

DEREK STAFFORD

From: DEREK STAFFORD
Sent: Friday, September 10, 2010 5:52 PM
To: TONY HAMRICK
Cc: GARY SMITH; JIM TATE
Subject: Demo Vehicle Loaner From PIPS/MajorPoliceSupply LPR System

Captain Hamrick,

Gary Smith has reviewed & signed the *General Sales Administration Car Loaner Agreement* sent by David McCollum & Desiree Sweedy of Major Police Supply for their LPR demo car. I have placed that in your inter-office mail along with a copy of the first page of our insurance that Gary provided.

Please coordinate signatures from the car owners for the agreement and make sure that both HPPD and Fleet Maintenance receive signed copies.

This loaner vehicle is not unmarked and does not contain HPPD markings, therefore when being used by HPPD personnel;

- The car WILL NOT be used in any enforcement actions
- There will be no emergency driving/response mode
- The car is not to be used for any call answering services

The personnel using the car to demo the LPR should be considered "special assignment and non first responders." It is important that they notify their chain-of-command and Communications that they are on special assignment and considered unavailable for calls.

The purpose is only to test the functionality of the LPR system.

Please make sure that these restrictions and purpose are made clear to those testing the car/product and to the command of those persons.

Derek Stafford

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

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ALPR (Automated License Plate Recognition) Instructions

Important:

- The on/off switch to the left of the console controls the power for the cameras, and the processor in the trunk. Be sure to turn this off if you are leaving the car for an hour or more. It will drain the battery if you leave this on.
- Verify all alerts against NCIC before taking action. The system does not recognize states, so the wanted/stolen vehicle may be for a plate from another state. Also, some alerts do not require action, like sex offenders and VGOTF (Violent Gang/Terrorist info).
- Be sure to return the key to the key box (or designated place) when you are finished using the car.

Starting your shift:

Start the car, PAGIS software should come up on its own (it sometimes takes a few minutes after the computer boots). The username is admin and the password is admin1 (all upper case). Leave the LOCATION box blank. After the software is up, place thumb drive in system, click BEGIN SHIFT (this isn't required, but it tells the system to go ahead and get the latest stolen hotlist, instead of waiting for a periodic update).

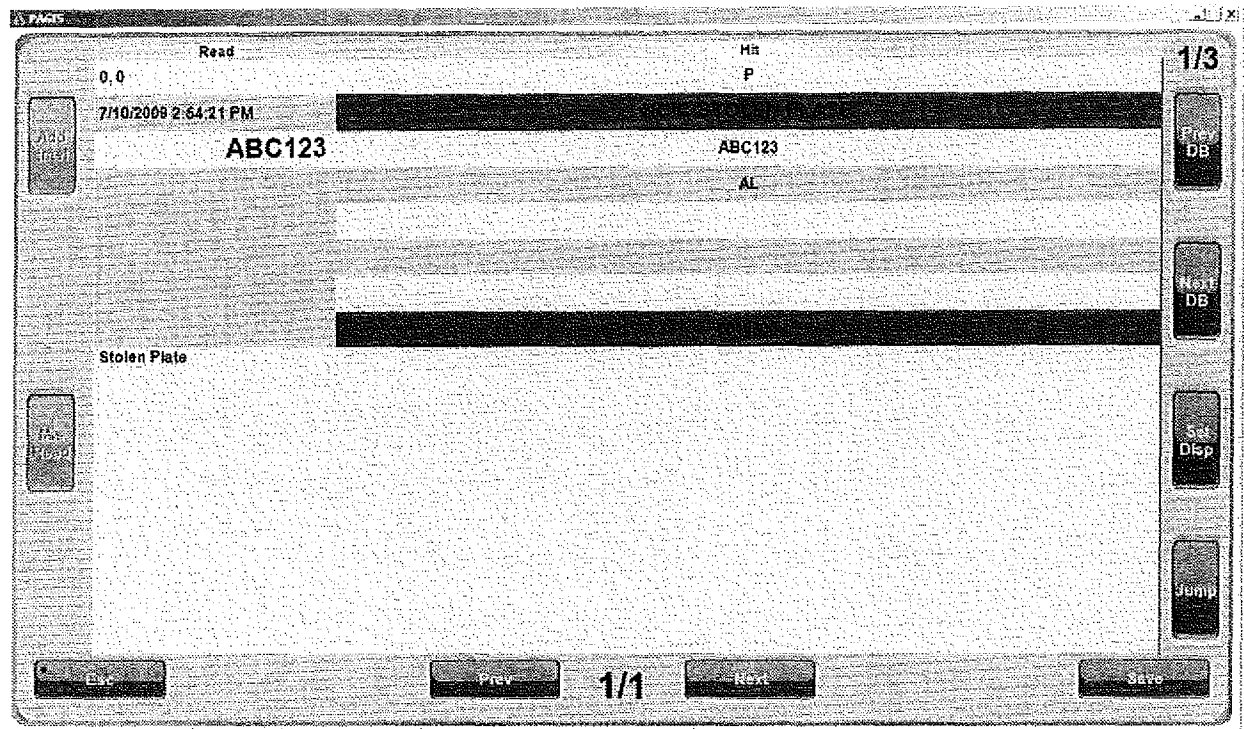
While you drive:

It will beep lightly when it reads a plate to let you know it is working. If it alerts, the program will take over the screen with an audio alert.

To switch between parking lot mode (using the side cameras and the right front camera) or travel mode (uses the two front cameras and the right side camera), click on the "CAM MODE" button. It will take 2-3 seconds to switch modes. You can tell which mode it is currently in by looking at the top of the display (it will label each camera Left Front and Right Front, or they will be called Left Parking and Right Parking).

When you get an alert, note the license plate of the alert, as well as the license plate in the picture. The system CAN misread a plate and give you a false hit. If the plates match, look at the STATE of the alert. Then run the plate in NCIC. The hotlist on the computer is only updated every 12 hours (at best), so the alert you get could be something that's already been removed from NCIC.

As an example....



The plate scanned shows on the left side of the screen (in the larger letters). A picture of the plate would show underneath. Be sure the system read the plate correctly. Next, check the NCIC hit information on the right side. We see it is an NCIC Stolen Plate, that the plate is ABC123, but the next line has the state. The Alabama plate ABC123 is stolen, but not the North Carolina plate. This is why you should run the plate through NCIC for the current status of the plate/vehicle.

Note that you will get alerts that do not always require action: Sex offenders, VGOTF (Gang/Terrorists), supervised probation/parole releases, etc. Just keep this in mind...

You can search for license plates that you've read previously in your shift. For example, a bank robbery is given out with a suspect vehicle license plate of ABC123. You can click on "SEARCH ENTRY", then enter the license plate (or enter partial plates followed by an asterisk, such as ABC*). Then click READS. This will list all matching plates you've read during your shift. You can then view the picture from each read and see if your suspect vehicle was scanned before. If so, copy and paste the latitude and longitude (in the upper left) to Google Maps to see where you were when you scanned that plate.

Plate reads from other shifts will have been uploaded to the server, where they can be searched later by detectives (once we've set this feature up).

To see what will happen when the system encounters a stolen plate or vehicle, click on "SEARCH ENTRY". Then enter a stolen plate or vehicle and click "VLP". This will search for the plate in the local

database, and trigger an alert, as if the plate had been read by a camera. There is a different alert sound for each hit type (stolen car, stolen plate, wanted person, etc).

To manually enter a plate (a new stolen vehicle, or suspect in a crime that just occurred), click "SEARCH ENTRY", enter the plate, and click "VLP". If the plate is not already in the database, you can click one of the buttons at the top (Amber Alert, Felony, Stolen, Misc), type some notes, and click SAVE. The system will then alert on that plate, until you click END SHIFT.

Ending your shift:

Clicking END SHIFT uploads your license plate reads and associated images. It then clears the reads from your computer, as well as the tags you've entered manually. Once the END SHIFT process is complete, you may close the program, shut down the computer, and turn off the ALPR system (using the on/off switch next to the console).

Take the thumb-drive out of the system and place into laptop to operate the BOSS software.

Questions? Problems?

Call David McCollum at 919 369-0922.

