

Released pursuant to
A.R.S. 39-121, Et. Seq.
To:



Case Study

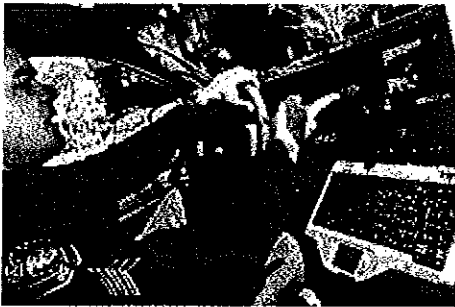
Long Beach Police Department Mobile License Plate Recognition System

Following an extensive evaluation process, Long Beach Police Department acquired four (4) PIPS' mobile automated license plate recognition (ALPR) systems in December 2005. Despite other crime rates decreasing in Long Beach, auto theft rates have been on the rise for the past three years. The ALPR systems were acquired primarily to combat this trend.

The first six months have produced amazing results.

- 1.4 million plates read
- 929 lost or stolen plates identified
- 275 vehicle recoveries
- 50 arrests

"The ALPR system does not discriminate," states Sergeant Chris Morgan. "It almost eliminates any problems with profiling. The camera doesn't distinguish the color of a driver's skin or the condition of the car."



LBPD Sergeant Chris Morgan

Stolen Vehicles

An LBPD officer received a stolen vehicle alert from the ALPR system. The Night Auto Theft Detail set up surveillance on the stolen vehicle until the suspects arrived. An arrest was made and five high value cars were recovered.



Drug and Identity Theft

A stolen vehicle alert notified an LBPD officer that the suspect traveling in the vehicle should be considered armed and dangerous. Surveillance was established on the vehicle, the suspect was followed to an apartment where an arrest was made. Large amounts of methamphetamine, marijuana, and identity theft profiles were recovered.

Carjacking

An off-duty officer was the victim of a carjacking with limited information on suspects. After the ALPR system identified another stolen vehicle, surveillance led the LBPD Career Criminal Apprehension Team to identify the suspect as the perpetrator of the carjacking. An arrest was made.

Customer: Long Beach Police Department
Long Beach, CA
Contact information available on request

For additional information, please
contact us or visit us online.

www.pipstechnology.com

PIPS Technology Inc.
World Headquarters
10511 Hardin Valley Road
Building C
Knoxville, TN 37932-1565 USA
Tel +1 865 693 4432
Fax +1 865 693 4896
info@pipstechnology.com

PIPS Technology Inc.
West Coast Office (USA)
Trillium Towers Center
6320 Canoga Avenue, Ste 1500
Woodland Hills, CA 91367 USA
Tel +1 818 615 2018

the most advanced license plate recognition systems in the world



PIPS Technology, Inc.
10511 Hardin Valley Road
Building C
Knoxville, TN 37932
Phone: (865) 693-4432
Fax: (865) 693-4896
E-mail: info@pipstechnology.com

PAGIS BACK OFFICE SYSTEM SERVER (BOSS) FEATURES

The PAGIS Back Office System Server is a web based software application providing remote user access. BOSS was designed specifically for law enforcement to capitalize on the tremendous amount of data generated by PAGIS.

BOSS ADMINISTRATION

- Database management functions:
 - Database formatting including ability to customize PAGIS screens and alarms based on system "hits"
 - Assignment of database priorities
 - Import of national and regional databases
 - Creation of local databases
- User Administration Functions:
 - Establish PAGIS and BOSS System access via assigned User Names and Passwords
 - Set System access levels based on user responsibility
 - User management (create new users, delete or modify existing users)

DATA MINING

- SQL Server back end supports custom and third party reporting tools
- Queries against multiple search parameters
 - Time
 - Date
 - Full Plate
 - Partial Plate
 - Location
 - User
- Provides all information related to a single license plate (location, color overview, plate image, etc.)
- Ability to map all locations related to a single license plate to track movements
- Ability to append data related to a license plate number
- Ability to cross reference perpetrator identification number (driver's license number, social security number, etc. with license plate database)

DATA MANAGEMENT

- Database files are loaded into PAGIS via USB, Wireless or Ethernet
- Collected data is imported into BOSS via USB, Wireless or Ethernet
- Collected data is automatically archived based on System Administrator specifications

Maricopa JAG 2010: Auto Theft Equipment Budget

4890001617 - 84802

10/01/09 - 09/30/13

Purpose Area: Consultants & Contracts Serv

<i>Category</i>	<i>Budget</i>	<i>Expenses</i>	<i>Balance</i>
Consultants & Contracts Services	\$11,520.00	\$2,852.70	\$8,667.30
Summary for Purpose Area = Consultants & Contracts Services	\$11,520.00	\$2,852.70	\$8,667.30

