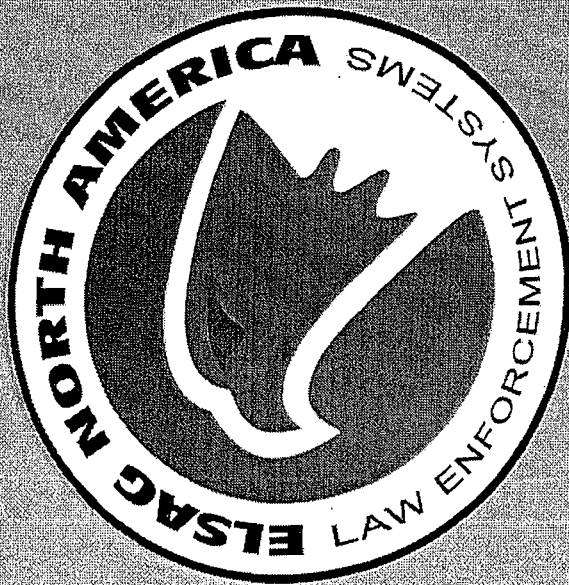




What is LPR?

License Plate Recognition

- Technology has been around over 12 years
- Optical Character Recognition (OCR) is used to “read” plate
- Software (protocols) used to enhance plate reads and accuracy

What is being checked

- Reads are compared against “hotlist” loaded on local computer
 - Hotlist can be created from various databases
 - Reads can be stored in database for later analysis (intelligence development)
 - Current downloads are from NCIC and Maryland MVA
 - NCIC – stolen tags/vehicles, Terrorist Watch List, Violent Gang Members, Missing Persons
 - NCIC - Registered Sex Offenders (Not All)
 - MVA – Suspended/Revoked owners, VEIP suspensions, MSP Pick Up Orders, Insurance Violations
 - MVA Warrant Flagging Program

Policy

- You must follow **YOUR** departments policy
- Your agency must have a training program and users must be trained prior to using an LPR
- All hits must be verified before taking enforcement action
- As of July 1, 2011, LPR stops are exempt from reporting for the racial profiling reporting law (Use Arrest Code "S")

ELSAG's Mobile Plate Hunter

- ◆ The System allow troopers to maintain a normal patrol stance while capturing up to 5-7,000 reads in an 8 hour shift.
- ◆ The System reads across 3 lanes of traffic and captures vehicles in excess of 120MPH 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.

Split Camera Focal Points and Capabilities

Left Camera

Reads vehicles passing
on your left

Left scans plates from 10-30
feet away

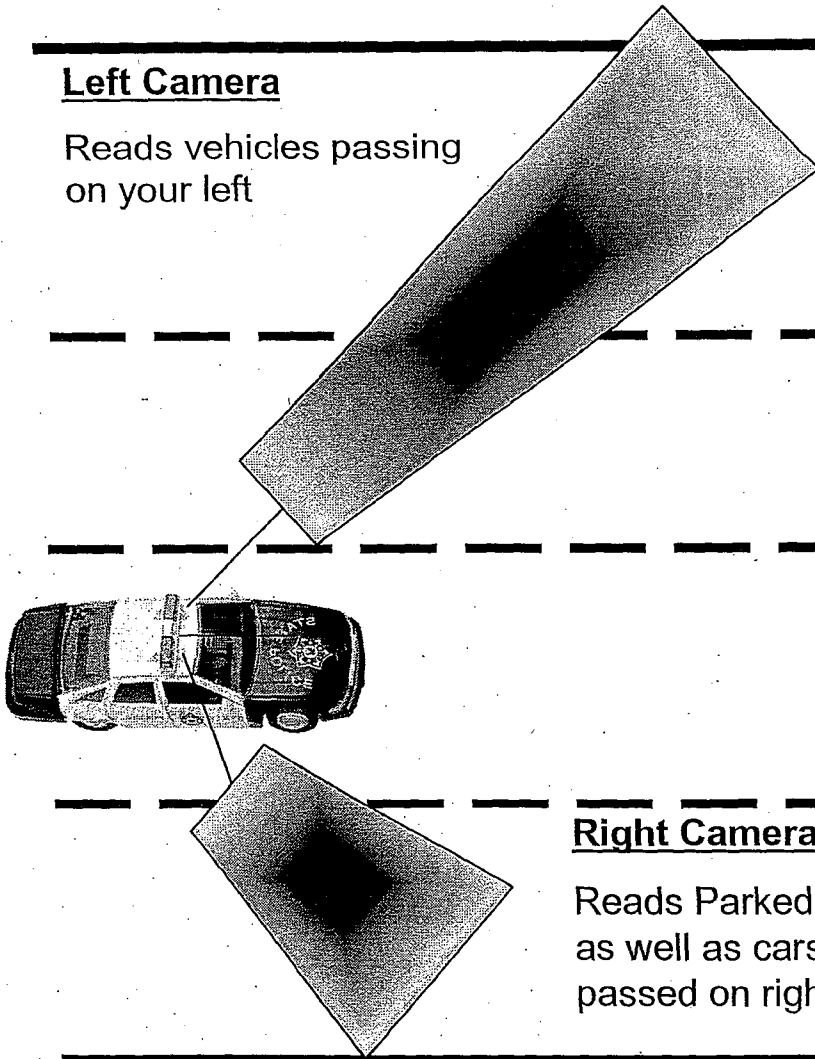
Processes both moving and
parked vehicles, while the
police vehicle is moving or
parked.

Images are transmitted to the
processing unit at a rate of 25 frames
per second which is then cross-
checked versus a database of up to 4
million lines **Vehicles found in the
database will alarm in milliseconds.**

Right Camera

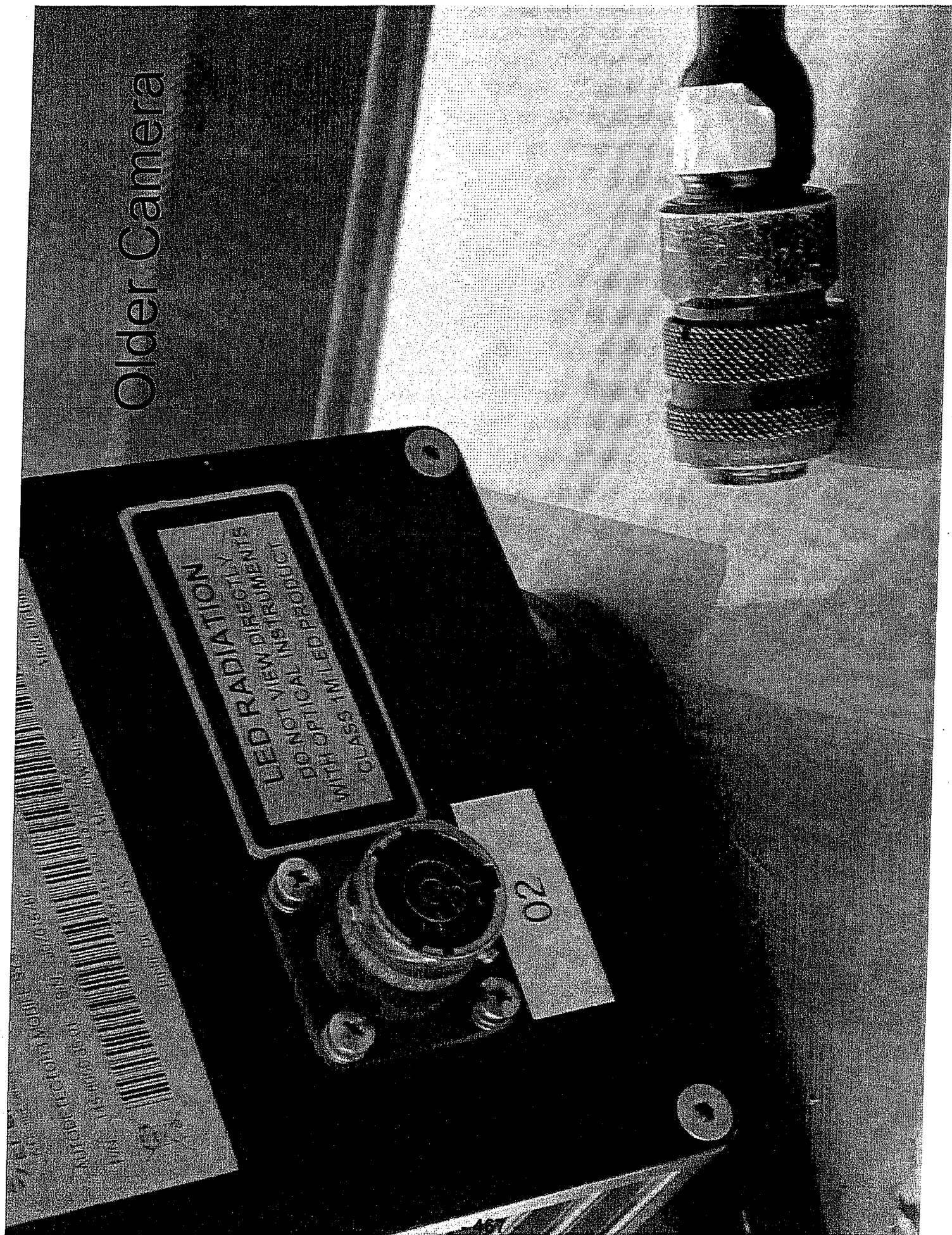
Reads Parked vehicles
as well as cars that are
passed on right.