TONY HAMRICK

From: TONY HAMRICK
Sent: Tuesday, September 21, 2010 11:10 AM
To: ALEX BUBEN; TRAVIS REAMS; RILEY EDWARDS; SCOTT SHACKLETON
Cc: ALVESTUS WILLIAMS III; BRUCE WILLIAMS; CHERIE MANESS
(cherie.maness@highpointnc.gov); Eddie B. McCluney (eddie.mccluney@highpointnc.gov);
THOMAS HANSON; DEREK STAFFORD; JIM TATE
Subject: ALPR testing

This loaner vehicle from Major Police Supply for the ALPR testing is a marked vehicle but does not contain HPPD markings, therefore when being used by HPPD personnel;

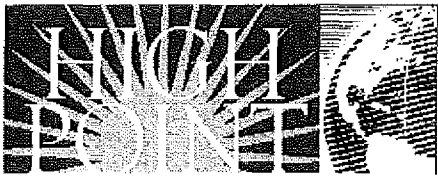
- The car WILL NOT be used in any enforcement actions
- There will be no emergency driving/response mode
- The car is not to be used for any call answering services

The personnel using the car to demo the ALPR should be considered "special assignment and non first responders." It is important that they notify their chain-of-command and Communications that they are on special assignment and considered unavailable for calls.

The purpose is only to test the functionality of the ALPR system.
Let me know if you have any questions.

Captain Tony Hamrick

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



NORTH CAROLINA'S INTERNATIONAL CITY™

**PURCHASE ORDER NUMBER
78477**

This number must appear on all Invoices, packages, cartons, bills of lading, and packing slips.

Ship Via:
FOB:
Freight Terms: Prepaid
Due Days: 30

Date: 12/21/2010

Vendor:
72610
MAJOR POLICE SUPPLY
47 N. DELL AVENUE
KENVIL, NJ 07847
United States of America

Bill To:
City of High Point
Accounts Payable
P.O. Box 230
High Point, NC 27261

Ship To:
O H LEAK LAW ENFORCEMENT CTR
1009 LEONARD ST
HIGH POINT, NC 27260

Buyer: Patty Sykes
Phone: 336-883-3219

Requestor: VETRYL NANCE
Requisition: 5775

LINE	QTY	UOM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	2	EA	EXTENDED WARRENTY ONE YEAR EXTENDED WARRENTY Item Detail: EXTENDED WARRENTY	2,000.00	4,000.00
2	1	EA	INSTALLATION INSTALLATION Item Detail: INSTALLATION	2,620.00	2,620.00
3	2	EA	LPR SLATE 810-LE-G LPR SLATE 810-LE-G Item Detail: LPR SLATE 810-LE-G	18,795.00	37,590.00
4	1	EA	SERVER HARDWARE PLATFORM SERVER HARDWARE PLATFORM Item Detail: SERVER HARDWARE PLATFORM	995.00	995.00
5	1	EA	SYSTEM SOFTWARE SYSTEM SOFTWARE Item Detail: SYSTEM SOFTWARE	795.00	795.00
				Goods Total:	\$46,000.00
				Sub Total:	\$46,000.00
Total Amount:					\$46,000.00

J. Robert Martin

Purchasing Manager

This Disbursement has been preaudited in the manner of the Local Government Budget and Fiscal Control Act.

ORIGINAL

Jeffery M. Brown

Director of Financial Services

Automated License Plate Recognition (ALPR)

ALPR and PACIS User Training



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System Configuration

v2.5.1 (24721)



GPS

PAGIS

PAGIS

Police ALPR Graphical Interface System

- Mobile (in-car) ALPR application
- Easy, Intuitive GUI
- Allows for Matching Against Multiple Databases
 - NCIC
 - Local hotlist
 - AMBER Alerts
 - Others
- Audible and Visual Alerts on Hits

SCJ768

BTR302

BOSS

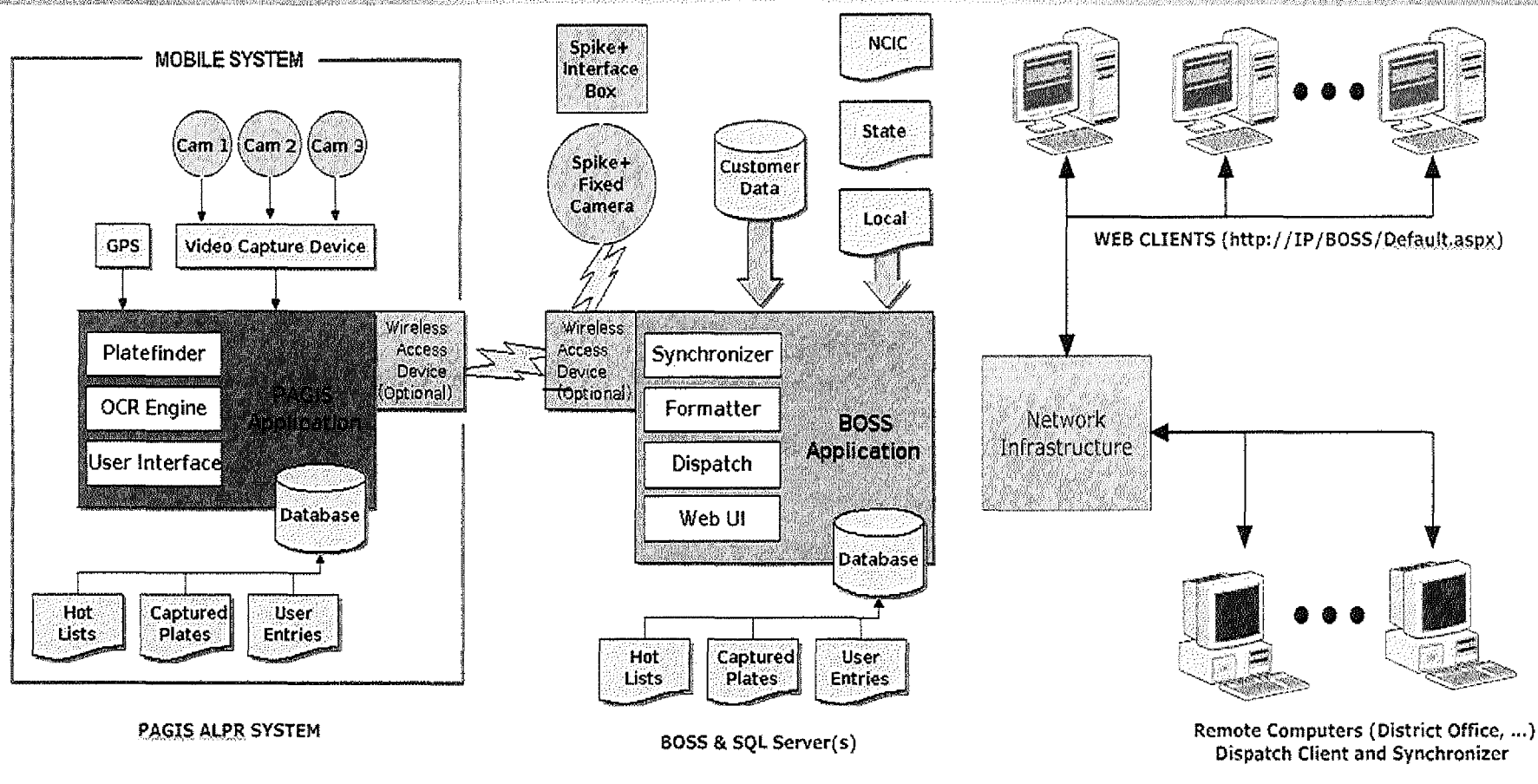
Back Office Server Software

- Synchronization of Hotlists to PAGIS
- Hotlist Management
- Crimes Analysis Query and Data Mining of PAGIS Reads and Hits, Mapping
- Remote Notification of Hits
- Covert Database Capability
- Interoperability through Intra-Agency Data Sharing / Search Capability

