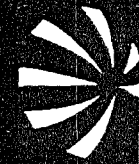




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License Plate Reading Technology

Intro

Hardware Components

Software

Reporting

Hot List Management

Tips & Techniques

Field Use



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1. **Data** – Targeted State Data is key; the system can handle up to 4M lines of data, multiple source data can be combined
NCIC Data– Stolen Vehicles and Stolen Plates, Warrants
*** Suspended/Revoked currently is included in Hot List
2. **Technical Training** - The purpose of this training is to show you how to correctly operate the LPR system, move the system from vehicle to vehicle (if transportable), preliminary troubleshooting, and driving (aiming the system while in operation.
3. **Consistent Use** – The equipment is extremely durable and is built to be in constant operation
4. **Drive up the #'s** - Read 1,000 tags, get a stolen, read 6,000 get an arrest. Our partner agencies have read several million tags and all agree that volume reading while on patrol wins the day.



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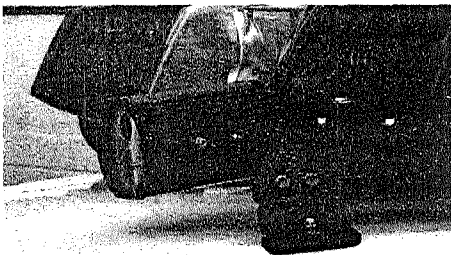
- ◆ Easily mounted or transportable LPR systems allow officers to maintain a normal patrol stance while capturing up to 5-7,000 reads in an 8 hour shift.
- ◆ The System reads across 2 lanes of traffic and captures vehicles in excess of 140MPH closing speed and 75+MPH passing speeds.
- ◆ The MPH-900 requires no driver intervention and runs against up to 4.0M lines of hotlist files for vehicles of interest.
- ◆ Milliseconds after a Hot list vehicle is captured, the system sounds an audible & visual alarm to the operator for immediate interdiction.
- ◆ The MPH-900 reads plates from all 50 states and Canada including difficult to read flat and vanity tags – 24 hours DAY or NIGHT in all kinds of weather.



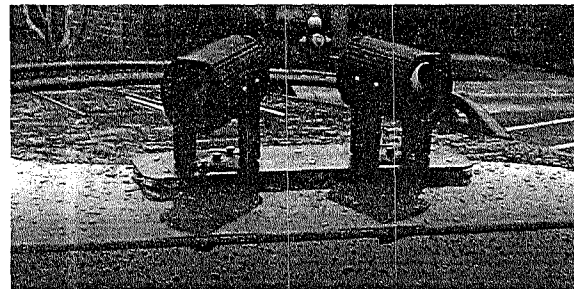
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ELSAG's Network LPR Solution has command center software that can manage hundreds of installations via a network of both fixed and mobile installs in a geography.

Mounted Mobile



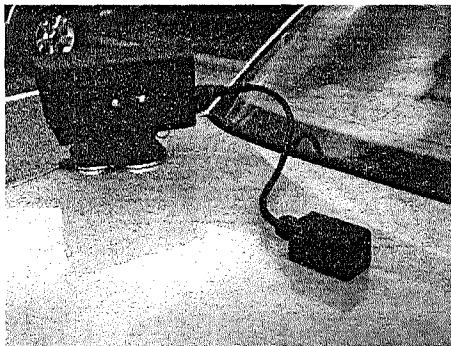
Transportable



Covert



Color (AD3M)