Right scans plates from 8-20
feet away



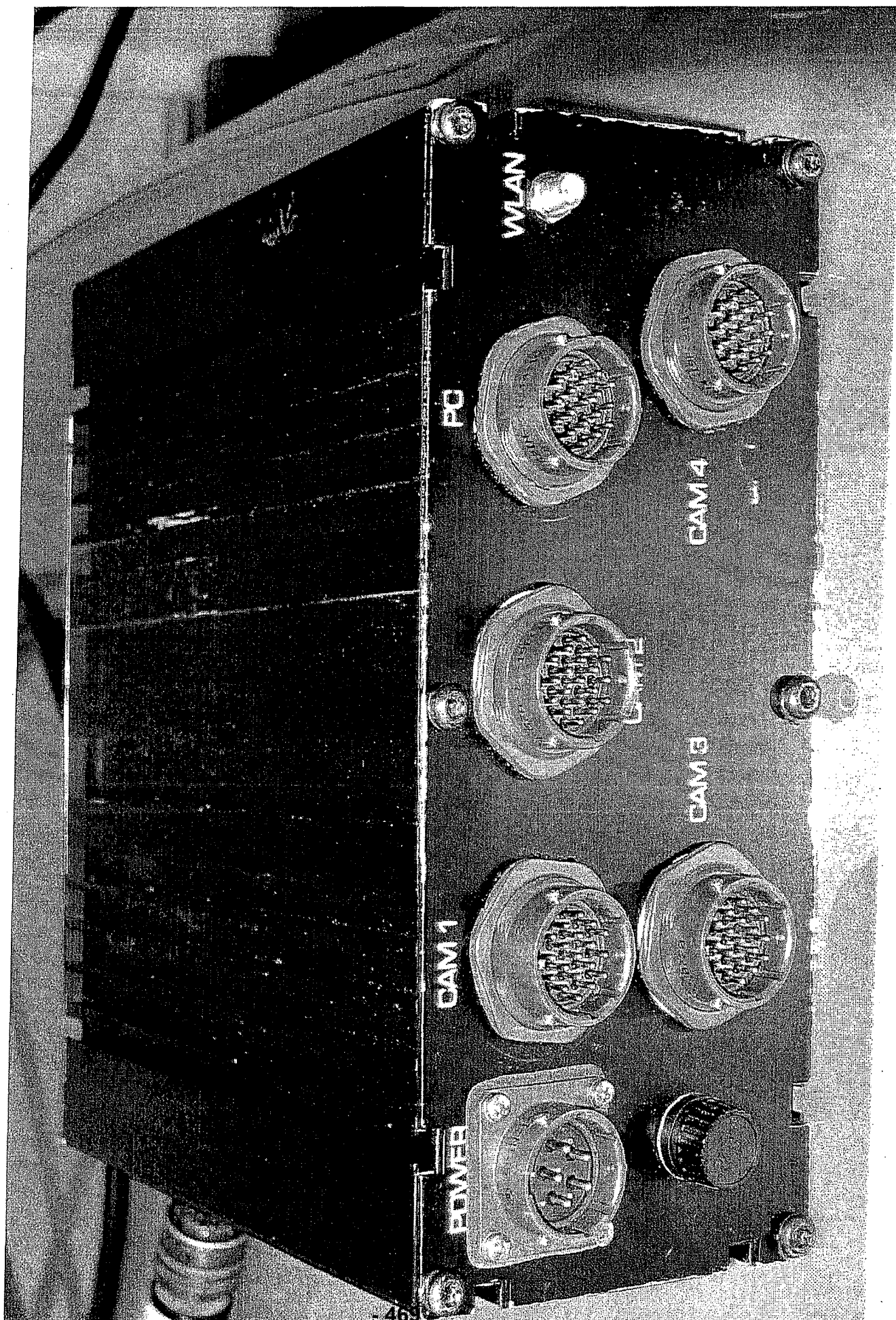
- **NEVER FORCE THE
CONNECTORS**
- **NEVER CONNECT OR
DISCONNECT
CAMERAS WITH
POWER ON**

Older Camera

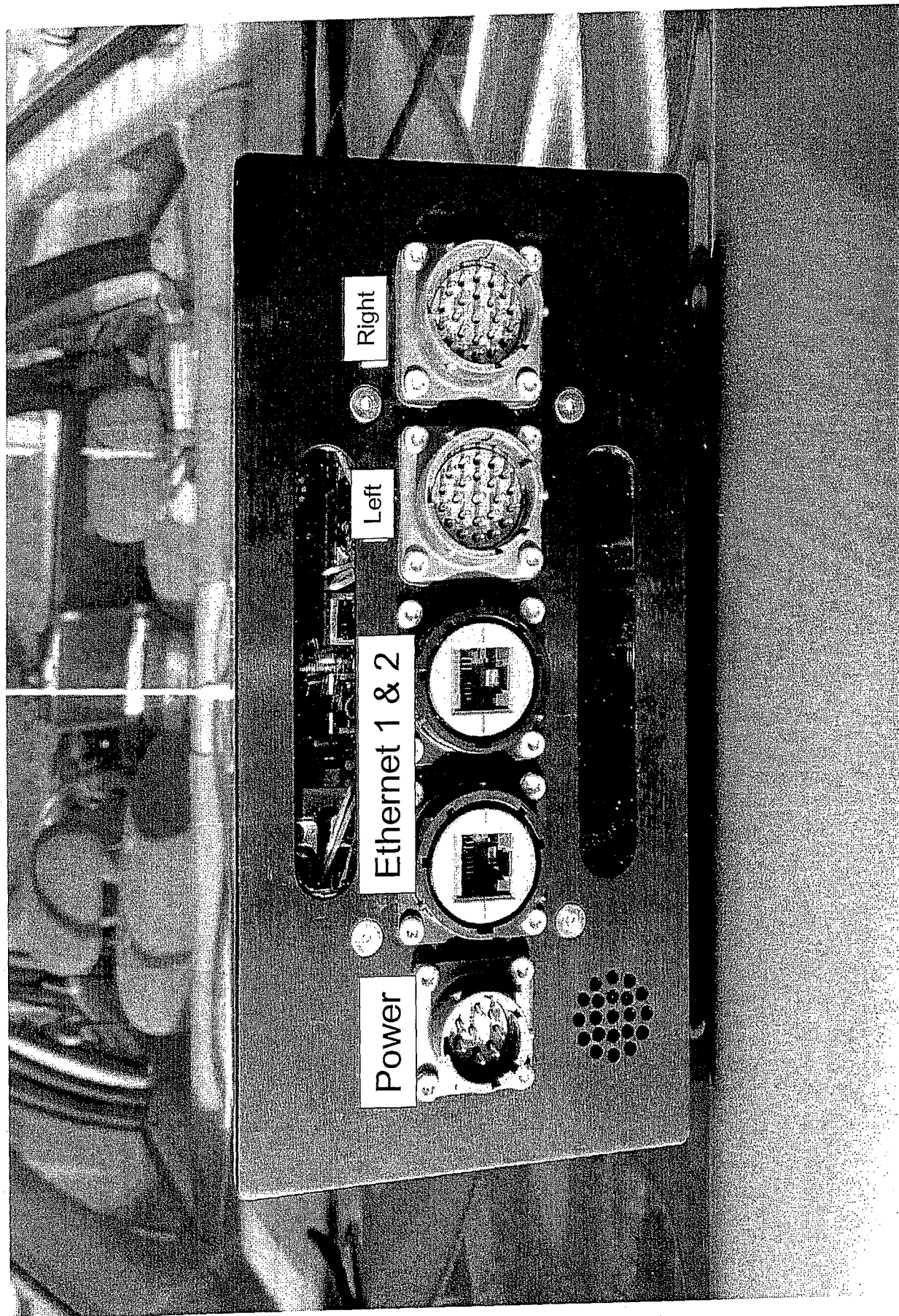


New Camera,
Same Style Connector

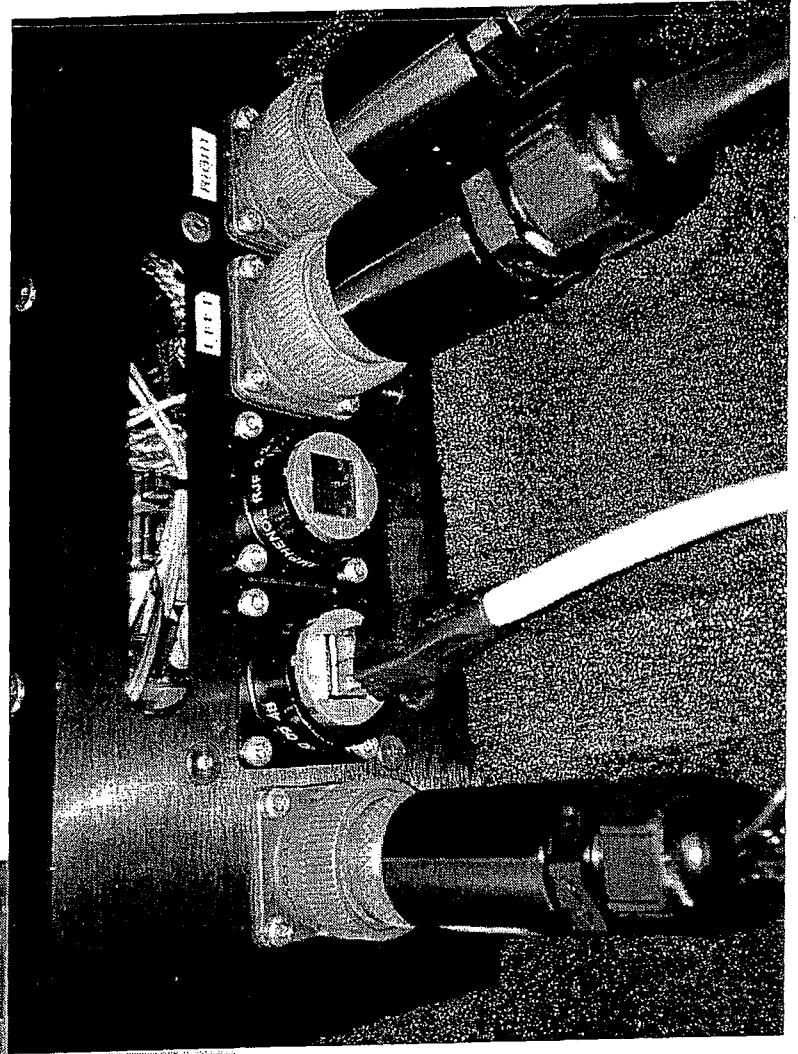
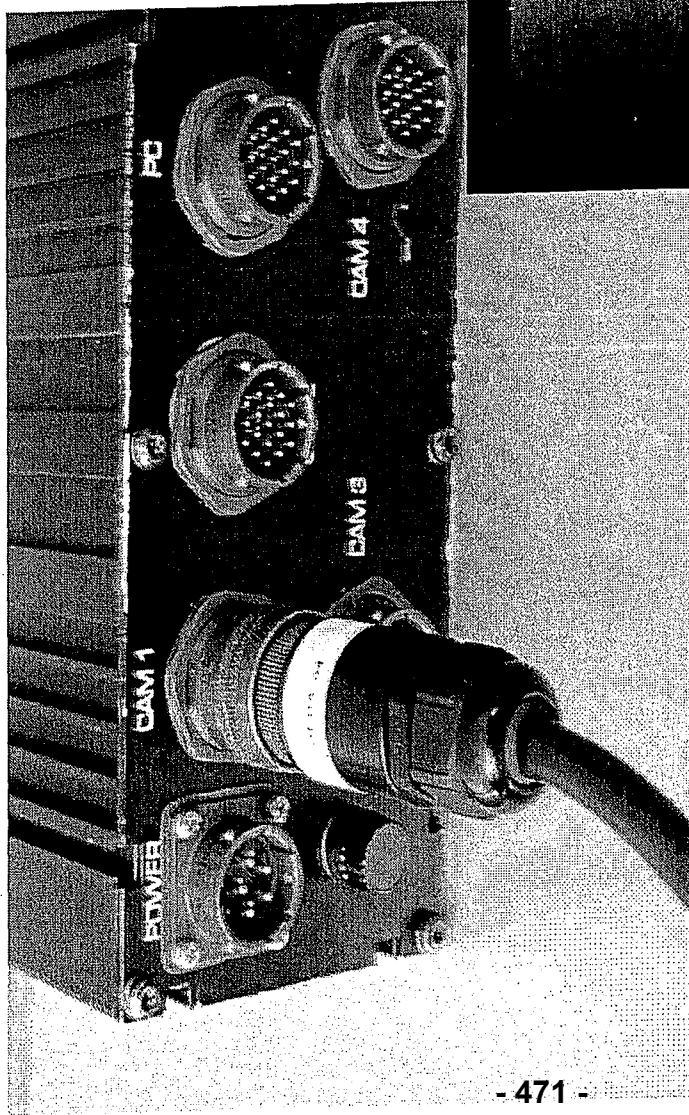
OLD HUB