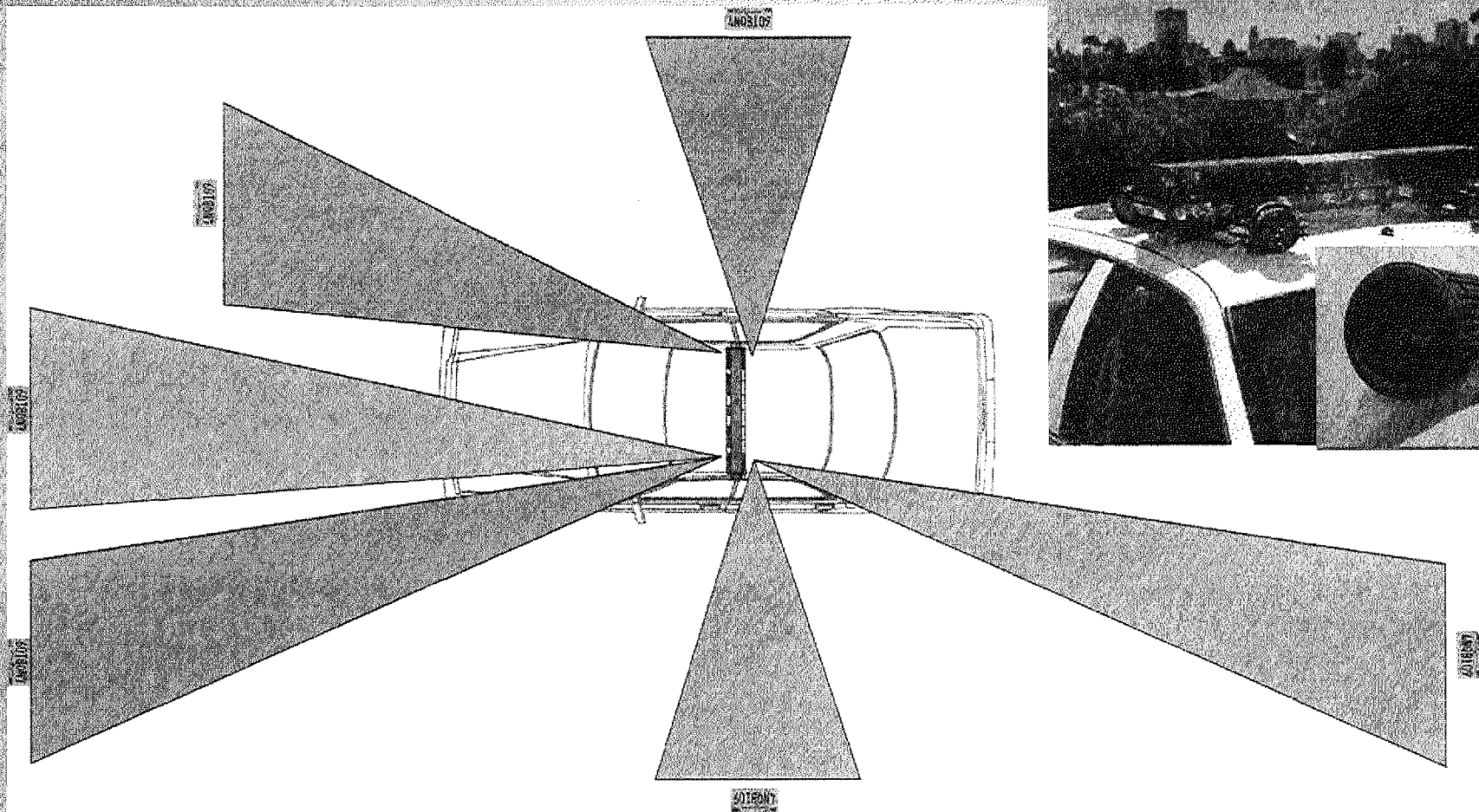


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BOSS and PAGIS System Architecture



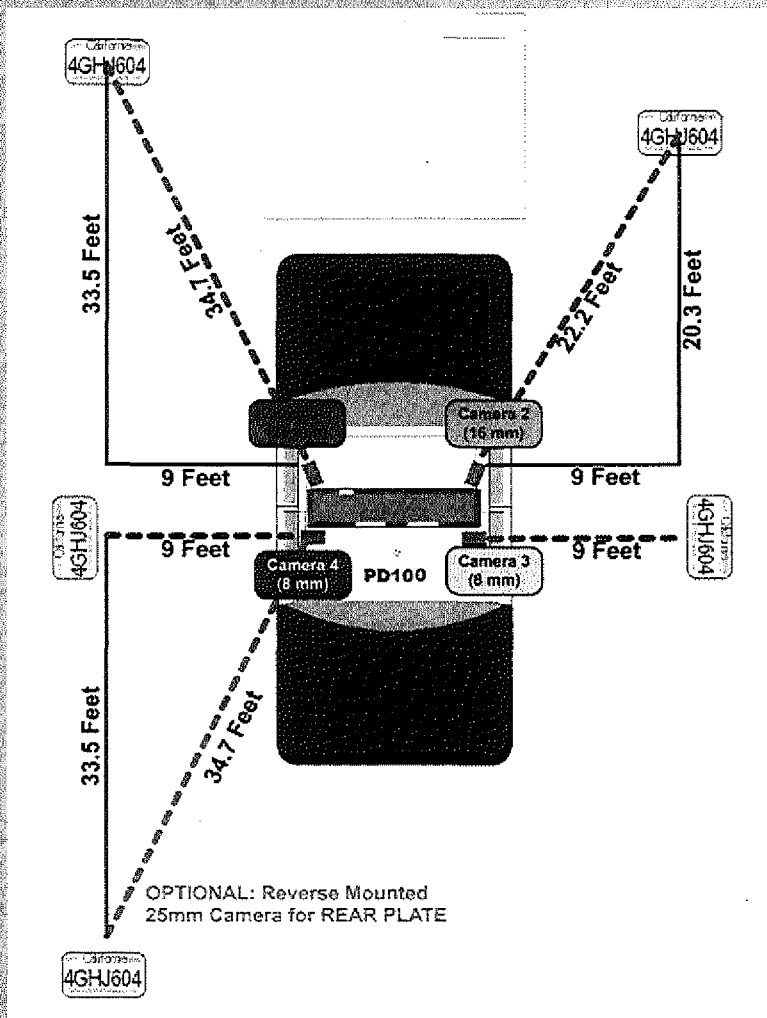
PACIS - Mobile Camera Systems



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PACIS - PAL Camera Alignment



- ❑ Fixed Focus PAL Cameras
- ❑ Selection of Camera determines desired function:
 - 25mm for Highway use
 - 16mm for Surface Streets and Parking
 - 8mm for Parking Lots
- ❑ Camera alignment is performed by system installer and is not user adjustable.



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Introduction

PAGIS® (Police ALPR Graphical Interface System) provides in-car Automatic License Plate Recognition (ALPR) to assist law enforcement officers with the identification of suspect vehicles. The PAGIS ALPR solution uses a dual channel, color, and infrared (IR) camera to read plates and a software program installed on a mobile computer. The PAGIS software reads the infrared plate image provided by the camera and searches its databases to check if the plate is listed.



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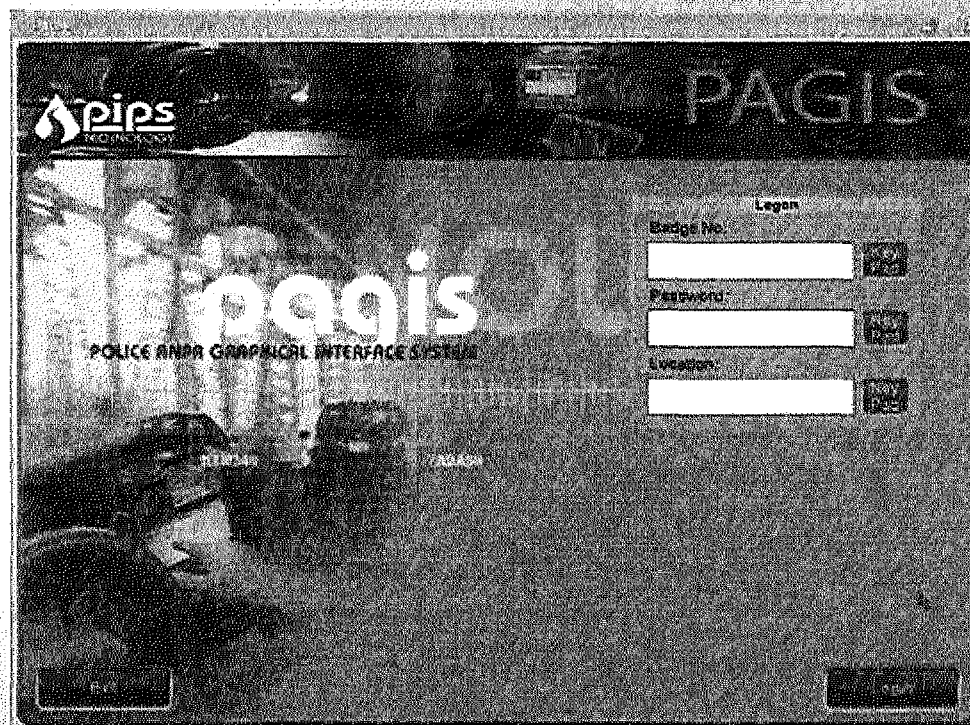
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Logging In

- Start the vehicle ignition.
- Turn on your MDT (laptop) and login to Windows.
- Start all software.
- The PAGIS login screen should appear. If your administrator has disabled this automatic launch, double click on the



on the desktop.



