

Vigilant Video

May 17, 2010

High Point Police Dept.

Captain Tony Hamrick

RE: CarDetector - Vigilant Video License Plate Recognition System

Vigilant Video is the only LPR (license plate recognition) Company capable of architecting a national LPR data conglomerate to proactively deliver as many as 100,000 LPR data scans to law enforcement weekly via NVLS. Vigilant Video is creating a virtual digital pipeline - a universal data system with one common goal in mind - making it easier for law enforcement to "Catch the Bad Guy".

**Over 101,381,965 million US vehicle locations LPR Plate Records
Available – We average 361,300 Live Scans Daily!**

National Vehicle Location Service

NVLS Data Request (SAMPLE)

Plate Image: 3421

Plate Record #: 3421

Hot List Plate #: 3421

Map It

Color Overview Image

Additional 'Target' vehicle NVLS records

Date	Time
5-21-09	11:32:07
6-24-09	17:55:45
7-15-09	1:37:09
7-29-09	21:54:52

Select Record to View

View Record

National LPR Data Repository

Click to Register!

NVLS - National LPR Data Server

Now Available to LEAs – Pre-Loaded with Private Data

- Vigilant Video has deployed over **1,600 ALPR** cameras to over 45 states.
- Our LEARN server (Law Enforcement Archival Reporting Network) is the most robust and flexible back end data management tool available today and it allows the sharing of ALPR data with other agencies regardless of who's ALPR system they may have in place.
- Vigilant Video also offers a Target Alert Service (TAS) whereby our private LPR data is delivered in Real Time to local law enforcement dispatch, patrol vehicles and officers via public safety network pop up alarm windows (when matched to available "Hot-Lists" such as NCIC).
- We would like to extend our **FREE 30-day** demo kit to qualifying agencies so you may better understand the many benefits that ALPR can bring your department. Please feel free to call me should you have any questions or if you would like to take advantage of our FREE demo system.

**Available to all LAW Enforcement subject to Validation of Department's
Originating Agency Identification Number (ORI #)**

Contact Vigilant Video to LEARN more!

Vigilant Video, 2021 Las Positas Court, Suite 101, Livermore, CA 94551
(925) 398-2079 Ext. 717 Lisa Dalisa, Sales Coordinator

WWW.VIGILANTVIDEO.COM

A Certified Vigilant Video Partner

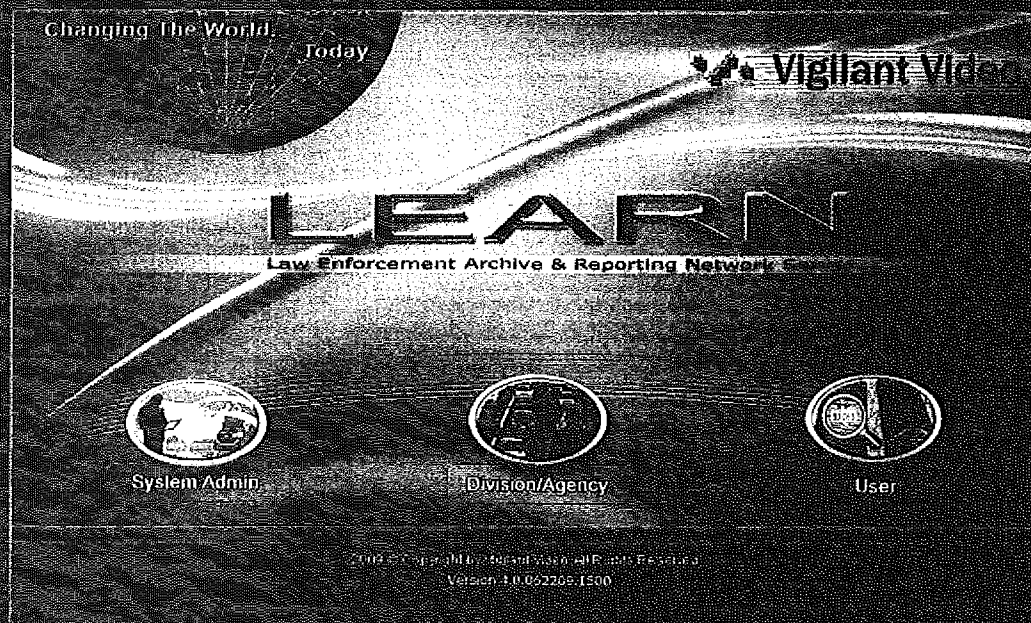


1 VOLT ASSOCIATES, INC.

SERVING THE CCTV INDUSTRY IN THE MID ATLANTIC

Vigilant Video

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LAW ENFORCEMENT ARCHIVAL REPORTING NETWORK

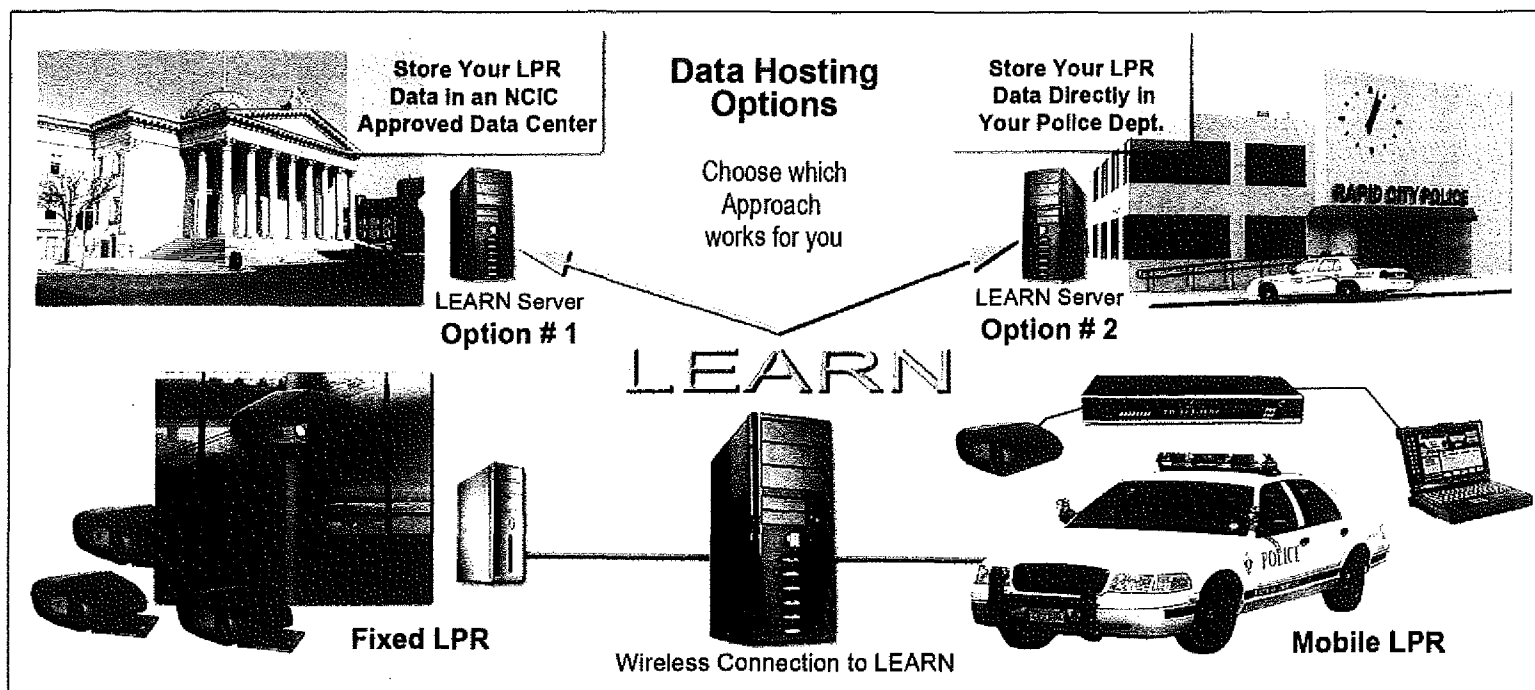
Changing the World...

Today!

www.vigilantvideo.com

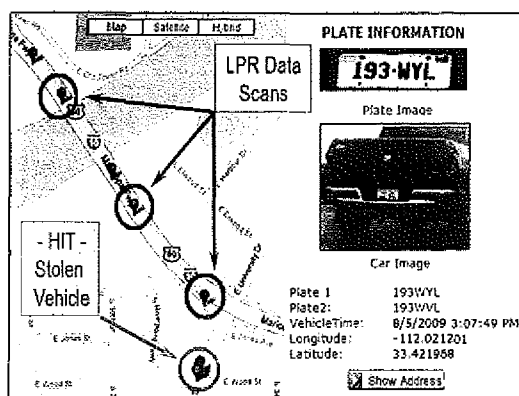
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LEARN Architecture - An Enterprise Solution



LEARN is the most comprehensive LPR data system available. LEARN establishes controlled access of historical and current LPR information, serves as a "Hot-List" management tool and features immediate CarDetector fleet record comparisons through multi-level record storage. Leveraging the option of the industries only NCIC approved data center for record management, storage, and searching, LEARN represents an unparalleled utility for using LPR data in the fight against crime.

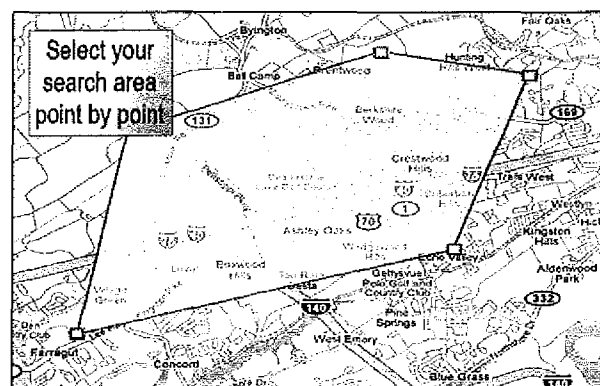
Forensic Capabilities



- Centralize all of your LPR data in one location for PD access
- Map multiple scans - generate and understand behavioral trends
- View "Hit" densities in your community - maximize your resources
- Data analysis for department planning & proactive crime reduction

Investigate Manage Archive

- Search partial plates to help solve crimes more effectively
- Automated statistical reporting tools with customized reports
- Historical "Hot-List" matching with automated email alerts
- Access to the largest private LPR database to enhance a police department's intel and advanced investigations



Geographic Searching - locate vehicles in a geo-fenced area

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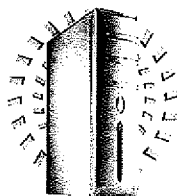
Wireless Software Updates

Imagine updating your entire fleet at the push of a button!



Vigilant Video
Software Updates

LEARN Server



Increase officer safety while managing your fleet!

Automatically download
to your MDC



Software updates are managed by LEARN and sent automatically to every LPR vehicle

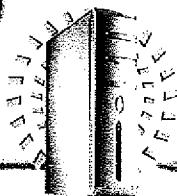
- Free valuable IT staff from having to update manually
- Eliminate the need to take a police vehicles off the streets

Hot-List Management



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Manage



4066GR2
4078D24
4TT834S
4VXR900
4WPP612
4WP8614
4W886L5

National Crime Information Center
(NCIC)



Download



Update

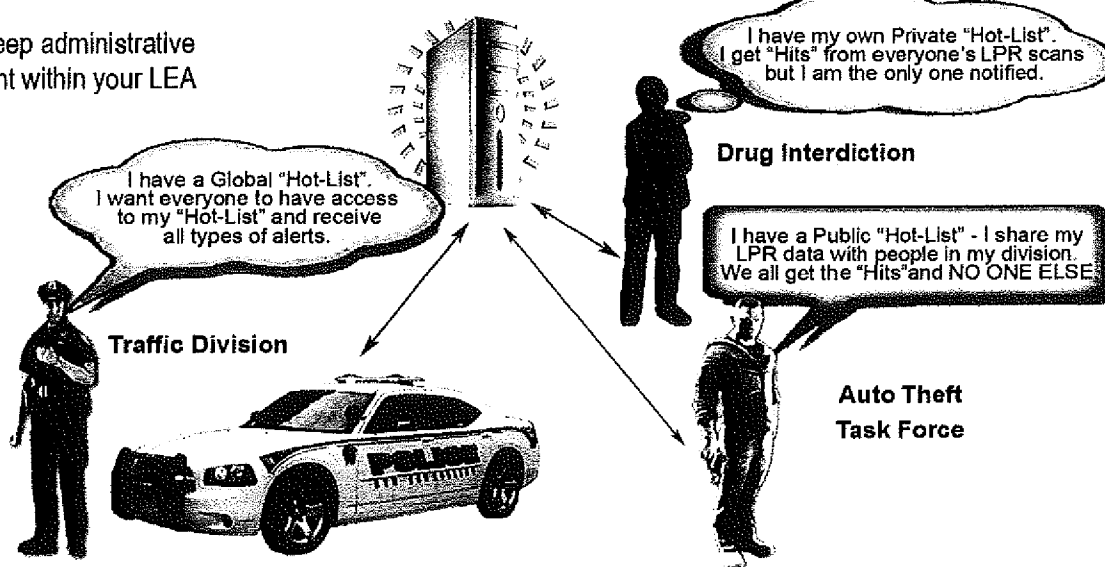
Vigilant Video's LEARN server has the intelligence to manage an unlimited number of 'Hot-Lists' - automatically downloading any state or local 'Hot-List' file and ensuring your LPR vehicles are current with real time updates.

Police Department Management

LEARN has 'User' account settings to keep administrative levels separate allowing each department within your LEA to stay focused on it's own priorities.

Secure Interoperability

Within the framework of LEARN there are many ways to manage priorities and maintain data integrity.



From stolen vehicles to felony warrants to parking tickets, your LEARN server will offer you the most effective methods of data management limited only by your imagination.

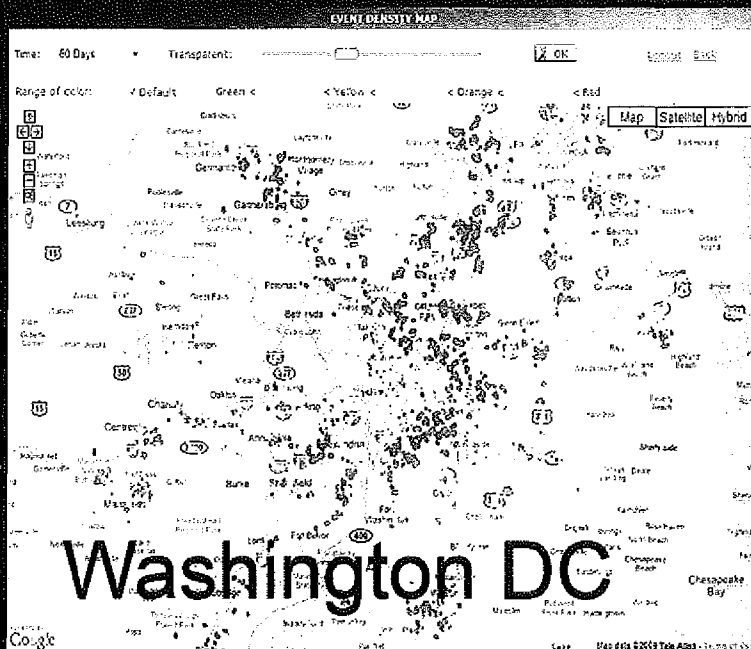
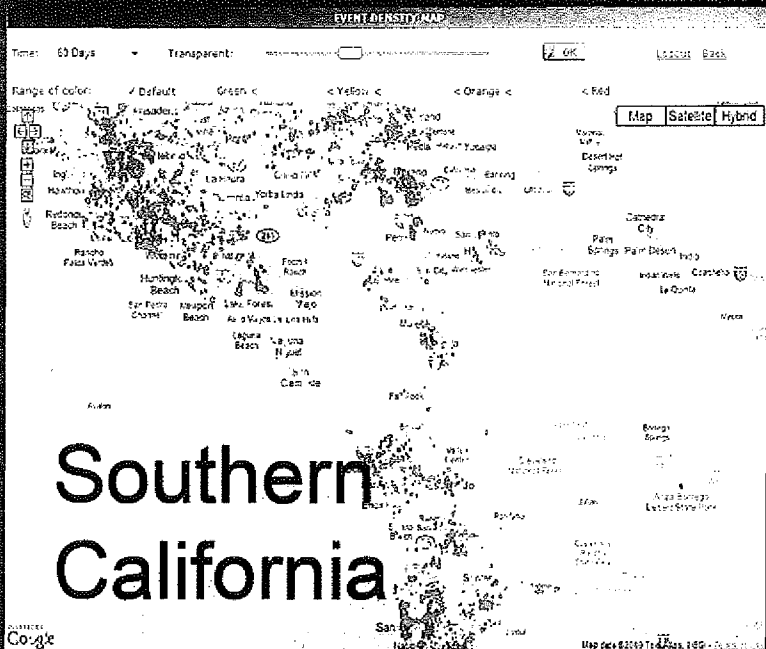
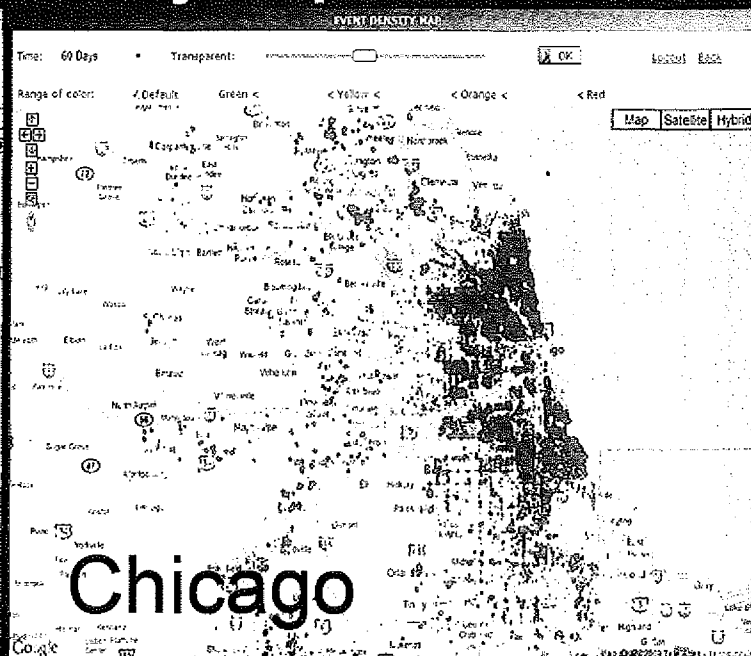
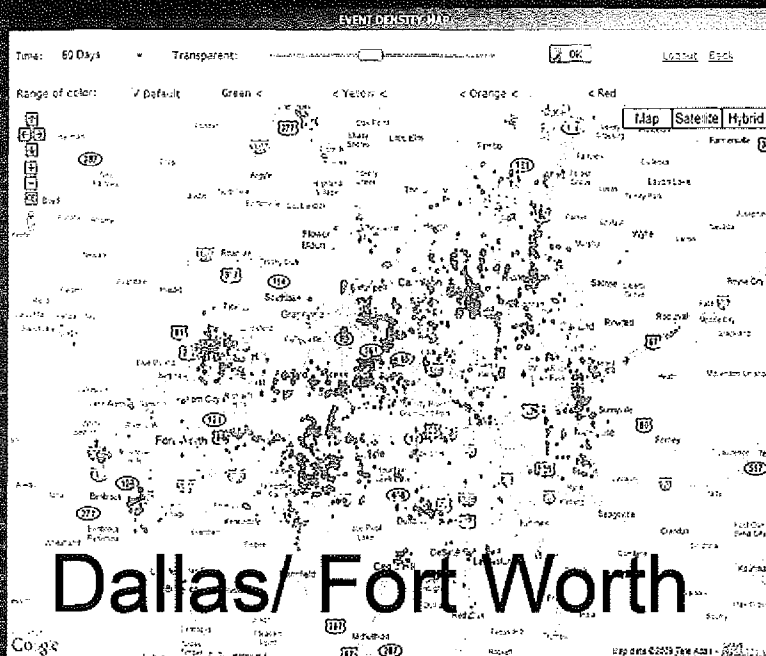
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National Vehicle Location Services - NVLS

National Vehicle Location Services (NVLS) is a conglomerate of privately collected License Plate Recognition data scans. This LPR data is now available for sharing with law enforcement agencies brought to you exclusively by Vigilant Video. Today the NVLS database contains over 100,000,000 plate records from cities across the US.

LPR Scan Density Maps



LEARN - Making the national database happen

Vigilant Video

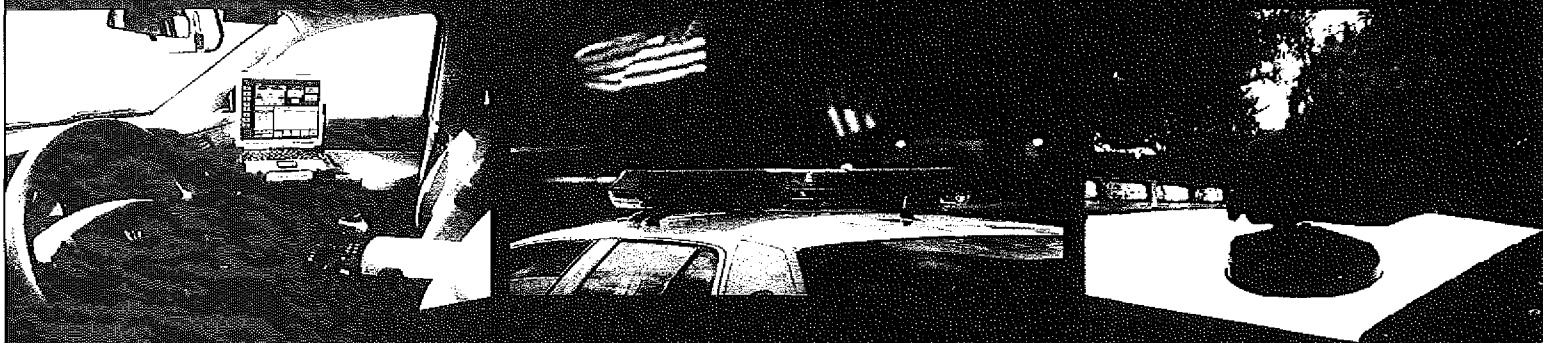
Vigilant Video, Inc.
2021 Las Positas Ct. Suite # 101
Livermore, CA. 94551
(925) 398-2079

Email:
sales@vigilantvideo.com
support@vigilantvideo.com

Document ID	DID-00002111
Date	25 September 2009

Vigilant Video

CAR DETECTOR



MOBILE LICENSE PLATE RECOGNITION SYSTEMS



Lisa Dalisa
Sales Coordinator

2021 Las Positas Court
Suite 101
Livermore CA, 94551

Main: 925-398-2079 Ext 717
Fax: 925-398-2113
Cell: 925-337-7348
E-mail: lisa@vigilantvideo.com
Web: www.VigilantVideo.com

CDMS

Livermore, Austin, Ho Chi Minh, Mumbai

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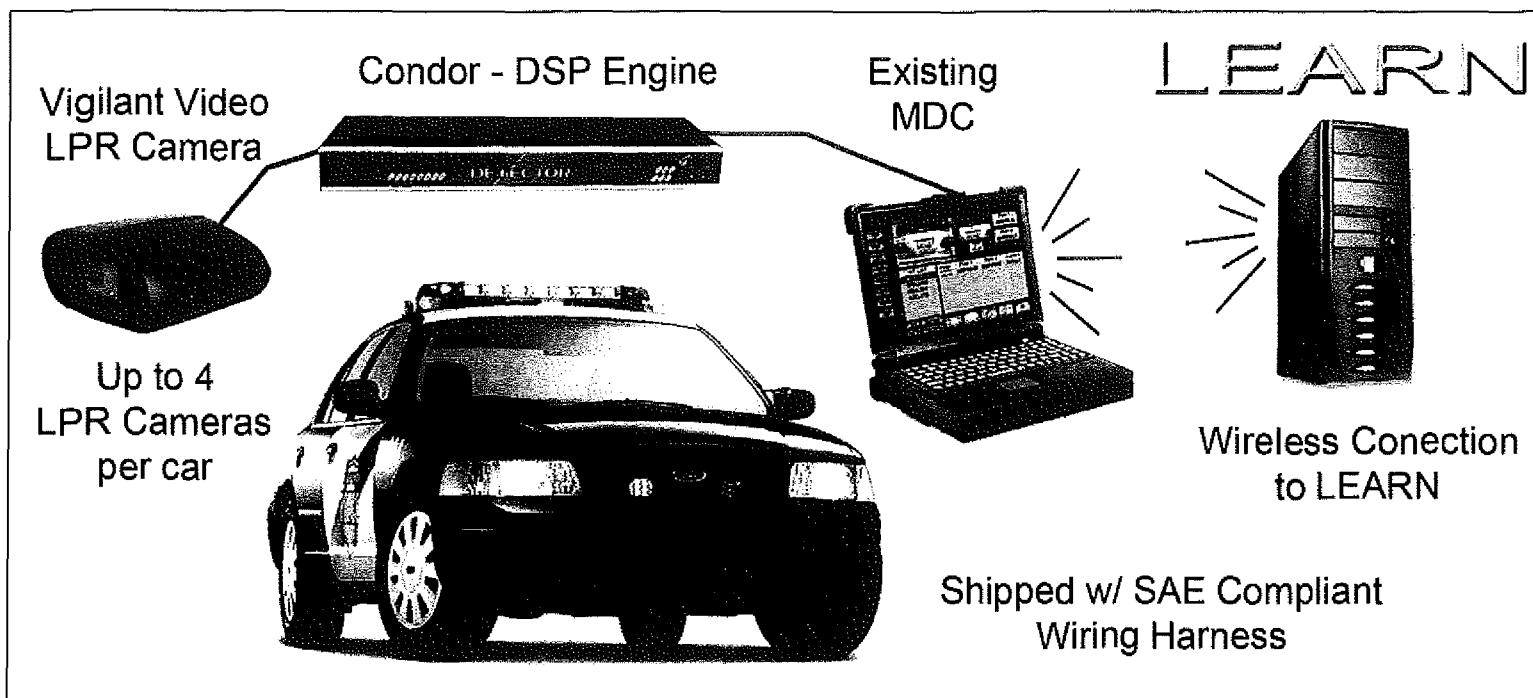
Today!

that pass through the
ever watching eye of the LPR camera.

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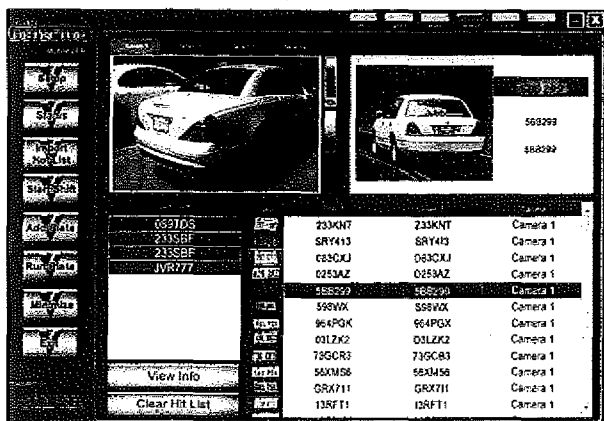
Vigilant Video

Mobile License Plate Recognition (LPR) System



- Choose from 1, 2, 3 or 4 camera LPR kit(s)
- Combination IR / Color camera - Nema6 Rated
- Remote management ensures low maintenance
- Client software to operate on existing MDC
- Automated "Hot-List(s)" management via LEARN
- Interface to LEARN for all CDMS LPR data

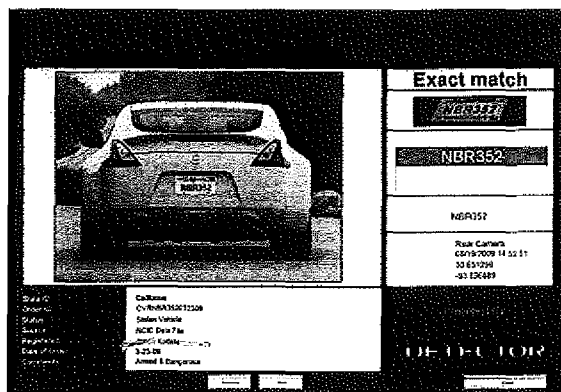
Immediate Response - "Hot-List" Alerts



CarDetector's 'In-Car' Graphical User Interface (GUI) is user friendly with status lights and function buttons that turn novice LPR users into experts within moments. For US, Canada and Mexico, CarDetector offers Adaptive Optical Character Recognition (AOOCR) processing that captures and recognizes license plates at an unparalleled accuracy rate.