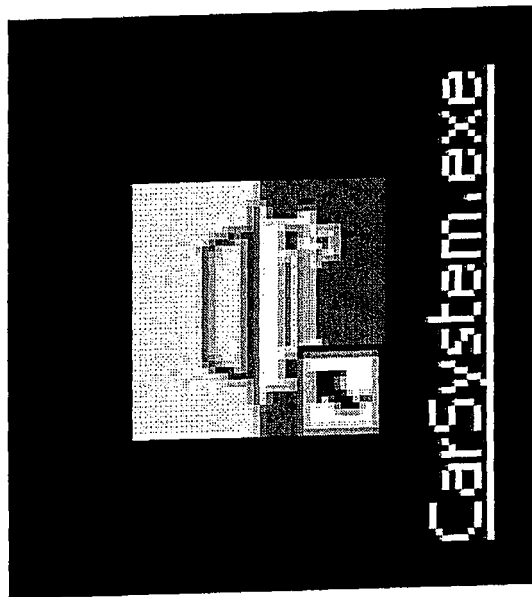
NEW HUB



Camera Cords



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



Menu

Vehicle: Cioka

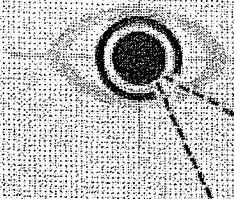
Pending Alerts

0

Alerts

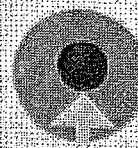


Click Mobile Plate Hunter 900 to start LPR interface



LPR
Mobile Plate Hunter
900

Click GPS Position to confirm GPS signal



GPS
Position

Make sure that all 4 lights are green.

 **ELSAG**NorthAmerica
A Finmeccanica Company



17

Slide 13 of 30

Default Design

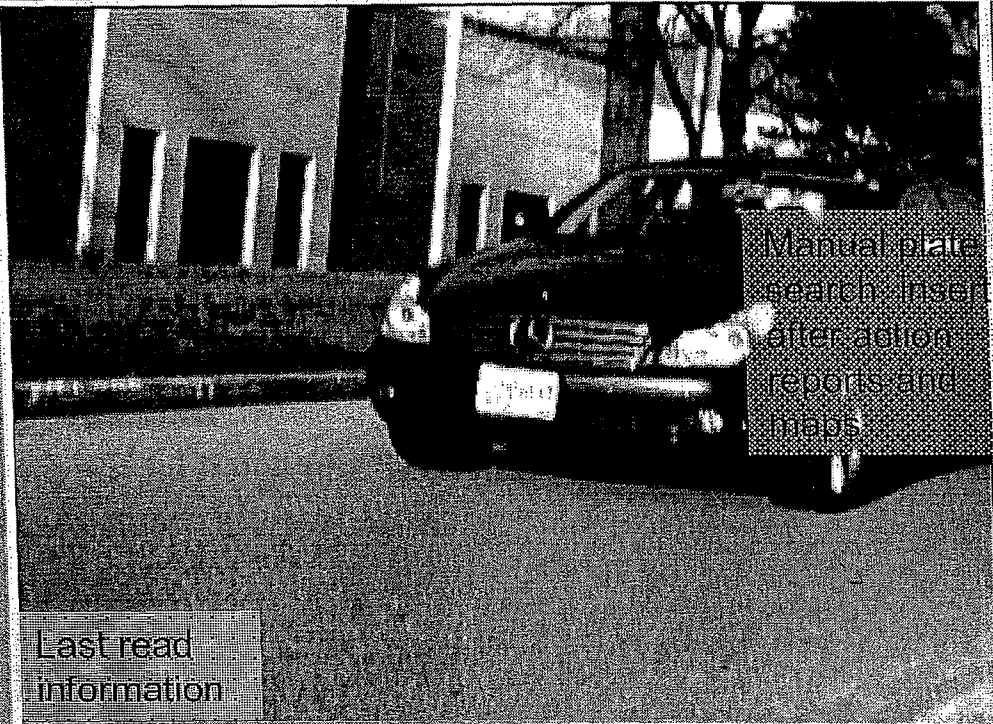
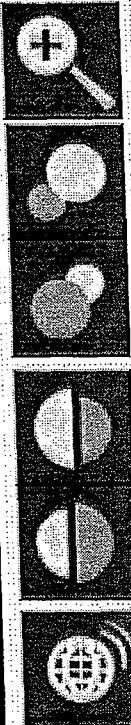
LPR - Mobile Plate Hunter 900

Pending Alerts

"Live" menu
for checking
the Camera

Alerts

Vehicle: Cioka



Last read
information

Management

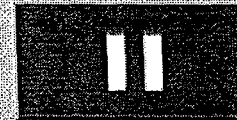
Diagnostic

Hot list last update

1/16/2012 07:48

Operations

Readers



3A5837

Left

3AJ5837

?

08:36:02

Alarm

Last events

Reads

Left	3AJ5837	?	08:36:02
Left	4DVJ64	?	08:35:45
Left	6AD1852	?	08:35:42
Left	4AK4848	?	08:35:33
Left	4AK4848	?	08:35:33

Alarms

Left	4MD4633	MD	21:18:55
	7AJ9590	MD	21:11:22
	5AD6987	MD	19:50:11
	7FMA79	MD	19:49:05
	3AA0593	MD	19:45:56

Last 6
reads

Info

Setup

Menu

ELSAG North America
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LPR

DB

GPS

COM

17

Slide 14 of 30 "Default Design"

66%

Main Car System Screen

LPR - Mobile Plate Hunter 900

Vehicle: Cioka

Pending Alerts **0**

Alerts [Close]

Management Diagnostic

Hot list last update
1/16/2012 07:48

Operations

Readers [Pause]

Magnified version of last plate read
3AJ5837

Left **3AJ5837** ? 08:36:02

Alarm Last events

Reads				Alarms			
Left	3AJ5837	?	08:36:02	Left	4MD4633	MD	21:18:55
Left	4DVJ64	?	08:35:45	Right	7AJ9590	MD	21:11:22
Left	6AD1852	?	08:35:42	Right	5AD6987	MD	19:50:11
Left	4AK4848	?	08:35:33	Left	7FMA79	MD	19:49:05
Left	4AK4848	?	08:35:33	Left	3AA0593	MD	19:45:56

Info Setup Menu

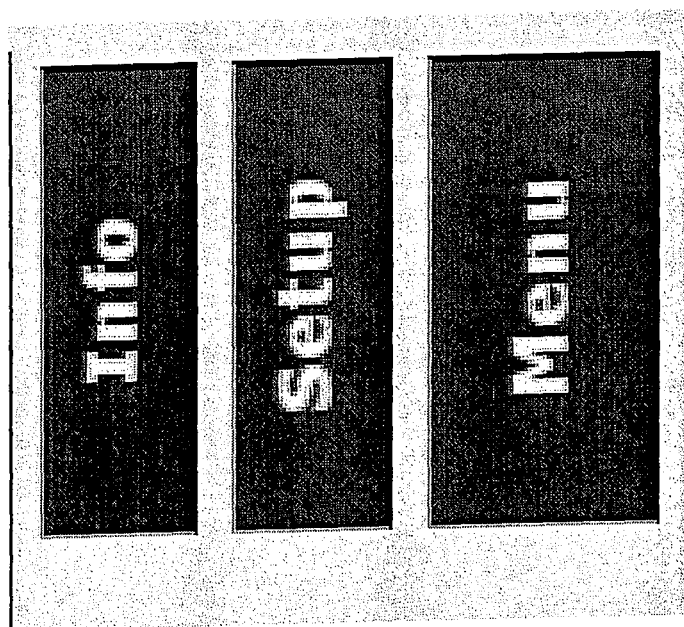
Setup button to turn off transit beep

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LPR DB GPS COM

Slide 14 of 30 "Default Design" 66%

To turn off the transit
beep use the Setup
button



Car System Setup Screen

Management Diagno

Setup

Reader view enable

RIGHT ☒ LEFT ☒

R-00 ☒ R-01 ☒ R-02 ☒ R-03 ☒

Alarm class enable

 Stolen vehicle ☒	 Stolen out state ☒
 Wanted person ☒	 Violent gang ☒
 Stolen plate ☒	 Sexual offender ☒
 Suspended revoked ☒	 Other ☒
 Scofflaw ☒	 Tax scofflaw ☒

White list

☐ 

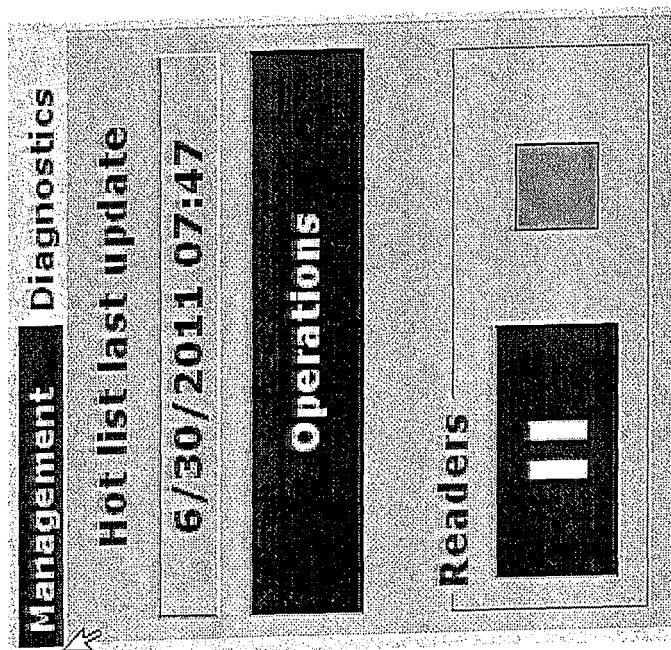
it beep ☐

Advanced

Cancel

Ok

0002230 1010107 1010107 1010107 1010107



The Operations button opens up the screen to run reports, add tags or search manually.

During the shift, officers may input new plates or manually search plates

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

Choose License Plate State

Up to 100 Characters of additional info

The screenshot shows a mobile application interface for license plate management. At the top, there are tabs for 'Hot list results', 'Reports', and 'Report results'. Below these, there are buttons for 'Alerts' and 'Hazard'. The main input area includes a 'Plate' field, a 'State' dropdown menu currently set to '? - ALL COUNTRIES', and a 'Note' field. To the right of these fields are buttons for 'Search', 'Insert', and 'Delete'. Below the input fields is a large on-screen keyboard with rows of letters and numbers. To the right of the keyboard is a 'Delete local hot list' button. At the bottom of the keyboard are 'Caps', '#@...', and 'Canc' buttons. The bottom of the screen features an 'Info' button, a timestamp '2006-03-13 20:12:19', checkboxes for 'LPR' and 'GPS', and a 'Close' button with a close icon.