Fixed Gate Smart Cameras

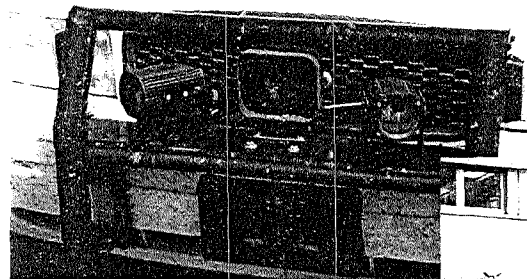
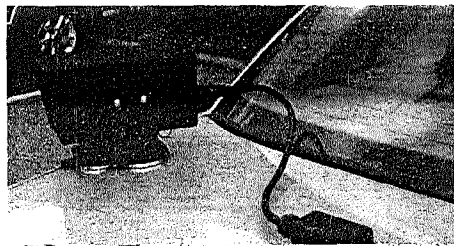
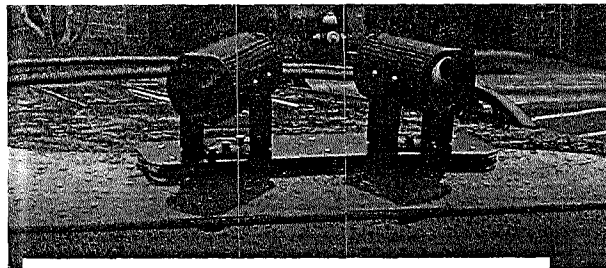
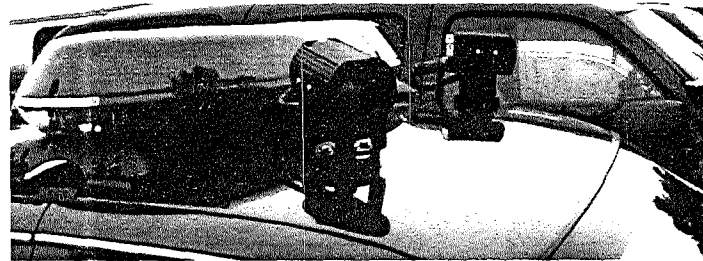


MPH900
Mobile Plate Hunter 900 Series
- 3867 -



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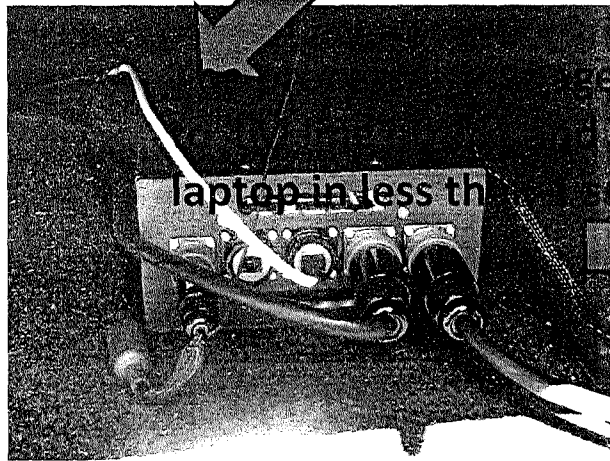


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2 Camera Split System

Infrared cameras, work day or night to capture license plate alphanumeric string and convert into digital text sent to OCR processor.



System Processor



In-Car Computer



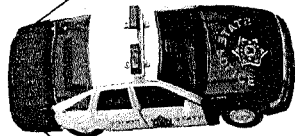
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Left Camera

Reads 1-2 left lanes oncoming and vehicles

Processes both moving and parked vehicles, while the police vehicle is moving or parked.

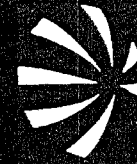


Right Camera

Reads Parked vehicles as well as cars that are passed on right.

Images are processed at a rate of 20 frames per second per camera, plates are recognized and cross-checked versus a database of up to 4 million lines for stolen vehicles/stolen plates, FBI NCIC list, Parolee list, Sex Offenders etc.

Vehicles found in the database will alarm in milliseconds



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Left Cameras

Reads vehicles passing
on your left no matter
the state origin.

3rd Camera System

Provides the complete
lane coverage in multiple
lane configurations.

Capturing vehicles with
only rear plate attached.

