded onto all desktops within the department. All officers can use the search function within the system, which will provide a color photograph of the vehicle along with a map of where the plate was read. Additionally, the mapping program will show everywhere that particular plate has been read if there are multiple reads.

The Vigilant system does lend itself to wireless uploads and downloads. The system maybe used with hot points and the upload/download will be automatic when a vehicle is within range of the hot point. The system can also be used with air cards, which would provide continuous upload/download functions.

The Vigilant allows for manual entries from any desktop (i.e. communications could enter a vehicle that is wanted in connection with a domestic dispute). This does allow for enhanced investigations as BOLO's, ATL's, AMBER ALERTS etc may be efficiently sent to every LPR vehicle.

The Vigilant system does allow for data sharing through COPLINK.

#### Warrantee/Licensing

There are no licensing issues with the Vigilant system. We may have unlimited users that can all be on the system at the same time.

Technical support is local and available 24/7.

The Vigilant Video quote is for \$75,835.00. Inclusive within the quote is four (4) LPR systems and each system will be a four (4) camera configuration. Additionally, Vigilant will replace our current Federal Signal LPR at no cost to the department.

# **ATTACHMENTS**

Federal Signal quote ELSAG North America quote Vigilant Video quote

USE.

JAG: Award Date: Expiration Date: Award Amount (217):

Interest Income\* as of 6-30-10
Total Grant Amount:

Project:

2008 October 1, 2007 September 30, 2011 \$ 30,295.00

\$ 330.07 \$ 30,625.07 PD2204

<u>Item</u> 0	Items Purchased	Related Info	Supplier	Encumbered Amount	Encumbered Date	Actual Expense Amount	Remaining Amount	<u>Grant</u> <u>Balance</u> 30,625.07
1	Cameras/DVR/ Microphones for bait vehicle	Req 94401 (po 155733)	Supercircuits	\$ 3,313.48	3/16/09	\$ 3,139.84	\$0.00	,
2	Portable Alarm systems	Req 95757 (PO 156656)	Lookout Portable Security/Intellitech	\$4,656.96	5/29/09	\$ 4,653.60	\$0.00 \$	22,831.63
3	HD for bait vehicle	cc - Robinson	Fry's	\$259.41	6/30/09	\$ 259.41	\$0.00 \$	22,572.22
4	Timer Kit for bait vehicle	cc - Robinson	Circuit Specialists	\$39.38	6/30/09	\$ 39.38	\$0.00 \$	22,532.84
5	SMART boards and Bridgit s/w	Req 96848 (PO 158046)	CCS Presentation Systems	\$10,100.67	8/13/09	\$ 10,100.67	\$0.00 \$	12,432.17
7	Dash mat for bait vehicle	cc - Robinson	Napa Auto Parts	\$37.72	11/1/09	\$ 37.72	\$0.00 \$	10,944.45
6	GPS and Bait Tracker systems and airtime	Req 96837 and 98526 (PO 157788)	GPS Intel LLC	\$1,450.00	7/28/09	\$ 1,450.00	\$0.00 \$	10,982.17
8	cameras for bait vehicle	cc - Robinson	Security Cameras Direct	\$694.00	1/15/10	\$ 731.52	\$0.00 \$	10,212.93
9	LPR server	Req 100236 (PO 500305)	PIPS Technology	\$5,600.00	2/23/10 and 3/9/10	\$ (5,600.00	\$ 0.00 \$	4,612.93
10 11 12	Tax on line 6	PO 157788	GPS Intel LLC	\$19.88	4/1/10	\$ 19.88	\$0.00 \$ \$0.00 \$ \$0.00 \$	4,593.05

Items Originally Requested (2008):	 	1				
	 Budget	<u> </u>	rdered/Paid	status	_ <u>F</u>	Remaining
Smart Boards for each station - for Fi	\$ 9,999	\$	10,100.67	paid	\$	(101.67)
Web-based server for License Plate	\$ 10,000	\$	5,600.00	pending	\$	4,400.00
Criminal Investigations Equipment - E	\$ 10,296	\$	10,331.35	paid	\$	(35.35)
	\$ 30,295.00	\$	26,032.02		\$	4,262.98
Interest Income-covers overage	\$ 330.07	\$	-	n/a	\$	330.07
-	\$ 30,625.07	\$	_		(	\$4,593.05
					'	

\$4,650 217.2040.0,5xxx.PD2204 Verify on EPLS

JAG:

2009 ARRA

Investigative Equipment

Award Date: **Expiration Date:**  March 1, 2009 February 28, 2013 \$ 93,410.00

Award Amount (217): Interest Income\* as of 6-30-10 \$

534.21

**Total Grant Amount:** 

\$ 93,944.21

Project:

PD2107

Chan01

				=	ncumbered	Encumbered	Actual	Remaining		Grant
Item	Items Purchased	Related Info	Supplier		Amount	<u>Date</u>	Expense Amount	Amount		Balance
0								7 10.112 10.11	\$	93,944.21
1	Night vision sets	Req 99679 (PO 159474)	Nivisys	\$	6,940.02	12/21/09	\$ 6,940.02	\$0.00	\$	87,004.19
2	Radios	Req 100206 (PO 500102 and 500359)	Motorola	\$	39,969.36	1/28/10	\$ 40,000.00	\$0.00	\$	47,004.19
3	Drag Factor system	Req 99842 (PO 159599)	Vericom	\$	4,061.68	1/6/10	\$ 4,027.52	\$0.00	\$	42,976.67
4	Auto Data Recovery reader	Req 99844 (PO 159609)	I Got Hit	\$	6,409.03	1/6/10	\$ 6,343.96	\$0.00	\$	36,632.71
5	K9 GPS units	cc - Bacon	Best Buy	\$	700.65	2/1/10	\$ 700.65	\$0.00	\$	35,932.06
6	License Plate	Req 100236	PIPS	\$	22,246.80	2/23/10 and	\$ 21,075.00	\$0.00	\$	14,857.06
-	Reader	(PO 500305)	0.00		F00.00	3/9/10	<b>500.00</b>	***	•	4400447
7	Laptop	cc - Roeper	Officemax	\$	592.89	3/19/10	592.89	\$0.00	•	14,264.17
8	Microsoft Office for laptop	cc - Roeper	Ultimate Steal	\$	78.90	3/19/10	\$ 82.99	\$0.00	\$	14,181.18
9	Norton virus s/w for laptop	cc - Roeper	Walmart	\$	56.85	5/12/10	\$ 56.85	\$0.00	\$	14,124.33
10	K9 Vests	cc - Armentrout	ProForce Law Enforcement	\$	3,844.50	6/30/10	\$ 3,844.50	\$0.00	\$	10,279.83
11	Garmin map update	CC - Bacon	Garmin	\$	98.36	8/19/10	\$ 98.36	\$0.00	\$	10,181.47
12								\$0.00	\$	10,181.47
13								\$0.00	•	10,181.47
14								\$0.00	-	10,181.47

Items Originally Requested:			1					
	_	Budget		<u>O</u>	rdered/Paid	status	<u>R</u>	<u>temaining</u>
License Plate Readers - 1.5	\$	22,000	Equipment	\$	21,075.00	pending	\$ (	925.00
Radios - portable (outright purchas	\$	40,000	Equipment	\$	40,000.00	pending	\$	
Motors - Auto Data Recovery read	\$	6,050	Equipment	\$	6,343.96		\$	(293.60)
Motors - two laptops/aircards for c	\$	4,660	Supplies	\$	732.73	paid/pending	\$	3,927.27
Motors - Vericom Drag Factor syst	\$	4,000	Supplies	\$	4,027.52	paid	\$	(27.52)
K9 vests	\$	5,500.00	Supplies	\$	3,844.50		\$	1,655.50
K9 - 3 night vision sets	\$	9,177.00	Supplies	\$	6,940.02	paid	\$	2,236.98
K9 vehicle GPS units	\$	1,500.00	Supplies	\$	799.01	paid	\$	700.99
K9 vehicle interdiction tool kits	\$	523.00	Supplies				\$	523.00
	\$	93,410.00		\$	83,762.74		\$	9,647.26
Interest Income-covers overage	\$	534.21		\$	-	n/a	\$	534.21
- •	\$	93,944.21		\$	-		\$	10,181.47

\$1,000 217.2040,0.5xxx. PD2107

<u>G</u>

Verify on EPLS

JAG:

2009

Investigative Equipment

**Award Date: Expiration Date:**  October 1, 2008 September 30, 2012

Award Amount (217): Interest Income\* as of 6-30-10

\$ 69,830.00 277.33 \$

217.2010.5xxx.PD2114

<u>G(</u>

**Total Grant Amount:** Project:

\$ 70,107.33

PD2114 09JAG Chan03

#
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<u>Item</u> 0	Items Purchased	Related Info	Supplier	Ē	ncumbered Amount	Encumbered Date	Actual Expense Amount	Remaining Amount	\$	Grant Balance 70,107.33
1	Radio for spare motorcycle	Req 99691 (PO 159545)	Motorola	\$	5,330.30	12/29/09	\$ 5,305.96	\$24.34	•	64,777.03
2	GPS units for bikes - 10	Req 99850 (PO 159576)	Giobal Bikes	\$	5,250.00	1/5/10	\$ 5,390.00	\$0.00	\$	59,387.03
3	DVD external drives	cc - Graham	Tigerdirect.com	\$	1,644.72	1/6/10 and 1/15/10	\$ 1,730.95	\$0.00	\$	57,656.08
4	Digital cameras	Req 100097 (PO 159622)	Penn Camera	\$	2,760.16	1/8/10	\$ 2,760.16	\$0.00	\$	54,895.92
5	GPS units for Prop Crimes - 8	cc - Benjamin	Sams Club	\$	1,118.88	1/5/10	\$ 1,118.88	\$0.00	\$	53,777.04
6	Truck Shell	Req 100093 (PO 159635)	AZ State Trailer	\$	3,107.41	1/11/10	\$ 3,107.41	\$0.00	\$	50,669.63
7	GPS units for CAU - 5	cc - Durham	Sams Club	\$	702.54	1/6/10	\$ 702.54	\$0.00	\$	49,967.09
8	GPS Tracking Device	Req 100216 (PO 500097)	GPS Intel	\$	7,066.95	1/28/10	\$ 7,066.95	\$0.00	\$	37,608,51
9	CAU Lights	Req 100826 (PO 500426)	First In	\$	5,388.14	3/8/10	\$ 5,291.63	\$0.00	\$	44,675.46
10	License Plate Reader	Req 100236 (PO 500305)	PIPS	\$	22,246.80	2/23/10 and 3/9/10	\$ 21,075.00	\$0.00	\$	16,533.51
11		(						\$0.00	\$	16,533.51
12								\$0.00	•	16,533.51
13								\$0.00		16,533.51
14								\$0.00	-	16,533,51
15								•	\$	16,533.51

Items Originally Requested:	Budget		Q	dered/Paid	status	B	emaining	
Portable radio for spare motorcycle	\$ 6,500	Equipment	\$	5,330.30	paid	\$.	1,169.70	
License Plate Reader	\$ 25,000	Equipment	\$	21,075.00	pending	\$	3,925.00	
Portable GPS units for Bicycle Team	\$ 5,390	Other	\$	5,390.00	paid	\$	way to prove the second of the	
Digital cameras for Persons Crimes	\$ 2,760	Other	\$	2,760.16	pending	\$	(0.16)	
External DVD/CDRom drives for dete	\$ 1,731	Other	\$	1,730.95		\$	0.05	
Workmate service shell for CIB/SAU	\$ 3,107	Other	\$	3,107.41	paid	\$	(0.41)	
Telestaff Server	\$ 10,000	Equipment			•	\$	00.000,01	
CAU Vehicle lights (CIB)	\$ 5,292	Other	\$	5,291.63		\$	0.37	
CAU/Prop Crimes Vehicle GPS Units	\$ 1,822.00	Other	\$	1,821.42		\$	0.58	
GPS Tracking Devices	\$ 8,228.00	Other	\$	7,066.95		\$	1,161.05	
	\$ 69,830.00		\$	53,573.82		\$	16,256.18	
Interest Income-covers overage	\$ 277.33		\$	<del>-</del>	n/a	\$	277.33	
_	\$ 70,107.33		\$	53,573,82		\$	16,533.51	

Use whatever amount is left 217.2040.0.5xxx.PD2114



# FEDERAL SIGNAL CORP. Advancing Security and Well-being

PIPS Technology 804 Innovation Drive Knoxville, TN 37932-2562 INVOICE

Send Payments To: PIPS Technology Inc. C/O Bank of America 15027 Collection Center Drive Chicago, IL 60693

WIRE TRANSFERS to: Bank of America Chicago, IL Acet No. 1233062483 ABA No. 0260-0959-3

Billing/Credit Inquiry: (865)-392-5540

Fax: (865)-392-5599

Invoice No.

7341

SHIPPER: 6253

Cust Fax:

Page 1

06-11-10 Invoice Date

Our Order No. 3829

SOLD TO: 1029

CHANDLER, CITY OF

ATTN: ACCOUNTS PAYABLE

PO BOX 4008

CHANDLER, AZ 85244-4008

SHIP TO: CHANDLER, CITY OF POLICE CRIMINAL INVEST. 250 E. CHICAGO ST. CHANDLER, AZ 85225 USA

MARKS: 480-782-2400

REP: 39

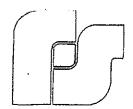
REGION: 6

CUSTOMER'S ORDER NO. BILL TO NO. TERMS SHIPPED VIA & TRACKING # DATE SHIPPED FED-X GRND 500305 0.00/0/30 06-11-10

NO. ORDERED BACK ORD. SHIPPED PART NUMBER / DESCRIPTION JUNE PRICE  1 1 0 1 INSTALLTRAIN 3000.00 SYSTEM INSTALL OR TRAIN			<del></del>	MS: Prepay and Bill	KNOXVILLE FREIGHT TER		<u> </u>	Charge Cod CC2406	· (2)	1029
SYSTEM INSTALL OR TRAIN	TOTAL AMOUNT	A	UNIT PRICE				QUAN. SHIPPED	000000000000000000000000000000000000000	4 0000000000000000000000000000000000000	ITEM NO.
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- 7109 - INVOICE TOTAL	\$ 3,000.00	\$		INVOICE TOTAL	- /109 -					

Form Revised April 13th 2009





# FEDERAL SIGNAL CORP. Advancing Security and Well-being

SHIPPER: 5902

PIPS Technology 804 Innovation Drive Knoxville, TN 37932-2562

# INVOICE

Send Payments To: PIPS Technology Inc C/O Bank of America 15027 Collection Center Drive Chicago, IL 60693

WIRE TRANSFERS to: Bank of America Chicago, IL Acct No. 1233062483 ABA No. 0260-0959-3

Billing/Credit Inquiry: (865)-392-5540

Fax: (865)-392-5599

Invoice No. 7061

Invoice Date 03-24-10

Our Order No. 3829

SOLD TO: 1029

CHANDLER, CITY OF

ATTN: ACCOUNTS PAYABLE

PO BOX 4008

CHANDLER, AZ 85244-4008

Cust Fax:

Page 1

SHIP TO:

CHANDLER, CITY OF POLICE CRIMINAL INVEST. 250 E. CHICAGO ST. CHANDLER, AZ 85225

USA

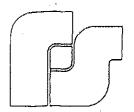
REGION:

REP: 6 BILL TO NO. TERMS CUSTOMER'S ORDER NO. SHIPPED VIA & TRACKING # DATE SHIPPED FED-X GRND 179569210028147 500305 0.00/0/30 03-24-10 Charge Code KNOXVILLE FREIGHT TERMS: Prepay and Bill 1029 CC2406

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ITEM NO.	QUAN. ORDERED	QUAN: BACK ORD.	OUAN. SHIPPED	PART NUMBER / DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
1	3	0	3	L33CPSV LAW ENFORCE 3-CAMERA ALPR	13950.00	41,850.00
2	3	0	3	AP523000000001 CAMERA MOUNT SYSTEM, 3CAM	0.00	0.00
3	.1	0	1	AV06BOSS05USER BOSS BLOCK OF 5	0.00	0.00
4	1	0	1	BOSSSERVER HARDWARE PLATFORM	2600.00	2,600,00
5 3		0 3		FREIGHT SHIPPING COST	100.00	300.00
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				SUB-TOTAL		44,750.00
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\$ 44,750,00

-7110 - INVOICE TOTAL



INVOICE FEDERAL SIGNAL CORP. Advancing Security and Well-being

SHIPPER: 6253

Send Payments To: PIPS Technology Inc CiO Bank of America 15027 Collection Center Drive Chicago, IL 60693

WIRE TRANSFERS to: Bank of America Chicago, IL Acct No. 1233062483 ABA No. 0260-0959-3

Page 1

Billing/Credit Inquiry: (865)-392-5540

Fax: (865)-392-5599

Invoice No. 7341

Invoice Date

06-11-10

Our Order No. 3829

SOLD TO: 1029

CHANDLER, CITY OF

ATTN: ACCOUNTS PAYABLE

PIPS Technology

804 Innovation Drive

Knoxville, TN 37932-2562

PO BOX 4008

CHANDLER, AZ 85244-4008

Cust Fax:

SHIP TO: CHANDLER, CITY OF

POLICE CRIMINAL INVEST. 250 E. CHICAGO ST. CHANDLER, AZ 85225

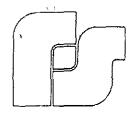
USA

MARKS : JOSE MOLINA 460-782-2400

REP: 39 REGION: 6 CUSTOMER'S ORDER NO. SHIPPED VIA & TRACKING # DATE SHIPPED BILL TO NO. TERMS FED-X GRND 06-11-10 500305 0.00/0/30 Charge Code KNOXVILLE 1029 CC2406 FREIGHT TERMS: Prepay and Bill QUAN. QUAN. SHIPPED UNIT PRICE TOTAL AMOUNT **STEIM** QUAN. PART NUMBER / DESCRIPTION ORDERED BACK ORD. NO. 3000.00 3.000.00 1 1 0 1 INSTALLTRAIN SYSTEM INSTALL OR TRAIN 3,000.00 SUB-TOTAL ilf you wish to receive your invoices via email please respond to: slakins@federalsignal.com SHIPPING & HANDLING 0.00