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•Enter
 - Your Username (Badge No)

PAGIS
 POLICE ANPR GRAPHICAL INTERFACE SYSTEM

Logon

Badge No:

Key Pad

Password:

Key Pad

Location:

Key Pad

Exit

Login



PAGIS

•Enter
 - *Your Password*
 The Password Will Be
 Assigned by the ALPR
 Administrator

Logon

Badge No:

BFIFE

Key Pad

Password:

Key Pad

Location:

Key Pad

Exit

Login



•Enter

- Location / Unit Number

Location is an Optional Text label. Each license plate read will have this label associated with it. The label can be used for searches in the BOSS software.

Logon

Badge No:

Password:

Location:

Exit

Login



PAGIS

pagis

POLICE ANPR GRAPHICAL INTERFACE SYSTEM

NTM340

7ABAS9

Logon

Badge No:

BFIFE

Key Pad

Password:

Key Pad

Location:

Mayberry1

Key Pad

Exit

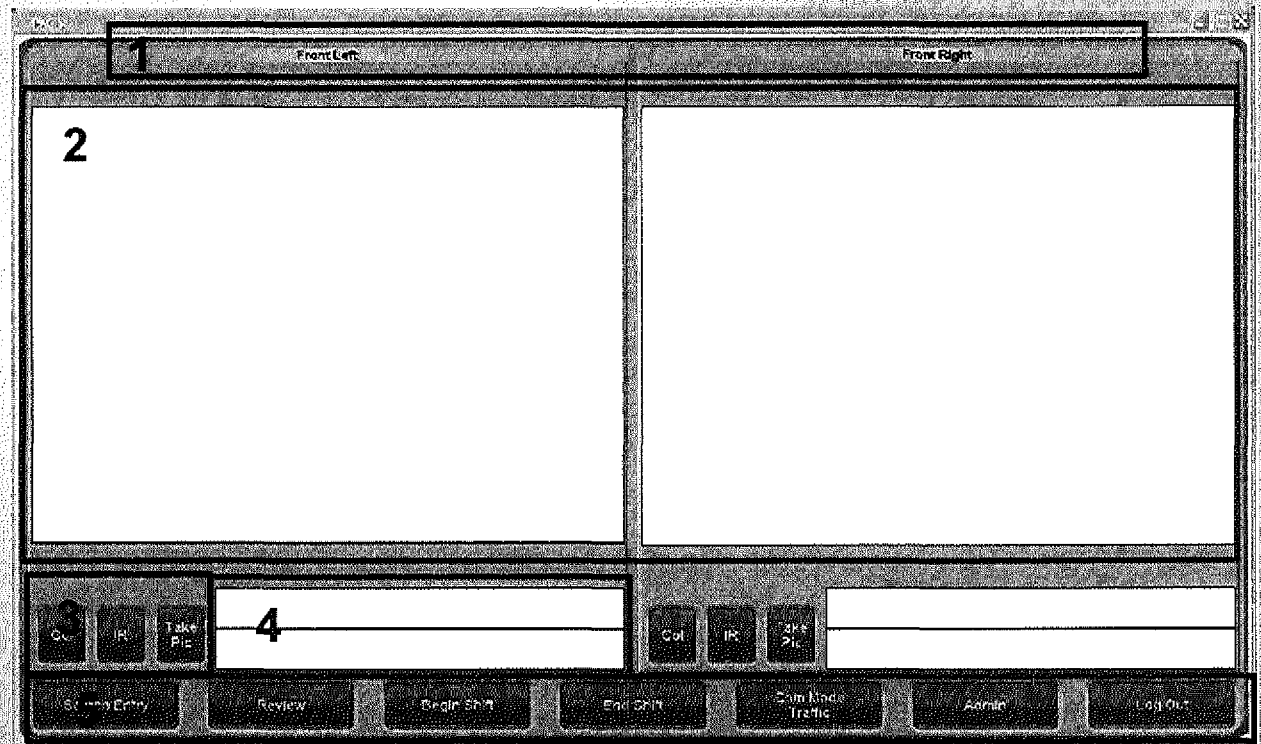
• Press Login to Start PAGIS

Login

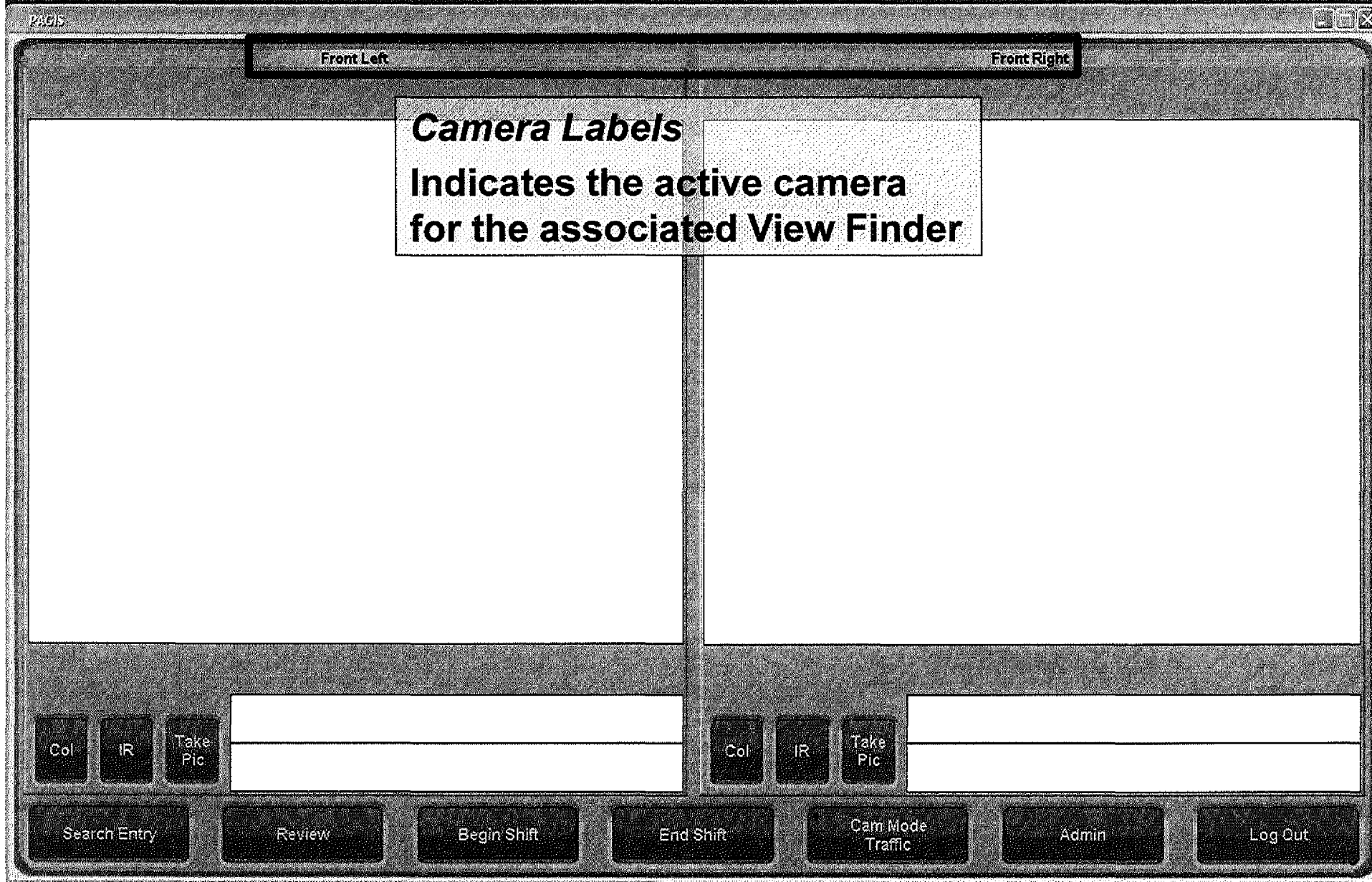
PAGIS – Main Screen

PAGIS – Mobile ALPR software main screen consists of four areas;