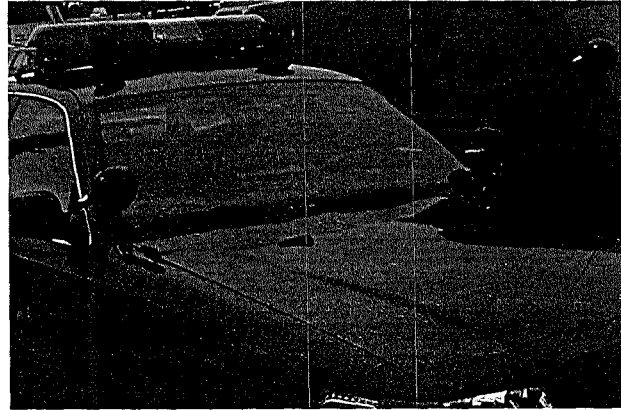
Processes both moving and
parked vehicles, while the police
vehicle is moving or parked.

Right Camera

Reads Parked
vehicles as well as
cars that are passed
on right.



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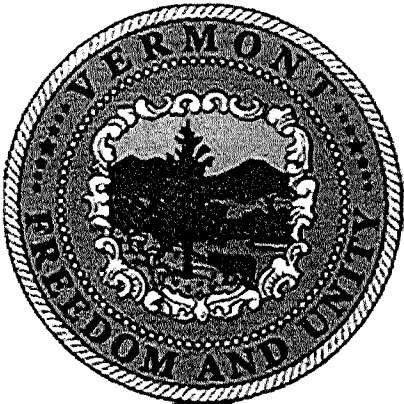
NEVER FORCE THE CONNECTORS

**NEVER CONNECT OR DISCONNECT
CAMERAS WITH POWER ON**



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Vermont State composes a list of issues:

Vermont State Fusion Center

Stolen Vehicle

Stolen License Plate

Wanted Person Or
Missing Person

Suspended/Revoked Registrations



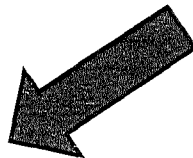
NCIC

Stolen Vehicle – Out of State

Wanted Person! Or Missing Person

Stolen License Plate – Out
of State

Unknown Alarm - Canadian Origin - Check
Radio Control Center



Local Investigative Issues:

Supervised Release

Protection Order

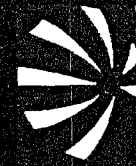
VGTOF

Immigration Violator

Convicted Sexual Offender
Registry



HOT LIST!



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Menu

Vehicle ID: 1

Pending Alerts

0

Alerts



Click Mobile Plate Hunter
900 to start LPR interface

Click GPS Position to
confirm GPS signal



LPR
Mobile Plate Hunter
900



GPS
Position



AMC
Account Management
Control

About

2008-08-12 14:53:12

LPR



GPS



Hazard



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LPR Mobile Plate Hunter 900

Vehicle ID: 1

Pending Alerts 0

Alerts

Management

Diagnostics

Hot list last update

2008-06-25 07:19

Operations

Readers

Right

DKK8374

?

07:55:43

Alarm

Last events

Reads

Alarms

Right

DKK8374

?

07:55:43

Right

EJF6215

?

07:55:33

Right

NSP0BA[0D]

?

07:55:28

Right

EER7039

?

07:55:28

Right

EJF5870

?

07:55:17

Right

EJY1860

?

07:54:53

Info

Setup

Menu

Hazard

About

2008-06-25 07:55:57

LPR

GPS

COM

Last Hotlist
updated time
and date.

Data
transferred
from server
automatically

Magnified
version of last
plate read

Last 6
Reads



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LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0 Alerts ☐ ☐

Management Diagnostics

Green: System is ready to read plates

System is in STANDBY or BOOT-UP mode

Readers

Red: Communications Problem

Gray: System Failure

M-01 ECX2360 NY 13:18:12

Alarm Last events

Reads			
M-01	ECX2360	NY	13:18:12
M-01	UTE93T	NJ	13:17:42
M-01	J1CJ1	?	13:17:42
M-00	DRP8074	NY	13:17:36
M-01	CWE9610	NY	13:17:19
M-01	CNM4322	NY	13:17:06