**Accurate
Fast
Efficient**

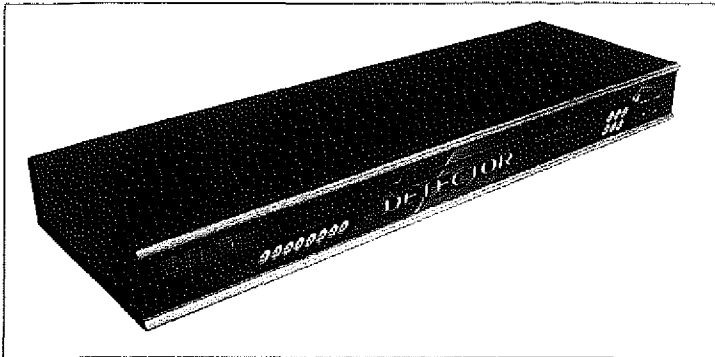
- Real time "Hot-List" notification
- Audible & visual alerts by priority
- Vehicle images, GPS, date & time
- Review car data & analyze trends
- Night mode
- Installs on MDC
- Silent operation option
- 1000's of plates per hour



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CAR DETECTOR

Hardware Components

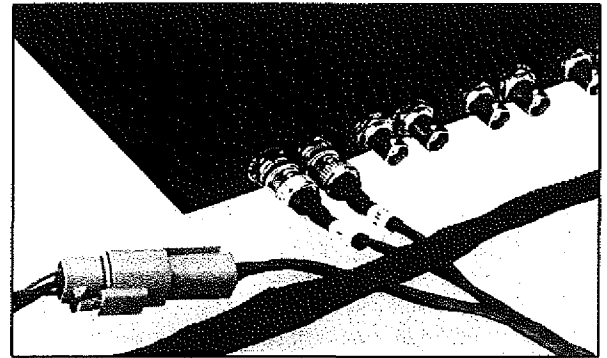


Condor Digital Signal Processor (DSP)

- Hot-swappable hardware design - small form factor
- Ruggedized for tough mobile environments
- Solid-state no moving parts - withstands shock and vibration
- Independent operating system for stability and reliability
- One dedicated DSP imaging processor per camera
- Soft shut down - ignition controlled - fast start up times

Less than 5% CPU utilization with a single Core Pentium 'M' 1.6 ghz processor

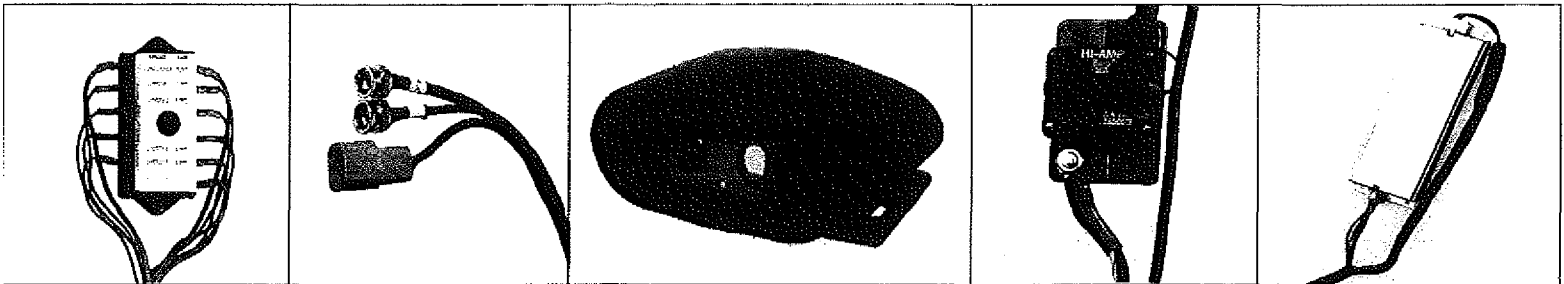
Vigilant Video, Inc. now offers CarDetector - Mobile LPR System (CDMS) with a Condor DSP unit. The 'In-Car' vehicle hardware kit has less components than before, offers premium electronics & is the safest mobile LPR system available. The Condor DSP unit processes up to four (4) LPR cameras with negligible use of the police cruiser's MDC unit. The Society of Automotive Engineers (SAE) compliant wiring system offers safety, installation ease, and durability that sets a new industry standard.



Ease of Installation

CarDetector Mobile Kit Peripherals

**The system components streamline the installation process
Efficient utility control at the touch of your fingertips**



Fuse Block

Connections

Combo IR/Color Camera

Kill Switch

Power Conditioner

- Wiring exceeds SAE J-1128
- In-line fuses for added safety
- Stable system voltage supply
- Developed for multi-car use
- Designed for portable use cases
- Connections are quick disconnect
- Kill switch for troubleshooting
- Designed for 12 volt applications
- Immune to extreme temperatures

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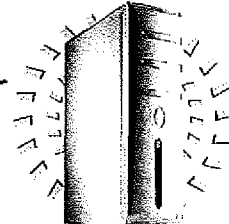
Wireless Software Updates

Imagine updating your entire fleet at the push of a button!

Increase officer safety while managing your fleet!



Vigilant Video
Software Updates



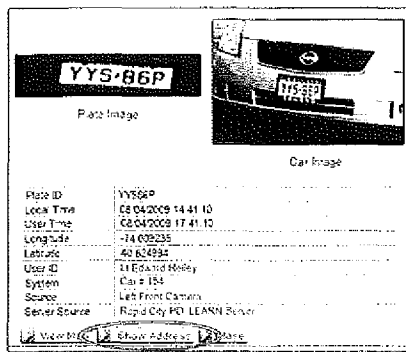
Automatically download
to your MDC



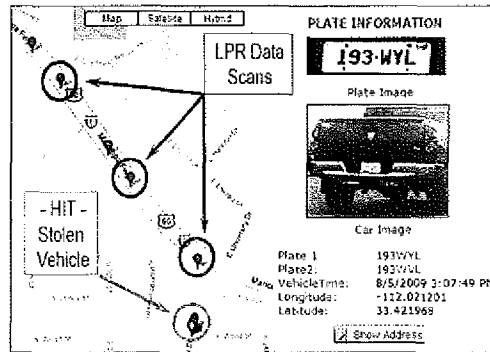
Software updates are managed by LEARN and sent automatically to every LPR vehicle

- Free valuable IT staff from having to update manually
- Eliminate the need to take police vehicles off the streets

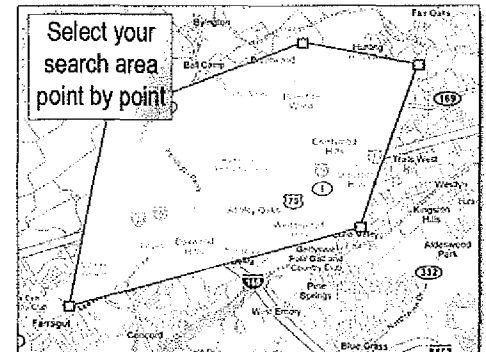
Forensic Capabilities



Search LEARN for 'Wild Cards' or partial plates to help solve the crime



Plot out multiple LPR scans with all relevant data

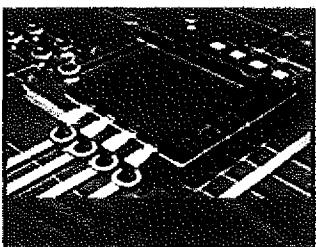


Geographic Searching - locate vehicles in a geo-fenced area

LEARN offers extensive data mining techniques!

Receive "Hit" alerts when new "Hot-List" records are added to LEARN based on historical plate data

Company Overview



Vigilant Video is an innovative software development company that designs and delivers high quality video recognition systems. Our LPR development team, driven by over 100 dedicated experts in the evolving field of software development, offers an unparalleled skill set ranging from imaging analysis, to GIS mapping, to database distribution systems. With Vigilant Video's national LPR campaign, thousands of cameras yield millions of monthly LPR data records across the US in over 27 metropolitan cities.

Government facilities, police departments, casinos, port authorities, and airports alike have all achieved greater security with the use of CarDetector LPR systems. We are motivated to build effective and user-friendly software applications for public and private security groups at the enterprise class level - continuing to raise the industry bar by exceeding market standards.

Vigilant Video

Vigilant Video, Inc.
2021 Las Positas Ct. Suite # 101
Livermore, CA 94551
(925) 398-2079

Email:
sales@vigilantvideo.com
support@vigilantvideo.com

Document ID	DiD-00001822
Date	25 September 2009



Vigilant Video

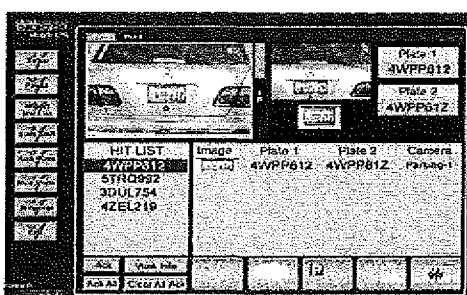
CAR DETECTOR™

CarDetector - Mobile LPR Edition For PC - Product Data Sheet

Overview

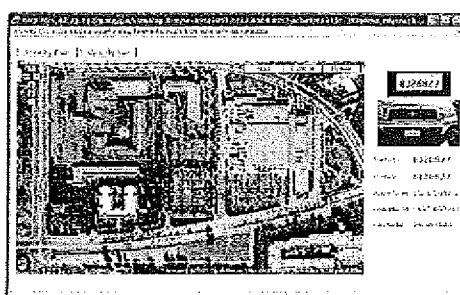
Vigilant Video, Inc. now offers CarDetector - Mobile LPR System (CDMS). The CDMS package is the most advanced law enforcement Mobile License Plate Recognition (LPR) system available today. While operating in a law enforcement cruiser, CDMS utilizes federal and state databases to provide automated "Hot-List" alarm matching of multiple plate scans in search of wanted offenders. Whether searching a parking lot, cruising on patrol, or sitting idle at a speed check point, CDMS captures all LPR records that pass through the watching eye of the cruiser's video cameras. CDMS is the future of automated crime fighting.

Vehicle "Hot-List" Alarm Monitor



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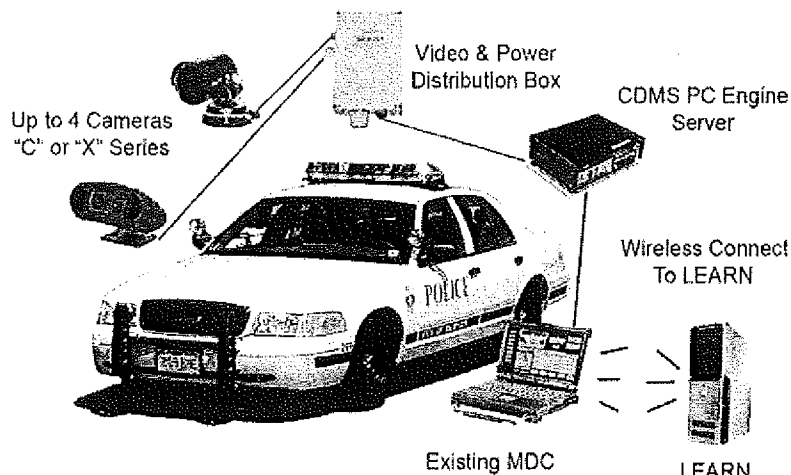
Law Enforcement Archival Reporting Network



Protecting our Future



CDMS Architecture



Architectural Options:

- Choose between 2,3 or 4 camera car outfits - front, rear, side
- Built in color overview camera
- For installation on existing laptops and MDCs
- Mini PC utilized as CPU Resource
- CDMS Remote Viewer to View w/ Existing Laptops
 - Optional touch screen view panel available
- "Hot List" import via USB key or wireless download
- Interface to LEARN for LPR data storage and queries

"Hot-List" Applications

Applications:

- Stolen Cars
- Suspected Criminal ID
- Unregistered Vehicles
- Uninsured Vehicles
- Crime Prevention
- Gang Identification
- City Map Alarm Overlay
- DOJ, NCIC, DMV & More

HOT LIST

4O66GR2
4O78D24
4TT834S
4VXR900
4WPP612
4WP8614
4W886L5

Mobile LPR

Features:

- License plates compared against "Hot-List"
- "In-Car" audio/video alarm notification
- Records all records with time stamp & plate image
- Power CDM system via cruiser key ignition
- GPS coordinates w/ each record
- Adaptive Optical Character Recognition engine
- Utilizes Infrared and color camera technologies
- Display output to MDC w/ CDM Remote Viewer
- Export and collect all capture records to LEARN

Benefits:

- Automation frees manual "plate checking"
- Reduces human error of plate ID's
- Proactive tool to reduce or prevent crime
- Decreased response times to important events
- Review car location history and analyze trends
- Requires minimal operational training



Vigilant Video

www.vigilantvideo.com

Vigilant Video, Inc.
2021 Las Positas Court
Suite # 155
Livermore, CA. 94551
(925) 398-2079

Email:
sales@vigilantvideo.com
support@vigilantvideo.com



Vigilant Video

CAR DETECTOR™

CDMS CarView

CDMS CarView

Features:

- "Hot-List" administration and update Management
- Integration of car plates into common database
- Ideal for multiple patrol car force over large areas
- Plate record data specifically indexed with GPS
- Historical query & forensic mapping to aid investigations
- Automated reports for users to track key statistics

Benefits:

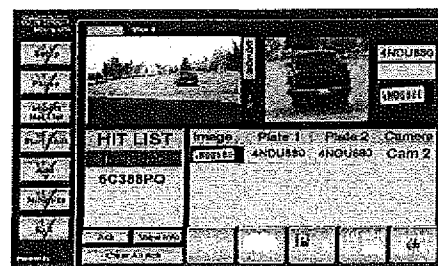
- Common interface for event viewing from all cameras
- Storage provides database for all recorded plate data
- Easy interface for Microsoft compatible output reports
- Open database format for integration w/ 3rd party db's

Required Components:

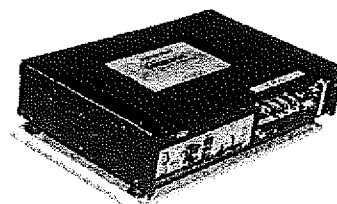
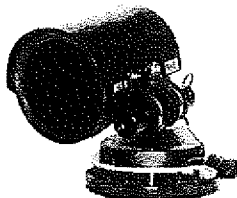
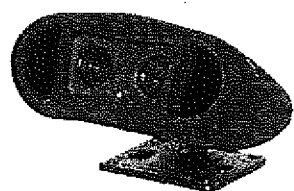
- CarDetector - Mobile LPR Edition software application
- Vigilant Video's "C" or "X" series low profile LPR Cameras
 - Cameras are combination IR w/ Color overview
- Video & Power Distribution Box
- CDMS PC Server Engine (computer resource)
- In-Car view panel for record display (Existing MDC)

Optional Components:

- 2, 3 or 4 camera system available
 - Up to any 2 cameras operating simultaneously
- Mini PC for MDC (Laptop) independent operation
- CDM Remote Viewer for MDC (Laptop) display output
 - Touch screen display available for independent viewing
- Hot-List Identity photo ID records.



Hardware Components



Vigilant C Series Camera:

- Small Form Factor
- Analog Infrared Camera
- Built-in color overview
- Outdoor Rated, NEMA 4
- 8-75 mm lens Pkg
- Power consumption: <20W

Vigilant X Series Camera:

- Parking Lot Scanner
- Analog infrared Camera
- Combined color overview
- 9' to 18' capture distance
- Power Input: 12V DC
- Power consumption: <20W

Video & Power Distribution BOx:

- Video Inputs Junction
- Single Point Power Connection
- Powers Entire System
- Video & PC Umbilical Cord
- Interface between Camera Controls and Computer

CDMS PC Server Engine:

- Intel Core 2 Duo CPU
- 1 GB DDR RAM
- 9.3" X 14.3" X 4.0"
- 3 USB ports / 2 PCI Slots
- Power Input: 12V DC
- Power consumption: 60W
- Vibration Isolators

About Vigilant Video

Vigilant Video is a leading provider of Advanced Video Analytics solutions for security and consumer behavior analysis applications. We specialize in diverse DSP applications of Advanced Video Analytics software. We remain an innovative developer of video algorithm libraries and data mining technologies. Our applied advanced video analytics solutions provide security professionals situational awareness and pertinent video information by utilizing the newest algorithms and techniques available in the CCTV content analysis market. Through real-time analysis of video feeds, Vigilant Video puts actionable information in the hands of those who need it and can use it most. He is still out there...but we are Vigilant.



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www.vigilantvideo.com

Vigilant Video, Inc.
2021 Las Positas Court
Suite # 155
Livermore, CA. 94551
(925) 398-2079

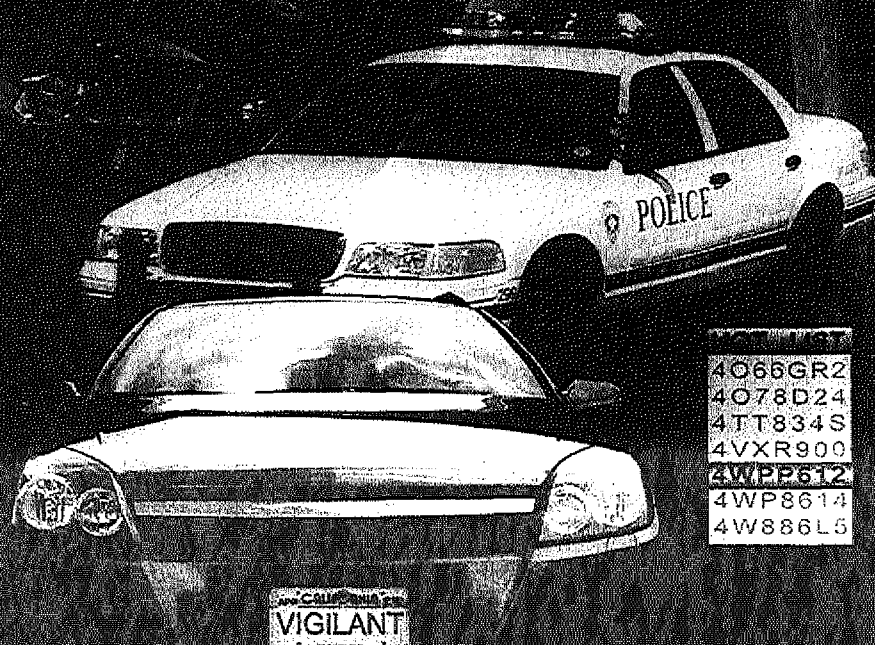
Email:
sales@vigilantvideo.com
support@vigilantvideo.com

Document ID	DID-00001815
Date	16 September 2007

Vigilant Video

DETECTOR™

License Plate Recognition Systems



Changing The World...
Today

Why The World Needs

DETECTOR™



Vigilant Video Can Optimize

- Better understanding of criminal behavior
- Use reports, queries, and multivariate analysis
- Identify social framework of local communities
- Master control traffic flows and protect lots
- Completely automated LPR rendering and matching
- Increase workforce productivity inside a department
- Control the access points and establish data history
- GIS mapping of all archives - trends and patterns
- Control gates with optional relay card alerts
- Quickly access data utilizing inter-office email

Vigilant Video beats the Competition

- Ease of Implementation into department
- Seamless integration into existing network
- Hands free use and auto updating
- Lowest profile Cameras in the industry
- Ruggedized for reliability in any weather
- Highly functional and easy to use GUI interface
- Easiest & fastest installation system available
- Consumer advantage with low cost point
- Reporting and Archival features of "LEARN"
- Site license option for affordability

Vigilant Video is a leading provider of Advanced Video Analytics solutions for security and consumer behavior analysis applications. We specialize in diverse DSP applications of Advanced Video Analytics software. We remain an innovative developer of video algorithm libraries and data mining technologies. Our applied solutions provide security professionals situational awareness and pertinent video information by utilizing the newest video automation techniques available in the CCTV market. Through real-time analysis of video feeds, Vigilant Video puts actionable information in the hands of those who need it and can use it most. He is still out there... but we are Vigilant.



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Vigilant Video, Inc.
2021 Las Positas Court
Suite # 101
Livermore, CA 94551
(925) 398-2079

Email:
sales@vigilantvideo.com
support@vigilantvideo.com

Document ID: DIO-00002125
18 December 2007

CarDetector - Fixed LPR System (CDFS)

CDFS Overview

CarDetector - Fixed LPR Edition (CDFS) features innovative video analysis engines that automatically scan, detect and perform LPR operations for important security and law enforcement applications. Flexible with both PC and DSP based architectures, CDFS uses artificial intelligence and state-of-the-art sensor technology to capture license plate information, triggering automatic alarms based on federal, state and local database "Hot-List" matching. CDFS records all LPR data that passes through the ever watching eye of the fixed LPR camera - it is the future of public safety and automated security.



CDFS DSP Based Solution

- One DSP per combination IR/color LPR camera
- Up to 10 DSP's (LPR channels) per CDFS Server
- Video cables "In" - Ethernet network cable "Out"
- "Pancake Box" form factor for Nema enclosure
- Firmware upgrades made easy over the Internet

CDFS PC Based Solution

- Easy install with software disk and capture card
- Up to 8 cameras per CDFS Server
- Video cables direct into PCI video capture card
- Connect multiple CDFS Servers for large deployment
- Lot, gate and entrance control made simple

- Requirements -

Software:

- Windows XP Professional SP2 (Required)
- Direct X V 9.0 or Higher (Required)
- MySQL database application (Included)
- Direct Show Compatible video capture card (Required)

Hardware:

- Pentium dual core processor
- 1GB SDRAM
- 160 GB HDD - 7200 RPM
- AvotMedia AiGusII-X card (Recommended)

CDFS DSP Technology

The Digital Signal Processor (DSP) Powered by MangoDSP

CarDetector Framework transforms the DSP into an intelligent edge device

- BNC connection with AC/DC power
- 720 MHz Processor & 128 MB SDRAM
- 40°C - 85°C Temp. Operating Range
- RJ 45 Ethernet Communication
- Small form factor - 8.3" X 3.9" X 1.8"
- Manages all "Heavy Lifting" duties
- Intelligent Video Server
- RS232 Dynamic LPR Camera Control
- No moving parts - No Maintenance

CDFS - Adding Value

Features

- License plates compared versus "Hot-List" database
- Color overview, plate image, OCR interpretation, date, time & camera location w/ each LPR record
- Authorized/Unauthorized access control checking
- Adaptive Optical Character Recognition engine

Benefits

- Automation frees manual "plate checking"
- Proactive tool to reduce or prevent crime
- Capture, archive and reference facility traffic data
- Review car location history and analyze trends
- Requires minimal operational training

CarDetector - Mobile LPR System (CDMS)

CDMS Overview

CarDetector - Mobile LPR Edition (CDMS) is the most advanced mobile License Plate Recognition (LPR) system available today. While operating in a law enforcement cruiser, CDMS provides automated "Hot-List" alarm matching against DOJ, NCIC and other database records. The CDMS/LEARN solution provides access to all CarDetector LPR data, "Hot-List" management, forensic & tracking statistics, and interconnectivity between police departments by digital distribution of all LPR data throughout the law enforcement network.

CDMS Components

Requirements:

- CarDetector - Mobile LPR Edition software
- Vigilant Video's "C" or "X" series LPR Cameras
- Choose between DSP or Mini-PC architecture
- MDT w/ Pentium M 1.4 GHz or higher
 - Touch screen available (Optional)

Simplicity:

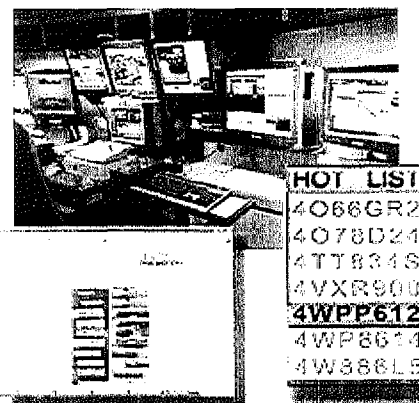
- 1 software disk 1 Camera, 1 DSP
- Single Point power connection for all systems
- 20 minute or less installation time



Hardware:

- 1, 2, 3 or 4 camera system available
- Up to 60' capture distances to target plates
- Small form factor low profile "X" & "C" Series Cameras
- Mini PC for MDC (Laptop) independent operation
- CDM Remote Viewer for MDC (Laptop) display output

LEARN - Complete Automation



- All "Hot List" transactions are managed exclusively by the LEARN server network application
- Create precise tracking information w/ GIS mapping of CDMS & CDFS data records - proactive crime fighting
- "Hot-List" updates to CarDetector fleet vehicles are automatic through LEARN at a user defined frequency
- Multi-level security access provides channelled data format to allow "Hot-List" queries from 3rd party PDs
- All data protected by the secure public safety network
- Info updates and GUI features are designed for the novice to excel as an expert with little to no effort
- Linked to neighboring departments for data "Sharing"
- LEARN generates custom reports based on pertinent LPR data collected - sent automatically via email

LEARN - Adding Value

Features

- Master view of vehicle history and geo location
- "Hot-List" administration and update Management
- Integration of car plates into common database
- Ideal for secure public safety network
- Plate record data specifically indexed with GPS
- Forensic mapping to aid investigations
- Automated reports for users to track key statistics

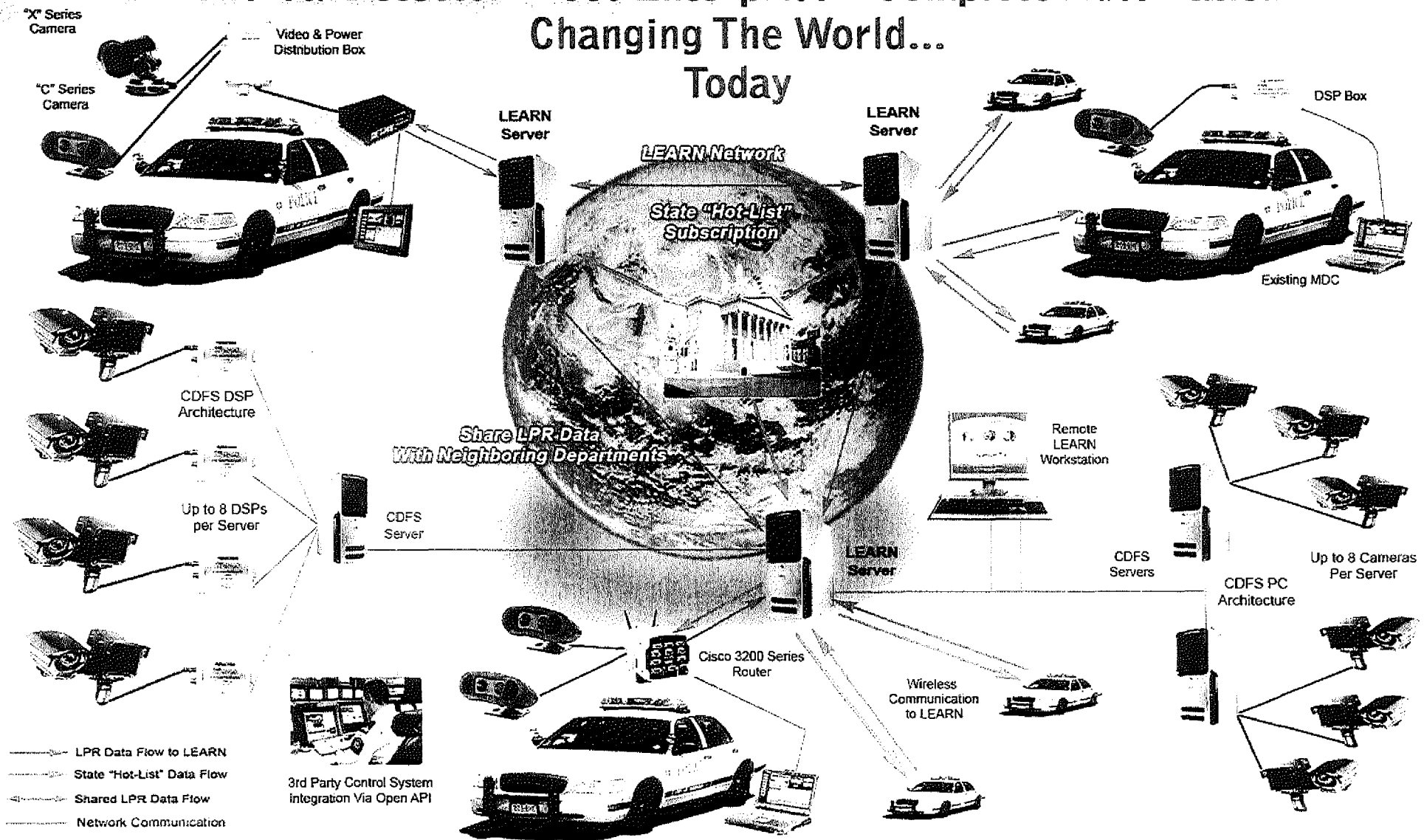
Benefits:

- Common interface for event viewing from all cameras
- Storage provides database for all recorded plate data
- Easy interface for Microsoft compatible output reports
- User interface for ad hoc search and target plate id
- Automated reports to track statistical information
- Statistical reporting & archival documentation for forensic criminal investigation

The CarDetector Fleet Enterprise - Complete Automation

Changing The World...

Today



Vigilant Video

Vigilant - Someone who is tireless, remaining alert at all times keeping watchful... especially to avoid danger.