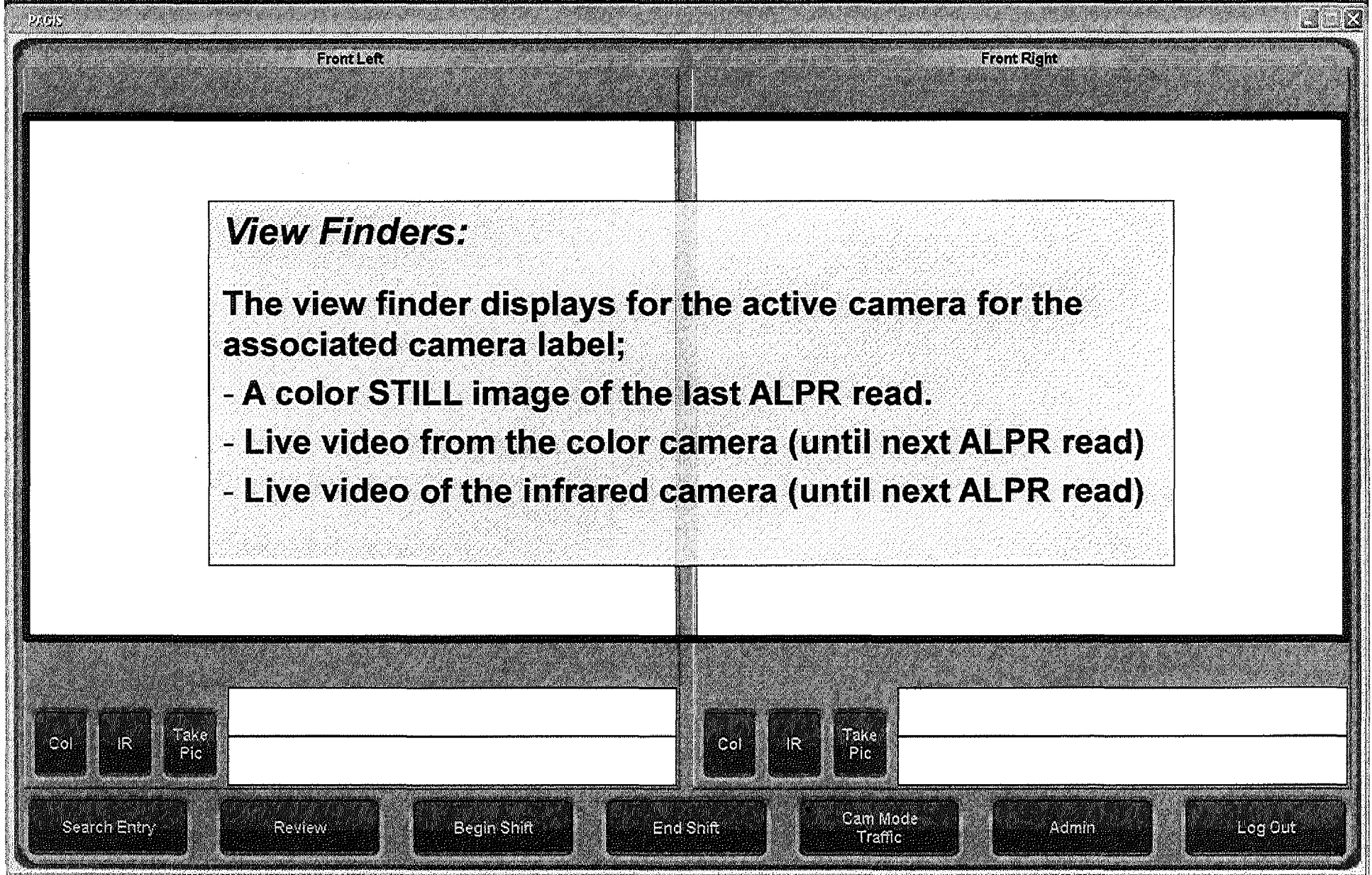
- (1) Camera Labels**
- (2) View Finders**
- (3) Camera Controls**
- (4) OCR/Plate Reads**
- (5) System Controls**