Alarms			
M-00	AVJ3872	NY	13:16:08

Info Setup Menu

About LPR ☐ GPS ☐ COM ☐ Hazard

2008-04-10 13:18:36



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LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0 Alerts ☐ ☒

Add/Insert Vehicle Registration

Hot list last update
2008-06-25 07:19

Operations

Readers

Right **DKK8374** **?** **07:55:43**

Alarm **Last events**

Reads				Alarms	
Right	DKK8374	?	07:55:43		
Right	EJF6215	?	07:55:33		
Right	NSP0BA[0D]	?	07:55:28		
Right	EER7039	?	07:55:28		
Right	EJF5870	?	07:55:17		
Right	EJY1860	?	07:54:53		

About 2008-06-25 07:55:57

LPR ☐ **GPS** ☐ **COM** ☐ **Hazard**

Info
Setup
Menu



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Type License Plate
Number using MDT
keyboard or on-screen
keyboard

Choose License Plate State

Click on
INSERT

Up to 100
Characters of
additional
info

Mobile

Hot list results | Reports | Reports results | Alerts

Plate State

Note

Insert

Delete

1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	↑
Z	X	C	V	B	N	M	←	↓	→
Caps						#@...		Canc	

Info 2006-03-13 20:12:19

LPR ☐ GPS ☐

Delete local hot list

Close



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How To Insert A Plate Into Hotlist

1. Click the blue Operations button.
2. In the plate field type the license plate number. This must be a complete plate entry.
3. In the state field choose the correct state.
4. In the notes field, type up to 100 characters to describe the violation.
5. Click the Insert button.
6. Choose the corresponding alarm type.
7. Click OK to search previous reads for the entered plate.



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Enhancement
Buttons Allow
User to Zoom
On Plate or
Brighten
Image

Up to 100
characters
of alarm
description

LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0

Alerts [X]

Management Diagnostics

Hot list last update
2008-06-25 07:19

Operations

Readers

Right DR50JD ? 07:59:32

Alarm Last events

DR50JD OH

Stolen Vehicle

Reject

Info

Setup

Menu

About LPR GPS

2008-06-25 07:59:41

ALL ALARMS REQUIRE REAL TIME
CONFIRMATION WITH NCIC

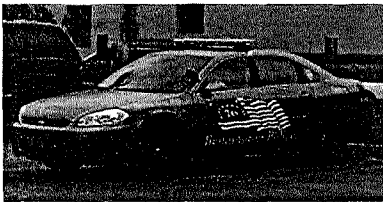
***CONFIRM STATE IN ALARM
MATCHES STATE OF
LICENSE PLATE THAT ALARMED***

!



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Patrol Deployment



Vehicle & Traffic Enforcement

Stolen Vehicles

Stolen Vehicle Registrations

WANTED SUBJECTS

Suspended/Revoked Registrations

Parking Violations/Scoff Law

Local Criminal Court Warrants

DUI & Traffic Vehicle Check Points



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Investigations



Organized Crime



Gang Activity



Drugs



Guns



Burglary/Robbery Investigations

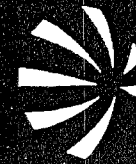


Crime Scene Investigations



Warrants

Intelligence Gathering



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Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0 Alerts Hazard

Hot list Hot list results Reports Report results

Start 12 03 2006 18
Day Month Year Hour
End 12 03 2006 19
Plate State ? - ALL COUNTRIES

Alarms
Rejected Alarms
Reads

Search

1	2	3	4	5	6	January	February	2005
7	8	9	10	11	12	March	April	2006
13	14	15	16	17	18	May	June	
19	20	21	22	23	24	July	August	
25	26	27	28	29	30	September	October	
31						November	December	

General report
Shift report
Close

Info 2006-03-12 18:42:58 LPR ☐ GPS ☐

The Reports tab is always defaulted to alarms in the last hour of time. Any parameter can be adjusted



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Full detail of all tags scanned including an image and GPS coordinates is available to the system user at any time during or after a shift.