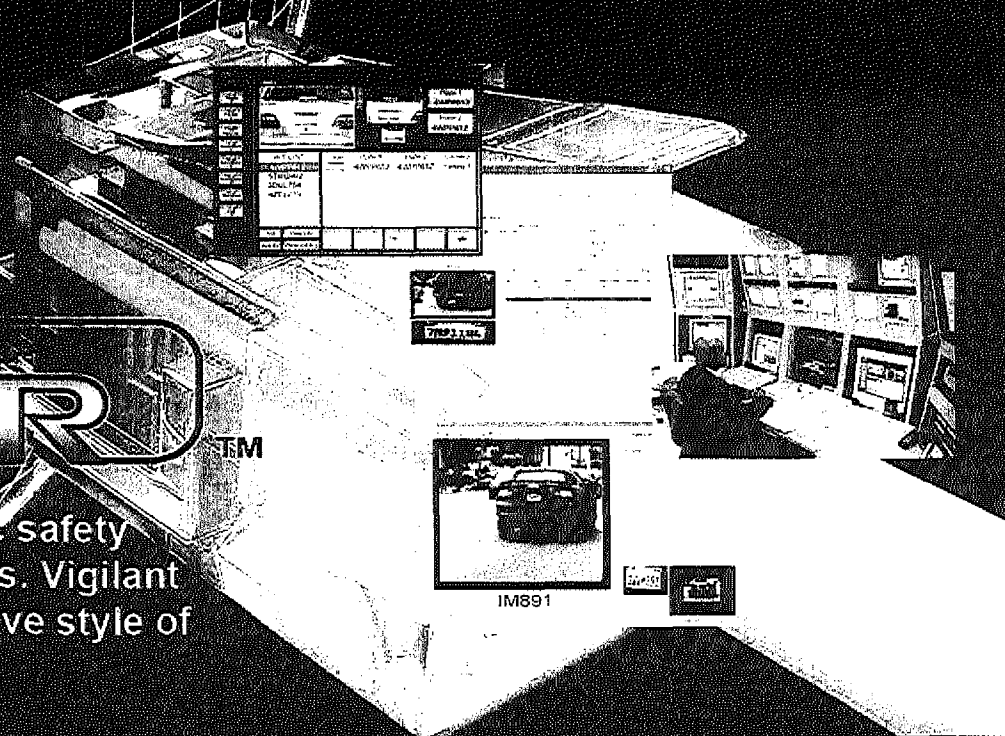
LEARN

Law Enforcement Archival Reporting Network

LEARN offers a universal language transforming Law Enforcement Networks into a world of LPR data - Accurately & Reliable

DETECTOR

CarDetector builds the landscape of secured public safety networks with both Mobile and Fixed LPR solutions. Vigilant Video's technology is quickly changing the operative style of tomorrow's law enforcement efficiency... Today!!!



TONY HAMRICK

From: Lisa Dalisa [lisa@vigilantvideo.com]
Sent: Wednesday, August 12, 2009 4:52 PM
To: TONY HAMRICK
Subject: Our License Plate Recognition system has scanned nearly 1/3 of registered vehicles in TX!
Has yours?
Attachments: image002.jpg; image003.jpg; image004.jpg

Captain Hamrick,

Here is a density map of the TX repo scans we spoke about.

Lisa Dalisa
Sales Administrator
Vigilant Video
2021 Las Positas Ct
Suite 101
Livermore, CA 94551

(925) 398-2079 main ext. 717
(925) 337-7348 cell
(925) 398-2113 fax

www.vigilantvideo.com

"This is sheriff Buford T. Justice. I'm in pursuit of a black Trans Am. He's all mine so stay outta the way."
Buford T. Justice 1977

From: Lisa Dalisa [mailto:lisa@vigilantvideo.com]
Sent: Wednesday, July 22, 2009 11:00 AM
To: 'Lisa Dalisa'
Subject: Our License Plate Recognition system has scanned nearly 1/3 of registered vehicles in TX! Has yours?

Vigilant Video

CarDetector™ – Mobile LPR Systems (CDMS)

Can YOUR LPR provider do this?

1. Vigilant Video has successfully integrated the TCIC/TLETS Hot List and can provide you with automated downloads to your cruisers right now! No more thumb drives or WI-FI hot spot updates and you get up to the minute, real time, hot list information for stolen cars, AMBER alerts, felony warrant, etc.

2. Our backend office LEARN server automatically sends all updates to you at the frequency you designate. Recall data, geo fence crime scenes or hot spots, all from your cruiser, to locate cars of interest.
3. Vigilant Video will launch (scheduled for September 2009) the nation's first formally centralized law enforcement LPR data repository. Under NVLS (National Vehicle Location Services), the LPR data exchange will be made accessible to all qualified law enforcement agencies registered with NCIC.

Vigilant Video has scanned nearly 1/3 of registered vehicles within the state of Texas over the last 12 months!

Vigilant Video is the only company in the United States that has created a private data acquisition conglomerate of 'Spotter' Scout Cars. With efforts we have put forth in the private asset recovery industry, Vigilant Video has developed a network that yields *over 500,000 LPR data scans monthly in the greater Fort Worth Texas area.*

Vigilant Video's goal is to share this data as a benefit to local law enforcement.

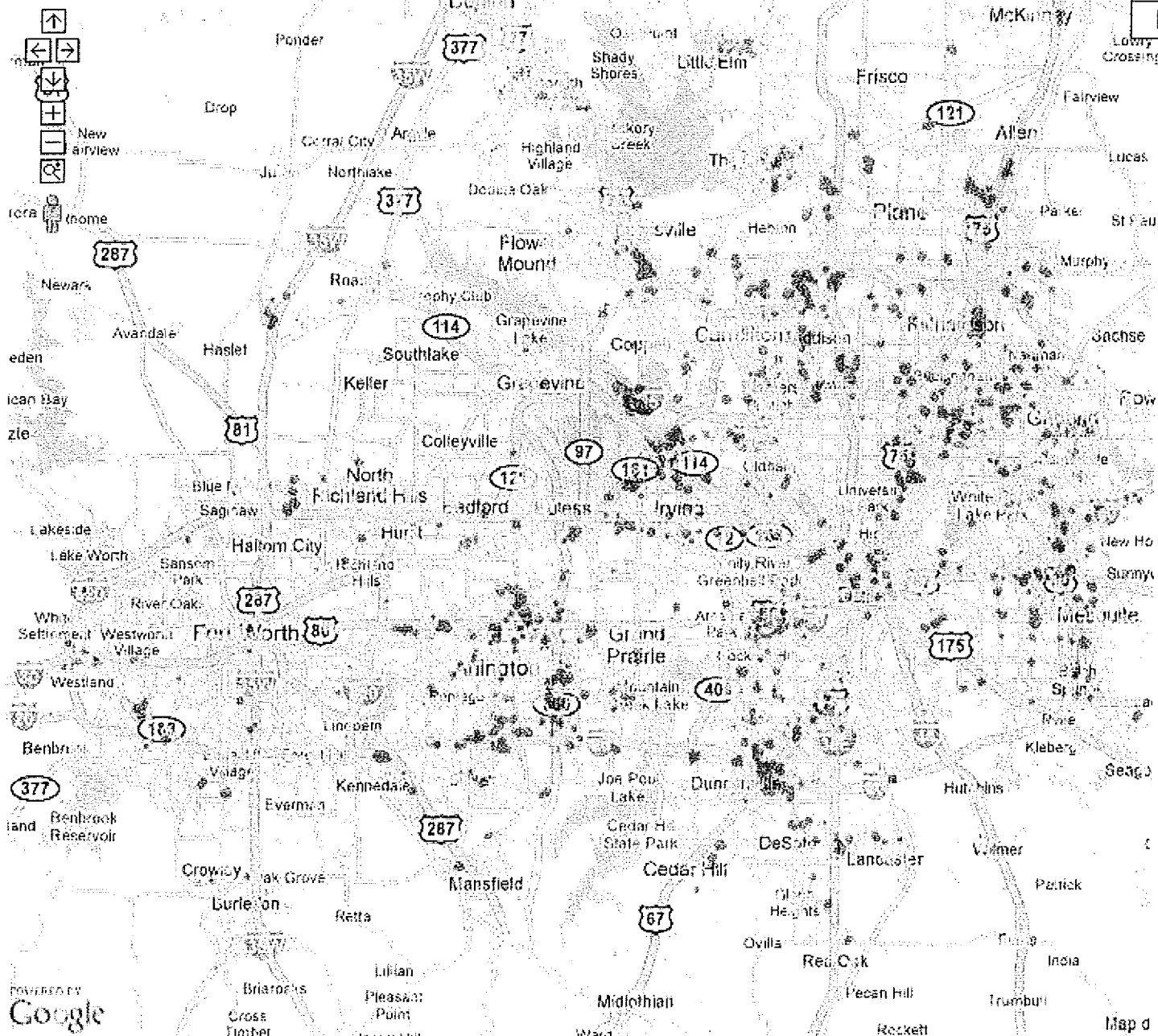
One month LPR Scan Density Maps

DRN LPR Network - Data Scan Density Map

Time: Monthly - June '09 Transparent: ☐ OK

Range of colour: ☒ Default

Green < 100 < Yellow < 100 < Orange < 100



Please note: The above images represent privately acquired license plate data records for the month of June 2009 in the form of Vehicle Scan Record (VSR) density. Vigilant Video offers a Target Alert Service (TAS) whereby this private LPR data is delivered in Real Time to local law enforcement dispatch, patrol vehicles and officers via public safety network pop up alarm windows (when matched to available "Hot-Lists" such as NCIC).

He is out there, but we are Vigilant!

Our LPR technology is the only solution available today that affords a national presence of this magnitude. Our development skills include concentration of imaging analysis, optical character recognition, and database networking. With almost 30 years experience, all software technologies are developed exclusively by Vigilant

Video - no 3rd party development or licensing is exercised. Our development team is 70 members strong, 36 of which are 100% dedicated to our LPR initiatives. We have a proven, tested and documented scalable architecture capable of managing up to 30,000,000 incoming license plate records monthly from various fixed and mobile LPR camera applications across the country.

Vigilant Video has scanned nearly 1/3 of registered vehicles within the state of Texas over the last 12 months!

Call us today for a FREE 30-day demo kit with no obligation!

http://www.vigilantvideo.com/VV_Forms/Demo_Kit_Request.php

Vigilant Video

Vigilant Video 2021 Las Positas Ct Suite 101 Livermore, CA 94551

(925) 398-2079 main ext. 717 (925) 398-2113 fax

www.vigilantvideo.com

JIM FEALY
Chief of Police



PHONE (336) 887-7970
FAX (336) 887-7972
TDD (336) 883-8517

High Point Police Department

Assistant Director Pamela J. Tully
NC State Bureau of Investigation
Criminal Information and Identification Section
3320 Garner Road
PO Box 29500
Raleigh, NC 27626-0500

September 20, 2010

Re: NCIC/DCIN/Nlets System Access Agency New Technology Implementation

Dear Director Tully,

Our Department is planning a trial testing of Automated License Plate Reader (ALPR) systems. The vendors of two systems we are planning to test are Federal Signal PIPS and ELSAG North America. Both of these companies have ALPR systems operating at law enforcement agencies in North Carolina. This test trial should last approximately a month.

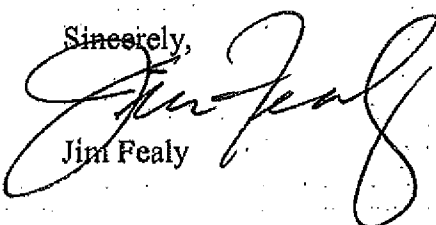
The NCIC extract information would be stored on a secure High Point Police Department (HPPD) server with no direct connection to the internet. The in-car laptop, the same one currently used for DCI access, would download the NCIC extract data from the HPPD server. The in-car laptop is connected to the City of High Point network wirelessly using a Verizon aircard and secured with Checkpoint Secure Client VPN/encryption software.

The NCIC extract data would be used on the in-car laptop to compare against license plate images caught by the ALPR cameras. The officer would be notified when a license plate appears in the NCIC extract data. The officer will then be trained to check the image of the plate to insure that the ALPR software correctly read the plate. The officer will then check the plate through DCI/NCIC to be sure the NCIC record is still active.

The point of contact for our agency is Captain Tony Hamrick (336) 887-7805. Our agency TAC/POC is Pamela Fortune (336) 887-7950.

Your consideration in this matter is greatly appreciated.

Sincerely,



Jim Fealy

1009 Leonard Avenue • High Point, North Carolina 27260
www.high-point.net/dept/police/

TONY HAMRICK

From: DEREK STAFFORD
Sent: Thursday, February 03, 2011 5:43 PM
To: TONY HAMRICK
Subject: LPR Training

Tony,

The Majors are aware, and have talked about the upcoming installation (2/17) and training (2/21) for our new license plate readers. The LPR's will be installed in the vehicles assigned to John Buben and Gary Rene.

The LPR Training should be attended by these two officers, the Street Crimes Unit, IT, someone from the Training unit, a couple of detectives from CID (both shops), representatives in Traffic Unit, I suggest Linda H. or Lavern P., any other patrol that you may want to invite.

As we have mentioned, it is important that several areas of the PD be trained on this equipment in order to use at road blocks/checkpoints, after a major crime, etc.

Please see that these units get invites to the training.

Derek Stafford

Assistant Chief of Police
High Point (NC) Police Department
336.887-7880
derek.stafford@highpointnc.gov

CONFIDENTIALITY NOTICE:

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TONY HAMRICK

From: Mike Hinchcliff [mhinchcliff@majorpolicesupply.com]
Sent: Wednesday, February 02, 2011 2:48 PM
To: TONY HAMRICK
Subject: ALPR prerequisites for optimization & training

Captain Hamrick,

I am the ALPR Engineer that will be on-site to install the BOSS software, optimize the ALPR system and provide training. I would like to schedule the software installation and training for February 18, which is one day following the hardware installation.

In order to move forward with the software installation, I am sending you the server prerequisites and requirements.

BOSS Server system requirements:

- 2 Ghz Pentium 4 compatible processor
- 2 GB RAM
- 500GB HD
- Microsoft Windows XP SP2 (minimum)
- Microsoft 2003/2008 Server (recommended)
- Microsoft SQL Server 2005/2008 Express (minimum)
- Microsoft SQL Server 2005/2008 Standard (recommended)
- .NET 3.5SP1

MDC/MDT Minimum Requirements:

- 1.2 GHz AMD or Intel Processor with 1GB of Memory with 128MB available for PAGIS.
- Windows XP Pro with Service Pack2 or later, (Windows Vista or 7 not supported).
- 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.

To make the software installation run as smoothly as possible it would be helpful to have the following IT related items in place prior to installation:

- Please have the Windows Server machine housing the BOSS software running, with Administrative username and password available.
- Please have SQL express, or SQL Server installed and ready for use.
- Please have login ID and PW available to connect to the NCDOJ to download the NCIC database. You will need to contact Patricia Hart (919) 662-4509 x6356 of the NC State Bureau of Investigation to acquire this access.
- Please have wireless aircards installed and working on each MDC running PAGIS. If wireless is not available in the cars, have a 4GB thumb drive available.

- Make sure there is an available ethernet port on the MDC running PAGIS so that we can create the peer-to-peer network between the MDCs and the Portable Processor in the trunk. If an ethernet port is not available, we can use a USB to Ethernet Port converter
- We will need to set the IP address for the ethernet port on the MDC to 192.200.200.200. I will need admin rights on MDC to perform this action.
- If using a firewall or Proxy Server, the following Ports will need to be opened to allow BOSS to communicate with various components of the system.
 - **TCP PORT 8090:** PAGIS communicates with BOSS on this port to deploy hotlist data, and to retrieve read and hit information from PAGIS (if wireless communication is used).
 - **TCP PORT 32023:** BOSS Smartclient installation port.
 - **TCP PORT 23032 23033:** BOSS and PAGIS service ports.
 - **TCP port 80:** If using Microsoft BING mapping add-on.
- The MDC in the vehicle must be able to PING the BOSS server I/P address. This ensures that the MDC will be able to wirelessly push and pull data from the BOSS server.
- If a VPN is used, it must be configured to allow a peer-to-peer network so that we can connect the MDC to the ALPR processor in the trunk.

Once these items are in place, contact Andrea Cardinale at acardinale@majorpolicesupply.com to schedule the software installation and training.

Please contact me if you have any questions.

Best Regards,

Michael Hinchcliff, Technology Sales

Major Police Supply

Cell: (443) 844-9715 • Fax: (973) 584-5022 • Email: mhinchcliff@majorpolicesupply.com

www.majorpolicesupply.com

www.federalsignal.com

www.pipstechnology.com

www.youtube.com/platereader

<http://pipstechnology.com/news/library>

TONY HAMRICK

From: David McCollum [dmccollum@majorpolicesupply.com]
Sent: Tuesday, August 24, 2010 3:55 PM
To: TONY HAMRICK
Subject: Raleigh PD

Senior Officer John Maultsby of the Raleigh PD conducted the evaluation of several ALPR products and could tell you the good & bad for both products. He has also put together several spread sheets and understand the full potential of the system.

His contact information is 919 278-6344.

MAJOR POLICE SUPPLY

David McCollum

Technology Sales, Southeastern Region
dmccollum@majorpolicesupply.com

Cell: (919) 369-0922

Tel: (973) 584-7714

Fax: (973) 601-7200

TONY HAMRICK

From: PATTY SYKES
Sent: Friday, December 17, 2010 3:44 PM
To: TONY HAMRICK; DEREK STAFFORD; VEE NANCE
Cc: Bob Martin; TRACEY ADAMS
Subject: ALPR System

Jeff has approved the purchase of the License Plate Reader system from Major Police Supply for a total of \$46,000.00.

Vee, please enter the requisition as shown on the bid form, with a break-out of equipment, installation and warranty. (not that you have to be told that) ☺.

Once you have the requisition entered, we will process the order ASAP.

Thanks,

Patty Sykes, CLGPO, Senior Buyer
City of High Point Purchasing Division
211 S. Hamilton St.
High Point, NC 27260
P: 336-883-3220
F: 336-883-3248
Website: www.high-point.net

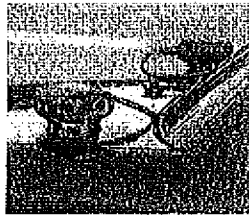
BID TABULATION AUTOMATED LICENSE PLATE RECOGNITION SYSTEM BID NO. 1649-112310				
	Dana Safety	Elsag NA	Major Police Sup	South Sales Com
License Plate Reader	\$ 36,923.08	\$ 37,110.00	\$ 37,590.00	\$ 19,940.00
Software	\$ 1,428.57	\$ -	\$ 795.00	\$ 2,250.00
Server/Hardware	\$ 6,593.41	\$ 975.00	\$ 995.00	\$ 6,410.00
Installation	\$ 5,320.00	\$ -	\$ * 2,620.00	\$ 6,040.00
Total	\$ 50,265.06	\$ 38,085.00	\$ 42,000.00	\$ 34,640.00
		3 camera	4 camera	
Extended Warranty				
Year 1	\$ 4,900.00	\$ -	\$ 2 x 2,000.00	\$ -
Year 2	\$ 9,100.00	\$ -	\$ 2 x 2,000.00	\$ -
Year 3	\$ 12,600.00	\$ -	\$ 2 x 2,000.00	\$ 727.00
User License				
Admin & 2 Users	\$ 230.00	\$ -	\$ ✓ -	\$ 500.00
Admin & 5 Users	\$ 230.00	\$ -	\$ 2,250.00	\$ 500.00
Additional Equipment				
Lightbar	\$ 2,293.20	\$ 3,262.50	\$ -	\$ 4,300.00
Rumbler	\$ 695.66	\$ 953.20	\$ -	\$ 968.00
Lightbar Installation		\$ 550.00		
Delivery & Installation	30 Days	30 Days	45 Days	30 Days
	\$66,083.92	\$42,850.70 4 yr warranty	\$50,250 \$54,000 1 yr warranty \$42,000 1 yr warranty	\$41,135

Introduction

Over the past several weeks, the department tested two automatic license plate readers (ALPR). The first ALPR system tested was provided by PIPS TECHNOLOGY (PIPS). The second ALPR system tested was by ELSAG North America.

Installation

The PIPS ALPR was installed on a Chevrolet Impala demonstration vehicle provided by the vendor. The system required four (4) low-profile cameras that were mounted around the vehicle's emergency light bar. The ELSAG ALPR was installed on a fully marked, HPPD Ford Crown Victoria. The system required three (3) cameras, much larger in size, that were mounted on the trunk of the vehicle.



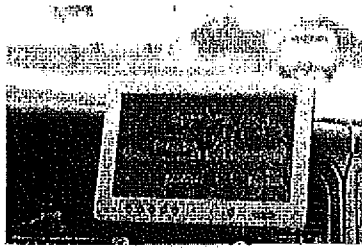
ELSAG trunk mounted system

Software Comparison

The PIPS ALPR was pre-installed on a dedicated touch screen inside the demonstration vehicle. The demonstration vehicle did not have access to VISUAL MCT or any HPPD software. Normally, the program would run in a separate window and the user would have the ability to simultaneously run VISUAL MCT on their MDT.

The user interface of the PIPS ALPR was simple and user friendly. The screen consisted of two windows in the center of the screen that displayed the last registration plate captured, the infrared image and the system's interpretation or read out of that infrared image.

The software allows the operator to manually enter plates, such as a registration plate associated with a recent BOL/ATL that would not normally be included in the vehicle 'hotlist.' The operator also has the ability to search a database of previously captured plates.



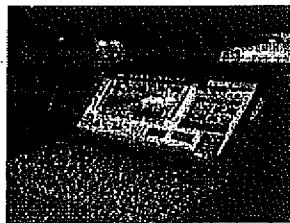
PIPS Software Interface

* PIPS also demonstrated a back office software suite which allows users to search a database of registration plates captured by the mobile units. The suite creates an investigative database that can be searched by a full or partial registration number and cross referenced by time and/or location.

No software issues and/or crashes were noted during testing.

During testing, the PIPS software would disable and shutdown when the vehicle was turned off. Subsequently, the system needed to be rebooted after the vehicle was restarted. No such reboot was required with the ELSAG ALPR. *(would not be an issue if installed in HPPD vehicle)*

ELSAG's ALPR software was installed on an HPPD MDT and access to Visual MCT was available. The system's software runs in a separate window that can be minimized during utilization of Visual MCT. Registration plates captured by the cameras are stored on the individual officers MDT; it is unclear if ELSAG has a back office software suite. *ELSAG does have this "Operations Center" that manages historical data.* The user interface of the ELSAG ALPR was simple and user friendly. The screen consisted of a single window in its center that displayed that last registration plate capture as well as the infrared image and the systems interpretation or read out of that infrared capture. The screen also displayed the last five (5) registration plates captured.



ELSAG software interface

As with the PIPS ALPR, the ELSAG system allows the operator to manually enter registration plates of interest as well as search registration plates that have already been captured.

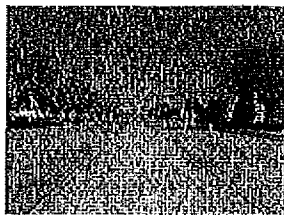
On two (2) occasions the ELSAG software crashed for no apparent reason; each crash resulted in a complete reboot of the MDT. None of the data prior to the crash was recovered.

In testing, the ELSAG user interface was found to be more operator-friendly and aesthetically pleasing. The ELSAG software used larger fonts, buttons and toggles which required less time to manipulate while working in hurried conditions.

Operational Testing Comparison

In the PIPS ALPR, the forward facing camera is located on the driver side which limits the system from detecting registration plates moving in the same direction unless the system is operated in the right hand lane. Conversely, the ELSAG system could capture registration plates on moving vehicles, in the same direction from either the right or left hand lane because the systems uses two (2) forward facing cameras.

Many of the streets and highways located in the City of High Point are two (2) to four (4) lanes with a divided, unprotected median such as Eastchester Drive, or North Main Street. Both systems had a limited ability to clearly capture targets moving in the opposite direction due to the distance between the target and the system.



Both the PIPS and ELSAG ALPR could not read across the turn lane

When no median was present, the ELSAG ALPR was more capable of capturing registration plates moving in the opposite direction of the system.

Both systems were able to effectively capture stationary registration plates that were perpendicular to the system; this is most commonly found in public vehicular areas such as a large shopping center. The ELSAG ALPR required the cameras to be positioned more closely to the target registration plate compared to the PIPS system. The PIPS ALPR required the operator to significantly reduce speed to successfully capture a perpendicular registration plate.

While both ALPR systems had similar results during daytime operational testing, the PIPS ALPR was not conducive to nighttime operation. The infrared sensor repeatedly failed to detect registration plates without the presence of an ambient light source such as a street light.

The ELSAG ALPR had no significant nighttime operational usage issues.

During both day and nighttime operational testing, the ELSAG ALPR would capture false targets. False targets are categorized as reflective objects detected by the infrared sensor; these objects include stop signs, highway signs, and reflective lettering on vehicles.

The PIPS ALPR rarely detected any false targets.

* Ret nighttime ops: I later rode w/ sales rep at night to test system. I observed no problem reading plates at night at any speed. The issues we had w/ test vehicle were probably due to camera position.

Currently the State issues vehicle registration plates with thin, tightly spaced red lettering that bleed together when targeted by the infrared sensor; this causes the sensor to misread letters such as "W," "V," and "N." Both ALPR systems routinely misread these letters; for example, a registration plate that began with "WV" might be read by the system as "VVV."



Example of a misread plate

North Carolina also issues specialized plates with characters printed vertically on the right side of the plate; neither ALPR system can recognize these characters.



Both the ELSAG and PIPS ALPR cannot recognize the "S," and "M" characters on this registration plate

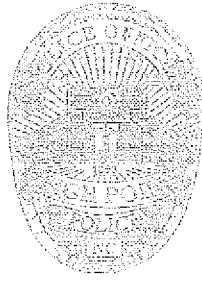
PIPS said they
can adjust to read
these plates.

Conclusion

The PIPS ALPR system features a low-profile installation and offers a back office server that generates a powerful investigative database; however, its inability to accurately capture targets during lowlight operations severely limits its use. On the other hand, the ELSAG ALPR system more accurately captures targets using a more operator friendly interface but at the price of a more hulking, and vulnerable exterior package.

J.A. Buben
High Point Police Department
Field Operations North – Fox Team

JIM FEALY
Chief of Police



PHONE (336) 887-7970
FAX (336) 887-7972
TDD (336) 883-8517

High Point Police Department

Patty Sykes, CLGPO, Senior Buyer
City of High Point Purchasing Division
211 S. Hamilton St.
High Point, NC 27260

December 8, 2010

Re: Justification on purchase of Federal PIPS Automated License Plate Readers

Dear Ms. Sykes,

In November, we sent out a bid request for 2 mobile Automated License Plate Reader (ALPR) systems with a deadline of November 23rd at 5:00 pm. We received four bids before the deadline. We received bids from ELSAG North America, Federal PIPS, SkyCop, and Vigilant Video. During our research of ALPR technology we discovered that ELSAG and PIPS appeared to be the leaders in the ALPR industry. We have field tested both ELSAG and PIPS over the past several months.

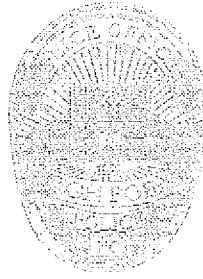
On December 2, 2010, I presented the findings of our research and my recommendation to purchase the Federal PIPS ALPR system to Major Derek Stafford. It was recommended that an additional 1 year warranty be purchased with this system which would extend the warranty to 2 years. This would bring the total cost for 2 mobile ALPR systems to \$46,000.00. He subsequently met with Chief Fealy and the other Majors and the decision was made to purchase the PIPS ALPR. The funds to purchase these systems are from the 2010 JAG money for technology purchase. The following is a summary of the justification for this purchase.

Vigilant Video is located in California and the only user of their system in NC is HPU. Their cameras are as large or larger than ELSAG's and have more exposed cables running across the top of the car and into the trunk. Their price was **\$40,408 with 2 year warranty**. This price includes the light bars and rumblers.

SkyCop is a one camera system that is larger than both ELSAG and Vigilant. This company appears to specialize more in fixed ALPR's. There are no departments in NC that use their system. They are based in Memphis, Tn. Their price was **\$58,383.92 with 2 year warranty**. This price includes the light bars and rumblers.

ELSAG North America corporate headquarters is in New York but their Manufacturing, Support and Technical Services for ALPR is located in Greensboro. Durham County is the only department they list as using their system. (Durham City is purchasing 7 mobile PIPS systems). ELSAG has a three camera system that mounts on the trunk and the cameras are considerably larger than PIPS. These cameras function as well as PIPS but do capture considerably more false targets. Their system does have data

JIM FEALY
Chief of Police



PHONE (336) 887-7970
FAX (336) 887-7972
TDD (336) 883-8517

High Point Police Department

mining capability for investigative purposes. The PIPS system, however, has more advanced search options. During the testing phase we did have some problems with the ELSAG system crashing and this led to some problems with customer service. Their price was **\$42,850.70 with a 2 year warranty**. This price includes the light bars and rumblers.