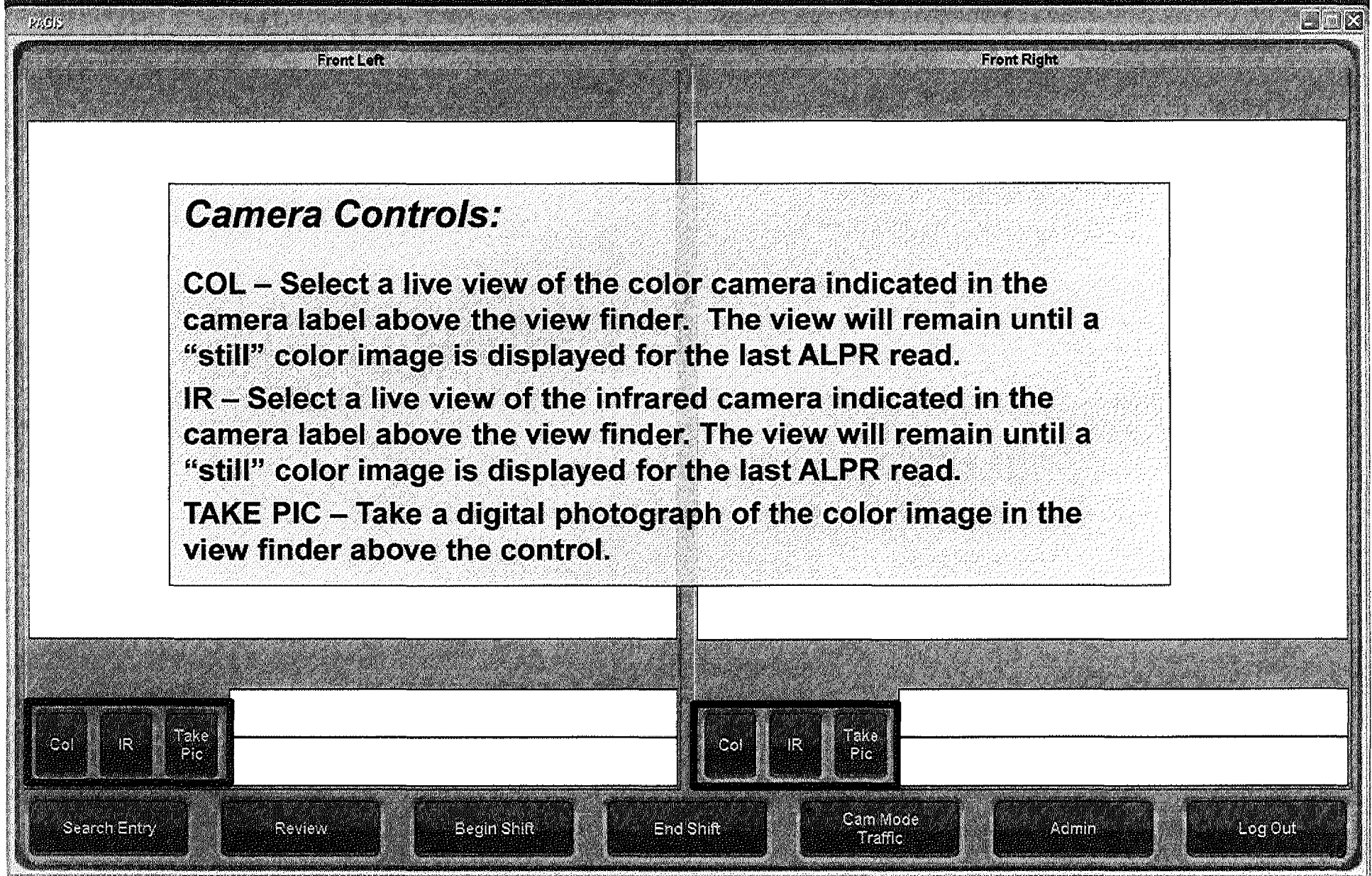
PAGIS - Main Screen



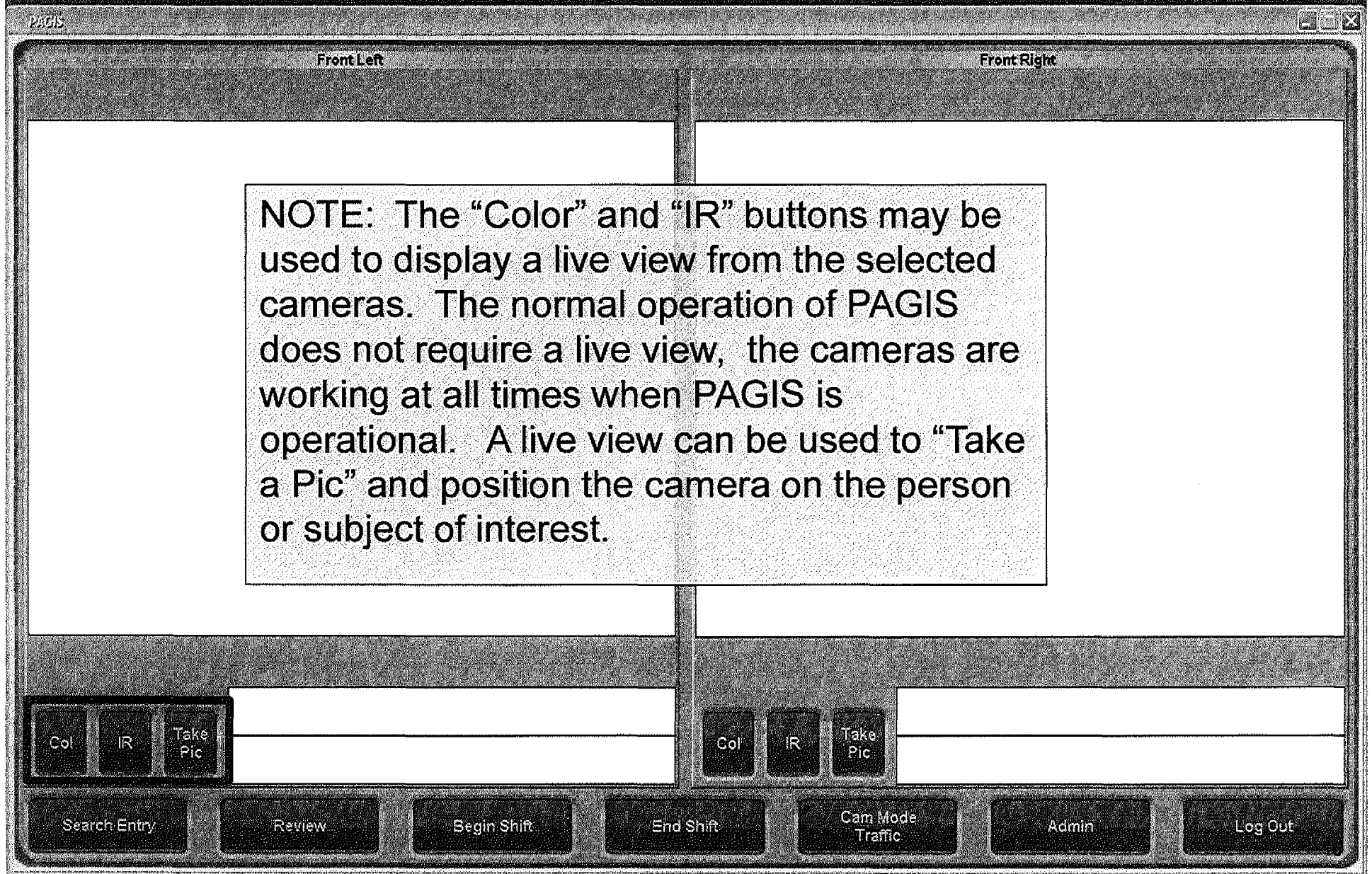
PACS - Main Screen



PAGIS – Main Screen



PAGIS - Main Screen



PAGIS - Main Screen

The screenshot displays the PAGIS Main Screen interface. At the top, the title "PAGIS - Main Screen" is visible. The interface is divided into two main sections: "Front Left" and "Front Right".

Front Left: This section contains a live video feed of a dark-colored car, likely a sedan, parked in a lot. The license plate is visible and reads "SMC 760". Above the video feed, the label "Front Left" is displayed.

Front Right: This section contains a text box with the following information:

Camera Controls:

COL – Select a live view of the color camera indicated in the camera label above the view finder. The view will remain until a “still” color image is displayed for the last ALPR read.


Below the video feeds, there are two sets of control buttons. The left set includes buttons for "Col", "IR", and "Take Pic". The right set includes buttons for "Col", "IR", and "Take Pic".

At the bottom of the interface, there is a row of navigation buttons: "Search Entry", "Review", "Begin Shift", "End Shift", "Cam Mode Traffic", "Admin", and "Log Out".

PAGIS - Main Screen

PAGIS

Front Left



Front Right

Camera Controls:

IR – Select a live view of the infrared camera indicated in the camera label above the view finder. The view will remain until a “still” color image is displayed for the last ALPR read.