- 7111 - INVOICE TOTAL

\$ 3,000.00



FEDERAL SIGNAL CORP. Advancing Security and Well-being

PIPS Technology 804 Innovation Drive Knoxville, TN 37932-2562

**CREDIT MEMO** 

Send Payments To: PIPS Technology Inc C/O Bank of America 15027 Collection Center Drive Chicago, IL 60693

WIRE TRANSFERS to: Bank of America Chicago, IL Acct No. 1233062483 ABA No. 0260-0959-3

Page 1

Billing/Credit Inquiry: (865)-392-5540

Fax: (865)-392-5599

Invoice No.

CREDIT MEMO - 7414

Invoice Date

06-28-10

Our Order No.

SOLD TO: 1029

CHANDLER, CITY OF

ATTN: ACCOUNTS PAYABLE

PO BOX 4008

CHANDLER, AZ 85244-4008

Cust Fax:

SHIP TO:

CHANDLER, CITY OF

ATTN: ACCOUNTS PAYABLE

PO BOX 4008

CHANDLER, AZ 85244-4008

USA

	G1 57	NOLEN, AZ	. 00244-4	008		USA		
• .						REP: 39	REGION:	6 cf
BILL TO NO.		CUSTOMER'S	ORDER NO		TERMS	SHIPPED VIA	& TRACKING #	DATE SHIPPED
		500305-TAX-DISCOUNT			0.00/0/30	FED.X		06-28-10
1029 Charge Code		)	KNOXVILLE FREIGHT TERMS: Prepay and Bill			<del></del>		
ITEM NO.	OUAN. ORDERED	QUAN. BACK ORD.	QUAN, SHIPPED		PART HUMBER / DES		UNIT PRICE	TOTAL AMOUNT
1	•	0	T	DISCOUNT ON 7061 - PO 50 TAX ON SAL DISCREPANC	00305 ES QUOTE		-2933.70	-2,933.70
						SUB-TOTAL		-2,933.70
If you	wish to	receive	your in	voices via em ederalsignal.c	nail	SHIPPING & HANDLI	NG	0.00
hiease	respon	id to: sia.	rins@i	rueraisiyilar.o		CREDIT TOTAL		\$ -2,933.70

ORIGINAL

Form Revised Apr.: 13th 2009



# FEDERAL SIGNAL CORP. Advancing Security and Well-being

SHIPPER: 7487

PIPS Technology 804 Innovation Drive Knoxville, TN 37932-2562 INVOICE

Send Payments To: PIPS Technology Inc. C/O Harris Bank N.A. PO BOX 71219 Chicago, IL 60694-1219

WIRE TRANSFERS to: Harris Bank N.A. ABA: 071000288 Swift Code: HATRUS44 Acct No: 257-520-7

Page 1

102107

Billing/Credit Inquiry: (865)-392-5540

Fax: (865)-392-5599

8641 Invoice No.

08-22-11 Invoice Date

Our Order No. 4583

SOLD TO: 1029

CHANDLER, CITY OF

ATTN: ACCOUNTS PAYABLE

PO BOX 4008

CHANDLER, AZ 85244-4008

Cust Fax:

SHIP TO: CHANDLER POLICE DEPT 250 E. CHICAGO ST. CHANDLER, AZ 85225

USA

MARKS: SGT CHRIS KUSH 480-782-4232

**REP: 39** 

REGION:

N DE N

SHIPPED VIA & TRACKING # DATE SHIPPED BILL TO NO. CUSTOMER'S ORDER NO. TERMS

***********	5	02974 /	50545	20.00/0/30	FED-X PRIO	08-22-11
1029	C	Charge Code C2899		KNOXVILLE FREIGHT TERMS: Prepay a	and Bill	
ITEM NO,	OUAN ORDERED	QUAN. BACK ORD.	QUAN. SHIPPED	PART NUMBER / DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
1	1	0	1	INSTALLTRAIN SYSTEM INSTALL OR TRAIN	1000.00	1,000.00
				PAST DUE		
PI FAS	F SFF &	USE N	EW REN	<b>AIT INFO</b> SUB-TOT.	AL	1,000.00

If you wish to receive your invoices via email

please respond to: slakins@federalsignal.com

- 7113 -

SHIPPING & HANDLING

INVOICE TOTAL

0.00

\$ 1,000.00

Form Revised April 28th 2011