Purpose Area: Equipment

<i>Category</i>	<i>Budget</i>	<i>Expenses</i>	<i>Balance</i>
Equipment	\$57,913.09	\$57,913.09	\$0.00
Summary for Purpose Area = Equipment	\$57,913.09	\$57,913.09	\$0.00

Purpose Area: Supplies

<i>Category</i>	<i>Budget</i>	<i>Expenses</i>	<i>Balance</i>
Supplies	\$21,566.91	\$21,589.78	(\$22.87)
Summary for Purpose Area = Supplies	\$21,566.91	\$21,589.78	(\$22.87)

Grand Total	\$91,000.00	\$82,355.57	\$8,644.43
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CITY OF PHOENIX PURCHASING

Originator:

POLICE FISCAL MANAGEMENT
620 W WASHINGTON, 85003

PIPS TECHNOLOGY INC
PO BOX 24117
KNOXVILLE TN 37933-2117

Originating report

PO number/date
4500107301 04/21/2011

Payment terms

Net 30 Days

Vendor contact/phone

Giles Tipsword 602-363-7077

Delivery terms

FOB Destination

Deliver no later than: 05/31/2011

Please deliver to:

PROPERTY CRIMES BUREAU
620 W WASHINGTON, 4TH FLOOR, ROOM 4
PHOENIX AZ 85003

4890001617
530900

Page: 1 of 3

Item	Description	Quantity	Unit	Unit Price	Net Value
00010	RFA 11-026 approved by City Council action on 04/20/11; items #79. Deliver to Sgt. J. Kalmbach 602-262-7438 Police ALPR PAGIS UNIT Requisition #: 0010195536 G/L #: 185000 ASSET: 000000210602 Shipping instructions: Prepay and Add Freight Item Description: to include; four 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. Item #Slate LE-P Note: A trade in allowance of \$19,000 (for two older PIPS systems) has been applied to this line. Use tax paid direct to State/City, State of AZ Tax License 07-19320-D City of Phoenix Tax License 78014215	3	EA	31,490.00/3	31,490.00
00020	One Portable 3-Camera Law Enforcement Requisition #: 0010195536 G/L #: 185000 ASSET: 000000210605 Shipping instructions: Prepay and Add Freight Item Description: Package, ruggedized processor case, two Slate cameras with infrared and color overviews, video and power cables, GPS and magnetic camera mounts; All required PAGIS/ALPR software installed on the processor for the State of New Mexico	1	EA	17,325.00	17,325.00

MAIL INVOICES TO:

CITY OF PHOENIX - ACCOUNTS PAYABLE
251 W. WASHINGTON ST. 5TH FLOOR
PHOENIX, ARIZONA 85003-2295

BUYER/PHONE:

Larry Jus 602-262-7188

04/22/2011 22:01:37

CITY OF PHOENIX PURCHASING

Originator:

POLICE FISCAL MANAGEMENT
620 W WASHINGTON, 85003

PIPS TECHNOLOGY INC
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KNOXVILLE TN 37933-2117

Originating report

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Vendor contact/phone
Giles Tipword 602-363-7077
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620 W WASHINGTON, 4TH FLOOR, ROOM 4
PHOENIX AZ 85003

Page: 2 of 3

Item	Description	Quantity	Unit	Unit Price	Net Value
	stolen vehicle license database (NCIC). Laptop/computer supplied by others. Item #PIPS HW-LEM-3 Use tax paid direct to State/City, State of AZ Tax License 07-19320-D City of Phoenix Tax License 78014215				
00030	Installation of PIPS ALPR Equipment Requisition #: 0010195536 G/L #: 185000 ASSET: 000000210605 Shipping Instructions: Prepay and Add Freight Item Description: and general training on PAGIS and BOSS application. \$1500 for the first vehicle, Installation to occur on all the vehicles simultaneously. Item #PIPS-SRVC-FLDENG Use tax paid direct to State/City, State of AZ Tax License 07-19320-D City of Phoenix Tax License 78014215	1	EA	1,500.00 \$	1,500.00
00040	Installation of PIPS ALPR Equipment Requisition #: 0010195536 G/L #: 185000 ASSET: 000000210602 Item Description: and general training on PAGIS and BOSS applications. \$1000 for each additional system. Installation to occur on all the vehicles simultaneously. Item #PIPS-SRVC-FLDENG	3	EA	1,000.00 \$	3,000.00
	Tax Exempt				
00050	Freight Requisition #: 0010195536 G/L #: 185000 ASSET: 000000210602	1	EA	400.00 \$	400.00
	Tax Exempt				