900

Alerts ☐ ☒

ding Alerts 0

Results Cartography

Found matches : 110

Date	Plate	State	Reader	Lat	Long
2008-08-12 14:25:18	EJK9346	?	Left	39.64847	-84.157225
2008-08-12 14:25:17	ELL6072	?	Left	39.648470	-84.157225
2008-08-12 14:25:16	EF92XJ	?	Left	39.648685	-84.157210
2008-08-12 14:25:16	KJ111MF0D1X	?	Left	39.648685	-84.157210
2008-08-12 14:25:15	ELC6805	?	Left	39.648685	-84.157210
2008-08-12 14:25:14	0D1G49	?	Left	39.648957	-84.157197
2008-08-12 14:25:13	1EG3765	?	Left	39.648957	-84.157197
2008-08-12 14:25:13	BF03HY	?	Left	39.648957	-84.157197
2008-08-12 14:25:05	BF78CM	?	Right	39.649210	-84.157188
2008-08-12 14:24:36	AKX4893	?	Left	39.651622	-84.157100

Class

Source

Note

Export Close

About

2008-08-12 14:45:40

LPR ☐ GPS ☐ Hazard



Alerts

Vehicle ID: 1

Pending Alerts

0

Hot list

Hot list results

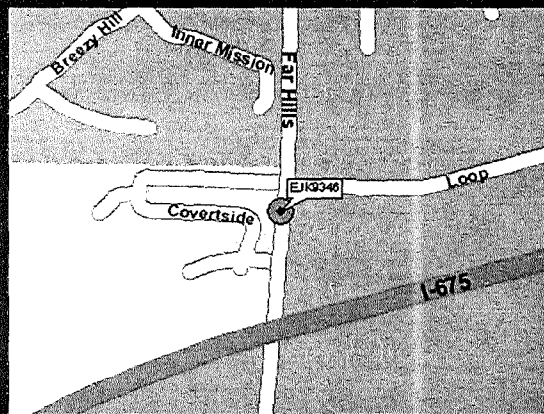
Reports

Report results

Cartography

Found matches : 110

Date	Plate	State	Reader	Lat	Long
2008-08-12 14:25:18	EJK9346	?	Left	39.648470	-84.157225
2008-08-12 14:25:17	ELL6072	?	Left	39.648470	-84.157225
2008-08-12 14:25:16	EF92XJ	?	Left	39.648685	-84.157210
2008-08-12 14:25:16	K[11]MF[0D]X	?	Left	39.648685	-84.157210
2008-08-12 14:25:15	ELC6805	?	Left	39.648685	-84.157210
2008-08-12 14:25:14	[0D]G49	?	Left	39.648957	-84.157197
2008-08-12 14:25:13	1EG3765	?	Left	39.648957	-84.157197
2008-08-12 14:25:13	BF03HY	?	Left	39.648957	-84.157197
2008-08-12 14:25:05	BF78CM	?	Right	39.649210	-84.157188
2008-08-12 14:24:36	AKX4893	?	Left	39.651622	-84.157100



Class

Source

Note

Export

Close

About

2008-08-12 14:46:38

LPR

GPS

Hazard



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LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0 Alerts ☐ ☒

Hot list Hot list results Reports Report results Cartography

Crime Scene Location

Reads: 110 Period: 2008-08-12 14:20:04 - 2008-08-12 14:31:24 Point(s) out of map: 21

About 2008-08-12 14:47:32

LPR ☐ GPS ☐

Hazard ☐



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**First started as a device for detection of
stolen vehicles and enforcement of
suspended/revoked registrations.**

Developed rapidly into a tool to assist in surveillance

**A device to aid in investigations and
apprehension of wanted persons**



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Peter “Pete” Kontos

Vice President of Law Enforcement Liaison
Special Advisor to the President

Contact: (845) 490-4327

**Technical Support: 1-866-9MPH 900
(674)**

1-866-967-4900

Thank You