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 ☐ Close

LPR

Mobile Plate Hunter 900

Alerts



Vehicle: MSPLPR002

Pending Alerts

0

Hot list

Hot list results

Reports

Report results

Cartography

Start

03

04

2010

13

:30

● Alarms

Search

Day

Month

Year

Hour

● Rejected alarms

End

03

04

2010

13

:45

● Reads

Plate

State ? - ALL STATES



Day

Month

Year

1

2

3

4

5

6

January

February

2009

7

8

9

10

11

12

March

April

2010

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



LPR



GPS



COM



Hazard

LPR Mobile Plate Hunter 900

Vehicle: MSPLPR002

Pending Alerts

0

Alerts

Date	Reads	Alarms	Rejected alarms
2010-04-03	5264	72	24
2010-04-02	613	7	3
2010-04-01	320	3	3
2010-03-31	706	12	4
2010-03-30	199	3	1



Export

Back



LPR



GPS



COM



Hazard

LPR Mobile Plate Hunter 900

Alerts

Vehicle: MSPLPR002

Pending Alerts

0

2010-04-03

Hour	Reads	Alarms	Rejected alarms
00 - 01	0	0	0
01 - 02	0	0	0
02 - 03	0	0	0
03 - 04	0	0	0
04 - 05	0	0	0
05 - 06	0	0	0
06 - 07	0	0	0
07 - 08	0	0	0
08 - 09	72	0	1
09 - 10	237	3	3
10 - 11	1766	19	10
11 - 12	2002	29	9
12 - 13	956	18	1
13 - 14	262	4	0
14 - 15	0	0	0
15 - 16	0	0	0
16 - 17	0	0	0
17 - 18	0	0	0
18 - 19	0	0	0
19 - 20	0	0	0
20 - 21	0	0	0
21 - 22	0	0	0
22 - 23	0	0	0
23 - 00	0	0	0

Export

Back



LPR



GPS



COM



Hazard

Shift Reporting Results

LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0

Alerts ☐ ☒

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	K11MF10DIX	?	Left	39.648685	-84.157210
2008-08-12 14:25:15	ELC6805	?	Left	39.648685	-84.157210
2008-08-12 14:25:14	10D1G49	?	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

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.

Shift Reporting Results

Click Cartography Tab to display ALL reads in report

LPR

Mobile Plate Hunter 9

Vehicle ID: 1

Pending Alerts 0

Alerts

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
		?	Left	39.648685	-84.157210
		?	Left	39.648685	-84.157210
		?	Left	39.648957	-84.157197
		?	Left	39.648957	-84.157197
		?	Left	39.648957	-84.157197
08-12 14:25:05	BF78CM	?	Right	39.649210	-84.157188
08-12 14:24:36	AKX4893	?	Left	39.651622	-84.157100

Click plate image to display corresponding map location

Class

Source

Note

Export

Close

About

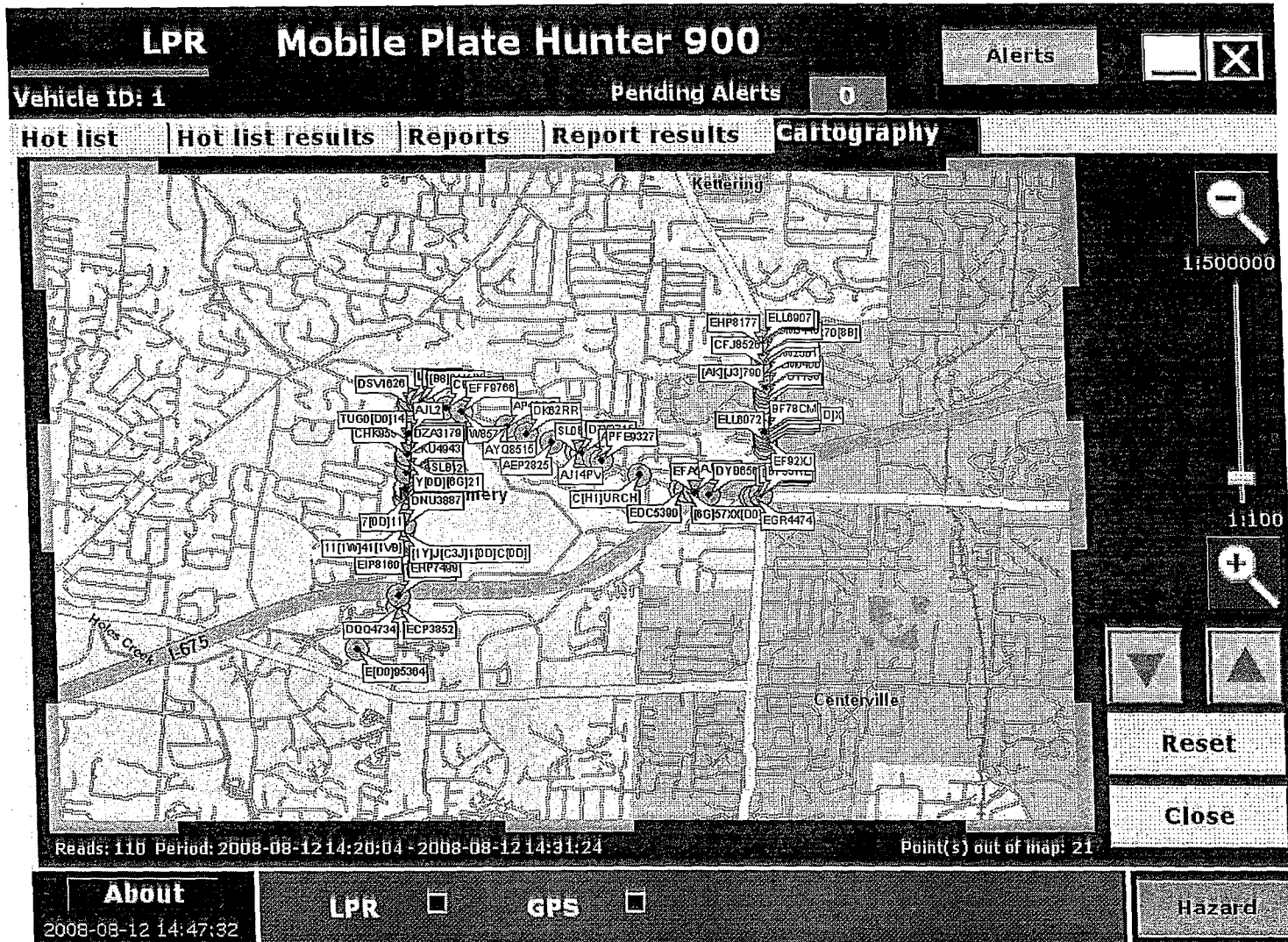
2008-08-12 14:46:38

LPR

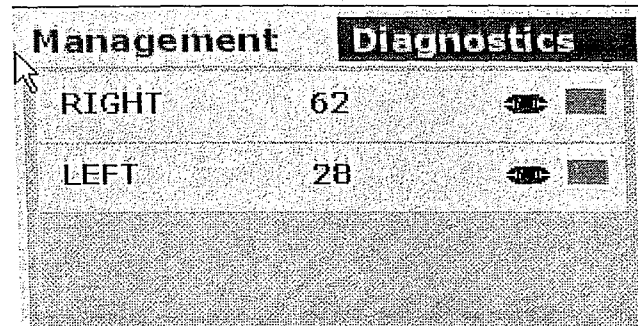
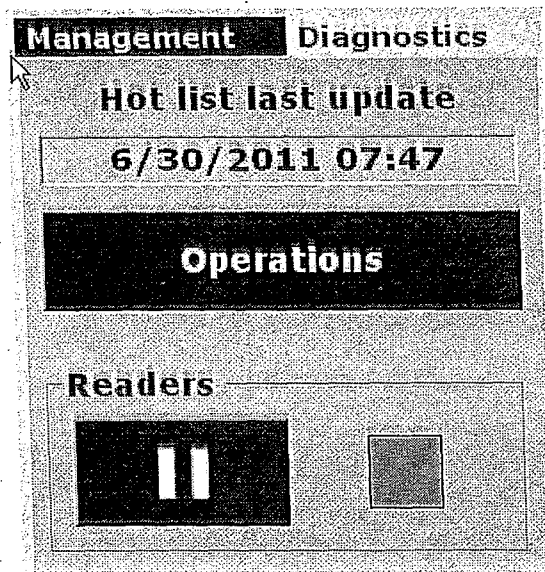
GPS

Hazard

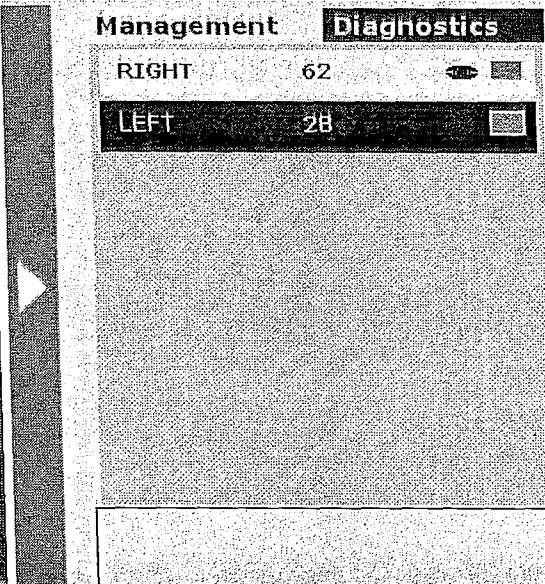
Cartography



The Diagnostics tab allows you to turn on a video stream to check the cameras



Clicking camera row starts live mode. Clicking Management tab automatically stops live mode