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BUYER/PHONE:

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04/22/2011 22:01:37

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PHOENIX AZ 85003

Page: 3 of 3

Item	Description	Quantity	Unit	Unit Price	Net Value
				<i>Sub. total</i>	\$ 53,715.00
				<i>Tax</i>	\$ 0.00
				<i>Total</i>	\$ 53,715.00
				<i>est. Use</i>	
				<i>Tax @</i>	
				<i>8.6%</i>	<i>= +4,327.05</i>
				<i>(Items 1-3 only)</i>	<i>58,042.09</i>

MAIL INVOICES TO:

CITY OF PHOENIX - ACCOUNTS PAYABLE
251 W. WASHINGTON ST. 5TH FLOOR
PHOENIX, ARIZONA 85003-2295

BUYER/PHONE:

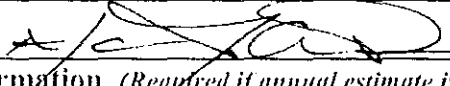
Larry Jue 602-262-7188

04/22/2011 22:01:37

Finance Department Purchasing Division
Request for Exception to the
Competitive Procurement Process
 (Reference A.R.3.10)

		RCA Required	☐
Requester's Name	Department/Division	Phone Number	Date
Lt. Troy Finley	Property Crimes Bureau	6025345036	2-11-11
Type of Exception			
Sole Source ☒	Time Restriction ☐		
Existing Agreement ☐	Unusual Nature of Project or Service ☒		
Description of Goods or Services to be Purchased			
Automated License Plate Readers to be Purchased for detecting stolen vehicles in the Phoenix area.			
Location Where Goods or Services are Required			
620 W. Washington Avenue, 3 rd Floor. Auto Theft			
Details of Request			
Since 2007 we have utilized Two PIPS Technology Automatic License Plate Readers (ALPR) on our department along with their Boss Software. We have been very satisfied with their product and level of service from PIPS and wish to purchase the requested ALPR's via the JAG Grant. Listed are the following reasons why we wish to continue with PIP Technology for our purchase: • Attached is an independent study by Dennis Lau of Union Institute & University. He cited in his report "...the U.S Department of Homeland Security established the System Assessment and Validation for Emergency Responders (SAVER) program to provide local agencies, objectives of comparable equipment. In 2008 SAVER issued a series of reports rating four ALPR companies which included PIPS Technology, ELSAG, PlateScan, and Vigilant Video. PIPS Technology received the highest rating. • Attached is a report from Police Technology Review, an independent Technology Review for Law Enforcement. In their study the following objectives were considered: identification of stolen vehicles and plates, warrants, wanted persons and registered owners, data collection for investigative purposes, amber alerts and attempt to locate vehicles of interest. PIPS Technology was chosen as the superior product. This report also mentioned that PIPS received the Queen's Award for Innovation in the United Kingdom. • PIPS has a number of patents on the methods used in the ALPR solution including the internal "plate-finder" for automatically detecting the presence of a vehicle license plate and their "triple flash" techniques for varying flash, shutter and gain settings with multiple image captures of each license plate to ensure a quality image regardless of weather or lighting conditions. • PIPS system has been field tested to accurately operate at differential speeds of up to 160 mph with an accuracy rate of 92%. • PIPS is the only ALPR Company to offer an integrated system between both vehicle mobile and fixed site ALPR deployments. • Their back office server software, BOSS, enables the user to consolidate data from fixed site locations and the mobile vehicle. BOSS is the only back office solution available that provides a networked server capability enabling agencies to allow for multi-jurisdictional data sharing and querying. • PIPS is the only ALPR provider, to our knowledge, to be successfully tested to meet all of the following certifications for extreme weather and operating environments. Testing to these certifications insures that the system will perform in the rugged environments expected for law enforcement applications:			