Federal PIPS corporate headquarters is in Knoxville, Tn. Several departments in NC use or are in the process of purchasing the PIPS system. Raleigh PD, Lexington PD, and Jacksonville PD are currently using PIPS. Durham PD and Thomasville PD are in the process of purchasing PIPS. PIPS has a 4 camera system that is integrated around the vehicles light bar. These cameras are smaller and appear to be additional lights. PIPS has a Back Office System Software (BOSS) used for data mining. Users of the BOSS system can query the data against multiple search parameters including time, date, full or partial plate, location and user. The BOSS system can also map all locations related to a single plate to track vehicle movements. The systems web interface enables data to be easily shared across multiple locations and agencies. Their price is **\$46,000 with a 2 year warranty**. This price includes the light bars and rumblers.

Benefits of BOSS:

Ease of administration

Easy access to data

Simplifies data-sharing with other agencies

Powerful analysis and intelligence

Supports data import from competitors' systems (ELSAG will not import from competitor)

My recommendation is to purchase the PIPS system with a 1 year extended warranty and I base this on the Back Office System Software, the size and aesthetics of the cameras, fewer numbers of false reads that would take up more space on the server and the customer service that I have observed during the testing phase. PIPS installers would come to High Point to do the installation and would do some training of Radio Shop personnel and they would be able to perform minor repairs and adjustments to the cameras.

Sincerely,

Captain Tony Hamrick

Captain Tony Hamrick

TONY HAMRICK

From: TONY HAMRICK
Sent: Thursday, December 02, 2010 1:25 PM
To: DEREK STAFFORD
Subject: ALPR bids
Attachments: ALPRrecommend.pdf

Attached is the bid tabulation sheet and I also attached the summary of the testing results for PIPS and ELSAG with written notes that I made.

ELSAG and PIPS seem to be the leaders in the ALPR industry.

We received two other bids from Dana Safety Supply "Sky Cop" and South Sales Communications "Vigilant Video"

Vigilant Video is located in California and the only user of their system in NC is HPU. Their cameras are as large or larger than ELSAG's and have more exposed cables running across the top of the car and into the trunk.

SkyCop is a one camera system that is larger than both ELSAG and Vigilant. This company appears to specialize more in fixed ALPR's. There are no departments in NC that use their system. They are based in Memphis, Tn. Their price was also \$66,000.

ELSAG's corporate headquarters is in New York but their Manufacturing, Support and Technical Services for ALPR is located in Greensboro. Durham County is the only department they list as using their system. (Durham City is purchasing 7 mobile PIPS systems). ELSAG has a three camera system that mounts on the trunk and the cameras are considerably larger than PIPS. These cameras function as well as PIPS but do capture considerably more false targets. Their system does have data mining capability for investigative purposes. The PIPS system, however, has more advanced search options. During the testing phase we did have some problems with the ELSAG system crashing and this led to some problems with customer service. Two ELSAG mobile systems with a 3 year extended warranty is \$42,850.70. This price includes the light bars and rumblers.

PIPS corporate headquarters is in Knoxville, Tn. Several departments in NC use or are in the process of purchasing the PIPS system. Raleigh PD, Lexington PD, Jacksonville PD, and Durham PD and Thomasville PD are in the process of purchasing PIPS. PIPS has a 4 camera system that is integrated around the vehicles light bar. These cameras are smaller and appear to be additional lights. PIPS has a Back Office System Software (BOSS) used for data mining. Users of the BOSS system can query the data against multiple search parameters including time, date, full or partial plate, location and user. The BOSS system can also map all locations related to a single plate to track vehicle movements. The systems web interface enables data to be easily shared across multiple locations and agencies. Two PIPS systems with 1 year warranty

is \$42,000. This price includes the light bars and rumblers. To extend the warranty to 2 years would be \$46,000.

Benefits of BOSS:

Ease of administration

Easy access to data

Simplifies data-sharing with other agencies

Powerful analysis and intelligence

Supports data import from competitors' systems (ELSAG will not import from competitor)

At this point my recommendation would be to purchase the PIPS system and I base this on the Back Office System Software, the size and aesthetics of the cameras, fewer number of false reads that would take up more space on the server and the customer service that I have observed during the testing phase. PIPS installers would come to High Point to do the installation and would do some training of Radio Shop personnel and they would be able to perform minor repairs and adjustments to the cameras.

Captain Tony Hamrick

Captain Tony Hamrick
Special Investigation Section
High Point Police Department
(336) 887-7805



General Sales Administration
T/A Major Police Supply
47 N. Dell Ave
Kenvil, NJ 07847
Phone (800) 666-4472 Fax (973) 584-5022

November 16, 2010

Capt Tony Hamrick
High Point police department
1009 Leonard Avenue
High Point, NC 27260

REF: Two 4-Camera Mobile SLATE ALPR Price Quote

I'm pleased to provide you with this quote for (2) four Camera Mobile ALPR systems "hard" mounted and integrated into a laptop on your vehicle.

Key points about Federal Signal PIPS in the ALPR market:

- For more than 16 years, PIPS has **only** focused on Automatic 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 (BOSS) that provides data-mining of "historic" license plate information obtained and stored from all deployed mobile (and fixed) systems within your department.
- PIPS has two patents:
 - **PlateFinder** – Identifies license plates based on reflective properties and physical size of plates, which reduces false triggers (mailboxes, picket fences, street signs, etc.).
 - **TripleFlash** – Varies flash, shutter and gain settings to capture multiple images per vehicle, ensuring a quality image over a wide range of ambient and environmental conditions.

Quote:

To coincide with our equipment delivery and installation/optimization schedules, Major Police Supply requests that the Purchase Order(s) for quoted systems be prepared as follows:

Purchase Order #1 – All equipment and software shipped to customer.

Purchase Order #2 – Installation, Final Optimization, and Customer Training.

This quote reflects the respective costs associated with the two Purchase Orders. This allows us to ship the equipment in a timely manner to your delivery site, and provides you with the flexibility required for identification of vehicle, server ready time, installation schedules, etc.

PROPOSAL:

Item	Qty	Equipment and Software Purchase Order #1	List Item Cost
1	2	SLATE-810-LE-G Four 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.	\$37,590
2	1	PIPS-SW-BOSS 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.	\$995
3	1	BOSS-SRVR PIPS rack server hardware platform for use with the BOSS Back Office Software System for customer data storage and application functionality. Main server elements include Quad Core 2 GHz Processor configuration with 4 GB memory, 750 GB Hard Drive and Windows Server 2003 OS.	Customer provided
5	1	Advanced mapping utilizing Bing Maps. Provides enhanced mapping functionality including satellite imagery, bird's eye, and multiple view options.	\$795
Total			\$39,380

Item	Qty	Installation, Optimization, and Training Purchase Order #2	List Item Cost
6	2	PIPS-SRVC-FE-Mobile; Field Engineering services for installation, optimization, IT configuration, and training for mobile ALPR vehicles to include PAGIS and BOSS.	\$2,620
Total			\$2,620

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), therefore additional vehicles or fixed cameras will not require items 2 and 3.

NOTE 2: This quote includes freight costs but does not include appropriate sales tax and is subject to the attached PIPS' standard terms, conditions and warranties.

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.

NOTE 3: This software has a 10 GB storage limit (approx. 300,000 license plate reads). If your agency has a full Microsoft Sequel License, BOSS integrates with it and the only limit to data storage would be the amount of server hard disk space available. 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
- 32 GB of RAM
- SCSI or SAS hard drives at 10,000 RPM
- 1 GB of hard drive space per 30,000 reads stored
- Full version of Microsoft SQL Server

If a dedicated server is required for this application, we can provide a quote based on the following expectations:

- 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

NOTE 4: The above \$995 BOSS pricing includes 1 administrative plus 2 user license. Additional concurrent user licenses are priced as follow:

Block of 5	\$2250
Block of 10	\$3500
Block of 25	\$7000

Note 5: All PIPS equipment hardware and software is covered by a one-year parts and labor warranty. Extended warranty agreements are available for either the complete system including hardware and software or an option for software only. These agreements supply the end user with upgrades and improvements to our OCR engine for enhanced plate detection capabilities and software upgrades sold by PIPS Technology, Inc.

Per Mobile Unit Extended Warranty (Hardware and Software)	Unit Cost
2 nd Year –Annual Mobile System Warranty Renewal	\$2,000
3 rd Year –Annual Mobile System Warranty Renewal	\$2,000
4th Year –Annual Mobile System Warranty Renewal	\$2,000
5th Year –Annual Mobile System Warranty Renewal	\$2,000
NOTE: Above price are cumulative. i.e. total 5 yr warranty extension would be \$8,000 (1 year warranty + 4 years Extended Warranty)	

Per Mobile Unit Extended Warranty (Software Only)	Unit Cost
2 nd Year –Annual Mobile Software Warranty Renewal	\$1,250
3 rd Year –Annual Mobile Software Warranty Renewal	\$1,250
4th Year –Annual Mobile Software Warranty Renewal	\$1,250
5th Year –Annual Mobile Software Warranty Renewal	\$1,250

NOTE 6: The warranty fee for the BOSS Software for the first year is free. The warranty price for additional years will be adjusted according to the plan you intend on purchasing. Figures are as follows:

BOSS Extended Warranty	Unit Cost
Base Package - One administrator and two user license	\$165/year
Block of 5 concurrent user license	\$275/year
Block of 10 concurrent user license	\$550/year
Block of 25 concurrent user license	\$1,375/year
NOTE: The warranty can be extended for 4 additional years. Blocks of concurrent users are in addition to the base package. If an agency adds additional user licenses during the course of a year, the maintenance charge for the additional users will apply when the maintenance contract is up for renewal.	

NOTE 7: Our BOSS Software is compatible with several mapping utilities:

- Tiger Maps – U.S. Census Bureau mapping utility which is free, and requires no internet connection.
- MS MapPoint – (Optional) Provides more detail than Tiger Maps and has a cost of \$150/workstation.
- MS Virtual Earth – (Optional) Provides greatest detail including satellite imagery. Cost is \$795/BOSS Server.

Please let me know if you have any questions or require any additional information.

Best Regards,

David R. McCollum, Jr.
Technology Sales Representative
Major Police Supply
Phone: 919 369-0922
Email: dmccollum@majorpolicesupply.com

REQUEST FOR PROPOSALS – ALPR SYSTEM



NORTH CAROLINA'S INTERNATIONAL CITY™

City Of High Point
Purchasing Division
211 S. Hamilton St., PO Box 230
High Point, NC 27260
Phone: 336-883-3219 Fax: 336-883-3248
T Robert (Bob) Martin, Purchasing Manager
purchasing@highpointnc.gov

PROPOSAL NUMBER: 1649-112310	DATE: November 15, 2010
QUOTE DUE NO LATER THAN Tuesday, November 23, 2010 at 5:00 PM	
BUYER: Patty Sykes patty.sykes@highpointnc.gov TELEPHONE: (336) 883-3220	Bid price shall be FOB Destination and include delivery and installation to: City of High Point Police Department Attn: Captain Tony Hamrick 1009 Leonard Ave. High Point, NC 27260

- Pursuant to General Statutes of North Carolina, Section 143-129, as amended, bids and proposals subject to the conditions and specifications herein, are invited for materials and equipment as described herein.
- Prices or any other entry made hereon by the bidders shall be considered firm and not subject to change or withdrawal.
- Bidders certify under penalty of perjury that this bid has not been arrived at collusively and that no Federal or North Carolina antitrust laws have been violated.
- State and County sales taxes **shall not be included** in the bid prices. Sales tax shall be added to vendors invoice and will be paid to vendor at time of invoice payment.
- Bidders shall sign this form and return it with additional bid documents on or before the above date and time, to the City of High Point Purchasing Division, P O Box 230 (27261), 211 S. Hamilton St., High Point, NC 27260. Bids may be returned by Fax to 336-883-3248 or email patty.sykes@highpointnc.gov

General Sales Administration T/A Major Police Supply

Company Name
47 N. Dell Ave

Address
Kenvil NJ 07847

City State Zip
smarkiewicz@majorpolicesupply.com

E-mail

Signature 
Steve Markiewicz

Above (typed or printed)
11-18-10

Date
813-601-7200 973-584-5022

Telephone Fax



By checking this box, I acknowledge that I have read and accept the terms and conditions associated with this bid.

PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310

QTY	DESCRIPTION	UM	UNIT PRICE	TOTAL PRICE
2	License Plate Reader Slate-810-LE-G (or approved equal)	Ea	\$18,795.00	\$37,590.00 ✓
Brand & Model Offered		PIPS Technology Slate-810-LE-P 4 camera ALPR and software		
2	System Software	Ea	\$795.00	\$795.00 ✓
Brand & Model Offered		BOSS-MAP - Advanced mapping utilizing Bing Maps -1 per sys.		
2	Server Hardware Platform	Ea	\$995.00	\$995.00 ✓
Brand & Model Offered		PIPS BOSS-ADMIN back office software -one req. for systems		
Installation – including Field Engineering services for installation, configuration, and training for mobile ALPR system, including system administration and user training on software.				
Installation		\$ 2,620.00 ✓		
Extended Warranty Pricing (after 1 year warranty expiration)				
	Year 1	Per Year	\$ 2,000.00 x 2 ✓	
	Year 2	Per Year	\$2,000.00 x 2 x	
	Year 3	Per Year	\$2,000.00 x 2 x	
Licensing Fees				
	One Administrator & Two User License	Per Year	Included in BOSS pricing ✓	
	One Administrator & Five User License	Per Year	\$ 2,250.00 x	
Additional Equipment Pricing				
2	Lightbars - Whelen Liberty SC LED Lightbar with Traffic Advisor (or approved equal)	Ea	\$0	\$0
Brand Name & Model Offered		Fed. Sig. Legend LGD45Y-00135 + HKB-CV92 hook kit		
2	Rumbler™ Intersection-Clearing System (or approved equal)	Ea	\$0	\$0
Brand Name & Model Offered		Rumbler 3 Intersection Clearing system + RB-CV105 bracket		

Delivery and Installation will be made within <u>45</u> days after receipt of order	Payment Terms: Net <u>30</u>
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PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310
(Page 2)

SERVICE: Adequate and satisfactory availability of repair parts, supplies and ability to meet warranty requirements are necessary. The City reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard. The bidder shall offer warranty service by a qualified technician/mechanic at user's site. List below firms nearest in location to the user from which to obtain parts and service after the warranty has expired.

FIRM NAME	LOCATION	CONTACT	PHONE
RCS Communications	Winston Salem, NC	Dean Hedrick	336-788-9191
Lawmen's Supply	Raleigh and Charlotte, NC	Al Sutton	919-779-6141
Major Police Supply	Kenvil, NJ	David McCollum	973-584-7714

REFERENCES: The vendor must demonstrate that he has proven experience in the installation of automated license plate recognition systems. Bidder should list below at least three (3) customers of comparable size who have purchased and are actively using the offered ALPR System.

FIRM NAME	LOCATION	CONTACT	PHONE
Raleigh Police Department	Raleigh NC	John Maulsby	919-996-1145
Wicomico Police Dept.	Wicomoco County Maryland	Capt. Mike Elliot	410-548-5805
Cincinnati Police Dept	Cincinnati Ohio	Heather Whitton	513-263-8134 41

Lexington PD
Jacksonville
Henderson
Durham



General Sales Administration

T/A Major Police Supply

47 N. Dell Ave

Kenvil, NJ 07847

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

November 18, 2010

City of High Point
Purchasing Division
211 S. Hamilton St.
High Point, NC 27260

Attn: Bob Martin, Purchasing Manager

Ref: Request for Proposal – Number 1649-112310

Major Police Supply is pleased to respond to this RFP for the City of High Point. Our intent is to provide a complete and detailed proposal of our ALPR solution.

To explain our role, Major Police Supply has been selected by Federal Signal Corporation (<http://www.federalsignal.com/>) to be the Master Distributor of PIPS Technology ALPR (<http://pipstechnology.com/>) on the East Coast of the US. Major Police Supply provides a turnkey service including consultation, installation, integration, and warranty/maintenance support for the PIPS Technology product.

The key benefits to the City of High Point include:

With the support of Federal Signal, you have the assurance of working with a worldwide leader in Safety and Security Systems

PIPS Technology is recognized as having the most accurate ALPR system on the market with over 17,000 systems deployed worldwide. ALPR is PIPS only business.

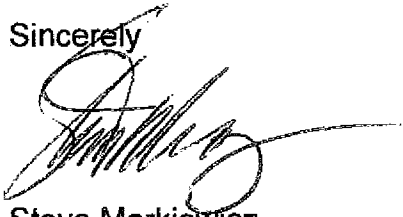
With Major Police Supply, you will have the resources of a company who has been supporting the law enforcement community for over 20 years.

As your local Representative in North Carolina, David McCollum will be your primary contact on this project. If you require any additional information or detail, please advise.

In response to your RFP, we will be forwarding our bid response in two stages. The first will be this emailed response to the acknowledgement of the bid terms and conditions as well as the requested pricing, references, and service capabilities. The second will be an express mailed copy of the same plus requested technical specifications and collateral. Each will be received prior to the RFP close date.

We look forward to working with the City of High Point on this important project.

Sincerely

A handwritten signature in black ink, appearing to read 'Steve Markiewicz', with a long horizontal flourish extending to the right.

Steve Markiewicz
Technology Sales Manager
Major Police Supply



A Federal Signal Company

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.



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- 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.



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- 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.



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- 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).



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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.



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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.



A Federal Signal Company

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

- 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.



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- 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

REQUEST FOR PROPOSALS – ALPR SYSTEM



City Of High Point
Purchasing Division
211 S. Hamilton St., PO Box 230
High Point, NC 27260
Phone: 336-883-3219 Fax: 336-883-3248
T Robert (Bob) Martin, Purchasing Manager
purchasing@highpointnc.gov

PROPOSAL NUMBER: 1649-112310	DATE: November 15, 2010
QUOTE DUE NO LATER THAN Tuesday, November 23, 2010 at 5:00 PM	
BUYER: Patty Sykes patty.sykes@highpointnc.gov TELEPHONE: (336) 883-3220	Bid price shall be FOB Destination and include delivery and installation to: City of High Point Police Department Attn: Captain Tony Hamrick 1009 Leonard Ave. High Point, NC 27260

- Pursuant to General Statutes of North Carolina, Section 143-129, as amended, bids and proposals subject to the conditions and specifications herein, are invited for materials and equipment as described herein.
- Prices or any other entry made hereon by the bidders shall be considered firm and not subject to change or withdrawal.
- Bidders certify under penalty of perjury that this bid has not been arrived at collusively and that no Federal or North Carolina antitrust laws have been violated.
- State and County sales **taxes shall not be included** in the bid prices. Sales tax shall be added to vendors invoice and will be paid to vendor at time of invoice payment.
- Bidders shall sign this form and return it with additional bid documents on or before the above date and time, to the City of High Point Purchasing Division, P O Box 230 (27261), 211 S. Hamilton St., High Point, NC 27260. Bids may be returned by Fax to 336-883-3248 or email patty.sykes@highpointnc.gov

Dana Safety Supply
Company Name
5221 W. Market St.
Address
Greensboro, NC 27409
City State Zip
mseviqny@4dss.com
E-mail

Mark Seviqny
Signature
Mark Seviqny
Above (typed or printed)
11-22-2010
Date
800 845-0045 888 375-8347
Telephone Fax



By checking this box, I acknowledge that I have read and accept the terms and conditions associated with this bid.

PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310

QTY	DESCRIPTION	UM	UNIT PRICE	TOTAL PRICE
2	License Plate Reader Slate-810-LE-G (or approved equal)	Ea	\$ 18,461.54	\$ 36,923.08
Brand & Model Offered		Sky Cop SC-PTLPR-03/SC-COLCAM 06		
2	System Software	Ea	\$ 14,285.71	\$ 28,571.42
Brand & Model Offered		Sky Cop AU-P-MJBASE		
2	Server Hardware Platform	Ea	\$ 6,593.41	\$ 13,186.82
Brand & Model Offered		Sky Cop SC-Backoffice Server		
Installation – including Field Engineering services for installation, configuration, and training for mobile ALPR system, including system administration and user training on software.				
Installation		\$ 5,320.00		
Extended Warranty Pricing (after 1 year warranty expiration)				
	Year 1	Per Year	\$ 4,900.00	
	Year 2	Per Year	\$ 9,100.00	
	Year 3	Per Year	\$ 12,600.00	
Licensing Fees				
	One Administrator & Two User License	Per Year	\$ 230.00	
	One Administrator & Five User License	Per Year	\$ 230.00	
Additional Equipment Pricing				
2	Lightbars - Whelen Liberty SC LED Lightbar with Traffic Advisor (or approved equal)	Ea	\$ 11,466.00	\$ 22,932.00
Brand Name & Model Offered		Whelen Liberty		
2	Rumbler™ Intersection-Clearing System (or approved equal)	Ea	\$ 347.83	\$ 695.66
Brand Name & Model Offered		Whelen Howler		

Delivery and Installation will be made within <u>30</u> days after receipt of order	Payment Terms: Net <u>30</u>
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PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310
(Page 2)

SERVICE: Adequate and satisfactory availability of repair parts, supplies and ability to meet warranty requirements are necessary. The City reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard. The bidder shall offer warranty service by a qualified technician/mechanic at user's site. List below firms nearest in location to the user from which to obtain parts and service after the warranty has expired.

FIRM NAME	LOCATION	CONTACT	PHONE
Sky Cap	Memphis, TN (MS)	Shane Williams	901-386-7340
Sky Cap	Atlanta, Ga	Scott Morzywa	404-925-0260
Sky Cap also will bring in service man and will be			

REFERENCES: The vendor must demonstrate that he has proven experience in the installation of automated license plate recognition systems. Bidder should list below at least three (3) customers of comparable size who have purchased and are actively using the offered ALPR System. *regions in local service shop at Drug Safety Syst*

FIRM NAME	LOCATION	CONTACT	PHONE
El Paso Police Dept Auto Theft Task Force	700 E 7th Ave El Paso, TX 79901	Sgt. Robert Gomez	915-892-6222
Memphis Police Dept	201 Poplar Ave Rm 901 Memphis, TN 38103	H. Ken Shackelford	901-601-6930
Fort Leonard Wood	Fort Leonard Wood Missouri	Rick Vise Rick Vise @ us.army.mil	573-596-0171 677779

ADDITIONAL INSTRUCTIONS

Questions on technical specifications should be directed to: Captain Tony Hamrick, City Of High Point Police Department at 336-887-7805. All other questions may be directed to Patty Sykes, Senior Buyer, at 336-883-3220.

MAKE AND MODEL: Indicate manufacturers' name and model number of item offered in the spaces provided. **Complete descriptive literature and manufacturer's specifications shall be included in the bid.**

WARRANTY: Equipment shall be new and shall be guaranteed against defect in materials, workmanship, and performance in accordance with the manufacturer's standard warranty, except that in no event shall such coverage be less than one (1) year. Warranty coverage shall begin on the date of acceptance by the City of High Point. **Warranty service shall be available on site** at any location within the state of North Carolina. Defective units shall be repaired or replaced during the warranty period at no cost to the City of High Point or its representative.

INSTRUCTION BOOK: The vendor shall furnish a booklet or pamphlet giving complete instructions for the operation, lubrication, adjustment, and care of the equipment.

DEMONSTRATION: Bidder must be capable of demonstrating proposed equipment within seven (7) consecutive calendar days after notification at no additional cost to the City. If required, this will be a comprehensive demonstration at a site designated by the City with hands-on participation by agency operator(s) if necessary. Bids that fail to comply with this requirement may be subject to rejection.

EQUIPMENT AND ACCESSORIES: All equipment and accessories listed as standard items in the manufacturer's current product literature, but not listed in these specifications shall be included with the equipment.

SERVICE UPON DELIVERY: Unit shall be complete, serviced and ready for operation. The City will only accept and approve for payment equipment that is complete in every respect and ready for operation.

STANDARD PRODUCTION MODEL: The attached specifications include the requirement that the equipment herein requested be a "standard production model of the latest design". To meet this requirement the equipment offered shall be new and the latest production model as represented in the manufacturer's current published literature intended for the general public. Such literature must represent the specific configuration offered. Equipment offered otherwise may be subject to rejection.

CLEAN UP: Upon completion of the equipment delivery, the bidder shall remove and properly dispose of all packaging waste and debris from the user's site. The bidder shall be responsible for leaving the delivery areas clean and ready to use.

**SPECIFICATIONS
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310**

The City of High Point is seeking proposals for an Automated License Plate Recognition System.

The specifications below give a general description of the characteristics and performance expected of the proposed system. The proposed system is to include all cameras, mounting hardware, computer hardware, software, accessories, labor and equipment necessary to provide a turnkey installed system.

Bidders shall supply with their bid, complete descriptive literature and specifications for offered equipment. Include any information which you think may be pertinent to the evaluation.

Hardware Specifications:

- The Cameras must be small and light weight enough, to attach to the vehicle's emergency lightbar so as not to obstruct or otherwise hinder visibility to the lightbar. Mounting bracket shall be furnished by the vendor
- Vendor shall also be capable of providing brackets for trunk lid mounts. These brackets must easily allow for rotation, tilt, and yaw adjustments.
- The system must be comprised of Infrared (IR) Cameras for effective license plate image capture in a variety of weather and lighting conditions.
- 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.
- Cameras must be capable of scanning licenses plates of passing cars in seconds.
- Camera to include at a minimum: Camera processor, cable/connector(s), Client/server architecture, bracket mount assemblies.

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 be capable of detecting the presence of lawfully mounted vehicle license plates in the Cameras' Field of View (FOV) for image capture from the camera.
- 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.
- Processor shall translate digital pictures into data, cross-reference that information with databases for wanted drivers, and relaying the information to police personnel instantaneously.
- The system shall return an alarm to the operator instantaneously and provide instant feedback and direction of the suspect vehicle. Audible and visual alarms inform the officer of the vehicle's location and the infraction related to the alarm.

- The ALPR Processor must be designed to meet the environmental conditions associated with a trunk-mounted unit.

Client (In Vehicle) Software Specifications

- 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.
- System 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.
- **Software to include one administration and 2 concurrent User Licenses.**
- The system must have the feature that allows “hot list” databases to be created either from within the 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 live, simultaneous video display of all of the following data for any 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
- 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.
- 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 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 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

Server Software Specifications

- As part of the overall system and functionality, a 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 successful vendor must provide on-site system training for the system users and the System Administrator/s.
- The successful vendor must provide system installation
- All system documentation must be furnished in electronic format.

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 5502

INSTRUCTIONS TO BIDDERS

GENERAL: All bids are subject to the provisions of the attached General Contract Terms and Conditions. All bid responses will be controlled by the Terms and Conditions included by the City of High Point. Bidder terms and conditions included as a part of published price lists, catalogs, and/or other documents submitted as a part of the bid response are waived and will have no effect either on the bid, or any contract which may be awarded as a result of this bid. **The attachment of any other terms and conditions may be grounds for rejection.**

Bidder specifically agrees to the conditions set forth in this paragraph by signature of the "BID" contained herein.

Pursuant to G.S. 143-48 and Executive Order No. 77, the State invites and encourages participation in this procurement by a business owned by minorities, women, and the handicapped.

MAKE AND MODEL: Indicate manufacturers' name and model number of item offered in the spaces provided on the quote form. The purpose of these specifications is to identify and establish general quality level desired. References to any Brand Names are not intended to be restrictive and comparable products of other manufacturers will be considered. However, bidders are cautioned that any deviation from specifications must be pointed out in their bid.

WARRANTY: Bidder guarantees equipment offered by him to be free from any and all defects in material and workmanship and warrants same for a period of one (1) year unless otherwise stated in the specifications. Such warranty is to cover the cost of all service, parts, labor and travel to and from points of service.

SPECIFICATIONS: Manufacturer's name and catalog numbers used in this bid are product specific unless the description states equivalent acceptable. These products are required for compatibility and continuity of support.

BID EVALUATION: The City of High Point reserves the right to reject any bid on the basis of the function, compatibility with user requirements, as well as cost. The City of High Point reserves the right to award this contract to a single overall bidder on all items, or to make award on the basis of individual items or groups of items, whichever shall be considered by the City of High Point to be most advantageous or to constitute its best interest. Bidders should show unit prices, but are requested to offer a lump sum price. The City of High Point will not be bound by oral discussions during evaluation process. Responsible purchasing agent should approve all contact regarding this award.

CANCELLATION: The City of High Point may terminate/cancel this contract at any time by providing written notice to the bidder at least thirty (30) days before the effective date of termination/cancellation.

SERVICE: Adequate and satisfactory availability of repair parts and supplies, and ability to meet warranty and service requirements are necessary. The City of High Point reserves the right to satisfy itself by inquiry or otherwise as to bidder's capability in this regard.

SAFETY: See attached General Terms & Conditions #11.

BID RESULTS: For bid results email purchasing@highpointnc.gov NO EARLIER than TWO DAYS following the bid close date.

*** *THE CITY OF HIGH POINT WILL NOT BE BOUND BY ORAL DISCUSSION REGARDING THIS REQUEST FOR BID. * ***

QUESTIONS: Questions regarding the specifications on this bid should be referred to the purchasing agent.