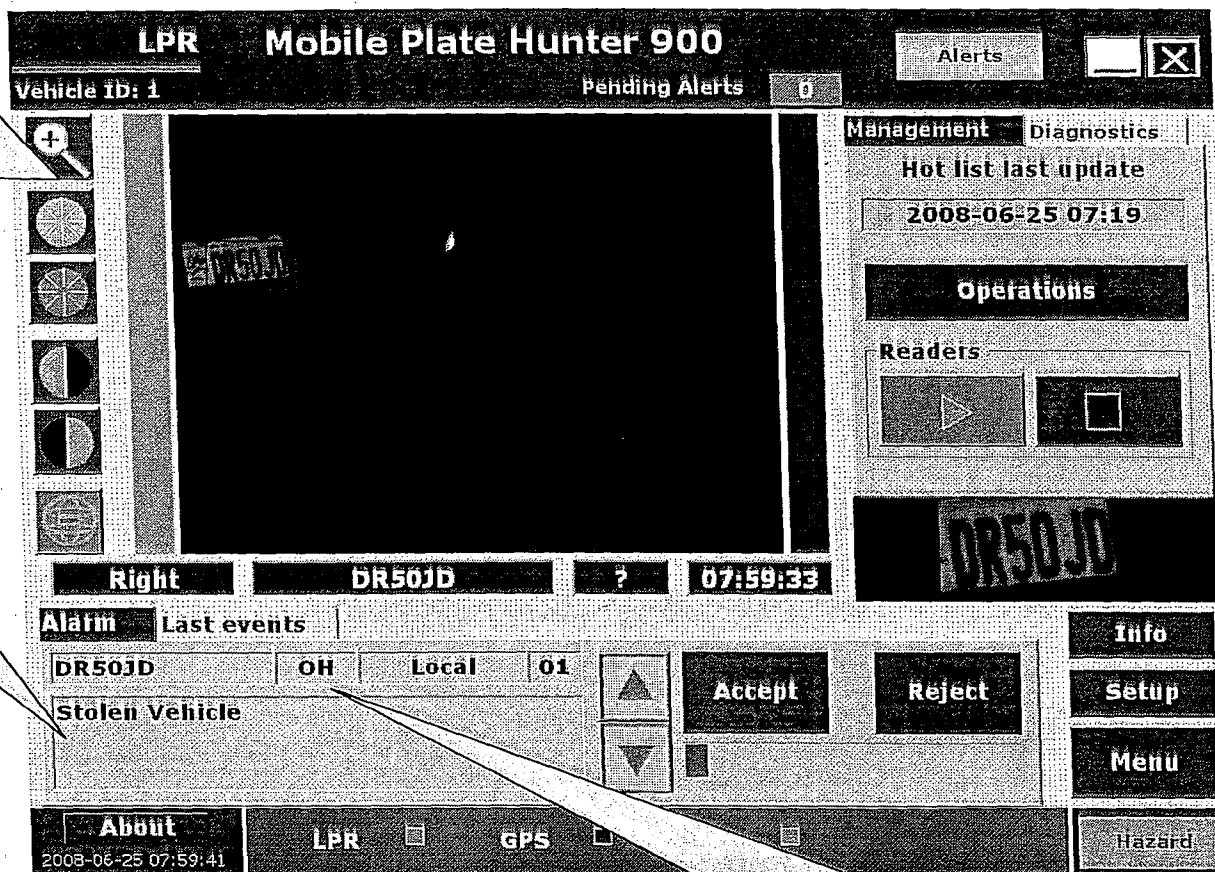
The system will not scan tags while in live mode

The MPH-900 works behind the scenes

Until the alarm sounds!

Enhancement Buttons Allow User to Zoom On Plate or Brighten Image

Up to 100 characters of alarm description



ALL ALARMS REQUIRE REAL TIME
CONFIRMATION WITH NCIC

Confirm State in Alarm matches state of
License plate that alarmed.

Stolen vehicle

External

#1 STOLEN VEHICLE! -
V464108552PA0260200201101041626
MD2010PC2002FORDMUS2DYEL

Scofflaw

External

#5 VEIP 2003 GMC RN0981
ORGANIZATIONAL PLATE

Suspended revoked

External

#4 SUSPENDED/REVOKED LICENSE
J000766307896 2005 CHRY

troubleshooting

- LPR status indicator: red, yellow, green, grey
- Power: at plug / at trunk box
- Cables: camera cables / Ethernet cable
- GPS status indicator: red, yellow, green, grey
- Reboot computer and trunk box
- Changing laptop requires re-installation of software
- Poor reads: check camera lens and camera aim

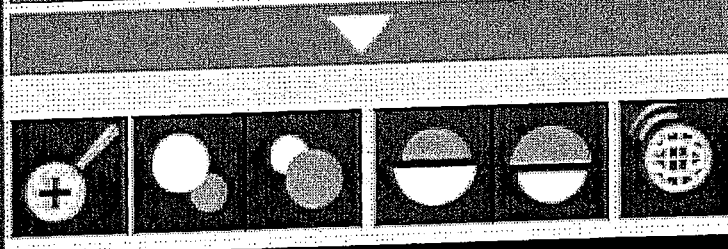
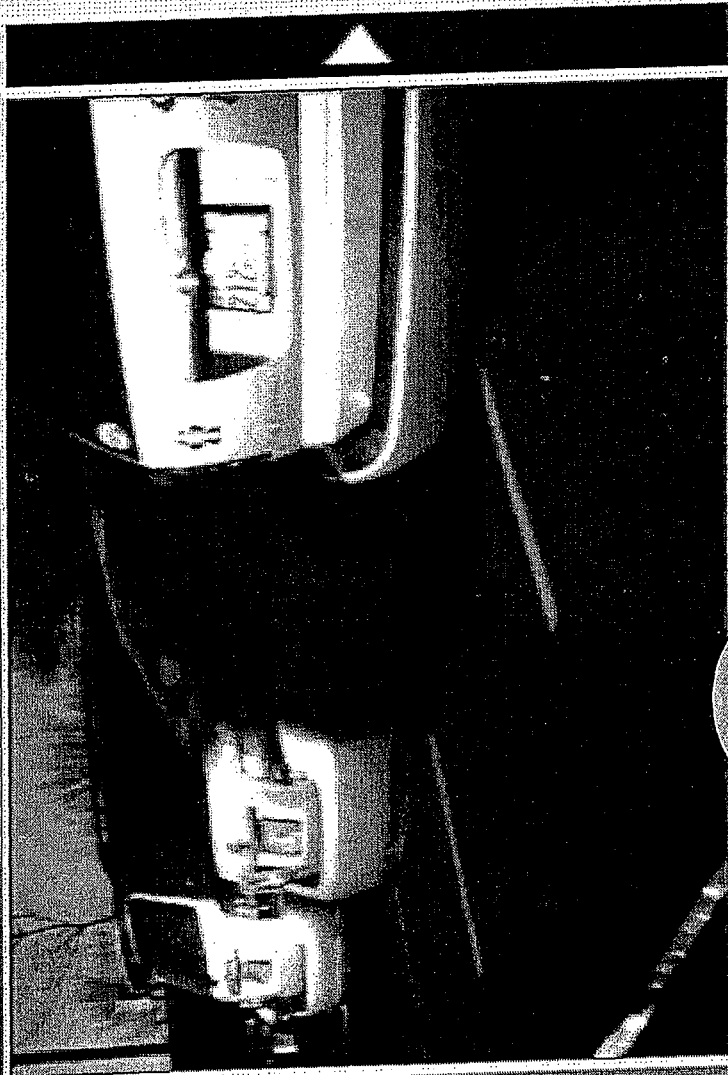
Accept or Reject

LPR - Mobile Plate Hunter 900

Alerts ☐ ☒

Pending Alerts 0

Vehicle: Citoka



09:09:37

?

1212

Right

Last events

1212

MD

External

05

#5 VEIP 2008 CHEVRE ORGANIZATIONAL PLATE



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1 files selected (3.00 MB)

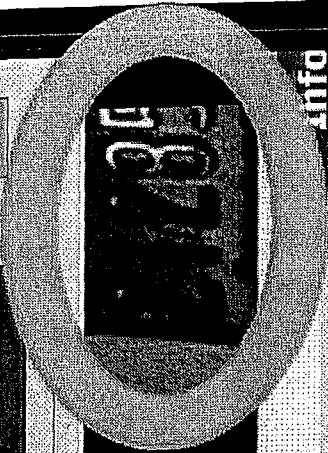
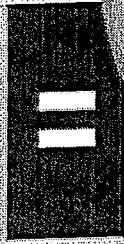
Management Diagnostic

Hot list last update

1/16/2012 07:48

Operations

Readers



Reject

Accept

COM

GPS

DB

LPR

Zoom: 100%

LPR - Mobile Plate Hunter 900

Pending Alerts 0

Vehicle: Ciocka



Left

6EVH50

?

09:05:59

Last events

6EVH50

MD

External

04

#4 SUSPENDED/REVOKED LICENSE
H630115762027 2006 CHRY

Alerts



Management

Diagnostic

Hot list last update

1/16/2012 07:48

Operations

Readers



6EVH50

Last events

6EVH50

MD

External

04

#4 SUSPENDED/REVOKED LICENSE
H630115762027 2006 CHRY

Accept

Reject

GPS

DB

LPR

9:05 AM

1/16/2012

Cpl. Justin Cioka, MSP LPR Program Manager/
MCAC LPR Technical Coordinator
443-216-9116 (Office)
jcioka@mdsp.org

Colleen Richarts
MCAC LPR Program Manager
Desk 443-436-7710 Cell 301-674-4960

Agency	Mobile	Fixed	Contact	Email	Alternate	Alt Email
BJAG-2008-1002						
Allegany Co. Bureau of Police		1	Lt. Rodney Bell	rbell@allconet.org		
Anne Arundel Co. P.D.		2	Dave. Ennis	dennis@aacounty.org		
Baltimore Co. PD		7	Joe Burris	jbarris@baltimorecountymd.gov		
Baltimore PD		10	Stephen Derkosh	stephen.derkosh@baltimorepolice.org		
Bel Air PD		1	Chief Leo Matrangola	lmatrangola@belairmd.org	Sgt. Rick Peschek	rpeschek@belairmd.org
Bladensburg PD		1	Sgt. James Flynn	jflynn@bladensburg.net		
Bowie PD		1	Jesse Buggs	jbuggs@cityofbowie.org		
Capitol Heights PD		1	Major James Kito	kjames@capitolheightsmd.com		
Carroll Co. SO		1	Danielle Schubert	dschubert@ccg.carr.org		
Charles Co. SO		1	Michael McGuigan	mcguiganm@ccso.us		
Cheverly PD		1	Chief Harry Robshaw	hrobshaw@cheverlypolice.org		policechief@cheverly-md.gov
Chevy Chase Village PD		1	Jacqueline Parker	jacqueline.parker@montgomerycountymd.gov		
Cumberland PD		1	Lt. Steve Schellhaus	sschellhaus@allconet.org		
Denton PD		1	Chief Rodney Cox	rcox@dentonmdpolice.com		
Dorchester Co. SO		1	Chief James Phillips Jr	jphillips@docogonet.com		
Easton PD		1	Lt. Mike Hrobar	mhrobar@town-eastonmd.com		
Edmonston PD		1	Chief Steve Walker	swalker@edmonstonmd.gov		
Elkton PD		1	Lt. Carolyn Allen	callen@elktonpd.org		
Fairmount Heights PD		1	Mayor Nathaniel Mines	mayormines@verizon.net		
Federalsburg PD		1	George Mayer	gmayer@federalsburg.org		
Glenarden PD		1	Chief Phil O'Donnell	podonnell@cityofglenarden.org		
Greenbelt PD		1	Chief Jim Craze	jcraze@greenbeltmd.gov		
Hagerstown PD		1	Chief Art Smith	asmith@hagerstownpd.org		
Howard Co. PD		2	David Patterson	dpatterson@howardcountymd.gov		
Hyattsville PD		1	Chief Doug Holland	dholland@hyattsville.org		
Montgomery Co. PD		2	Lt. James Humphries	james.humphries@montgomerycountymd.gov		
Mt. Ranier PD		1	Chief Mike Scott	mscott@mountrainiermd.org		
New Carrollton PD		1	Lt. William Everts	weverts@newcarrolltonpd.org		
Ocean City PD		1	Kevin Kirstein	kkirstein@oceancitymd.gov		
Prince George's Co. PD		10	Peter Eliadis	pmeliadis@co.pg.md.us		
Riverdale Park PD		1	Chief Patrick Timmons	ptimmons@reverdaleparkmd.gov		
Seat Pleasant PD		1	Chief Samuel Prue	policechief@seatpleasantmd.gov		
Talbot Co. SO		1	Steven Gadow	sgadow@talbotcountymd.gov		
Washington Co. SO		2	Cody Miller	comiller@washco-md.net		
		62				