- All PIPS equipment hardware and software is covered by a one-year parts and labor warranty.
- We have reviewed other companies such as ELSAG and PlateScan and found PIPS Technology to be superior for the following reasons:
 1. PIPS is the only Original Manufacture of all its equipment. The other companies have there processors, software, hardware etc. made from different manufactures. Which can create maintenance issues.
 2. PIPS is the only product made in the United States of America.
 3. PIPS has smaller cameras and hardware making it easier to conceal.
 4. Accuracy rates are the highest at 92%.
 5. The PIPS processor does not slow the processing speed of the on board Mobile Data Computer (MDC). The other companies rely on the existing software from the MDC, thus creating slow response times for other functions.
 6. PIPS is the only system to have Optical Character Recognition (OCR).
 7. PIPS has patents for the Plate Finder and Triple Flash. This technology allows for the reader to focus on actual license plate and avoid misreads on traffic signs, construction signs etc. and for a higher resolution of the captured image.
 8. PIPS currently has 20,000 cameras in 35 countries.
 9. The PIPS Back Office Server System (BOSS) allows for portable or fixed systems to be interoperative with other agencies. This allows for data sharing of license plates captured. The following other police agencies can be partnered with PIPS:
 - Cochise
 - Sierra Vista
 - Fort Huachuca
 - South Tucson
 - Tucson
 - Sahuarita
 - Marana (former Elsig user)
 - Eloy
 - City of Maricopa
 - Gilbert
 - Chandler
 - Scottsdale
 - Glendale
 - Peoria
 - Prescott

Estimated Cost:\$558,334.49	Cost Center: 4890001617	GL Acct: 530900
SAP Purchase Requisition Number (if applicable):		
Other Information: Total amount of federal grant funds budgeted for agency assistance 'start up' supplies.		
Vendor Information		
Vendor Name:PIPS Technology		
Contact:Giles Tipsword	Phone: (602) 363-7077	Fax: (865) 392-5599
Address:PIPS Technology, 804 Innovation Drive, Knoxville, TN 37932		
E-mail:gtipsword@federalsignal.com		
Department Review (if over \$50,000 both middle manager & dept director approval required)		
Printed Name: TROY FINLEY	Position Title: A.B.C.	
Authorized Signature: 	Date: 2/15/10	
Department Director Information (Required if annual estimate is over \$50,000)		
Printed Name:		
Authorized Signature:		Date:
Finance Department/Purchasing Review and Approval		
Buyer:		Date:
Supervisor:		Date:
Deputy Finance Director:		Date:

(Revised 8/6/2009)

PHOENIX POLICE DEPARTMENT
REQUEST FOR PURCHASE REQUISITION

TO:	FROM:	COST CENTER										G/L ACCOUNT					DATE:
Fiscal Management	Sgt. Kalmbach 5028 J ^{lc}	4	8	9	0	0	0	1	6	1	7	5	3	0	9	0	01/31/11
STOCK CODE #	ITEM TO BE ORDERED	QUANTITY		UNIT OF MEASURE		UNIT PRICE		TOTAL VALUE									
Slate-LE-P	Police ALPR PAGIS unit to include: four 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.	3		each		16,830.00		50,490.00									
PIPS HW-LEM-3	One Portable 3-Camera Law Enforcement Package, ruggedized processor case, two Slate cameras with infrared and color overviews, video and power cables, GPS and magnetic camera mounts; All required PAGIS/ALPR software installed on the processor for the stolen vehicle license database (NCIC). Laptop, computers supplied by others.	1		each		17,325		17,325.00									
PIPS-SRVC-FLDENG	Installation of PIPS ALPR equipment and general training on PAGIS and BOSS applications. \$1,500 for the first vehicle. Installation to occur on all the vehicles simultaneously.	1		each		1,500.00		1,500.00									
PIPS-SRVC-FLDENG	Installation of PIPS ALPR equipment and general training on PAGIS and BOSS applications. \$1,000 for each additional system. Installation to occur on all the vehicles simultaneously.	3		each		1,000.00		3,000.00									
BOSS-MAP	Advanced mapping utility for BOSS using Microsoft Virtual Earth/Bing Maps. As a current user of PIPS Technology ALPR systems, there is no charge for this software. This system can integrate into your current advanced mapping software.	1						No Charge									
PIPS-SW-BOSS	As a current BOSS user, there is no charge. Your new systems can integrate into your existing BOSS software.							No Charge									
	Trade in allowance given: partner and 2 older PIPS systems							(19,000.00)									
	***TAX *** 8.6%							4,619.49									
	Freight:	1		each		400		400.00									
TOTAL PURCHASE REQUISITION:																	\$58,334.49

Desired Vendor:		Special Instructions: Delivery to PCB Auto Theft,
PIPS TECHNOLOGY: A Federal Signal Company		3rd. Floor at 620 W. Washington St.
804 Innovation Drive		Contact Sgt.Kalmbach for further instructions. 602-262-7438
Knoxville, TN 37932		
Giles Tipsword, 602-363-7077		
Requested by:	Sgt. J. Kalmbach 5028 <i>JK</i>	Approved by: <i>Frank Sweeney</i> 37
Phone #	602-262-7438	