SPECIAL INTEREST GROUP DEFINITIONS:

Women Owned (51% and controlled by Women)

Handicapped Owned (51% owned & controlled by a Physically Handicapped Person)

Minority Owned (At least 51% of which is owned and controlled by minority group member. (Black, Asian, Hispanic, American Indian)

GENERAL TERMS AND CONDITIONS

1. **ACCEPTANCE AND REJECTION**: The City of High Point reserves the right to reject any and all bids, to waive any informality in bids, and unless otherwise specified by the bidder, to accept any item in the bid. If either a unit price or extended price is obviously in error or the other is obviously correct, the incorrect price will be disregarded.

2. **TIME FOR CONSIDERATION**: Unless otherwise indicated on the first page of this document, the offer shall be valid for 45 days from the date of bid opening. Preference may be given to bids allowing not less than 45 days for consideration and acceptance.

3. **TAXES**: No taxes shall be included in any bid prices.

a. **FEDERAL**: Generally, states and political subdivisions are exempt from such taxes, as excise and transportation. Exemption is claimed under Registry No. 56-70-0047K as provided by Chapter 32 of the Internal Revenue Code.

b. **OTHER**: Bid prices are not to include any sales, import, or personal property taxes. To the extent applicable, they are to be invoiced as a separate item(s)

4. **PRICE ADJUSTMENTS**: Any price changes, downward or upward, which might be permitted during the contract period, must be general, either by reason of market change or on the part of the bidder to other customers.

a. **NOTIFICATION**: Must be given to the City of High Point Purchasing Department, in writing, concerning any proposed price adjustments. Such notification shall be accompanied by copy of manufacturers' official notice or other evidence that the change is general in nature.

b. **DECREASES**: The City of High Point shall receive full proportionate benefit immediately at any time during the contract period.

c. **INCREASES**: All prices offered herein shall be firm against any increase for 180 days from effective date of the proposed contract. After this period, a request for increase may be submitted with the City of High Point reserving the right to accept or reject the increase, or cancel the contract. Such action by the City of High Point shall occur not later than 15 days after receipt and review by the City of High Point of a properly documented request for price increase. Any increases accepted shall become effective on a date to be determined by the City of High Point which:

1) Shall not be later than 30 days after the expiration of the original 15 days reserved by the City of High Point to evaluate the request for increase;

d. **INVOICES**: It is understood and agreed that orders will be shipped at the established contract prices in effect on dates orders are placed. Invoicing at variance with this provision will subject the contract to cancellation. Applicable North Carolina sales tax shall be invoiced as a separate item.

5. **PAYMENT TERMS**: Payment terms are Net 30 days after receipt of correct invoice or acceptance of goods, whichever is later. The City of High Point is responsible for all payments under the contract.

6. **AFFIRMATIVE ACTION**: The successful bidder will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without discrimination by reason of race, color, religion, sex, national origin, or physical handicap.

7. **CONDITION AND PACKAGING**: Unless otherwise indicated in the bid, it is understood and agreed that any item offered or shipped on this bid shall be new and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging.

8. **PERFORMANCE BOND AND DEFAULT**: The City of High Point reserves the right to require performance bonds from successful bidder, as provided by law, without expense to the City. Otherwise, in case of default by the Bidder, the City may procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby. Default shall occur if the Bidder fails to perform any obligation under the contract and schedule and such failure remains uncured for more than thirty (30) days after receipt of written notice thereof from the City of High Point.

9. **SAMPLES**: Samples of items, when required, must be furnished as stipulated herein, free of expense, and if not destroyed will, upon request, be returned at the bidder's expense. Request for the return of samples must be made within 10 days following opening of bids. Otherwise the samples will become City of High Point property. Each individual sample must be labeled with bidder's name and item number. Samples, on which an award is made, will be retained for the contract period. These will be returned, if requested, ten days prior to expiration of the contract.

10. **SPECIFICATIONS**: Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and successful bidder will be held responsible therefore. Deviations must be explained in detail on an attached sheet(s).

The bidder shall not construe this paragraph as inviting deviation or implying that any deviation will be acceptable.

11. **SAFETY STANDARDS:** All manufactured items and/or fabricated assemblies subject to operation under pressure, operation by connection to an electric source, or operation involving a connection to a manufactured, natural, or LP gas source shall be constructed and approved in a manner acceptable to the appropriate state inspector which customarily requires the label or re-examination listing or identification marking of the appropriate safety standard organization, such as the American Society of Mechanical Electrical Engineers for pressure vessels; the Underwriters' Laboratories and/or National Electrical Manufacturers' Association for electrically operated assemblies; or the American Gas Association for gas operated assemblies, where such approvals of listings have been established for the type(s) of devices offered and furnished. Further, all items furnished by the successful bidder shall meet all requirements of the Occupational Safety and Health Act (OSHA), and state and federal requirements relating to clean air and water pollution.

All bidders must comply with *North Carolina Occupational Safety and Health Standards for General Industry, 29CFR 1910*. Construction bidders must comply with *North Carolina Occupational Safety and Health Standards for the Construction Industry, 29CFR 1926*. In addition, bidders shall comply with all applicable occupational health and safety and environmental rules and regulations. Bidders shall effectively manage their safety and health responsibilities including:

1. **Accident Prevention**

Prevent injuries and illnesses to their employees and others on or near their job site. Bidder managers and supervisors shall ensure employer's personnel safety by strict adherence to established safety rules and procedures.

2. **Environmental Protection**

Protect the environment on, near, and around their work site by compliance with all applicable environmental regulations.

3. **Employee Education and Training**

Provide education and training to all bidders employees before they are exposed to potential workplace or other hazards as required by specific OSHA Standards.

12. **INFORMATION AND DESCRIPTIVE LITERATURE:** Bidders are to furnish all information requested and in the spaces provided on the bid form. Further, as may be specified elsewhere, each bidder must submit with his proposal: cuts, sketches, descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid does not satisfy this provision. Bids, which do not comply with these requirements, will be subject to rejection.

13. **PROMPT PAYMENT DISCOUNTS:** Bidders are urged to compute all discounts into the price offered. If a prompt payment discount is offered, it will not be considered in the award of the contract except as a factor to aid in resolving cases of identical prices.

14. **AWARD OF CONTRACT:** As directed by statute, qualified bids will be evaluated and acceptance made of the lowest and best bid most advantageous to the City of High Point as determined upon consideration of such factors as: prices offered; the quality of the articles offered; the general reputation and performance capabilities of the bidders; the substantial conformity with the specifications and other conditions set forth in the bid; the suitability of the articles for the intended use; the related services needed; the date or dates of delivery and performance; and such other factors deemed by the City to be pertinent or peculiar to the purchase in question. Unless otherwise specified by the City or the bidder, the City reserves the right to accept any items or groups of items on a multi-item bid.

The City reserves the right to make partial, progressive or multiple awards: where it is advantageous to award separately by items; or where more than one supplier is needed to provide the contemplated requirements as to quantity, quality, delivery, service, geographical areas; other factors deemed by the City of High Point to be pertinent or peculiar to the purchase in question.

15. **GOVERNMENTAL RESTRICTIONS:** In the event any Governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered on this proposal prior to their delivery, it shall be the responsibility of the successful bidder to notify the City of High Point Purchasing Department at once, indicating in his letter the specific regulation which required such alterations. The City of High Point reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or to cancel the contract.

16. **M/WBE:** Pursuant to General Statute 143-48 and Executive Order #77, the City of High Point invites and encourages participation in this procurement process by businesses owned by minorities, women, and the handicapped.

17. **INSURANCE:**

Coverage - During the term of the contract, the bidder at its sole cost and expense shall provide commercial insurance of such type and with such terms and limits as may be reasonably associated with the contract. As a minimum, the bidder shall provide and maintain the following coverage and limits:

- a. **Worker's Compensation** - The bidder shall provide and maintain Worker's Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$150,000.00, covering all bidders' employees who are engaged in any work under the contract. If any work is sublet, the bidder shall require the subcontractor to provide the same coverage for any of his employees engaged in any work under the contract.

- b. **Commercial General Liability** - General Liability Coverage, on a Comprehensive Broad Form on an occurrence basis in the minimum amount of \$500,000.00 Combined Single Limit. (Defense cost shall be in excess of the limit of liability.)
- c. **Automobile** - Automobile Liability Insurance, to include liability coverage, covering all owned, hired and non-owned vehicles, used in connection with the contract. The minimum combined single limit shall be \$150,000.00 bodily injury and property damage; \$150,000.00 uninsured/under-insured motorist; and \$1,000.00 medical payment.

Requirements - Providing and maintaining adequate insurance coverage is a material obligation of the bidder and is of the essence of this contract. All such insurance shall meet all laws of the State of North Carolina. Such insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized by the Commissioner of Insurance to do business in North Carolina. The bidder shall at all times comply with the terms of such insurance policies, and all requirements of the insurer under any of such insurance policies, except as they may conflict with existing North Carolina laws or this contract. The limits of coverage under each insurance policy maintained by the bidder shall not be interpreted as limiting the bidder's Liability and obligations under the contract. It is agreed that the coverage as stated shall not be canceled or changed until thirty (30) days after written notice of such termination or alteration has been sent by registered mail to the City of High Point Purchasing Department.

18. **PATENTS AND COPYRIGHTS**: The Bidder shall hold and save the City of High Point, its officers, agents, and employees, harmless from liability of any kind, including costs and expenses on account of any patented or unpatented invention, articles, device or appliance manufactured or used in the performance of this contract, including use by the government.

Any and all copy, art, designs, negatives, photographs, or other tangible items created pursuant to bidder's performance of this project shall be the property of City of High Point and shall be delivered to City upon completion of the project. Such property shall be transferred to City in excellent, reusable condition.

In addition, the copyright in and to any copyrightable work, including, but not limited to, copy, art, negatives, photographs, designs, text, software, or documentation created as part of the bidder's performance of this project shall vest in the City, and the bidder agrees to assign all rights therein to the City. Bidder further agrees to provide the City with any and all reasonable assistance, which the City may require to obtain copyright registrations or to perfect its title in any such work, including the execution of any documents submitted by the City.

19. **PATENT AND COPYRIGHT INDEMNITY**: BIDDER will defend or settle, at its own expense, any action brought against Customer to the extent that it is based on a claim that the product(s) provided pursuant to this agreement infringe any U.S. copyright or patent; and will pay those costs, damages and attorney's fees finally awarded against Customers in any such action attributable to any such claim, but such defense, settlements and payments are conditioned on the following (1) that BIDDER shall be notified promptly in writing by Customer of any such claim; (2) that BIDDER shall have sole control of the defense of any action on such claim and of all negotiations for its settlement or compromise; (3) that Customer shall cooperate with BIDDER in a reasonable way to facilitate the settlement of defense of such claim; (4) that such claim does not arise from Customer modifications not authorized by the BIDDER or from the use of combination of products provided by the BIDDER with products provided by the Customer or by others; and (5) should such product(s) become, or in the BIDDER's opinion likely to become, the subject of such claim of infringement, then Customer shall permit BIDDER, at BIDDER's option and expense, either to procure for Customer the right to continue using the product(s), or replace or modify the same so that it becomes non-infringing and performs in a substantially similar manner to the original product; or (c) upon failure of (a) or (b) despite the reasonable efforts of the BIDDER for a sold product or licensed software, return the price paid for the licensed software and any product dependent thereon.

20. **ADVERTISING**: Bidder agrees not to use the existence of this contract or the name of the City of High Point as a part of any commercial advertising without prior approval of the City of High Point Purchasing Department.

21. **EXCEPTIONS**: All proposals are subject to the terms and conditions outlined herein. All responses will be controlled by such terms and conditions and the submission of other terms and conditions, price catalogs, and other documents as part of a Bidder's response will be waived and have no effect on this Request for Proposal or any other contract that may be awarded resulting from this solicitation. The submission of any other terms and conditions by a Bidder may be grounds for rejection of the Bidder's proposal. The Bidder specifically agrees to the conditions set forth in the above paragraph by affixing his name on the signatory page contained herein.

22. **CONFIDENTIAL INFORMATION**: As provided by statute and rule, the City of High Point will consider keeping trade secrets which the bidder does not wish DISCLOSED confidential. Each page shall be identified in boldface at the top and bottom as "CONFIDENTIAL" by the bidder. Cost information shall not be deemed confidential. In spite of what is labeled as a trade secret, the determination whether it is or not will be determined by North Carolina law.

23. **ASSIGNMENT**: No assignment of the bidder's obligations nor the bidder's right to receive payment hereunder shall be permitted. However, upon written request approved by the City of High Point Purchasing Department, solely as a convenience to the bidder, the City of High Point may:

- a. Forward the bidder's payment check directly to any person or entity designated by the bidder, and
- b. Include any person or entity designated by bidder as a joint payee on the bidder's payment check.

In no event shall such approval and action obligate the City of High Point to anyone other than the bidder and the bidder shall remain responsible for fulfillment of all contract obligations.

24. **ACCESS TO PERSONS AND RECORDS:** The City Auditor shall have access to persons and records as a result of all contracts or grants entered into by the City in accordance with General Statute 147-64.7.

25. **INSPECTION AT BIDDER'S SITE:** The City of High Point reserves the right to inspect, at a reasonable time, the equipment/item, plant or other facilities of a prospective bidder prior to contract award, and during the contract term as necessary for the City of High Point's determination that such equipment/item, plant or other facilities conform with the specifications/requirements and are adequate and suitable for the proper and effective performance of the contract.

26. **AVAILABILITY OF FUNDS:** Any and all payments of compensation of this specific transaction, its continuing or any renewal or extension are dependent upon and subject to the allocation of appropriation of funds to the City for the purpose set forth in this agreement.

27. **GOVERNING LAWS:** All contracts, transactions, agreements, etc., are made under and shall be governed by and construed in accordance with the laws of the State of North Carolina.

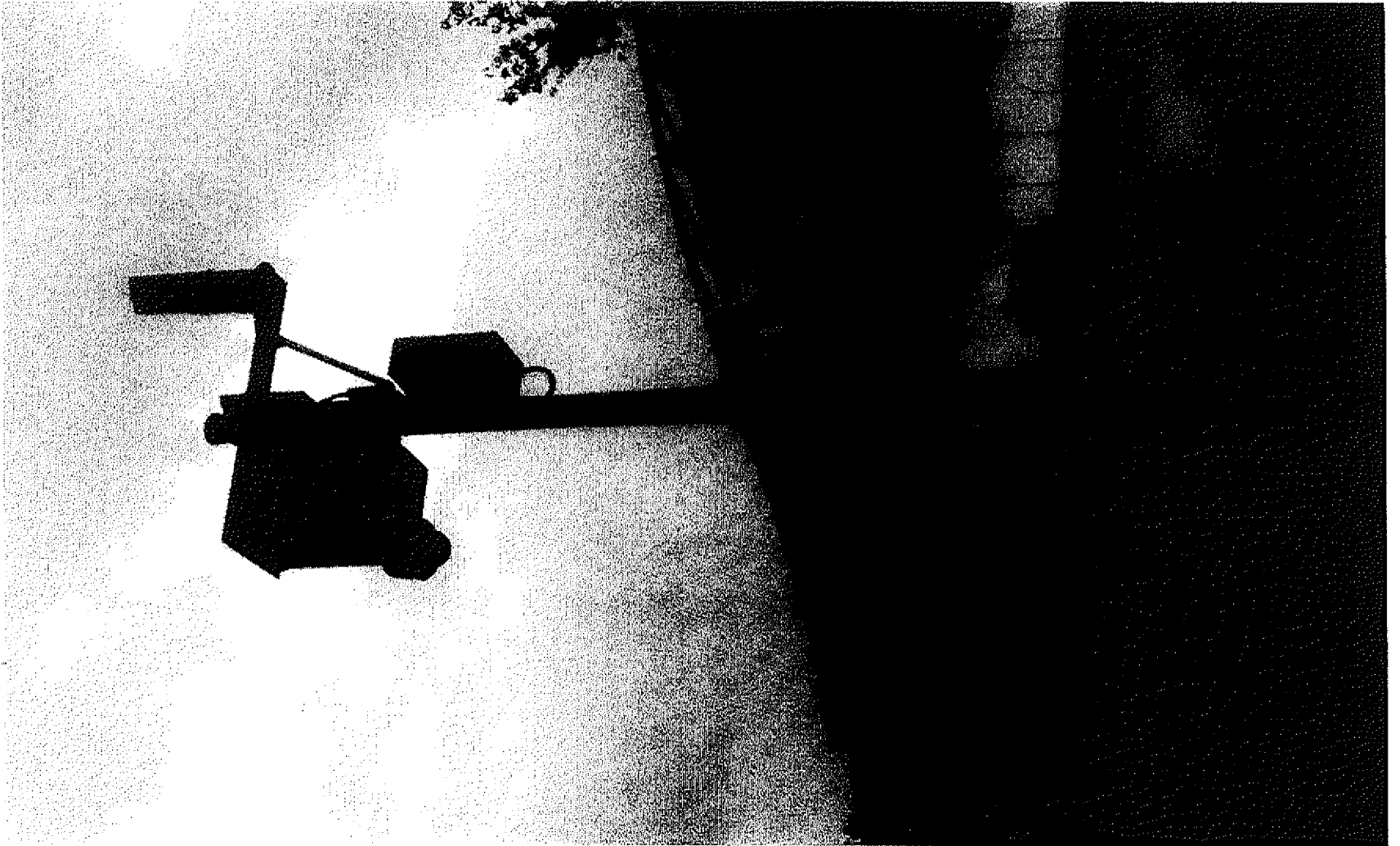
28. **ADMINISTRATIVE CODE:** Bids, proposals, and awards are subject to applicable provisions of the North Carolina Administrative Code.

29. **EXECUTION:** Failure to sign under EXECUTION section will render bid invalid.

30. **ORDER OF PRECEDENCE:** In cases of conflict between specific provisions in this bid, the order of precedence shall be (1) special terms and conditions specific to this bid, (2) specifications, (3) City of High Point General Contract Terms and Conditions, and (4) City of High Point Bid Terms and Conditions.

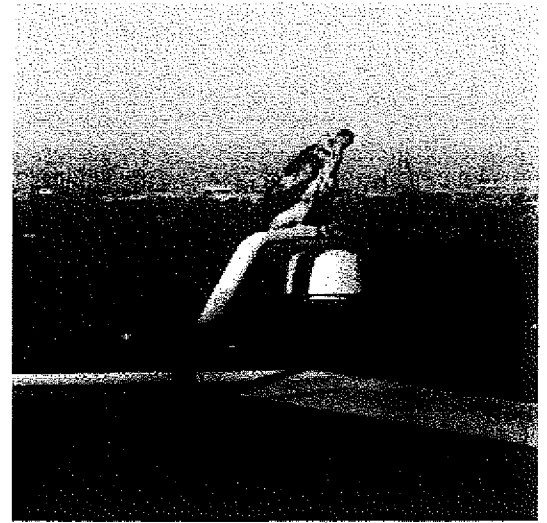
31. **CLARIFICATIONS/INTERPRETATIONS:** Any and all questions regarding this document must be addressed to the City of High Point on the cover sheet of this document. Do not contact the user directly. Any and all revisions to this document shall be made only by written addendum from the City of High Point Purchasing Department. The bidder is cautioned that the requirements of this bid can be altered only by written addendum and that verbal communications from whatever source is of no effect.

32. **SITUS:** The place of all contracts, transactions, agreements, their situs and forum, shall be North Carolina, where all matters, whether sounding in contract or tort, relating to the validity, construction, interpretation, and enforcement shall be determined.

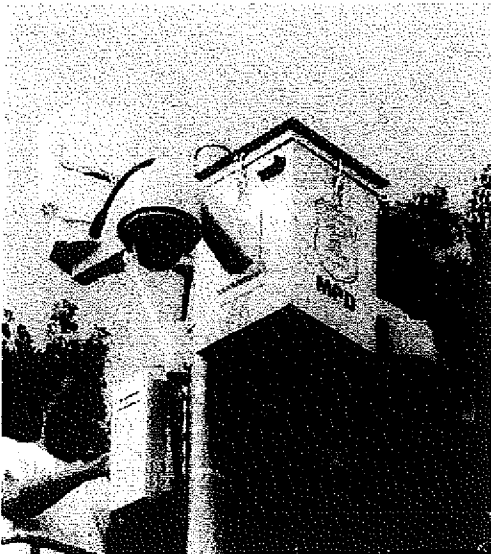


SKYCOP SYSTEMS

SkyCop® is a remote, self contained, intelligent video security system that can operate autonomously or as a networked system and incorporates the latest technology in High Compression Digital Recording, Analytic Video Monitoring, License Plate Recognition, Environmental Monitoring, and Gunshot Detection Monitoring. **SkyCop®** can be deployed in remote or metropolitan areas and is designed for easy, inexpensive redeployment to accommodate changing points of interest. **SkyCop®** is available trailer mounted for quick deployment to monitor and control developing emergencies or public safety situations by law enforcement or government agencies. **SkyCop®** can monitor your critical infrastructure large public gatherings, important property and remote locations using state of the art wireless technology. **SkyCop®** can be powered using traditional power sources or solar battery powered system. **SkyCop®** can monitor your points of interest and allow you to control features such as PTZ Cameras for your office, command center, vehicle or any location in the world that has broadband connectivity. **SkyCop®** responds to alarm events in real time by activating a variety of visual and audible alarming devices allowing immediate response.



SkyCop® can record events locally or provide transmission for remote recording utilizing H.264, the latest in video compression for high-resolution video recording and real time transmission of surveillance information. **SkyCop®** incorporates intelligent video analytics that enhance the effectiveness of surveillance by automating the day-to-day time consuming task of monitoring video and detecting events. The video analytics can simultaneously detect intruders, suspicious baggage, stopped vehicles and removed items for automatic detection even in extreme lighting and harsh weather conditions. **SkyCop®** is available with license plate recognition for law enforcement and commercial use that can enhance security and increase revenues. The license plate recognition system can provide surveillance, access control, parking enforcement, toll enforcement, wanted vehicle identification, journey time/speed monitoring, border crossing and can be integrated with third party software solutions. **SkyCop®** is available with a Gun-Shot Detection feature that detects and automatically responds to locate a weapon fired within 600 feet giving you the ability to observe the source of the shot within seconds after the weapon is fired. This feature is particularly valuable for remote monitoring of high crime areas.



SkyCop® has several network interface options including hardwire and fiber optics of wireless options such as Wireless 802.11 Mesh. The Wireless 802.11 Mesh Technology utilizes 900Mhz, 2.4Ghz, or 5.8Ghz single or dual-radio mesh technology. This technology allows for a low-cost, robust, and reliable alternative to traditional wired or wireless internet or LAN distribution methods. The Linux embedded mesh software is a self-configuring and self healing wireless networking and repeater technology that allows for streaming video data packets to hop wireless over an area of several square miles. Other wireless network interfaces available include GSM EVDO Cell technology and Commercial Satellite technology. **SkyCop®** can be configured for low security public viewing applications or it can be set up for military grade encrypted and secure data highways.

SkyCop® is housed in environmentally controlled aluminum housing and can be customized to include optional features such as bullet-resistant materials and custom artwork to meet the customer's needs. The enclosure can also be equipped with optional backlighting for nighttime overt viewing. The enclosure is designed to operate in all outdoor weather conditions.

SkyCop® addresses all needs for remote security surveillance with intelligent monitoring to meet the needs of Homeland Security, Law Enforcement, Military Establishments, Airports, Commercial and Campus Environments. Let our **SkyCop®** team of specialist help you design a **SkyCop®** System that is right for you. The possibilities are endless.



TYPICAL APPLICATIONS

Law Enforcement / Homeland Security

- Monitor and supervise for command center
- Monitor special events
- Monitor high crime areas
- Emergency deployment

Commercial / Residential Construction Sites

- Remote Supervision
- Theft reduction
- Verify shipments and workforce attendance
- Sales & marketing tool for remote viewing

Campus Environments / Public Areas / Parks

- Parking management
- Access Control
- Monitor developing events
- Public safety

Auto Dealerships

- Monitor inventory
- Reduce car theft and vandalism
- Prosecutable video

Commercial / Retail Shopping Centers

- Parking management
- Reduce theft and vandalism
- Monitor developing events
- Public safety
- Prosecutable



video

Utility Pumping & Switching Stations

- Monitor remote stations that do not have access to traditional cabled networks
- Monitor project & construction work
- Theft reduction
- Emergency deployment

Municipal Public Works / Traffic Departments / Highway Contractors

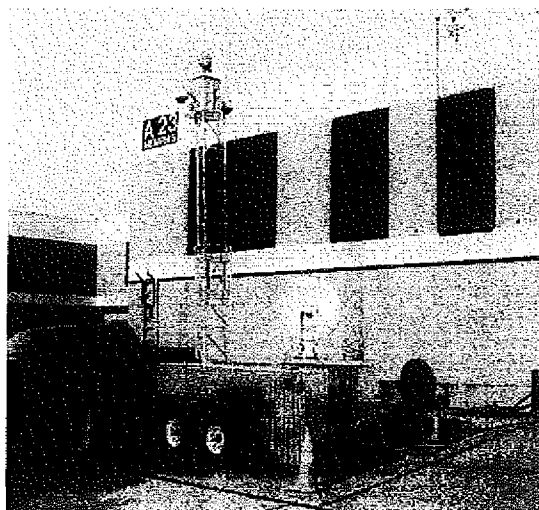
- Perform traffic studies remotely
- Monitor project & construction work
- Combine traffic radar with video for planning, patrolling and signage
- Improve safety
- Emergency deployment

Equipment Rental or Leasing Companies

- Income source: Lease or rent SkyCops to customers
- Monitor inventory
- Reduce theft and vandalism

Commercial Warehousing & Storage

- Monitor inventory
- Reduce theft and vandalism
- Prosecutable video



SkyCop® PRODUCT FEATURES & OPTIONS

H.264 High Resolution Video Recording & Transmission

- 30 FPS Real Time Recording
- 4-Channel Recording with audio on each channel
- Recording Resolutions (4CIF, 2CIF, DCIF, CIF)
- Up to 1 TB Video Recording Storage
- GPS Video Overlay
- Intelligent Power Supply
- Rugged Hardened Chassis for Extreme Temperature Environments

Camera Options

- Expandable to 4 Cameras
- PTZ Camera – Pelco Spectra IV Day/Night or Customer Specified
- Fixed Camera – Extreme Day/Night IR Illumination or Customer Specified
- Thermal Imaging Camera – Pelco Exprit Pan & Tilt or Customer Specified

Video Analytics

- High Probability of detection while maintaining low false alarm rate
- Detects intruders under harsh weather conditions, low visibility or poor lighting
- Detects camouflaged intruders, extremely slow progression and burst movements
- Superior non-flat detection sees objects in 3D scale and at great distances for reliable detection
- Supports pre-alarm recording for capturing the movements before an alarm
- Rule-driven video analytics (intrusions, unattended baggage, stopped or parked vehicles, object removal, autonomous PTZ tracking)

License Plate Recognition

- High definition progressive scan CCD Camera
- Pulsed-infrared illumination for high performance license plate recognition (LPR)
- Integrated video capture and hardware H.264 compression
- Rugged hardened chassis for extreme temperature environments
- Applications (Surveillance, Law Enforcement, Homeland Security, Access Control, Tool Enforcement, Journey time / speed monitoring, boarder crossing)

Gunshot Detection

- Detection Range of 90-95% for distances of 600 feet
- Integrated PTZ Camera automatically moves to detection area
- Alarm Alert via Ethernet or Serial Interface
- Email Alerts
- Remote Administration
- Field upgradable software
- Field upgradable sounds

Wireless Mesh 802.11 Communications

- Utilizes 900Mhz, 2.4Ghz, 5.8Ghz frequencies
- Serves both stand-alone access point and mesh gateway or repeater
- Built in captive portal, bandwidth management, firewall, VPN
- Encrypted client traffic using Blowfish
- VPN client-to-node security
- Voice over IP SIP Gateway
- Wired or wireless NAT, DNS, and DHCP client services
- AODV and WDS based mesh routing
- Built in support for VPN and Wormhole tunnels
- Adjustable RF output, 1Mw up to 700Mw
- Complete management via GUI, VPN, SSH

GSM EVDO Cell and Satellite Communications

- EVDO (Evolution Data Optimized) for broadband digital data transmissions
- Verizon EVDO Rev A has been tested and is available for SkyCop™ applications

Satellite Communications

- Hughesnet compatible 500kbps upload speed
- MotoSAT DataStorm automatic satellite tracking compatible

Environmental Monitoring

- Air, Gas, Chemical Monitoring and Detection Systems
- Optional Interface to any Digital or Analog, Dry Contact or Intelligent Sensor

Mobile SkyCop Trailer

- Rapid deployment
- Battery Power for multiple day operation
- 3KW Propane Generator
- Telescoping Camera Tower up to 25 Feet
- Optional MotoSAT DataStorm automatic satellite tracking system
- Trailer weight enhanced for base ballast
- Trailer alarm and theft system
- Hydraulic floor leveling for camera tower stabilization
- Specifications, custom design available from ESI



ESI Companies Inc.