CSAF-2011-1005	Mobile	Fixed			
DGS Police (Md Cap PD)	1		Chief Phil Palmere	phil.palmere@dgs.state.md.us	
MTA Police	2		Lt. Christopher Holland	cholland@mta.maryland.gov	
Maryland State Police	0	9	Captain Linda Stascavage	Linda.Stascavage@msp.maryland.gov	
MDTA	1	6	Chief Brown	mbrown@mdta.state.md.us	
Towson Univ. PD	1		Charles Herring	cherring@towson.edu	Bernard Gerst
Univ of Maryland	0	2	Stephen Kowa	skowa@umpd.umd.edu	bgerst@towson.edu
Univ Park PD	1		Chief Michael Wynnyk	upchief@upmd.org	
Wicomico Co. SO	1		Sgt. Richard Wiersberg	rwiersberg@wicomiconcounty.org	
	7	17			

Agency	MSP Number	Description	Serial Number	Date	Count	Total	Matched Contacted Check
Allegheny Co	90051065	Elsag ADM Split Box	PB21783	6/23/2011	1	1	check
	90051064	16 MM Split Camera	1601601	6/23/2011			
	90051063	25 MM Split Camera	2501762	6/23/2011			
Anne Arundel CO	90051048	16 MM Split Camera	1601594	6/22/2011			
	90051049	25 MM Split Camera	2501495	6/22/2011			
	90051050	Elsag ADM Split Box	PB21721	6/22/2011	1		
	90051051	25 MM Split Camera	2501489	6/22/2011			
	90051052	16 MM Split Camera	1601579	6/22/2011			
Baltimore City	90051053	Elsag ADM Split Box	PB21740	6/22/2011	1	2	
	90050934	Elsag ADM Split Box	PB21708	1/23/2012	1		check
Baltimore City	90050932	16 MM Split Camera	1601402	1/23/2012	1		check
	90050933	25 MM Split Camera	2501508	1/23/2012	1		check
Baltimore City	90050946	Elsag ADM Split Box	PB21668	1/23/2012	1		check
	90050945	16 MM Split Camera	1601439	1/23/2012	1		check
Baltimore City	90050944	25 MM Split Camera	2401479	1/23/2012	1		check
	90050937	Elsag ADM Split Box	PB21701	1/23/2012	1		check
Baltimore City	90050935	16 MM Split Camera	1601433	1/23/2012	1		check
	90050936	25 MM Split Camera	2501458	1/23/2012	1		check
Baltimore City	90050949	Elsag ADM Split Box	PB21665	1/23/2012	1		check
	90050948	16 MM Split Camera	1601550	1/23/2012	1		check
Baltimore City	90050947	25 MM Split Camera	2501488	1/23/2012	1		check
	90050962	Elsag ADM Split Box	PB21670	1/23/2012	1		check
Baltimore City	90050951	16 MM Split Camera	1601555	1/23/2012	1		check
	90050950	25 MM Split Camera	2501500	1/23/2012	1		check
Baltimore City	90051911	Elsag ADM Split Box	PB25033	1/23/2012	1		check
	90050972	16 MM Split Camera	1601583	1/23/2012	1		check
Baltimore City	90050971	25 MM Split Camera	2501508	1/23/2012	1		check
	90051371	Elsag ADM Split Box	PB21632	7/21/2011	1		check
Baltimore City	90051370	16 MM Split Camera	1601650	7/21/2011	1		check
	90051369	25 MM Split Camera	2501602	7/21/2011	1		check
Baltimore City	90051402	Elsag ADM Split Box	PB21799	7/21/2011	1		check
	90051403	16 MM Split Camera	1601654	7/21/2011	1		check
Baltimore City	90051404	25 MM Split Camera	2501770	7/21/2011	1		check
	90051384	Elsag ADM Split Box	PB21834	7/21/2011	1		check
Baltimore City	90051386	16 MM Split Camera	1601665	7/21/2011	1		check
	90051385	25 MM Split Camera	2501604	7/21/2011	1		check
Baltimore City	90051389	Elsag ADM Split Box	PB21831	7/21/2011	1	10	check
	90051400	16 MM Split Camera	1601662	7/21/2011	1		check
Baltimore City	90051401	25 MM Split Camera	2501765	7/21/2011	1		check
Baltimore Co.	90051375	Elsag ADM Split Box	PB21829	7/21/2011	1		check
	90051376	16 MM Split Camera	1601606	7/21/2011	1		check
Baltimore Co.	90051377	25 MM Split Camera	2501845	7/21/2011	1		check
	90051381	Elsag ADM Split Box	PB21799	7/21/2011	1		check
Baltimore Co.	90051382	16 MM Split Camera	1601648	7/21/2011	1		check
	90051383	25 MM Split Camera	2501817	7/21/2011	1		check
Baltimore Co.	90051398	Elsag ADM Split Box	PB21830	7/21/2011	1		check
	90051398	16 MM Split Camera	1601669	7/21/2011	1		check
Baltimore Co.	90051397	25 MM Split Camera	2501812	7/21/2011	1		check
	90051380	Elsag ADM Split Box	PB21833	7/21/2011	1		check
Baltimore Co.	90051379	16 MM Split Camera	1601674	7/21/2011	1		check
	90051393	25 MM Split Camera	2501777	7/21/2011	1		check
Baltimore Co.	90051394	Elsag ADM Split Box	PB21836	7/21/2011	1	5	check
	90051395	16 MM Split Camera	1601666	7/21/2011	1		check
Baltimore Co. (RATT)	90051465	25 MM Split Camera	2501835	7/21/2011	1		check
	90051466	Elsag ADM Split Box	PB25016	7/21/2011	1		check
Baltimore Co.	90051467	16 MM Split Camera	1601634	7/21/2011	1		check
	90051468	25 MM Split Camera	2501910	7/21/2011	1		check
Baltimore Co.	90051469	Elsag ADM Split Box	PB25037	7/21/2011	1		check
	90051470	16 MM Split Camera	1601533	7/21/2011	1		check
Bel Air	90051099	Elsag ADM Split Box	PB21703	5/29/2011	1	1	check
	90051097	16 MM Split Camera	160164	5/29/2011	1		check
Bladensburg	90051098	25 MM Split Camera	2501511	5/29/2011	1		check
	90051080	Elsag ADM Split Box	PB21742	6/8/2011	1		check
Bowie	90051078	16 MM Split Camera	1601637	6/8/2011	1		check
	90051079	25 MM Split Camera	2501790	6/8/2011	1		check
Capitol Heights	90051391	Elsag ADM Split Box	PB21815	6/29/2011	1		check
	90051392	16 MM Split Camera	1601573	6/29/2011	1		check
Carroll Co SD	90051018	25 MM Split Camera	2501836	5/19/2011	1		check
	90051016	Elsag ADM Split Box	PB21442	5/19/2011	1		check
Cheverly	90051017	16 MM Split Camera	1601577	5/19/2011	1		check
	90050988	25 MM Split Camera	2501528	5/19/2011	1		check
Charles Co	90050987	Elsag ADM Split Box	PB21720	5/24/2011	1		check
	90050943	16 MM Split Camera	1601563	5/24/2011	1		check
Charles Co	90050941	25 MM Split Camera	2501524	5/24/2011	1		check
	90050942	Elsag ADM Split Box	PB21687	5/19/2011	1		check
missing 1 serial number at it						1	

Agency	MSP Number	Description	Serial Number	Date	Count	Total	Matched
Chevy Chase	90050982	Eltag ADM Split Box	PB21723	5/23/2011		1	1
	90050980	16 MM Split Camera	1601417	5/23/2011		1	1
	90050981	25 MM Split Camera	2501426	5/23/2011		1	1
	90050997	Eltag ADM Split Box	PB21704	12/19/2011		1	1
Denton PD	90050995	16 MM Split Camera	1601581	12/19/2011		1	1
	90050996	25 MM Split Camera	2501572	12/19/2011		1	1
	90051062	Eltag ADM Split Box	PB21767	6/22/2011		1	1
	90051061	16 MM Split Camera	1601574	6/22/2011		1	1
Dorchester Co	90051060	25 MM Split Camera	2501786	6/22/2011		1	1
		missing 1 serial number at 11				1	
Easton PD	90051074	Eltag ADM Split Box	PB21698	6/22/2011		1	1
	90051072	16 MM Split Camera	1601643	6/22/2011		1	1
Edmonston PD	90051073	25 MM Split Camera	2501789	6/22/2011		1	1
	90050961	Eltag ADM Split Box	PB21714	5/24/2011		1	1
Elkton PD	90050960	16 MM Split Camera	1601561	5/24/2011		1	1
	90050991	25 MM Split Camera	2501516	5/24/2011		1	1
Fedoralsburg	90050989	Eltag ADM Split Box	PB21719	5/25/2011		1	1
	90050990	16 MM Split Camera	1601415	5/26/2011		1	1
	90051068	25 MM Split Camera	2501523	5/26/2011		1	1
	90051068	Eltag ADM Split Box	PB21733	6/22/2011		1	1
Glennarden	90051068	16 MM Split Camera	1601568	6/22/2011		1	1
	90051067	25 MM Split Camera	2501771	6/22/2011		1	1
Greenbelt	90051075	Eltag ADM Split Box	PB21734	6/22/2011		1	1
	90051076	16 MM Split Camera	1601557	6/22/2011		1	1
Hagerstown	90050967	25 MM Split Camera	250510	6/22/2011		1	1
	90050965	Eltag ADM Split Box	PB21669	5/23/2011		1	1
Howard Co.	90051041	16 MM Split Camera	1601576	5/23/2011		1	1
	90051038	25 MM Split Camera	2501519	5/23/2011		1	1
Huntsville	90051040	Eltag ADM Split Box	PB21741	6/28/2011		1	1
	90051015	16 MM Split Camera	1601567	6/28/2011		1	1
	90051013	25 MM Split Camera	2501536	6/28/2011		1	1
	90051014	Eltag ADM Split Box	PB21724	Vehicle 233	5/19/2011	2	2
MTA Police	90050939	16 MM Split Camera	1601436	5/19/2011		2	2
	90050938	25 MM Split Camera	2501528	5/19/2011		2	2
	90050964	Eltag ADM Split Box	PB21678	Vehicle 305	5/19/2011	2	2
	90050962	16 MM Split Camera	1601552	5/19/2011		2	2
New Carrollton	90050963	25 MM Split Camera	250502	5/19/2011		1	1
	90051089	Eltag ADM Split Box	PB21718	5/24/2011		1	1
	90051087	16 MM Split Camera	1601411	5/24/2011		1	1
	90051088	25 MM Split Camera	2501521	5/24/2011		1	1
Montgomery Co	90051083	Eltag ADM Split Box	PB21774	6/7/2011		1	1
	90051081	16 MM Split Camera	1601520	6/7/2011		1	1
	90051082	25 MM Split Camera	2501761	6/7/2011		2	2
		missing serial numbers at this time	PB21760	6/7/2011		2	2
Mt Rainier	90050994	Eltag ADM Split Box	PB21717	5/26/2011		1	1
	90050992	16 MM Split Camera	1601548	5/26/2011		1	1
Pocomoke	90050993	25 MM Split Camera	2501520	5/26/2011		1	1
		missing serial numbers at this time				1	
Pr. George's	90050973	Eltag ADM Split Box	PB21713	5/26/2011		1	1
	90050929	16 MM Split Camera	1601549	5/26/2011		1	1
Pocomoke	90050930	25 MM Split Camera	2501544	5/26/2011		1	1
	90051056	Eltag ADM Split Box	PB21784	6/21/2011		1	1
Pr. George's	90051055	16 MM Split Camera	1601604	6/21/2011		1	1
	90051054	25 MM Split Camera	2501533	6/21/2011		1	1
	90051035	Eltag ADM Split Box	PB21744	6/12/2011		1	1
	90051033	16 MM Split Camera	1601580	6/12/2011		1	1
New Carrollton	90050958	25 MM Split Camera	2501487	6/12/2011		2	2
	90050957	Eltag ADM Split Box	PB21664	6/12/2011		2	2
	90050956	16 MM Split Camera	1601409	6/12/2011		3	3
	90050928	25 MM Split Camera	2501503	6/12/2011		4	4
Pocomoke	90050927	Eltag ADM Split Box	PB21700	6/12/2011		3	3
	90050926	16 MM Split Camera	1601547	6/12/2011		4	4
	90050925	25 MM Split Camera	2501501	6/12/2011		4	4
	90050953	Eltag ADM Split Box	PB21697	6/12/2011		4	4
New Carrollton	90050954	16 MM Split Camera	1601551	6/12/2011		4	4
		25 MM Split Camera	2501498	6/12/2011		4	4