1861 Vanderhorn Dr.

Memphis, TN 38134

PH# 901-386-7340 Fax# 901-373-7790

Contact: John Osteen

josteen@esicompanies.co



SkyCop® – Transportable Surveillance Substation (TSS)



The SkyCop® TSS (Transportable Surveillance Substation) is a unique self contained unit specifically designed for remote monitoring of areas where utility and communication services are limited or non-existent. SkyCop® TSS units can function independently or as a group to provide the user with many tools to make areas safer and secure under 24 hour monitoring and increase response times to incidents that occur in the area.

Each TSS unit is equipped with its own Solar Power Plant with Self Tracking Solar Arrays that follow the sun with battery storage for cloud covered days to provide the necessary power required for the surveillance and monitoring equipment deployed in conjunction with the units.

A variety of Communication formats such as Military Grade Wireless Mesh 802.11, Commercial Cellular, and Satellite connectivity

provide the means for communication from the remote TSS unit back to a centralized monitoring location such as Law Enforcement Command Centers, Military Police Stations, Commercial and Private Security Companies, etc.

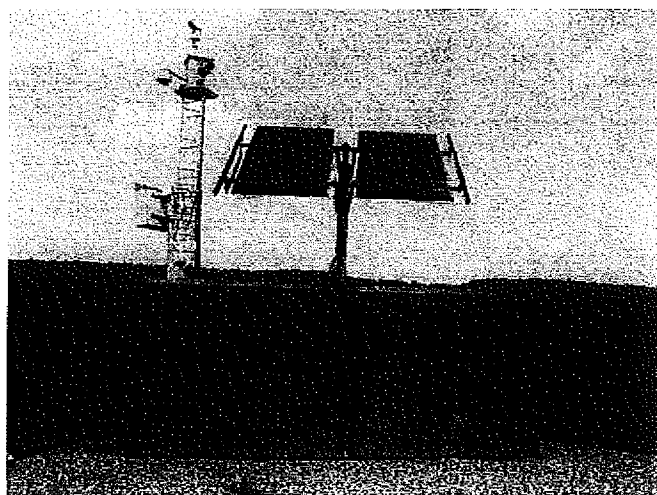
The TSS unit incorporates many of today's advance surveillance and monitoring equipment to provide real time monitoring for security and safety of the area where the unit is deployed. These features include, high resolution fixed position Day / Night CCTV Cameras, High Resolution Pan / Tilt / Zoom Cameras, Infrared Illumination Cameras, and Thermal Imaging Camera Systems to provide video surveillance. Video Analytic or Smart Video equipment can monitor vehicle and pedestrian traffic in the area and watch for parked vehicles, vehicles traveling in the wrong direction, and loitering of pedestrians as examples. Radar Detection / Display units provide traffic flow and speed information back to the centralized location for traffic control. Vehicle License Plate Recognition cameras provide vehicle entry registration to facilities, provide automated alert information for vehicles on local and national "hot list", and provide storage of digital images with time / date stamp of both the vehicle and license plate number into a data base for future recall of information.

The electronics incorporated into the TSS unit also allow the addition of other advanced features such as Chemical Detection, Gun Shot Telemetry Recognition, and can serve as a Remote Check Point with full video and data communications capabilities.

The robust Steel Skeleton of the SkyCop® TSS provides protection for all electronics, batteries, charging systems, and computer hardware associated with the system.

Each TSS is complete with a SkyCop® DVSR Digital Video Recording System, Touch Screen View / Control Monitor, Digital Solar Display / Monitor / Controller, and Battery Power Plant.

Optional Exterior Trim Packages are available and are designed specific to the application of the units.



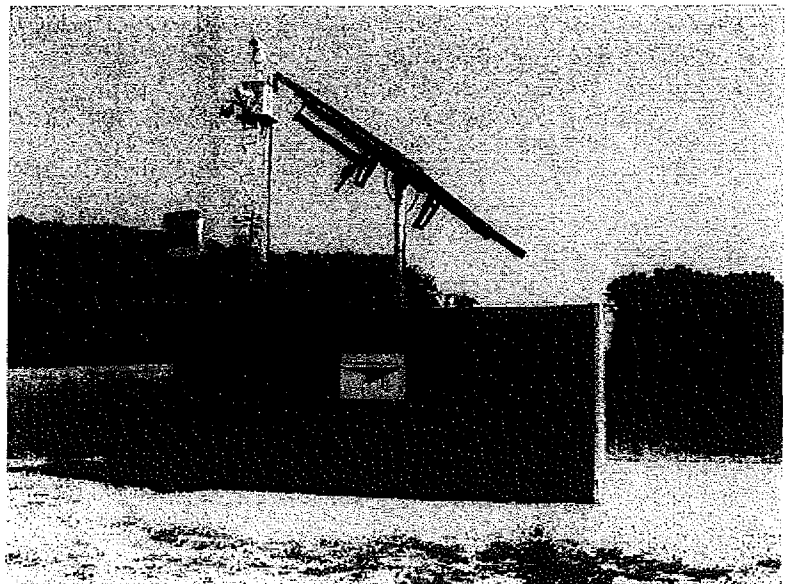
SkyCop® - TSS Unit

Standard Features

- * (1) SkyCop ® Enclosure with Cooling Blower Kit, Heating Kit, Thermostat Kit, Lightning Arrestor Kit
- * (1) 4-Channel SkyCop H.264 30-FPS Digital Recorder with 1TB Storage
- * (1) 7" Touch screen LCD Monitor
- * (1) Cellular EDVO slot, ribbon, and chassis assembly
- * (1) SkyMesh 802.11 Wireless Mesh Transmitter / Receiver with Directional Antennas
- * (2) SkyCop ® PTZ camera assemblies
- * (1) Power Inverter with required step-down transformers
- * (1) Inverter LCD Display / Program Terminal
- * (8) 400 AH AGM type industrial battery
- * (1) 1200W Solar Array with Tracking System that includes all cabinetry, wiring, electrical disconnects, and voltage protection equipment for all systems
- * 20' Retractable Sectional Camera Tower
- * Steel Skeleton complete with doors, vents, and cable entry points.

Options:

- Additional PTZ or Fixed Cameras (up to 8)
- Infra-red Illuminators and Housings
- Thermal Imaging Cameras
- Video Analytic / Smart Video Detection
- License Plate Recognition Camera(s)
- Radar Speed Control LCD Display
- Gunshot Detection
- Environmental Monitoring / Chemical Detection
- Satellite Communication System
- Gas Generator with fuel tank, gauge and filter
- Exterior Trim Package
- Custom Logos and Signage



On-Board Radar Detection, License Plate Recognition, and Thermal Imaging Camera
Fort Leonard Wood Missouri

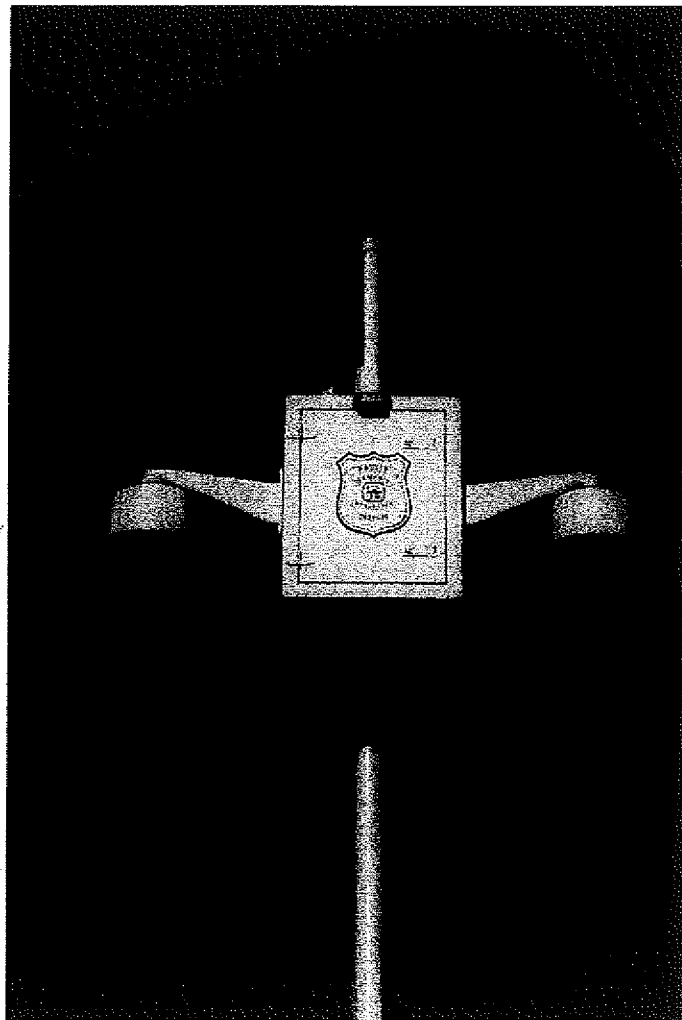


SkyCop Security Enclosure Systems

Patent No. US 7703996 B1

FEATURES

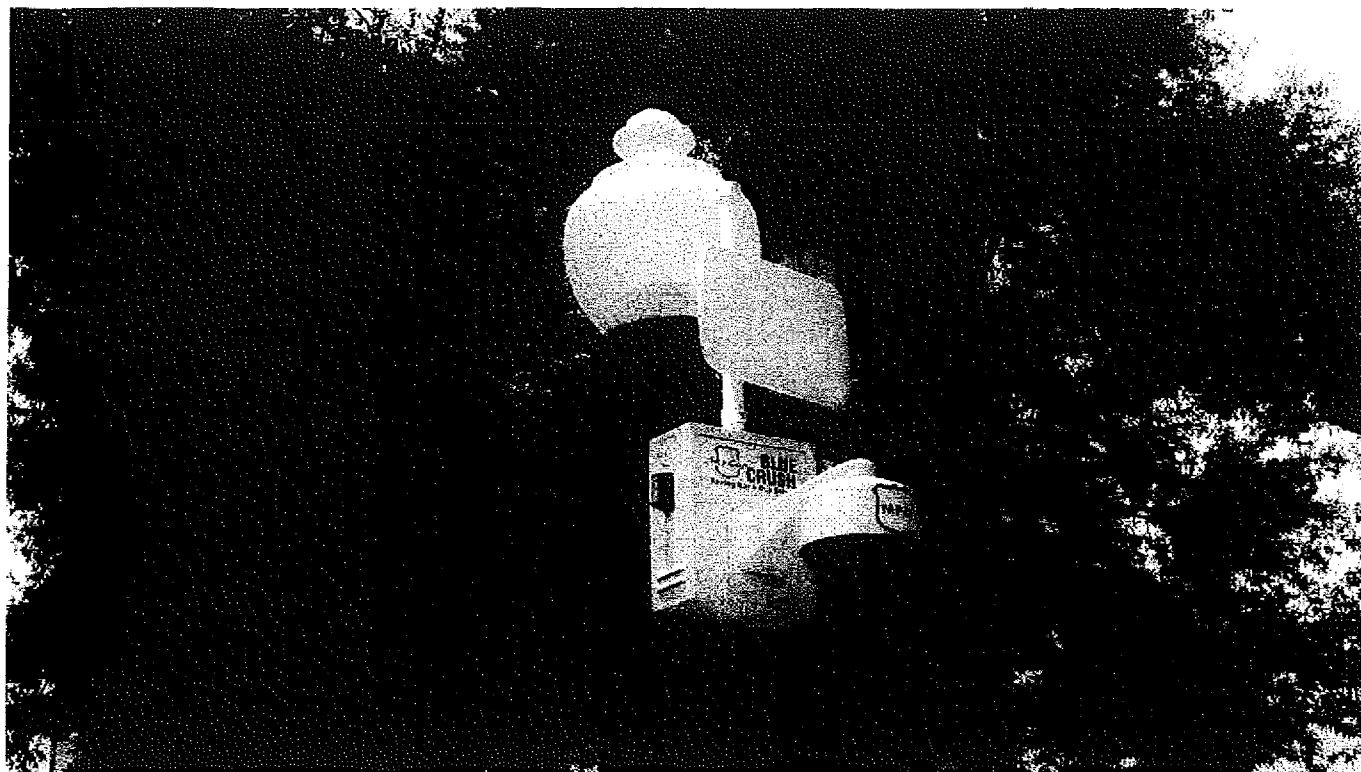
- ♦ Strong, Durable Construction
- ♦ Aesthetic Design with Custom Artwork
- ♦ All Integrated Electronics are Housed and Protected in the Environmentally Controlled Aluminum Enclosure
- ♦ 2-Way Audio Communication
- ♦ Effective in any Weather Condition
- ♦ PTZ Day / Night 36X Cameras
- ♦ GSM / EVDO Cell Phone Communication
- ♦ 802.11 Mesh Radio Communications
- ♦ H.264 Resident Digital Recording
- ♦ Optional Backlighting Kit
- ♦ Optional Bullet-Resistant Kit
- ♦ Optional Thermal Imaging Camera Systems
- ♦ Optional Gun Shot Detection Systems
- ♦ Optional License Plate Recognition Systems
- ♦ SkyCop Enclosures can be Purchased Without Electronics or Surveillance Equipment



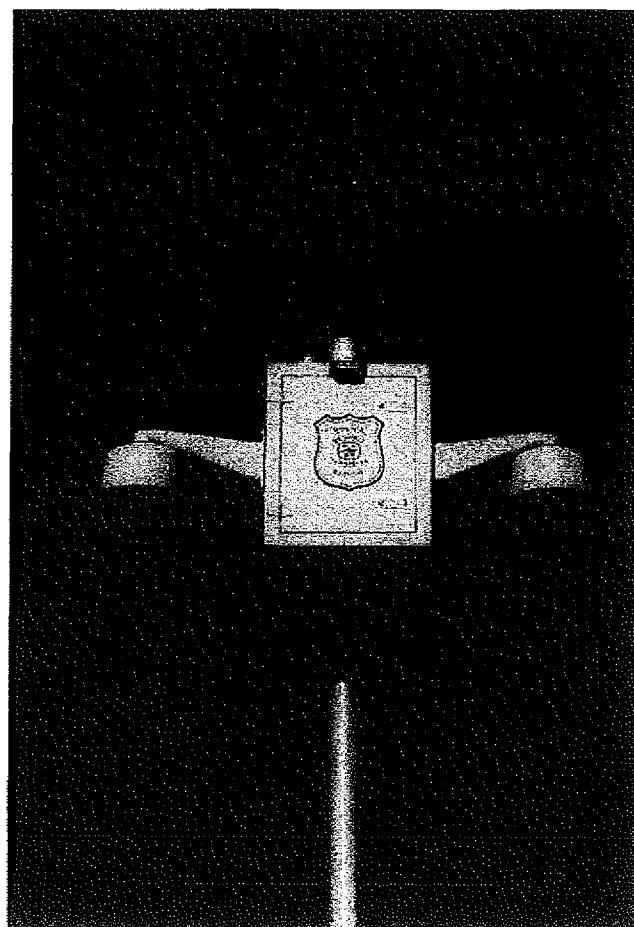
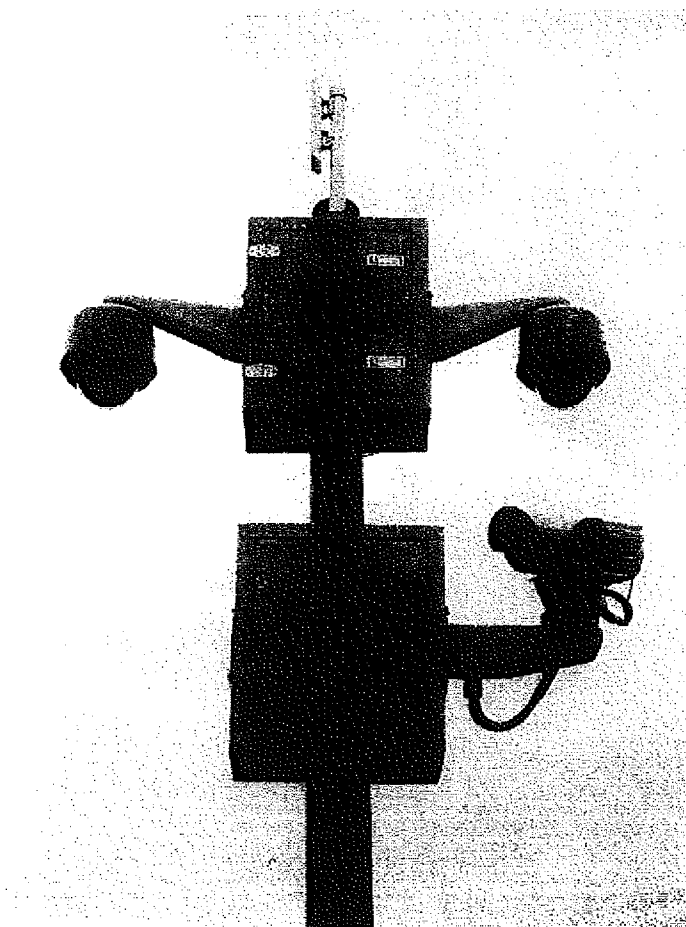
SkyCop 2-PTZ Camera Enclosure System

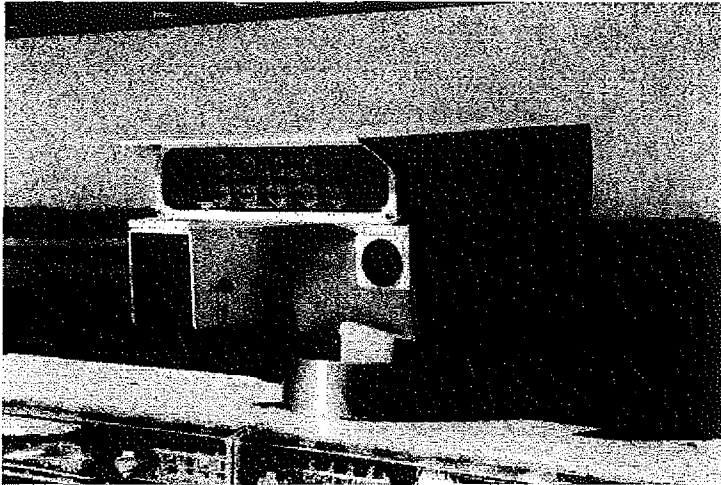
The SkyCop Security Enclosure System is a remote, self contained, intelligent video security system that can operate autonomously or as a networked system and incorporates the latest technology in High Compression Digital Recording, Analytic Video Monitoring, Thermal Imaging Monitoring, License Plate Recognition, Environmental Monitoring, and Gun Shot Detection Monitoring. SkyCop can be deployed in remote or metropolitan areas and is designed for easy, inexpensive redeployment to accommodate changing points of interest. SkyCop can monitor your points of interest and allow you to control system features such as PTZ Cameras from your office, command center, vehicles, or location in the world that has broadband connectivity. SkyCop responds to alarm events in real time by activating a variety of visual and audible alarming devices allowing for immediate response. SkyCop is housed in an environmentally controlled aluminum housing and can be customized to include optional features such

as bullet-resistant materials and custom artwork to meet the customer's needs. The enclosure is designed to operate in all weather conditions.



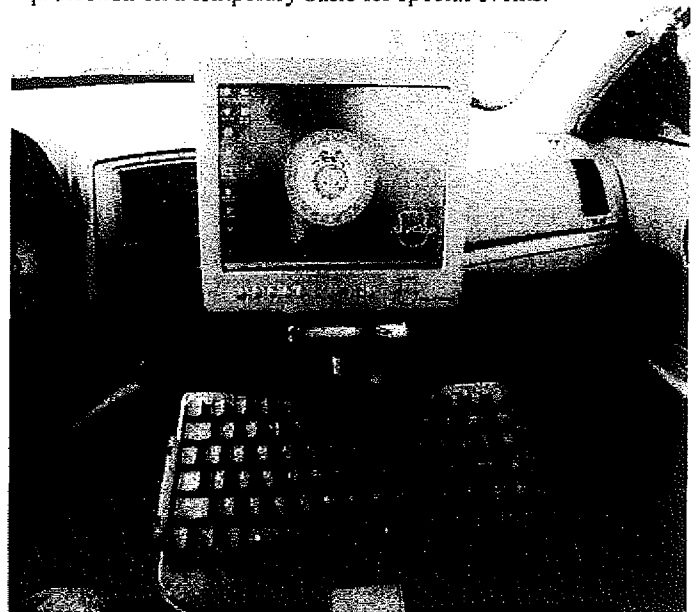
SkyCop Mesh Cam: 802.11 Wireless Mesh 36X PTZ Day / Night Camera Enclosure System





Pan & Tilt Genetec LPR Unit with Thermal Imaging Camera and High Resolution Day / Night Camera

The SkyCop® Mobile License Plate Recognition & Video Surveillance System (MLPRV) is a complete License Plate Recognition System packaged in a platform to provide mobile, on the fly, license plate reading, video surveillance and analysis. The most advanced of its kind, the MLPRV system incorporates all of today's advanced technologies to provide on board storage, and remote access for database updates, data offload, and video records retrieval. Designed for use in Law Enforcement type vehicles the MLPRV system can also be used with SkyCop® Mobile Trailer Surveillance units and other types of vehicles to increase access protection on a temporary basis for special events.



SkyCop Adjustable Mounting System for Touch Screen Monitor & Backlit Keyboard or Laptop Computer

SkyCop MLPRV advanced user friendly features:

- SkyCop adjustable mounting system for Touch Screen Monitor and Backlit Keyboard
- Automated preset positioning of the License Plate Reader and Video Camera System for easy positioning while vehicle is in operation.
- 180° Pan and Tilt System that can position the License Plate Reader and Camera System in any position desired for precision reads and views.
- Five (5) preset positions are available for frequent positioning.
- Touch Screen Monitor provides real-time read display and live video display information to the user.
- "Hot List(s)" information can be entered or imported into the on board computer system to provide flag and alert information to the operator for License Plates that have been designated as plates of interest through local and national databases.

Other advanced options and features allow for full integration into other SkyCop® products such as Mobile Surveillance Trailers and SkyCop Wireless Camera Enclosure Systems. The MLPRV System can also monitor and control other citywide deployments of SkyCop Camera systems for advanced monitoring of a scene. Command Center can also display the MLPRV System while in operation. The SkyCop Platform can manage thousands of cameras from any location on the network.

Engineering Specifications:

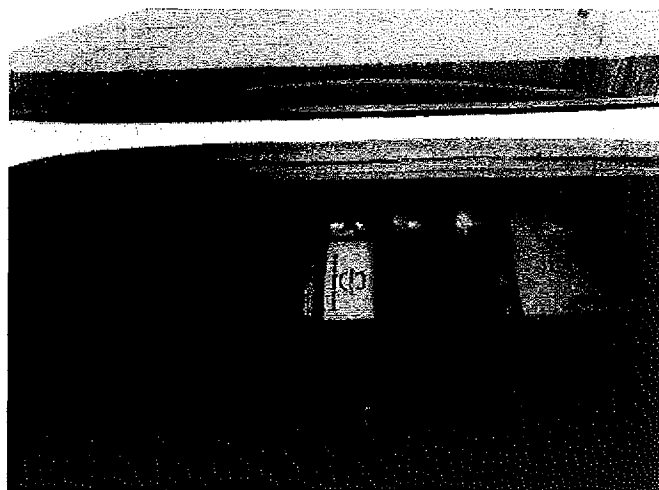
The MLPRV is a vehicle-mounted system for license plate image capture and video processing permitting autonomous operation (requiring no direct action of a user) to read license plates and match against various hot list of wanted vehicles. The Mobile Video Surveillance Platform will record video and audio using H.264 compression and have the ability to record up to eight (8) analog cameras for on board video and audio storage with remote streaming to a command center. The system will include a 7" In-Dash Touchscreen for control and monitoring. The License Plate Recognition System (LPR) will use dual-camera imaging (high-resolution cameras for license plate reading, secondary cameras for evidence gathering), GPS (with or without) moving map display, back-end evidence and reporting software, and a wireless communication capability for transferring data between the back-end and each mobile unit. The LPR and Video Surveillance system is mounted on a Pan & Tilt drive system and can be installed on the center light bar or other preferred areas. The LPR and Surveillance Cameras can be automatically positioned on all sides of the vehicle while in operation.

Specifications Pan & Tilt Device:

- Height 5.800"
- Width 6.210"
- Depth 5.08." with connector
- Materials Machined Aluminum with Stainless Steel Fasteners
- Anodized Aluminum Mounting Ring
- Polymer Bearings for Quiet Operation
- Ball Bearings on Major Axis
- Paint Powder coated
- Mounting Plate Width - 5.820"
- Depth - 4.730"
- Slots - 1/4" hardware or smaller
- Weight 5 lbs
- Voltage 12VDC +/- 5%
- Power Less than 1.5 watts per axis
- 0 watts with no motion
- Braking Regenerative
- Feedback Precision 5K pot (1 for Pan axis, 1 for Tilt axis)
- Requires 5VDC reference voltage
- Connector Nickel Plated MIL-C-26482 14-15
- Speed Pan 28 deg/sec
- Tilt 8 deg/sec
- Capacity 13 lbs or less
- Rotation Limits Pan 0 to 350 deg
- Tilt -90 deg Down to +30 deg Up
- Color Similar to RAL 9018
- Backlash <0.15 deg
- Maintenance None required
- Operating Temp. -30C to +70C
- No heating or cooling required
- Weatherproof IP68



SkyCop Video Management Software



SkyCop DVR and LPR Processing Computer mounted on Movable and Lockable SkyCop Trunk Shelving System

Touch Screen Specifications

- Model #: 1020TSV
- Screen Size: Diagonal 10.2" (16:9)
- Physical Resolution: 1024 (H) x 600 (V) WVGA
- Supported Resolution: 640 x 480 ~ 1600 x 1200
- Dot Resolution: 3072 x 600 = 1,152,000 (dots)
- LCD Brightness: 300 cd/m²
- Contrast Ratio: 500:1
- Viewing Angle: 160° Horizontal, 140°
- Vertical Response Time: 10 - 15ms
- Touch Screen Interface: USB port
- Operating Voltage Range: DC 10V ~ 30V
- Power Supply: DC 12V
- Power Consumption: ≤ 20W
- Operating Temperature: -4°F ~ 158°F

Digital Recorder / Processor Specifications

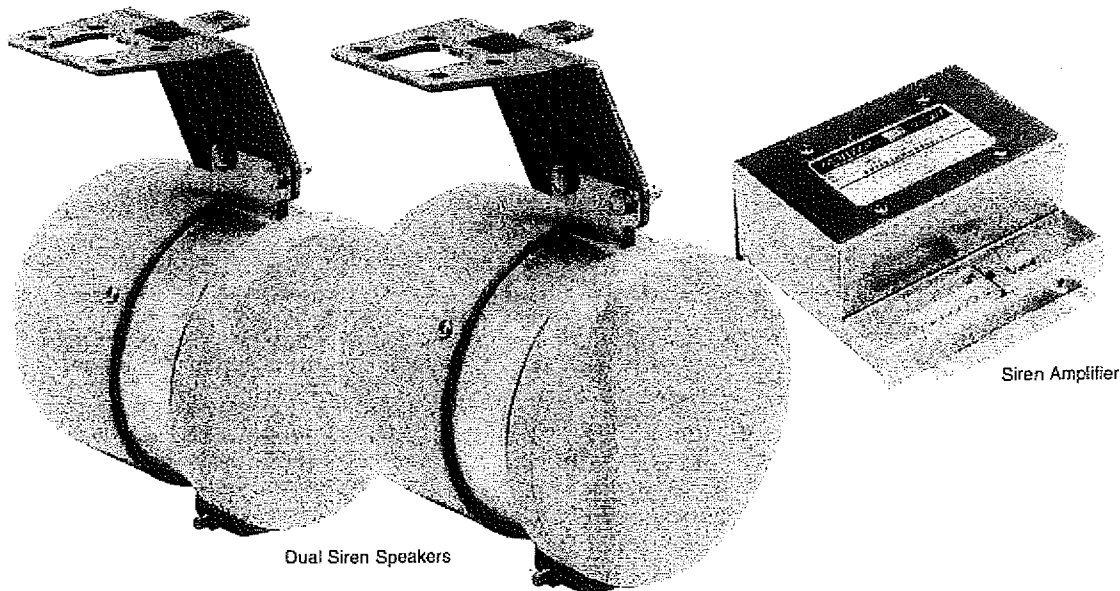
- Intel Core 2 Duo Processor T7200 2GHz 4MB CPU
- 60GB Control Hard Drive / 1TB Video Storage Drive
- 4GB DDR RAM
- 2xPCI; 1xPCI-Ex16; 1xPCI-Ex1
- Available with 4, 8 Video and Audio Inputs
- Supports DVI Output
- Supports S-Video Output
- LAN Intel Gigabit PCI Express LAN chip
- (4) USB 2.0 Ports, (2) RS-232 Port
- 80-wire IDE x 1 cable; Serial ATA Cable x 1
- Shut Down Delay Time 10sec Default; 10 min, 30 min, 60 min set by jumper
- Selectable Start-up Voltage and Low battery shutdown voltage
- Cooling: Forced air or thermal coupling to heat sink.