Agency	MSP Number	Description	Serial Number	Date	Count	Total	Notes
	90051000	Etag ADM Split Box	PB21688	8/12/2011	8	8	check
	90050999	16 MM Split Camera	1601565	8/12/2011			
	90050998	25 MM Split Camera	2501518	8/12/2011			
	90051003	Etag ADM Split Box	PB21715	8/12/2011	8	8	check
	90051001	16 MM Split Camera	1601559	8/12/2011			
	90051002	25 MM Split Camera	2501531	8/12/2011			
	90050976	Etag ADM Split Box	PB21722	8/12/2011	7	7	check
	90050974	16 MM Split Camera	1601443	8/12/2011			
	90050975	25 MM Split Camera	2501528	8/12/2011			
	90051058	Etag ADM Split Box	PB21735	8/12/2011	8	8	check
	90051058	16 MM Split Camera	1601610	8/12/2011			
	90050957	25 MM Split Camera	2501793	8/12/2011			
	90051047	Etag ADM Split Box	PB21739	8/12/2011	9	9	check
	90051046	16 MM Split Camera	1601578	8/12/2011			
	90051045	25 MM Split Camera	2501534	8/12/2011			
	90051374	Etag ADM Split Box	PB21810	8/12/2011	10	10	check
	90051372	16 MM Split Camera	1601647	8/12/2011			
	90051373	25 MM Split Camera	2501791	8/12/2011			
Riverdale	90051021	Etag ADM Split Box	PB21705	8/19/2011	1	1	check
	90051020	16 MM Split Camera	1601431	5/19/2011			
	90051019	25 MM Split Camera	2501513	5/19/2011			
Seal Pleasant	90051086	Etag ADM Split Box	PB21735	8/7/2011	1	1	check
	90051085	16 MM Split Camera	1601639	8/7/2011			
	90051084	25 MM Split Camera	2501765	8/7/2011			
Talbot Co SO	90051071	Etag ADM Split Box	PB21737	6/21/2011	1	1	check
	90051070	16 MM Split Camera	1601602	6/21/2011			
	90051069	25 MM Split Camera	2501792	6/21/2012			

Washington SO	90051038	X	Etag ADM Split Box	P21741	6/29/2011	1	check
	90051037	X	16 MM Split Camera	1601404	6/29/2011		
	90051036	X	25 MM Split Camera	2501499	6/29/2011		
	90051044	X	Etag ADM Split Box	PB21688	6/29/2011	1	2 check
	90051043	X	16 MM Split Camera	1602062	6/29/2011		
	90051042	X	25 MM Split Camera	2501497	6/29/2011		

Total Mobile Units 63
 Price @ \$16,350 ea
 Mobile Sub Total \$1,039,050

These departments obtained separate Grant for PIP's Units Not Part of MSP Grant						
Ocean City PD	1	PIPS Unit				
Wilcombs Co. SO	1	PIPS Unit		9/14/2011	0	check
		KX237P564116390 - processing unit				
		KX237P564116390 - camera component				
		KX237P564116390 - camera component				
		KX237P564116390 - camera component				

CSAF 2011-1005 Fixed Camera	ITD #	Serial Number				
Fixed Cameras						
MDTA	6	90051552 LPR Fixed Camera	g10000169	3/15/2012	9,450	
		90051553 LPR Fixed Camera	g10000173	3/15/2012	9,450	
		90051554 LPR Fixed Camera	g10000163	3/15/2012	9,450	
		90051555 LPR Fixed Camera	g10000165	3/15/2012	9,450	
		90051556 LPR Fixed Camera	g10000164	3/15/2012	9,450	
		90051557 LPR Fixed Camera	g10000171	3/15/2012	9,450	56,700
MSP	9	90051558 LPR Fixed Camera	G10000151	3/15/2012	9,450	
		90051559 LPR Fixed Camera	G10000177	3/15/2012	9,450	
		90051560 LPR Fixed Camera	G10000150	3/15/2012	9,450	
		90051548 LPR Fixed Camera	G10000162	3/15/2012	9,450	
		90051549 LPR Fixed Camera	G10000172	3/15/2012	9,450	
		90051544 LPR Fixed Camera	G10000168	3/15/2012	9,450	
		90051545 LPR Fixed Camera	G10000174	3/15/2012	9,450	
		90051546 LPR Fixed Camera	G10000161	3/15/2012	9,450	
		90051547 LPR Fixed Camera	G10000175	3/15/2012	9,450	85,050
Univ of MD	2	90051550 LPR Fixed Camera	g10000166	3/15/2012	9,450	18,900
		90051551 LPR Fixed Camera	g10000167	3/15/2012	9,450	

Agency	MSP Number	Description	Serial Number	Date	Count	Total	Matcher
Total # Fixed Cameras	17						
					Fixed Cam TOTAL	168,650	

CSAF-2011-1005 Field Control Units

MSP	90051541	P1153782			5,750		
	90051543	P1153804			5,750		
	90051542	P1154799			5,750	23,000	
	90051540	P1153600			5,750		
Univ of MD	90052409	MDFCU0003			2,875		
	90052408	MDFCU0002	Replaced one Full FCU		2,875	5,750	
MDTA	90052407	MDFCU0001			5,750	5,750	
					FCU Total	34,500	

CSAF-2011-1005 Mobile Units

University Park Police	90051006	Elsag ADM Split Box	PB21682	6/8/2011	1		
	90051005	16 MM Split Camera	1601584	6/8/2011			
	90051004	25 MM Split Camera	2501545	6/8/2011		16,350	
Towson University	90050977	16 MM Split Camera	1601410	5/23/2012	1		
	90050978	25 MM Split Camera	2501511	5/23/2012			
	90050979	Elsag ADM Split Box	PB21716	5/23/2012		16,350	
MD Transportation Auth PD	90050985	Elsag ADM Split Box	PB21699	5/15/2011	1		
	90050984	16 MM Split Camera	1601560	5/15/2011			
	90050983	25 MM Split Camera	2501514	5/15/2011		16,350	
DGS Capitol	90050970	Elsag ADM Split Box	PB21663	5/25/2011	1		
	90050969	16 MM Split Camera	1601562	5/25/2011			
	90050968	25 MM Split Camera	2501517	5/25/2011		16,350	
					Mobile Unit Total	65,400	
					Should be	205,170	
					Actual total	200,150	
					Difference	24,620	

MSP FIXED Total 108,050
MDTA Fixed Total 62,450
UnivMD Fixed Total 24,850

Fixed Sub-Total 195,350

Mobile Sub-Total 1,030,650

Grand Total: 1,226,000

8/19/2012 12:55

The FCU prices are \$5,750. University of Maryland has Two Mini FCU's, Exchanged for one Full size FCU. BWI originally received two FCUs. One was returned and we received a check from ATIS for \$5,750. The other FCU was exchanged for two mini FCUs; however, we were not charged anything additional. It was just an exchange. So, in summary:

University of Maryland: Two Mini FCU's at \$2,875 each
BWI: One FCU at a total price of \$5,750

Light green = charged to CSAF-2011-1005 4 mobile units X \$16,350 = \$65,400, 17 fixed units X \$9,450 = \$160,650, plus Field Control units \$34,500
All others charged to BJAG-2008-1002, complete serial number information to be supplied when grant closes

Mobile LPRs	\$ 65,400.00
Fixed cameras	\$ 160,650.00
Field control units	\$ 34,500.00
	\$ 260,550.00
Mobile LPRs	\$ 65,400.00
Fixed cameras	\$ 160,650.00
Field control units	\$ 34,500.00
	\$ 260,550.00
Mobile LPRs	\$ 65,400.00
Fixed cameras	\$ 160,650.00
Field control units	\$ 34,500.00
	\$ 260,550.00
Mobile LPRs	\$ 65,400.00
Fixed cameras	\$ 160,650.00
Field control units	\$ 34,500.00
	\$ 260,550.00



MARYLAND STATE POLICE GENERAL ORDER



Automated License Plate Recognition Program

Distribution:	All Sworn Employees	Index:	GO 01-12-003				
Responsible Unit:	LPR Program Manager	Rescinds:	N/A				
CALEA Standards:	41.1.3	MD Code:	N/A				
Issued:	05/02/2012	Revised:	N/A	Reviewed:	N/A	Next Review:	05/02/2013

.01 Purpose

To establish guidelines for the deployment, maintenance, training and data storage associated with the use of License Plate Recognition systems by MSP personnel.

.02 Policy

It is the policy of the MSP to increase safety on Maryland roadways while reducing the economic losses caused by auto theft and other crimes through the use of Automated License Plate Recognition (LPR) systems.

.03 Definitions

Alarm: an audible and or visual alert generated by an LPR system to the user indicating that a license plate is on the hot list.