↓
Not included in this
P&ID Dec

NEW PRODUCT!

HowlerTM Siren & Speaker System

LOW FREQUENCY TONES FOR INTERSECTIONS AND HIGH RISK AREAS



Dual Siren Speakers

Siren Amplifier

An effective added layer of warning when used with your 100/200 watt siren amplifier. Howler provides deep, low frequency tones, which are able to penetrate other vehicles, alerting drivers and pedestrians of your approach.

Howler is not a replacement to the vehicle's primary siren; Howler adds a minimum eight second penetrating burst of low frequency siren sound for use in heavy traffic, intersections or other high ambient noise conditions.

FEATURES

- The Howler is an add-on to any 100-200 watt warning siren such as the Whelen 295SL Series. Works with most Siren Amplifiers. Includes two speakers for use with Howler amplifier only.
- Works with any sweeping tone, plus Hi/Low and electronic mechanical tone generated by the primary siren.

- The Howler low-frequency tones are **synchronous with your primary siren tones** to penetrate high noise, high traffic situations.
- The Howler Siren Amplifier module uses the primary siren speaker output wires and divides the frequency down to one of three frequency bands via dip switch. Selections are 1/4 tone, 1/2 tone or a composite of 1/4 and 1/2 tones.
- Lower frequency reverberating tones are better able to penetrate other vehicles, alerting drivers to the presence of the oncoming emergency vehicle.
- Push on/push off button activates/deactivates the siren, allowing radio transmission to the vehicle without waiting for the unit to time out.
- Built-in timer limits over-exposure time to operator. Operators are advised to wear approved hearing protection.
- Two separate external cancel controls, standard. A positive or negative activation will cancel tone.
- Select tone duration and tone style via easy Scan-LockTM feature and LED indicator. (selection of 8 different tone durations: 8-60 seconds maximum)

- Size, Speaker without bracket: 7-1/4" (184mm) Dia. x 9" (229mm) L. Weight: 8 lbs. (3.63kg).
- Size, Amplifier: 2-1/4" (54mm) H x 5" (127mm) D x 4-3/4" (120mm) L.

MODEL

HOWLER: Siren amplifier with two speakers

Mounting Brackets for 2008 vehicles

HWLRB1: Ford Crown Victoria

HWLRB2: Ford Expedition

HWLRB3: Ford F-Series Super Duty

HWLRB4: Ford E-Series

HWLRB5: Chevy Suburban & Tahoe

HWLRB6: Dodge Charger



Whelen Products
are proudly made
in the U.S.A

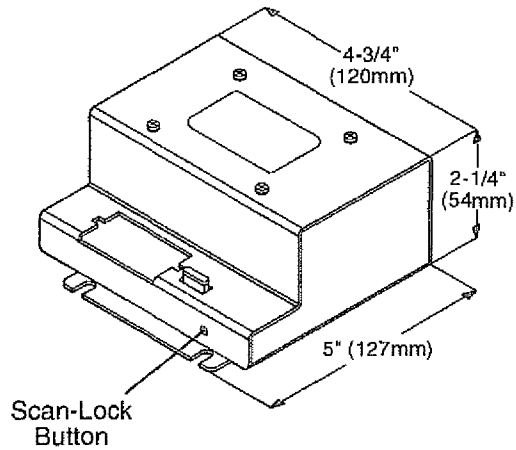
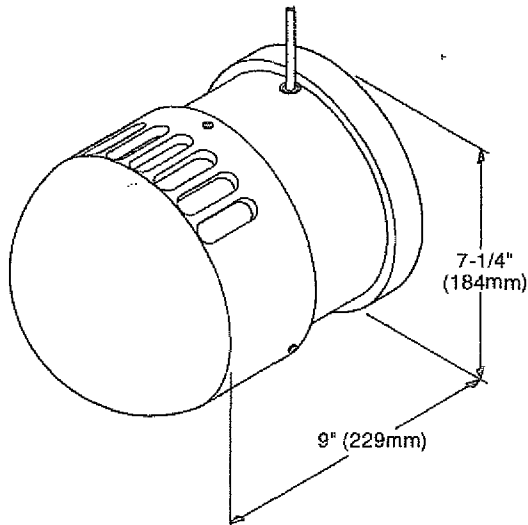
WHELEN[®]
ENGINEERING COMPANY, INC.

Engineers for the Emergency Warning Industry

Form# HOW0608

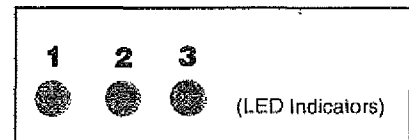
HowlerTM Siren & Speaker System

HOWLER™ SPECIFICATIONS



Selecting tone duration and style is easy. Three LEDs located on the rear of the Howler amplifier provide a visual indication of the currently selected tone style during the configuration process. Using the Scan-Lock™ button, cycle through the three different tone styles. The currently selected style and tone can be identified by these LED indicators.

Rear View of Amplifier

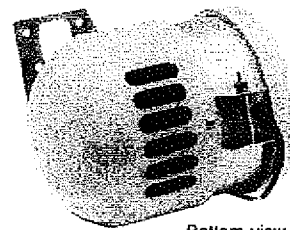


Select Tone Style Via LED Indicator

LED1	LED2	LED3	tone style
On	Off	Off	1/4 Primary siren tone frequency (default)
Off	On	Off	1/2 Primary siren tone frequency
On	On	Off	1/4 & 1/2 Primary siren tone frequency

Select Tone Duration Via LED Indicator

LED1	LED2	LED3	tone duration
Off	Off	Off	7.5 Seconds (default)
On	Off	Off	15 Seconds
Off	On	Off	22.5 Seconds
On	On	Off	30 Seconds
Off	Off	On	37.5 Seconds
On	Off	On	45 Seconds
Off	On	On	52.5 Seconds
On	On	On	60 Seconds



Bottom view of speaker

WHELEN
ENGINEERING COMPANY, INC.

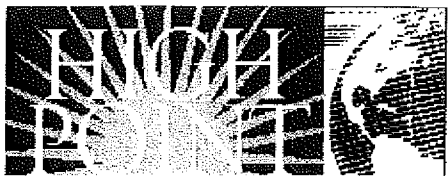
51 Winthrop Road
Chester, Connecticut 06412-0684
(860) 526-9504 • Fax: (860) 526-4078
Internet: www.whelen.com



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Code No. 12174A-0908

REQUEST FOR PROPOSALS – ALPR SYSTEM



NORTH CAROLINA'S INTERNATIONAL CITY™

City Of High Point
Purchasing Division
211 S. Hamilton St., PO Box 230
High Point, NC 27260
Phone: 336-883-3219 Fax: 336-883-3248
T Robert (Bob) Martin, Purchasing Manager
purchasing@highpointnc.gov

PROPOSAL NUMBER: 1649-112310	DATE: November 15, 2010
QUOTE DUE NO LATER THAN Tuesday, November 23, 2010 at 5:00 PM	
BUYER: Patty Sykes patty.sykes@highpointnc.gov TELEPHONE: (336) 883-3220	Bid price shall be FOB Destination and include delivery and installation to: City of High Point Police Department Attn: Captain Tony Hamrick 1009 Leonard Ave. High Point, NC 27260

- Pursuant to General Statutes of North Carolina, Section 143-129, as amended, bids and proposals subject to the conditions and specifications herein, are invited for materials and equipment as described herein.
- Prices or any other entry made hereon by the bidders shall be considered firm and not subject to change or withdrawal.
- Bidders certify under penalty of perjury that this bid has not been arrived at collusively and that no Federal or North Carolina antitrust laws have been violated.
- State and County sales **taxes shall not be included** in the bid prices. Sales tax shall be added to vendors invoice and will be paid to vendor at time of invoice payment.
- Bidders shall sign this form and return it with additional bid documents on or before the above date and time, to the City of High Point Purchasing Division, P O Box 230 (27261), 211 S. Hamilton St., High Point, NC 27260. Bids may be returned by Fax to 336-883-3248 or email patty.sykes@highpointnc.gov

<u>ELSAG N.A.</u>	
Company Name	Signature
<u>205 W CREEK RIDGE Rd.</u>	<u>CRAIG W. DUNCAN</u>
Address	Above (typed or printed)
<u>GREENSBORO NC 27406</u>	<u>11/22/2010</u>
City State Zip	Date
<u>craig.duncan@elsagna.com</u>	<u>(910) 986-0596</u>
E-mail	Telephone
	<u>(336) 379-7164</u>
	Fax



By checking this box, I acknowledge that I have read and accept the terms and conditions associated with this bid.

PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310

QTY	DESCRIPTION	UM	UNIT PRICE	TOTAL PRICE
2	License Plate Reader Slate-810-LE-G (or approved equal)	Ea	18,555.00	37,110.00
Brand & Model Offered		ELSAQ NA - MPH-900 X3 ALPR PROCESSOR (C. CABLES IN 3 HOUSINGS, CABLES, SOFTWARE)		
2	System Software	Ea	- 0 -	- 0 -
Brand & Model Offered		ELSAQ - CAR SYSTEM		
2	Server Hardware Platform	Ea	975.00	1,950.00
Brand & Model Offered		MPH-9000 PC		
Installation – including Field Engineering services for installation, configuration, and training for mobile ALPR system, including system administration and user training on software.				
Installation		FREE \$ - 0 -		
Extended Warranty Pricing (after 1 year warranty expiration)				
	Year 1	Per Year	- 0 -	
	Year 2	Per Year	- 0 -	
	Year 3	Per Year	- 0 -	
Licensing Fees				
	One Administrator & Two User License	Per Year	- 0 -	
	One Administrator & Five User License	Per Year	- 0 -	
Additional Equipment Pricing				
2	Lightbars - Whelen Liberty SC LED Lightbar with Traffic Advisor (or approved equal)	Ea	1,631.25	3,262.50
Brand Name & Model Offered		WHELAN - SEE ATTACHED		
2	Rumbler™ Intersection-Clearing System (or approved equal)	Ea	476.60	953.20
Brand Name & Model Offered		WHELAN - SEE ATTACHED		
LIGHT BAR RUMBLER INSTALL			550	1,100.00
Delivery and Installation will be made within 30 days after receipt of order		Payment Terms: Net 30		

PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310
(Page 2)

SERVICE: Adequate and satisfactory availability of repair parts, supplies and ability to meet warranty requirements are necessary. The City reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard. The bidder shall offer warranty service by a qualified technician/mechanic at user's site. List below firms nearest in location to the user from which to obtain parts and service after the warranty has expired.

FIRM NAME	LOCATION	CONTACT	PHONE
ELSAG NA	205 H CREEK RIDGE RD - GREENSBORO, NC 27406	TECH SUPPORT	(336) 379-7135 (336) 947H-900

REFERENCES: The vendor must demonstrate that he has proven experience in the installation of automated license plate recognition systems. Bidder should list below at least three (3) customers of comparable size who have purchased and are actively using the offered ALPR System.

FIRM NAME	LOCATION	CONTACT	PHONE
GEORGIA STATE PATROL	ATLANTA, GA	LT. KERMIT STOKES	(706) 272-2200
RICHLAND COUNTY SO	COLUMBIA, SC	MRS. SIM STEWART	(803) 576-3545
DURHAM COUNTY	DURHAM, NC	KIM SIMPSON	(919) 560-0306



ELSAG North America

205-H Creek Ridge Road
Greensboro, NC 27406

Duns # 196140821
Phone: 866-9MPH900 (967-4900)
Fax: 336-379-7164

11/22/2010
QUOTATION

Delivered to:
High Point Police Department
1009 Leonard St.
High Point, NC
C/O Capt. Hamrick
(336)887-7805

Quotation valid until: January 21, 2011
Prepared by: Craig Duncan
Projected Arrival Date: TBD

Model #	Description	Cost	Units	Amount
MPH-900X3	Mobile License Plate Reader - Includes LPR Processor, 6 cameras (3 color and 3 infrared LPR in three enclosures), cables and related software.	\$18,555	2	\$37,110.00
INST SUP	Day rate for ELSAG North America installation staff either on site or in the development lab.		2	FREE
MPH-900 OPC	Operations Center License designed to coordinate multiple fixed and mobile units across.	\$975	2	\$1,950.00
Phone Support	24 Hour Telephone Support by qualified MPH-900 technicians			FREE
ON-SITE TRAINING	Included in the purchase of both transportable and permanent MPH-900 installations available in group and individual sessions.			FREE
TRAINING CENTER MEMBERSHIP	Unlimited access to ELSAG North America training classes held either in the field or at Company Facilities.			FREE
			TOTAL	\$39,060.00

Service Plan for goods and services provided by the above quote

			Due Date
Year I	Free	Hardware and Software	
Year II	Free	Hardware and Software	1 year after receipt
Year III	Free	Hardware and Software	2 years after receipt
Year IV	\$1,600	Hardware and Software	3 years after receipt
Beyond	\$1,600	Software Only	4 years after receipt

Service Plan Includes:
- Software Updates
- Annual Training/Service
- Parts & Labor

Approval Signature: _____



ELSAG North America

205-H Creek Ridge Road
Greensboro, NC 27405

Duns# 196140821
Phone: 866-9MPH900(967-4900)
Fax: 336-379-7164

11/22/2010
QUOTATION

Delivered to:
High Point Police Department
RFP 1649-112310

Quotation valid until: January 21, 2011
Prepared by: Craig Duncan
Projected Arrival Date: TBD

Model #	Description	Cost	Units	Amount
SX6888B	WHELEN LIBERTY SX 48.50 LC R/B/B/B	\$1,631	2	\$3,262.50
SLDBB	WHELEN OPT. ADD 2 LED BLUE/BLUE		10	
SXTLS1	WHELEN LIBERTY SX LR11 T-D LV 2		2	
SPALF1	WHELEN LIBERTY SX LR11 ALLEY LT PR		2	
MKE247	E-2 LIGHTBAR MOUNT KIT #47		2	
2955LSA6	SIREN CONTROL CENTER		2	
SA315P	SPEAKER, BLACK PLASTIC		2	
SAK17	MOUNT KIT FORD CROWN VIC		2	
HOWLER	LOW FREQ TONE SIREN SYS	\$477	2	\$954.00
HWLBR1	REPLACEMENT HOWLER BRKT CV		2	
LABOR	LIGHTBAR/HOWLER INSTALL	\$550	2	\$1,100.00
WHELEN	WHELEN WARRANTS ALL LIGHTBAR/HOWLER EQUIPMENT DIRECTLY		2	
			TOTAL	\$5,316.50

Service Plan for goods and services provided by the above quote

			Due Date
Year I	Whelen	Hardware and Software	
Year II	Whelen	Hardware and Software	1 year after receipt
Year III	Whelen	Hardware and Software	2 years after receipt
Year IV	Whelen	Hardware and Software	3 years after receipt
Beyond	Whelen	Software Only	4 years after receipt

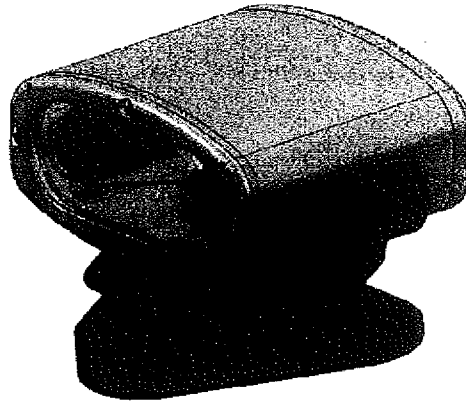
Service Plan Includes:
- Software Updates
- Annual Training/Service
- Parts & Labor

Approval Signature: _____

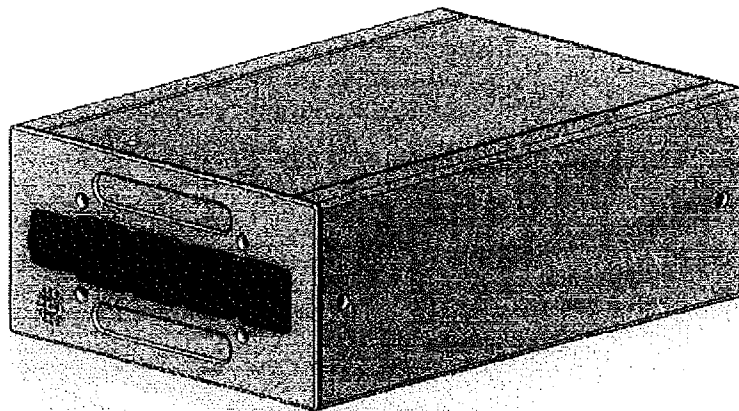


ELSAG North America Law Enforcement Systems, LLC

MPH900 AD3 Split LPR System



AD3 Split Camera (shown on clicker base)



AD3 Split Processing Box (2 Camera Box Shown)



ELSAG North America Law Enforcement Systems, LLC

AD3 Split System Specifications:

AD3 Split Camera LPR Sensor		
	B&W Camera	Progressive Scan CCD (12-50mm available)
	Color Camera	Ex-View CCD Pal Video Format (6-25mm available)
	Optics Interface	C Mount
	IR Illumination	Std. 735nm discrete LED, driven w/ high current pulses synchronized with camera shutter. (810-880nm available)
	Operating Temperature	-20 – 55°C (-5 – 131°F)
	Environmental	Internal Heater
	Housing Protection	IP67
	Operating Humidity	10 – 90% non condensing
	Overall Size	3.13" x 6" x 5.5" (w/o base)
	Camera Weight	3.5 lbs. (w/o base)
	Cable Interface	Proprietary 23 pin connector IP67 rated
	Camera Base Options	Magnet Mount
		Hedley Mount
		Clicker Base Mount
		Permanent Bulkhead Mount
		Whelan Light-bar Interface Mount
	Safety Feature	Class 1 Illuminator, EN60825-1 compliant
AD3 Split Processor Box		
	Processing Board	Processor embedded, Linux real time operating system
	Housing Protection	IP65
	Communication	100 Mbit fast Ethernet adapter
	Data packet	For each Read system generates; • Read License Plate String • Date-Time Stamp • Camera Identifier • JPEG compressed Grayscale and color overlay JPEG of the plate
	OCR Training	Regionalized OCR optimization
	Operating Temperature	-20 – 55°C (-5 – 131°F)
	Operating Humidity	10-90%
	Power Requirements	12 VDC / 5.5A 66 Watts (maximum)
		12 VDC / 2.4A 29 Watts (normal operation)
	Processor Box Weight	5.3 lbs.
	Processor Size	8" x 11" x 4" (2 port box)

REQUEST FOR PROPOSALS - ALPR SYSTEM



City Of High Point
Purchasing Division
211 S. Hamilton St., PO Box 230
High Point, NC 27260
Phone: 336-883-3219 Fax: 336-883-3248
T Robert (Bob) Martin, Purchasing Manager
purchasing@highpointnc.gov

PROPOSAL NUMBER: 1649-112310	DATE: November 15, 2010
QUOTE DUE NO LATER THAN Tuesday, November 23, 2010 at 5:00 PM	
BUYER: Patty Sykes patty.sykes@highpointnc.gov TELEPHONE: (336) 883-3220	Bid price shall be FOB Destination and include delivery and installation to: City of High Point Police Department Attn: Captain Tony Hamrick 1009 Leonard Ave. High Point, NC 27260

- Pursuant to General Statutes of North Carolina, Section 143-129, as amended, bids and proposals subject to the conditions and specifications herein, are invited for materials and equipment as described herein.
- Prices or any other entry made hereon by the bidders shall be considered firm and not subject to change or withdrawal.
- Bidders certify under penalty of perjury that this bid has not been arrived at collusively and that no Federal or North Carolina antitrust laws have been violated.
- State and County sales taxes shall not be included in the bid prices. Sales tax shall be added to vendors invoice and will be paid to vendor at time of invoice payment.
- Bidders shall sign this form and return it with additional bid documents on or before the above date and time, to the City of High Point Purchasing Division, P O Box 230 (27261), 211 S. Hamilton St., High Point, NC 27260. Bids may be returned by Fax to 336-883-3248 or email patty.sykes@highpointnc.gov

South Sales Communications

Company Name
446 Crompton Street
Address
Charlotte NC 28273
City State Zip
steveule146@gmail.com
E-mail


Signature
Tim Rock
Above (typed or printed)
November 23rd, 2010
Date
704-969-9000 704-969-9001
Telephone Fax



By checking this box, I acknowledge that I have read and accept the terms and conditions associated with this bid.

PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310

QTY	DESCRIPTION	UM	UNIT PRICE	TOTAL PRICE
2	License Plate Reader Slate-810-LE-G (or approved equal)	Ea	\$9970.00	\$19,940.00
Brand & Model Offered		Vigilant Video CarDetector 2 camera system model CDMC2PW24		
2	System Software	Ea	\$2,250.00	\$4,500.00
Brand & Model Offered		One time initial charge for all Software via Site License Program		
2	Server Hardware Platform	Ea	\$6410.00	\$6410.00
Brand & Model Offered		Only 1 required-Dell Tower Server with LEARN application loaded		
Installation – including Field Engineering services for installation, configuration, and training for mobile ALPR system, including system administration and user training on software.				
Installation		\$6,040.00		
Extended Warranty Pricing (after 1 year warranty expiration)				
	Year 1	Per Year	\$0.00 - Included in base cost	
	Year 2	Per Year	\$0.00 - Included in base cost	
	Year 3	Per Year	\$727.00	
Licensing Fees				
	One Administrator & Two User License	Per Year	\$500.00	
	One Administrator & Five User License	Per Year	\$500.00	
Additional Equipment Pricing				
2	Lightbars - Whelen Liberty SC LED Lightbar with Traffic Advisor (or approved equal)	Ea	\$2,150.00	\$4,300.00
Brand Name & Model Offered		Whelen Liberty per Capt. Hamrick's specifications		
2	Rumbler™ Intersection-Clearing System (or approved equal)	Ea	\$484.00	\$968.00
Brand Name & Model Offered		Whelen Howler		

Delivery and Installation will be made within <u>30</u> days after receipt of order	Payment Terms: Net <u>30</u>
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PROPOSAL
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310
(Page 2)

SERVICE: Adequate and satisfactory availability of repair parts, supplies and ability to meet warranty requirements are necessary. The City reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard. The bidder shall offer warranty service by a qualified technician/mechanic at user's site. List below firms nearest in location to the user from which to obtain parts and service after the warranty has expired.

FIRM NAME	LOCATION	CONTACT	PHONE
South Sales Communications	Charlotte, NC	Tim Rock	704-969-9000
1-Volt Associates	Charlotte, NC	Andrew Chalson	704-588-8818
Warnock Fleet	East Hanover, NJ	Jeff Wohlgemuth	201-704-9451

REFERENCES: The vendor must demonstrate that he has proven experience in the installation of automated license plate recognition systems. Bidder should list below at least three (3) customers of comparable size who have purchased and are actively using the offered ALPR System.

FIRM NAME	LOCATION	CONTACT	PHONE
High Point University	High Point, NC	Chief Jeff Karpovich	336-841-9011
Norton Police Department	Norton, OH	Sgt. Jay Nagy	330-606-3975
Kings Point Village PD	Kings Point, NY	Sgt. James Moran	631-821-6200

**SPECIFICATIONS
AUTOMATED LICENSE PLATE RECOGNITION SYSTEM
BID NO. 1649-112310**

The City of High Point is seeking proposals for an Automated License Plate Recognition System. The specifications below give a general description of the characteristics and performance expected of the proposed system. The proposed system is to include all cameras, mounting hardware, computer hardware, software, accessories, labor and equipment necessary to provide a turnkey installed system.

Bidders shall supply with their bid, complete descriptive literature and specifications for offered equipment. Include any information which you think may be pertinent to the evaluation.

Hardware Specifications:

- The Cameras must be small and light weight enough, to attach to the vehicle's emergency lightbar so as not to obstruct or otherwise hinder visibility to the lightbar. Mounting bracket shall be furnished by the vendor

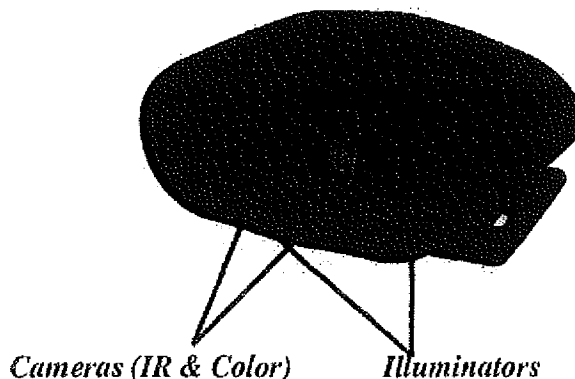
Partially comply: Currently Vigilant Video does not supply a commercially available bracket mount to attach to a vehicle lightbar; however, given the flexibility of the cameras mounting capabilities accommodations can be made to accomplish this. The Typical deployment utilizes the mounting method described below.

- Vendor shall also be capable of providing brackets for trunk lid mounts. These brackets must easily allow for rotation, tilt, and yaw adjustments.

Fully Comply: integrated in the pricing response above is a trunk lid mounting bracket that uses two set screws to secure the mount while allowing for full range of motion for camera aiming purposes

- The system must be comprised of Infrared (IR) Cameras for effective license plate image capture in a variety of weather and lighting conditions.

Fully comply: The attached image illustrates the availability of both an IR and color camera capable of capturing plate records in zero lux conditions:



- 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.

Fully Comply: *The Vigilant Video solution features a set of optimized camera settings. Included in the design of the camera is a custom firmware that uses a photo-sensor to determine current lighting conditions and automatically adjust to for optimal performance. The Processing unit captures a set of at least 6 images of the event capture, then analyses and sends the best result to the software for processing.*

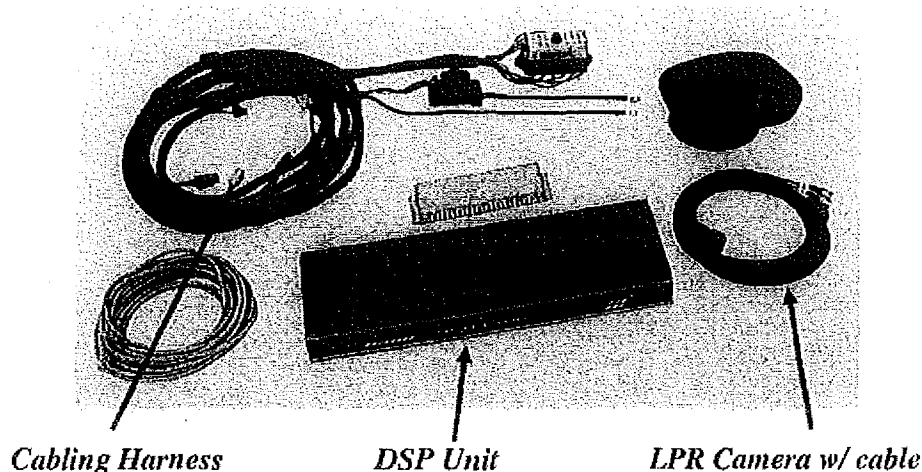
- Cameras must be capable of scanning licenses plates of passing cars in seconds.

Fully Comply: *The cameras operate at 30 frames per second allowing for plate capture at high rates of speed.*

- Camera to include at a minimum: Camera processor, cable/connector(s), Client/server architecture, bracket mount assemblies.

Fully Comply *The OCR processor is not integrated inside the camera. Rather, a Digital Signal Processor (DSP) technology unit is utilized for each car. The DSP Unit will process up to four cameras simultaneously.*

The LPR systems are sold as in-car hardware 'Kits'. Each kit contains 1) DSP; 2) Combination Color/IR LPR Camera mounting bracket & cable; 3) SAE J-1128 compliant (Society of Automotive Engineers standard for in-car wiring harnesses) cabling system; and 4) Required accessories



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.

Fully Comply: *The Vigilant Video CarDetector application is a windows based software application that will install on the MDC and communicate with the DSP unit, and operate on the MDC unit, without the use of additional communicating hardware.*

- The Automated License Plate Recognition (ALPR) Processor must be capable of detecting the presence of lawfully mounted vehicle license plates in the Cameras' Field of View (FOV) for image capture from the camera.

Fully Comply

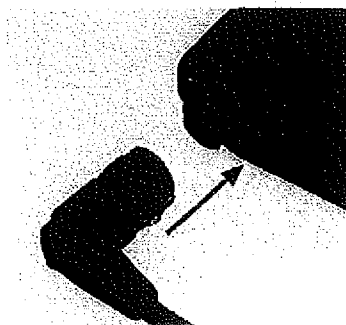
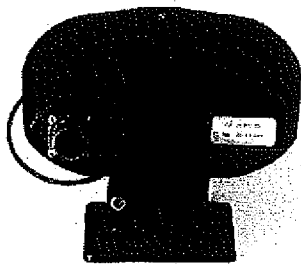
- The ALPR Processor must be designed to be trunk mounted and must incorporate an intelligent Power Supply Unit (PSU) that provides for a safe start-up and shut – down each time the vehicle's ignition is turned on and turned off.

Fully Comply: *One of the provided accessories for installation is a Power Conditioner Unit (PCU). The PCU regulates the voltage to the LPR systems to ensure the correct electrical requirements are met regardless of fluctuating DC power current.*



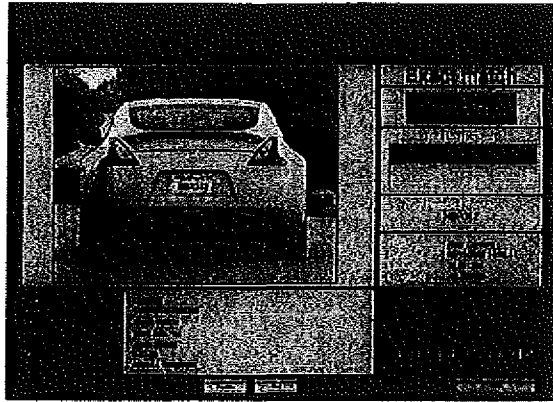
- The ALPR Processor must control the power supplied to the Cameras and provide video connection points for simplified system wiring.

Fully Comply: *Power and ground cables along with all other cabling required or camera operation are integrated into the single cable with mil-spec amphenol connector including RF shielding*



- Processor shall translate digital pictures into data, cross-reference that information with databases for wanted drivers, and relaying the information to police personnel instantaneously.

Fully Comply: *Multiple list sources can be used as a database for comparison purposes. In the event of a match to the list an alert will be presented to the user as illustrated below along with an optional audible alert*



(Image not to Scale)

- The system shall return an alarm to the operator instantaneously and provide instant feedback and direction of the suspect vehicle. Audible and visual alarms inform the officer of the vehicle's location and the infraction related to the alarm.

Fully Comply: *As illustrated above.*

- The ALPR Processor must be designed to meet the environmental conditions associated with a trunk-mounted unit.

Fully Comply: *The processor features a solid state design to withstand shock and vibration. The processor is temperature rated for -40 to +140 Celsius.*

Client (In Vehicle) Software Specifications

- 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.

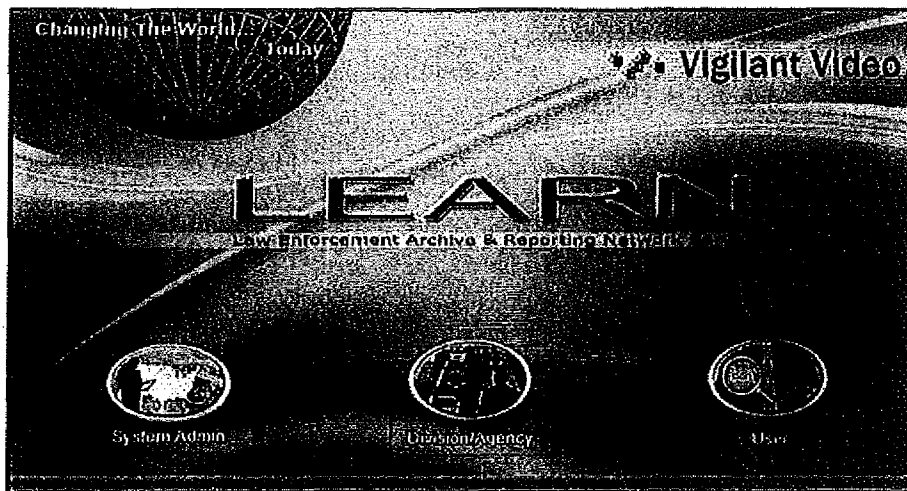
Fully Comply: *The CarDetector system allows for multiple log-in credentials per vehicle install with customizable permissions per user account*

- System Software for system administration, data analysis and data storage, data mining, reporting, mapping via Google Maps, remote alerting, and networking in support of interagency data sharing.

Fully Comply: *Vigilant Video's server component: LEARN (Law Enforcement Archival Reporting Network), an enterprise class server application that manages each CarDetector in-car LPR application.*

The LEARN server application is a web based data management utility that centralizes use of the LPR system regarding Hot-List management, User management, LPR data records, Hits, Historical data, automated software updates (distributed), mapping, forensic studies, audit trails, and much more.

The LEARN server allows for data sharing between agencies via a link server utility that will allow other Vigilant Video LEARN server deployments (e.g. High Point University) to share LPR data automatically. Using the secure web access interface to LEARN, other agencies that do not have access to their own LPR system can be granted access to the server via web access without effecting the core deployment or having access to agency sensitive data.



LEARN Server web based login access screen

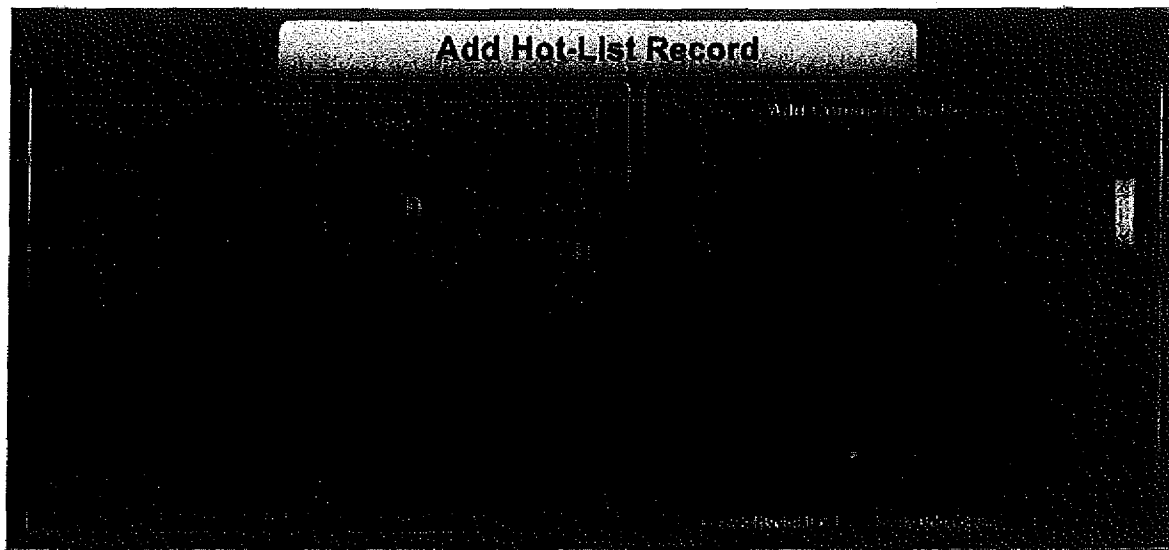
- Software to include one administration and 2 concurrent User Licenses.

Fully Comply: Using the Vigilant Video Software Site License High Point Police Department will have access to unlimited concurrent users. The Vigilant Video software is licensed on a per camera basis thus eliminating the need to worry about the number of concurrent users with access to the system.

- The system must have the feature that allows "hot list" databases to be created either from within the 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).

Fully Comply: The LEARN server allows for management of hot lists from multiple sources that can be set to automatically update at user defined intervals.

The ability for a user to add a record to the hot list from the vehicle interface is an inherent functionality of the CarDetector system. All information added in the field can be shared with the LEARN server for distribution to other LPR equipped vehicles via an automated process. A screen shot of the add plate utility is illustrated below:



- The system must provide live, simultaneous video display of all of the following data for any 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

Fully Comply

- 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.

Fully Comply: *In addition to the above functionality the hit screen allows for the officer to enter notes related to the hit for storage with the record*

- 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.

Fully Comply

- The system must provide the System Administrator with the ability to customize audible alerts to differentiate between unique events within the software application.

Fully Comply: *The system administrator can make changes to the audible alerts using a simple interface allowing the ability to browse for a .wav file to apply as illustrated below. In addition to the ability to perform this function from the vehicle, Vigilant Video allows for the server administrator to be able to make these changes within the LEARN server and have the updated configuration “pushed” to the CarDetector system in the field.*



- 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.

Fully Comply: The pop-up alert will come to the foreground of MDC screen by default and remain until the officer acknowledges the hit. In order to enable verification of the hit the hit screen is sized to allow the officer to select already running programs from the task bar by not hiding it behind the hit screen.

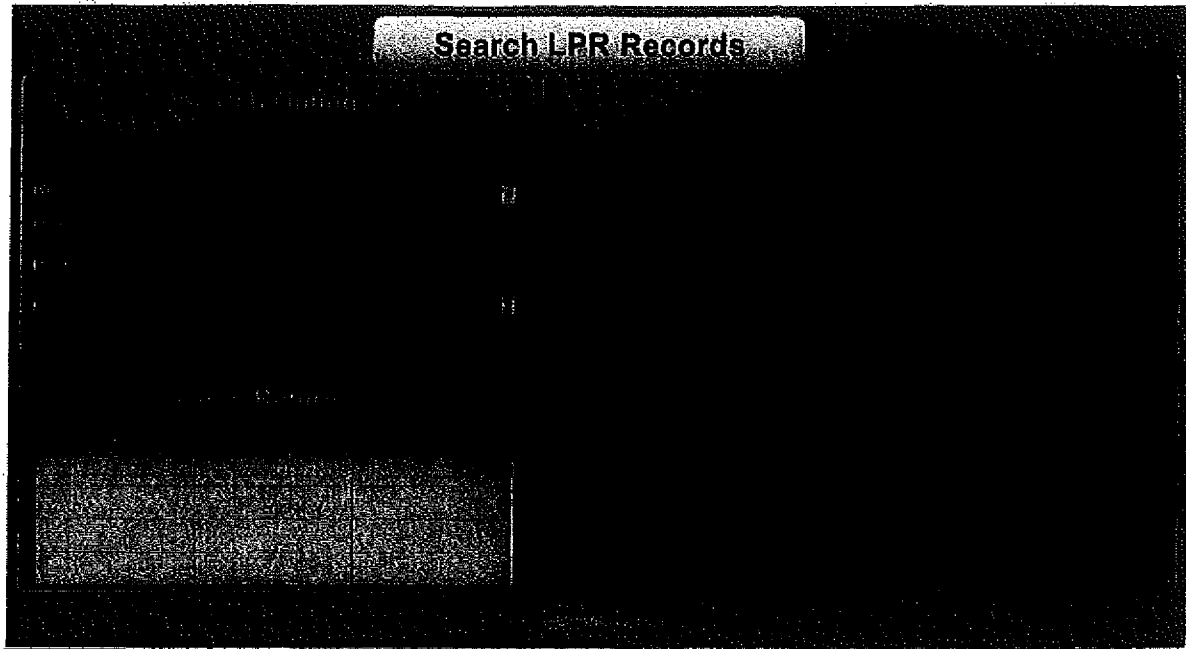
- The system must provide the officer with the capability to mark a license plate read as a "misread."

Fully Comply: The pop-up alert allows for an officer to add notes as well as select a "correct hit" or "incorrect hit" disposition button. Statistical tracking of hit disposition is available via a report within the LEARN server.



- 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).

Fully Comply: The CarDetector interface provides a comprehensive search utility (see screenshot below). The Search allows for a record type equal to detection, Hit, and Hot List records.



- 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

Fully Comply

- 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

Fully Comply: This search function can be performed by the CarDetector application in the field (as illustrated above), or via the LEARN server utility (as shown below: Within the specified Search criterion, a list of LPR data Records is returned to the User from which several 'Hot-Links' may be used to access all relevant information:

Vigilant Video **LEARN**
The Eyes are Always Watching

Home | Settings | Reports | Search | Logout

Search:

Filter:

Results: 10/30/2009 12:19:42 PM

Plate	Time	Location	System	Source	Server Source
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local
GYF023	10/30/2009 12:19:42 PM	16573 Nacogdoches Rd Bexar, TX 78247	Car-1	Front Moving	local

[Info](#) [Edit](#) GYF023 10/30/2009 12:19:42 PM 10/30/2009 2:19:42 PM

EVENT INFORMATION

Plate Image:

Car Image:

Click here to view loc

Plate1	GYF023
Plate2	GYF023
Local Time	10/30/2009 12:19:42 PM
User Time	10/30/2009 2:19:42 PM
Longitude	-98.35488
Latitude	29.59204
User ID	6175
System	Car-1
Source	Front Moving
Server Source	local

[View Map](#) [Show Address](#) [Close](#)

Address: 16573 Nacogdoches Rd Bexar, TX 78247
Distance from this address: 0.17
Nearest Intersection: Nacogdoches Rd-State Hwy 1604 Access Rd

Map **Satellite** **Hybrid**

PLATE INFORMATION

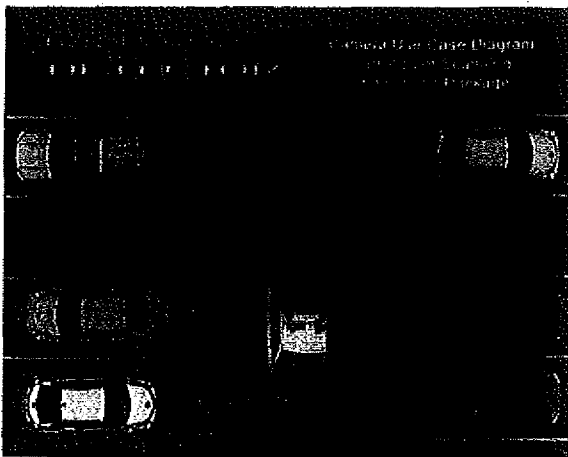
Plate Image:

Car Image:

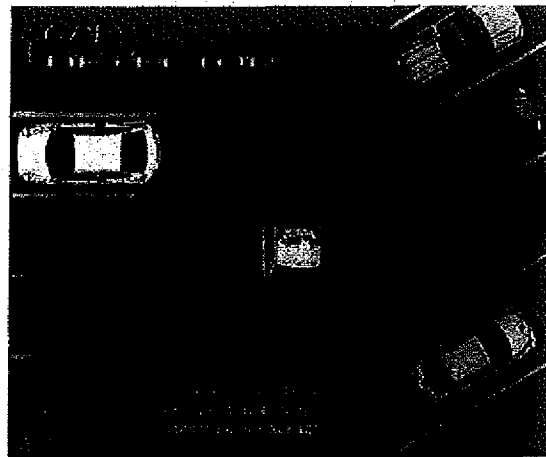
Plate 1: GYF023
Plate 2: GYF023
Vehicle Time: 10/30/2009 2:19:42 PM
Longitude: -98.354883
Latitude: 29.592044
[Show Address](#)

◦ 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

Fully Comply: Vigilant Video offers up to five (5) different cameras to choose from, of which to utilize for many different applications. The following diagrams depict the use cases recommended by Vigilant Video:



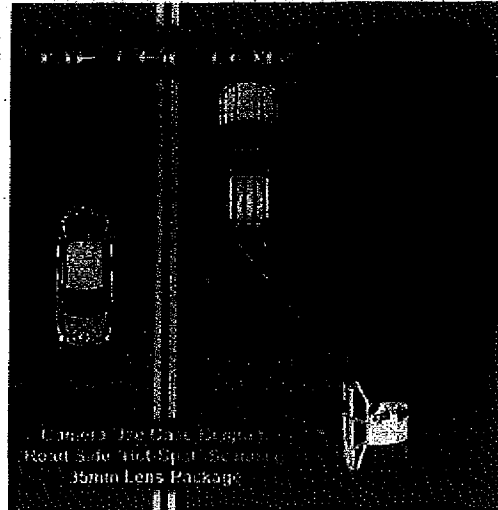
Camera # 1 - 16mm Camera Lens



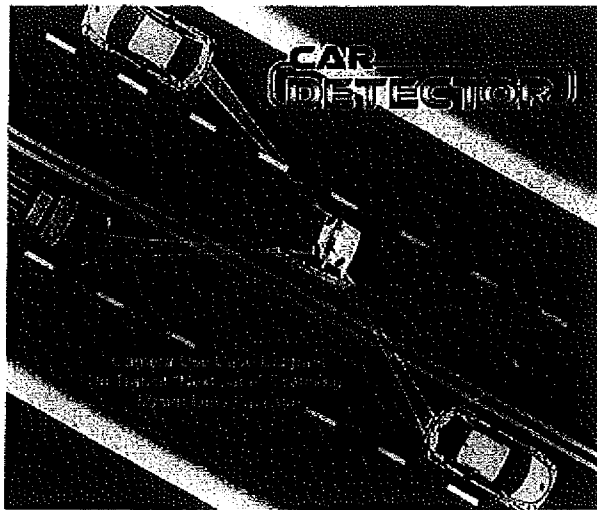
Camera # 2 - 25mm Camera lens



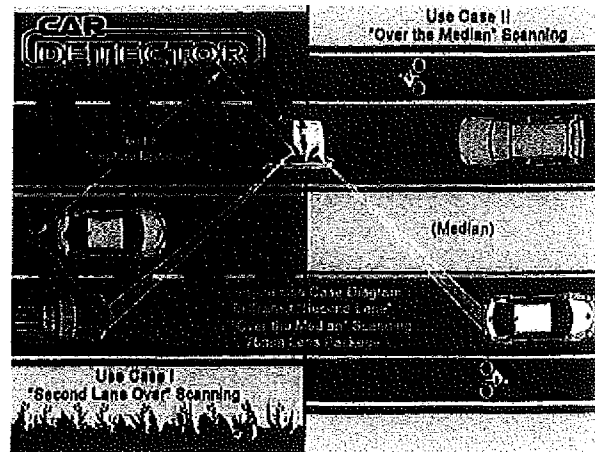
Camera # 2 - 25mm Camera Lens



Camera # 3 - 35mm Camera lens



Camera # 4 - 50mm Camera Lens



Camera # 5 - 75mm Camera lens

Server Software Specifications

- As part of the overall system and functionality, a 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.

Fully Comply: *The Vigilant Video LEARN server software allows for the most comprehensive and user friendly management of multiple LPR deployments. Please see the additional section below titled "More to know about Vigilant Video's LPR solution."*

- 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.

Fully Comply: *The LEARN server software is the most advanced LPR server utility available to law enforcement today, providing management of all types of LPR deployments using a cohesive enterprise class architecture*

- The successful vendor must provide on-site system training for the system users and the System Administrator/s.

Fully Comply

- The successful vendor must provide system installation

Fully Comply

- All system documentation must be furnished in electronic format.

Fully Comply

Standards and Testing Requirements

- The ALPR Cameras must meet “eye safe” certification standards, as established by an international testing agency.

Fully Comply

- The ALPR Cameras must be sealed to IP67 Standards.

Fully Comply

- The ALPR Cameras must meet BS EN 60068 2-27 requirements for Mechanical Shock.

Fully Comply

- The ALPR Cameras must meet Mil. Std. 810F method 516.5, Procedure V requirements for Shock Crash Hazard.

Fully Comply

- 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 5502

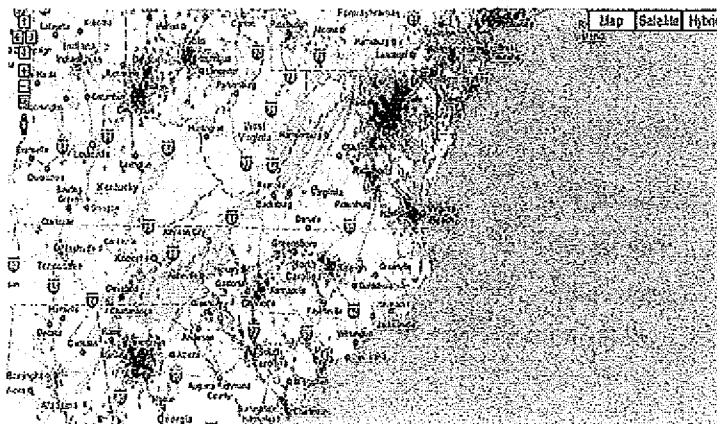
Fully Comply

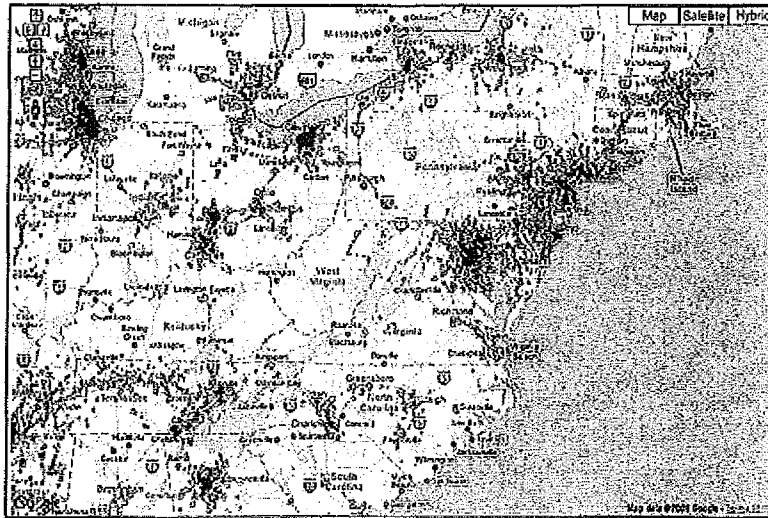
More to know about Vigilant Video's LPR solution

Section Intent - The intent of this section is to briefly highlight some of the features and functionality of the Vigilant Video CarDetector mobile LPR system with LEARN, specifically related to benefits not covered by this RFP.

Private LPR data – Vigilant Video has more LPR cameras deployed than any other LPR company in the US market. With over three hundred (300) private LPR scout cars, Vigilant Video's private LPR data repository provides over eight million (8,000,000) LPR data records per month. With over one hundred million records (100,000,000) Vigilant Video is the only company that can offer law enforcement agencies real time private LPR data subscriptions.

Scan Density Maps – Private LPR Data





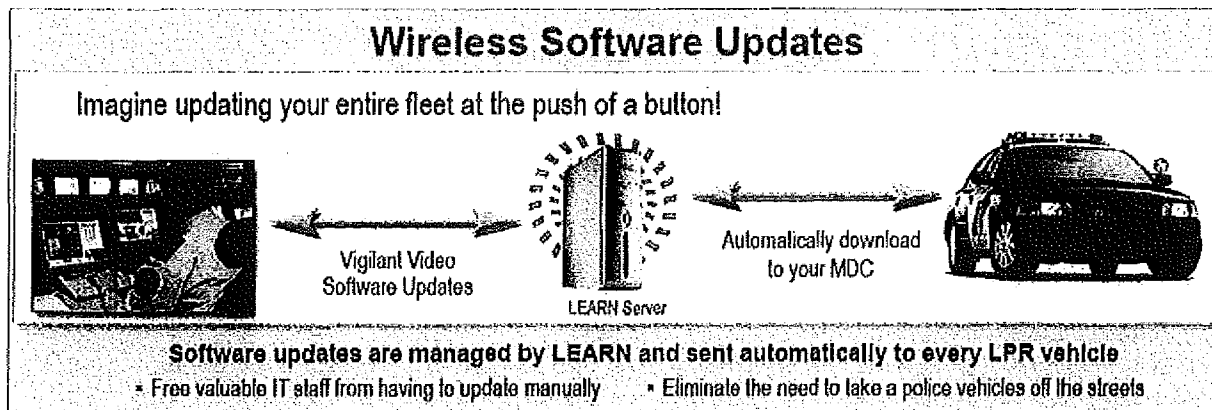
National LPR data Repository – Vigilant Video is the first and only LPR company within the US to offer a national LPR data option. Vigilant Video's national LPR server is available today for LPR data sharing and hosting for all law enforcement agencies within the US. The server is installed in a Law Enforcement approved data center and conforms to all NCIC security requirements.

- National LPR data hosting
- National LPR data sharing
- Offload the administrative overhead
- Transparent to the police department

<http://nvls-ncic.com/learn>

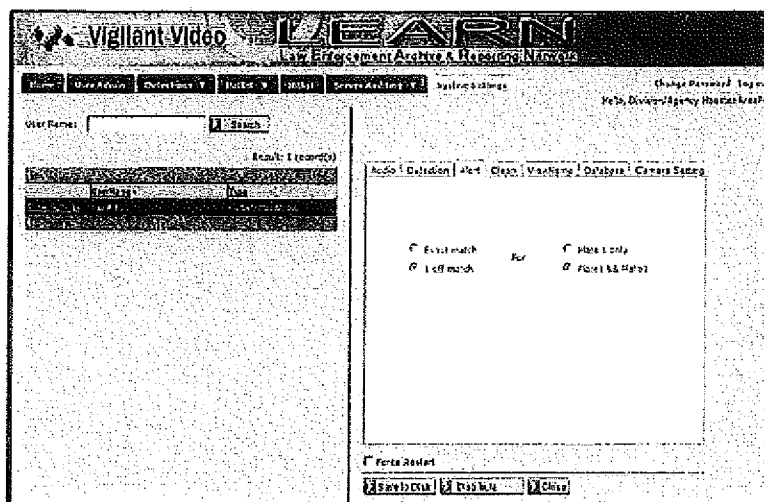
Automated Software Updates – Vigilant Video's software updates are all managed wirelessly by the LEARN server application. When a software update release is available by Vigilant Video:

1. Vigilant Video releases LPR software update to customer
2. Customer downloads software update to LEARN
3. LEARN dispatches all software updates to the In-Car CarDetector application



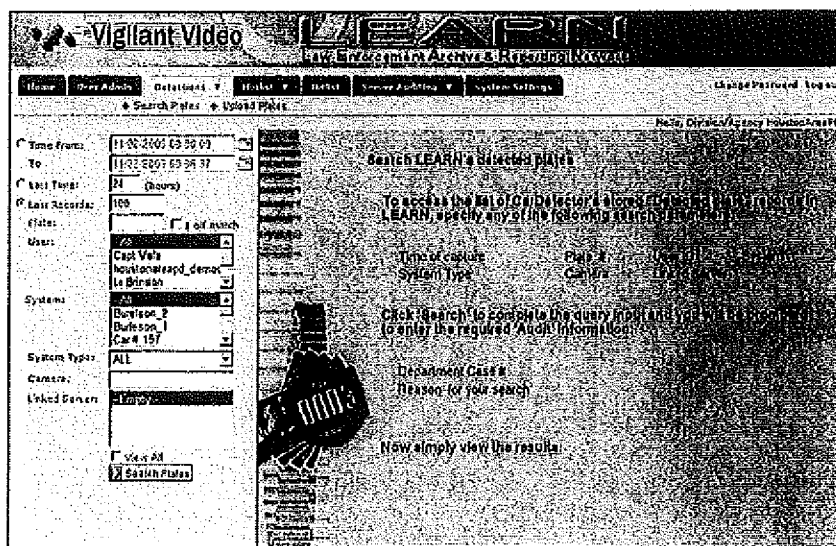
Centralized administration – LEARN has the built in capabilities to manage all User controls of the In-Car LPR application. The LEARN administrator can choose to configure all vehicle software on a car

by car basis. This decreases the requirement of extensive LPR application training for the officer, therefore helping to keep the officer focused on the pertinent tasks at hand.



Multiple Options – LEARN offers multiple search methods to ensure the User is able to extract the LPR data they are seeking.

- Search by User
- Search by System
- Search by Agency
- Search Partial or 'Wild Card' plates
- Geo-Fence your search
- Link other Agency's LEARN servers
- Search by last number of records
- Search by detection or Hot-List
- Search by time
- Search with 1-Off Intelligence



ADDITIONAL INSTRUCTIONS

Questions on technical specifications should be directed to: Captain Tony Hamrick, City Of High Point Police Department at 336-887-7805. All other questions may be directed to Patty Sykes, Senior Buyer, at 336-883-3220.

MAKE AND MODEL: Indicate manufacturers' name and model number of item offered in the spaces provided. Complete descriptive literature and manufacturer's specifications shall be included in the bid.

WARRANTY: Equipment shall be new and shall be guaranteed against defect in materials, workmanship, and performance in accordance with the manufacturer's standard warranty, except that in no event shall such coverage be less than one (1) year. Warranty coverage shall begin on the date of acceptance by the City of High Point. Warranty service shall be available on site at any location within the state of North Carolina. Defective units shall be repaired or replaced during the warranty period at no cost to the City of High Point or its representative.

INSTRUCTION BOOK: The vendor shall furnish a booklet or pamphlet giving complete instructions for the operation, lubrication, adjustment, and care of the equipment.

DEMONSTRATION: Bidder must be capable of demonstrating proposed equipment within seven (7) consecutive calendar days after notification at no additional cost to the City. If required, this will be a comprehensive demonstration at a site designated by the City with hands-on participation by agency operator(s) if necessary. Bids that fail to comply with this requirement may be subject to rejection.

EQUIPMENT AND ACCESSORIES: All equipment and accessories listed as standard items in the manufacturer's current product literature, but not listed in these specifications shall be included with the equipment.

SERVICE UPON DELIVERY: Unit shall be complete, serviced and ready for operation. The City will only accept and approve for payment equipment that is complete in every respect and ready for operation.

STANDARD PRODUCTION MODEL: The attached specifications include the requirement that the equipment herein requested be a "standard production model of the latest design". To meet this requirement the equipment offered shall be new and the latest production model as represented in the manufacturer's current published literature intended for the general public. Such literature must represent the specific configuration offered. Equipment offered otherwise may be subject to rejection.

CLEAN UP: Upon completion of the equipment delivery, the bidder shall remove and properly dispose of all packaging waste and debris from the user's site. The bidder shall be responsible for leaving the delivery areas clean and ready to use.