License Plate Recognition (LPR): also known as an Automated License Plate Recognition or Automated License Plate Reader; a system that includes cameras and computer hardware and software that is designed to capture, read and store images of vehicle license plates. An LPR may be mounted in a vehicle or in a fixed location.

Hot List: the current electronic file of license plates which will cause the LPR system to trigger an alarm and alert the trooper.

Read: the process by which an LPR system photographs a license plate, translates the photograph into alphanumeric characters and compares that data to the hot list.

Statewide LPR Systems: those LPR systems that are networked with the Maryland Coordination and Analysis Center (MCAC) Operations Center server through an encrypted Virtual Private Network.

.04 Overview

- A. The identification of stolen vehicles, stolen license plates and wanted and missing persons is the primary focuses of the LPR Program. LPR technology uses specialized cameras and computers to quickly capture large numbers of license plate photographs and compares them to the hot list. LPR systems can identify a target plate within seconds of contact with it, allowing law enforcement to identify vehicles that may otherwise be overlooked. LPR systems also record every license plate they scan and record the location (using GPS coordinates), date and time of each license plate read. The technology is available in mobile systems, which are mounted on police vehicles, and fixed camera systems that can be mounted on poles or on the roadside. Mobile LPR systems are

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Automated License Plate Recognition Program

designed to allow officers to patrol at normal speeds while the system reads license plates with which they come into contact and alerts them if there is a match to a hot list.

- B. The MCAC operates an LPR Operations Center which is the central clearinghouse for all license plates scanned by MSP LPR systems. It is maintained by MCAC personnel who are designated by the MCAC Director. The Operations Center provides a database, inquiry tools, history tracking and reporting for the LPR Program.
- C. The Operations Center receives all LPR data and stores it in a database that is accessible via the MCAC intranet by authorized personnel who can:
 - 1. look for a license plate or partial license plate in the history and view the image and location of any matches;
 - 2. view maps with the location of plate reads and alarms;
 - 3. view statistical reports on reads and alarms; and
 - 4. view reads and alarms for a specific geographic area and time frame.

.05 Procedures

A. MSP LPR Program Manager

- 1. The Superintendent will appoint the MSP LPR Program Manager. The LPR Program Manager will be responsible for:
 - a. collecting, reviewing, compiling and disseminating LPR statistics from all MSP personnel using LPR systems;
 - b. providing technical troubleshooting of LPR systems with integrated Mobile Data Terminals (MDTs);
 - c. coordinating the installation and removal of mobile LPR systems from patrol vehicles;
 - d. monitoring the MSP servers for the NCIC and MVA hot lists;
 - e. completing software and hardware upgrades for mobile and fixed LPR systems;
 - f. coordinating the repair or replacement of LPR systems; and
 - g. providing LPR training to MSP personnel.

B. Installation and Maintenance

- 1. Fixed LPR systems will be installed on public roadways throughout the State, and mobile LPR systems will be installed in MSP vehicles, as determined by the Superintendent.
- 2. The LPR Program Manager will be responsible for the installation and maintenance of LPR system equipment in MSP vehicles and at stationary locations.
- 3. The Information Technology Division (ITD), in conjunction with the LPR Program Manager, will be responsible for maintaining the detailed inventory record of all LPR equipment.
- 4. The LPR Program Manager will be responsible for conducting an annual physical inventory of all LPR equipment and reconciling it with the detailed inventory record. Once reconciled, the inventory will be reviewed by the Commander, ITD, and forwarded to the Capital Property Section.

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Automated License Plate Recognition Program

5. The Commander, Electronic Services Section, must pre-approve the installation or transfer of any LPR system.
6. The LPR Program Manager will be responsible for the installation and maintenance of barrack video monitoring centers, mobile LPR computer systems and all related hardware and software.
7. Any damage to LPR systems will be reported immediately according to established MSP policy and procedures related to the loss of or damage to MSP equipment.

C. LPR Cleaning and Maintenance

LPR equipment will be cleaned and maintained according to the manufacturer's recommendations.

D. Hot Lists

1. Hot lists are updated at 0745 hours and 1645 hours daily.
2. The MCAC LPR Program Administrator or his designee will ensure that updated hot lists are transmitted to all statewide LPR systems.
3. MSP personnel operating mobile LPR systems will ensure that the system's hot list is updated prior to use and that the GPS is connected and working as designed.
4. Problems related to hot lists should be reported to the LPR Program Manager immediately.
5. If it becomes necessary to add specific information after a hot list update, the barrack duty officer or trooper operating a mobile LPR will:
 - a. ensure that all custom manual inputs have a legitimate law enforcement purpose;
 - b. ensure that the barrack duty officer approves all manual inputs requested by troopers operating mobile units before they are entered into the MCAC Operations Center database;
 - c. contact the MCAC Watch Division (1-800-492-TIPS) and request that the license plate information be manually entered into the Operations Center database;
 - d. documented the entry in the barrack CAD system; and
 - e. remove the information from the mobile LPR system when it is no longer needed.
6. The MCAC Watch Division will ensure that any manually entered license plate information is transmitted to all statewide LPR systems.

E. Use of LPR Systems

1. LPR equipment provides access to stolen and wanted files and is also used in furtherance of criminal investigations. The use of LPR systems and access to its data requires a legitimate law enforcement purpose.
2. No employee may use or authorize the use of the equipment or database records in any situation that does not involve a legitimate law enforcement purpose.
3. An alarm alone does not establish probable cause; the alarm must be confirmed prior to taking any enforcement action.

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4. Prior to taking any enforcement action, personnel who receive an alarm will provide the information to the local MSP barrack. Barrack personnel will immediately attempt to confirm the information according to established policy.

F: Fixed LPR Systems

1. The LPR Program Manager will coordinate the deployment of fixed LPR systems and ensure they are properly maintained.
2. The barrack commander in the area of deployment will:
 - a. assign personnel to the video monitoring center at the barrack to monitor alarms and take appropriate action when alarms are received; and
 - b. ensure all personnel assigned to the video monitoring center have received the appropriate training and that the training is properly documented.
3. All scanned LPR data will be transmitted to MCAC through an encrypted VPN and purged automatically from the video monitoring center after one day.
4. Alarms are transmitted to the LPR system's video monitoring center at the installation with responsibility for the geographic area and checked against the hot list. Alarms, along with a digital image of the license plate, will be reviewed by barrack personnel assigned to oversee the video monitoring center.
5. The duty officer or his designee who receives an alarm on a scanned license plate will compare the digital image of the license plate to the hot list information displayed to determine if they match.
6. If the digital image of the license plate and information displayed match, the duty officer or his designee will provide the information to the appropriate personnel, MSP installation, or local police department based on the location of the alarm.
7. The duty officer at the MSP installation receiving notification of an alarm will determine the appropriate response.

E. Mobile LPR Systems

1. Mobile LPR systems should be installed in vehicles that are equipped with the Electronic Traffic Information Exchange (E-TIX) system. Units and divisions that do not perform routine traffic enforcement (e.g., Gang Enforcement Unit, State Apprehension Team) are exempt from this requirement.
2. Commanders whose installations are assigned mobile LPR systems will:
 - a. select the appropriate personnel to operate mobile LPR systems;
 - b. ensure mobile LPR systems are properly deployed and maintained;
 - c. maintain an adequate number of properly trained personnel;
 - d. ensure all personnel using or maintaining mobile LPR systems are properly trained prior to using the system;
 - e. designate a supervisor as the LPR Program supervisor;

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- f. ensure all required LPR Program logs and records are properly maintained according to policy;
 - g. ensure all significant incidents and arrests that are related to LPR usage are properly documented and forwarded through the chain of command to the appropriate bureau chief; and
 - h. ensure that all mobile LPR system equipment is inspected each month and documented on the employee's Motor Vehicle Inspection Report (Form 53). Any deficiencies will be immediately brought to the attention of the installation commander or his designee who will notify the LPR Program Manager.
- 3. The MDT in the patrol vehicle will act as a video monitoring center. All license plates scanned by the mobile LPR system are transmitted to the MDT and checked against the hot list and MVA records. When an alarm is received, a digital image of the license plate will be displayed on the MDT screen for review.
 - 4. Personnel who receive an alarm on a scanned license plate will compare the digital image of the license plate to the hot list or MVA information displayed. Verified alarms will be accepted by touching the "Accept" button on the video monitoring center screen. When an alarm is not verified, personnel will touch the "Reject" button.
 - 5. The duty officer at the MSP installation receiving notification of an alarm will determine the appropriate response.
 - 6. All scanned LPR data will be transmitted to MCAC through an encrypted VPN and purged automatically from the video monitoring center after one day.
 - 7. Commanders will be responsible for overseeing the mobile LPR systems assigned to personnel under their command and ensuring compliance with Department policy.

F. Alarm Verification

- 1. At this time, the LPR system does not interface with real-time METERS and NCIC data.
- 2. LPR alarms may be dated and up to 24 hours old.
- 3. Personnel must verify all alarms through METERS and NCIC and follow all Department policies and procedures.
- 4. The LPR system is only to be used as an investigative tool; confirmation of an alarm is mandatory prior to a stop.

G. Emergency Operations

- 1. During the course of normal law enforcement duties, incidents may occur that require immediate assistance. The LPR system can be a valuable tool in these situations, such as AMBER Alerts, bank robberies or other crimes and can help bring those incidents to a safe and successful conclusion.
- 2. All license plate information related to AMBER, Silver, and Blue alerts will be immediately entered into the MCAC LPR Operations Center database by the MCAC Watch Division. The hot list will be updated with the alert information provided by Computer Crimes Unit personnel. The MCAC Watch Division will ensure the timely transfer of information to all statewide LPR systems.

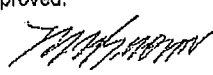
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3. In the event of a critical situation with vehicle registration information, the deployment of an LPR system can maximize the coverage area to search for any vehicle involved.
4. LPR equipped vehicles should be directed to patrol areas which are likely to increase the chance of encountering the vehicle.
5. The duty officer will contact the MCAC Watch Division and request that the LPR Operations Center database be queried to determine if any mobile or fixed LPR systems had previously encountered the target plate.

H. Reporting

1. The E-TIX system should be used for all LPR traffic enforcement action. The arrest code "S" has been designated for LPR stops by the District Court of Maryland.
2. Each local LPR Supervisor will:
 - a. compile LPR statistics and forward them to the LPR Program Manager by the 10th of each month. A copy will be retained locally.
 - b. maintain a separate file for each LPR system that will include all monthly reports submitted to the LPR Program Manager. LPR reports shall be retained for a minimum of the current calendar year plus one year.
3. Barrack commanders will ensure LPR arrests or related incidents are reported and documented daily in the FOB Briefing.
4. Quarterly, the LPR Program Manager will compile a report of MSP LPR statistics and forward it to the appropriate bureau chiefs for review.
5. The LPR Program Manager will submit an annual LPR report to the Superintendent no later than January 31st each year. This report will cover the prior calendar year.

This Order cancels GO 01-1007 and supersedes all other orders and memoranda in conflict with this Order.

Approved:

Colonel Marcus Brown Superintendent 05/02/2012