Col IR Take Pic

Col IR Take Pic

Search Entry Review Begin Shift End Shift Cam Mode Traffic Admin Log Out

PAGIS - Main Screen

PAGIS

Front Left

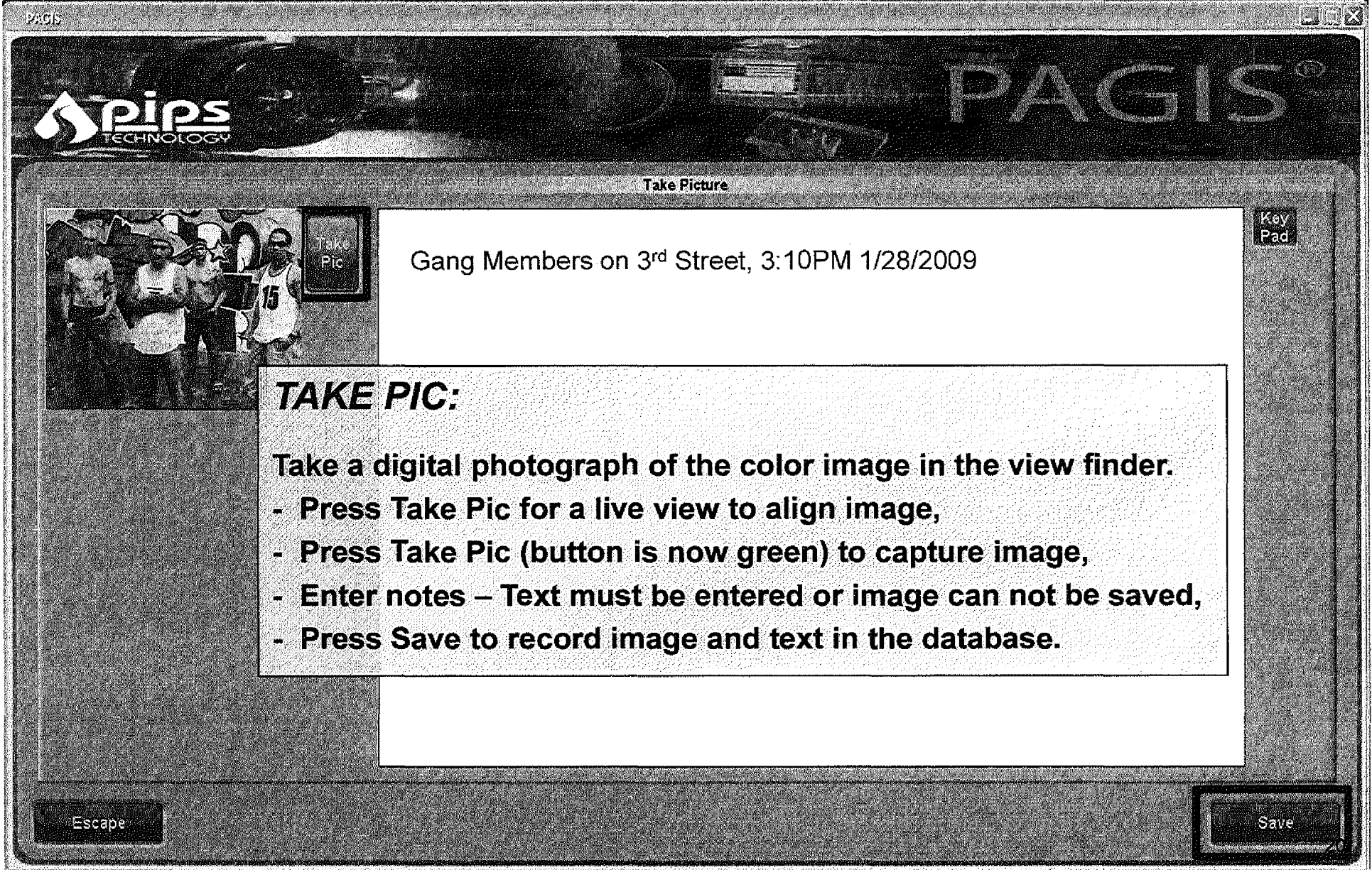
Front Right

Col IR Take Pic

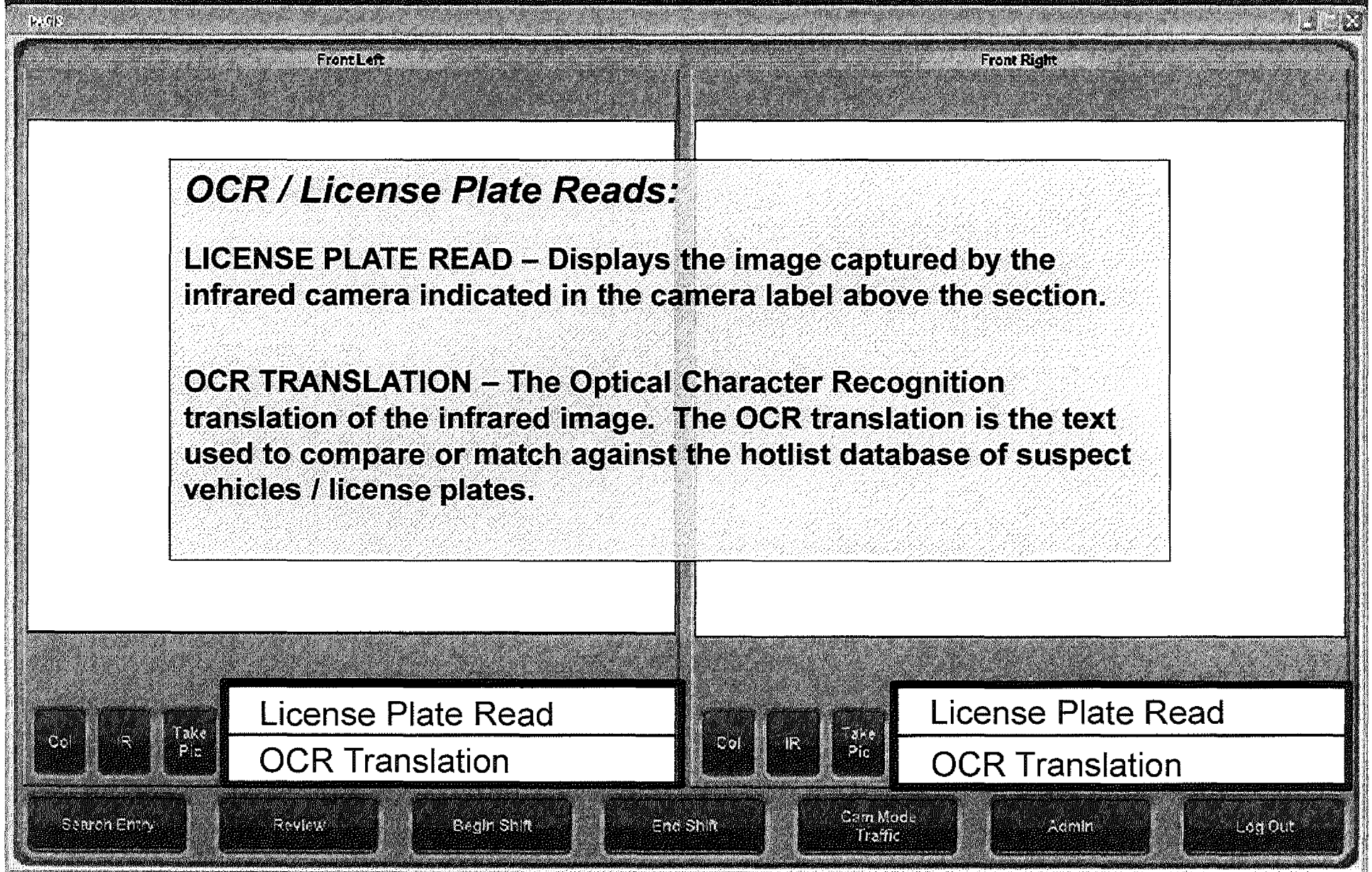
Col IR Take Pic

Search Entry Review Begin Shift End Shift Cam Mode Traffic Admin Log Out

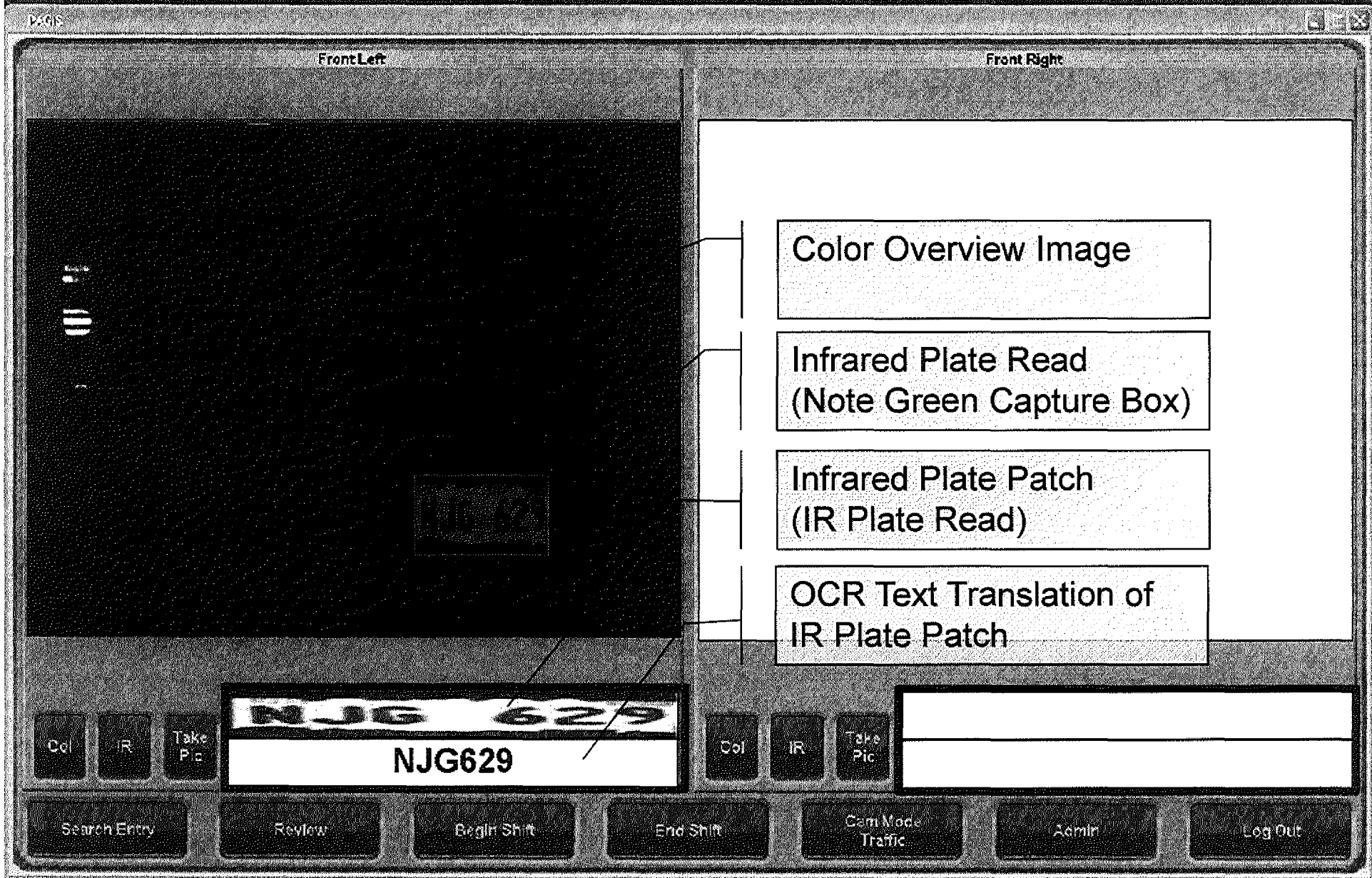
PAGIS – Main Screen Overview



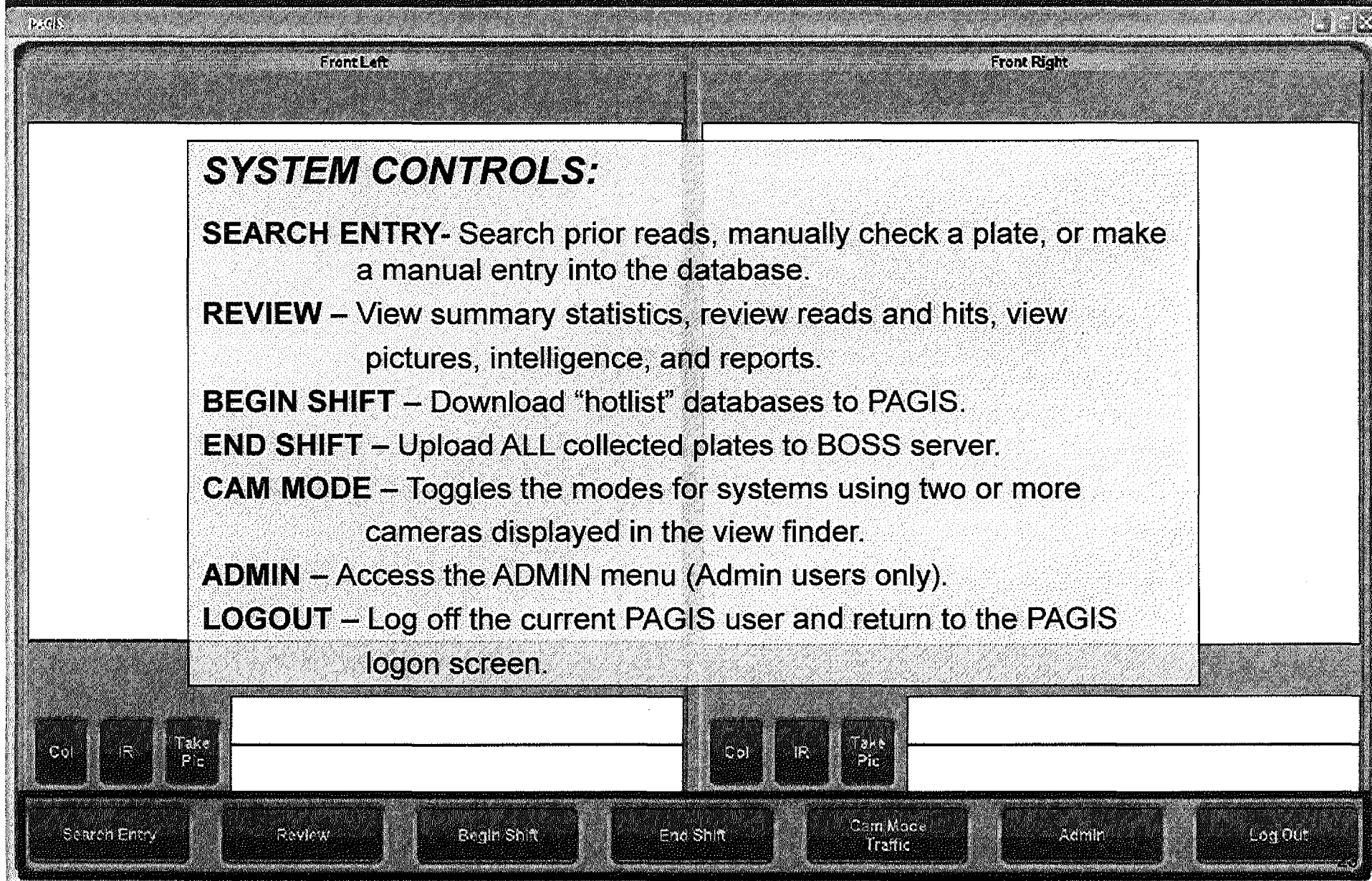
PAGIS - Main Screen Overview



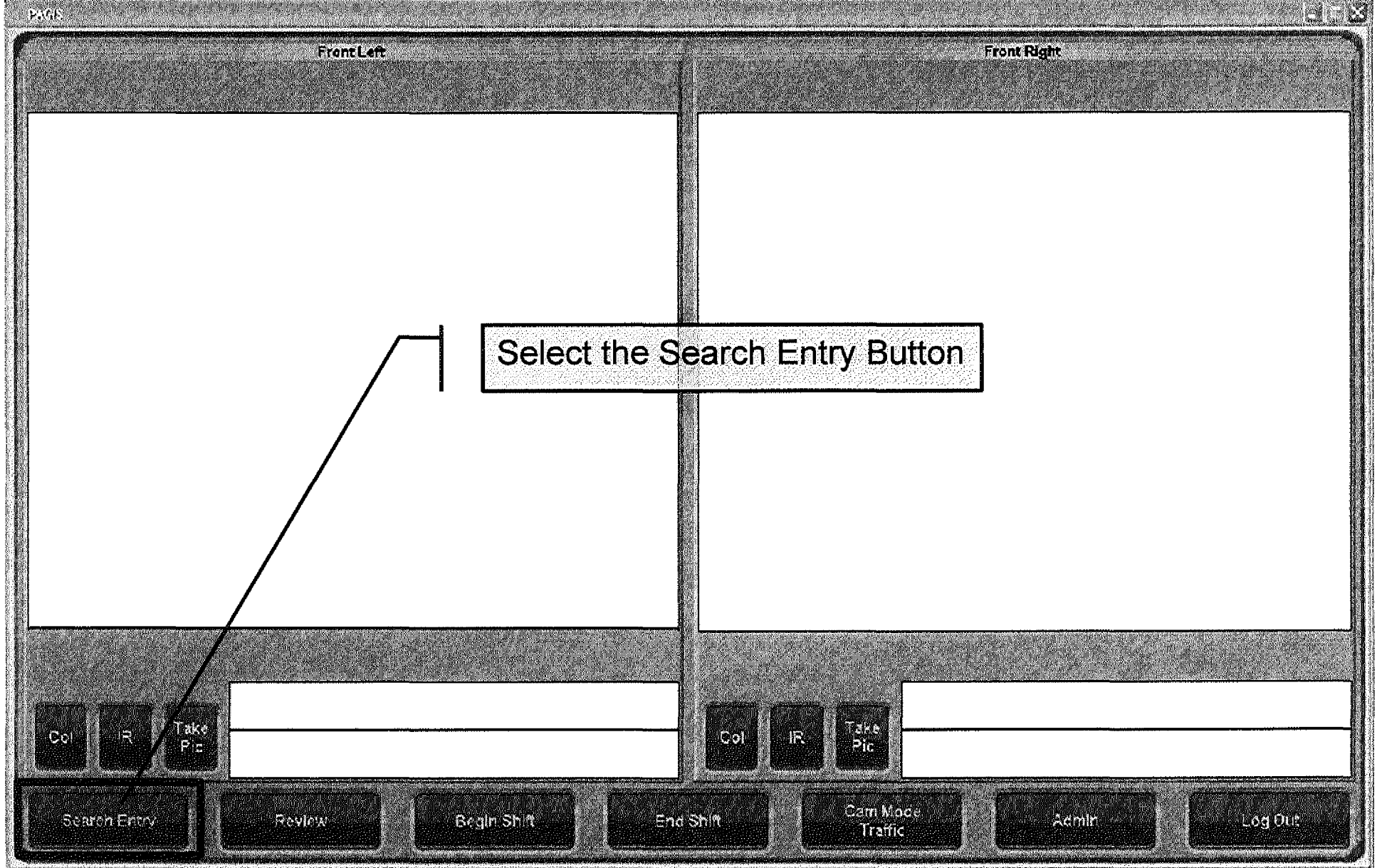
PAGIS - Main Screen Overview



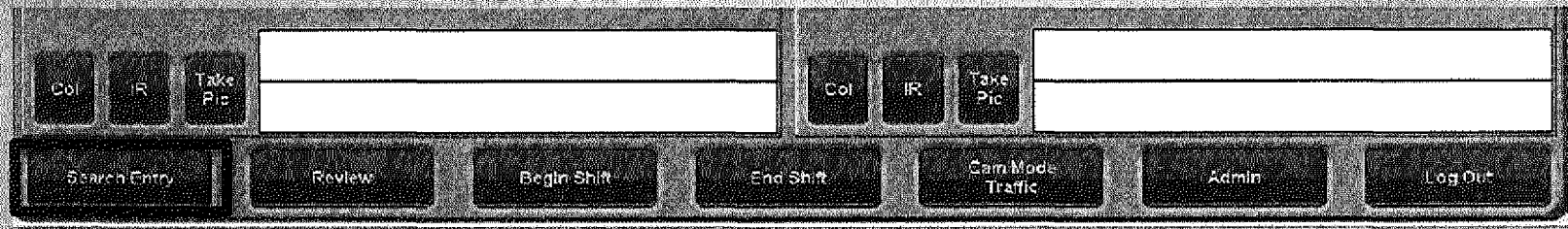
PAGIS – Main Screen Overview



PACIS - Operator Controls - Search Entry



PAGIS - Operator Controls - Search Entry



A suspect license plate number may be searched manually;

1. Search a license plate number against plates collected during the current shift by this ALPR vehicle. Each license plate read is stored in PAGIS until transferred to BOSS with an End Shift. The collected plates can be searched manually.
2. Search a license plate number against the hotlist in PAGIS, OR
3. Add a license plate number to the internal PAGIS hotlist to search for a vehicle with the ALPR system, a BOLO or Amber Alert would be a good way to use this function.



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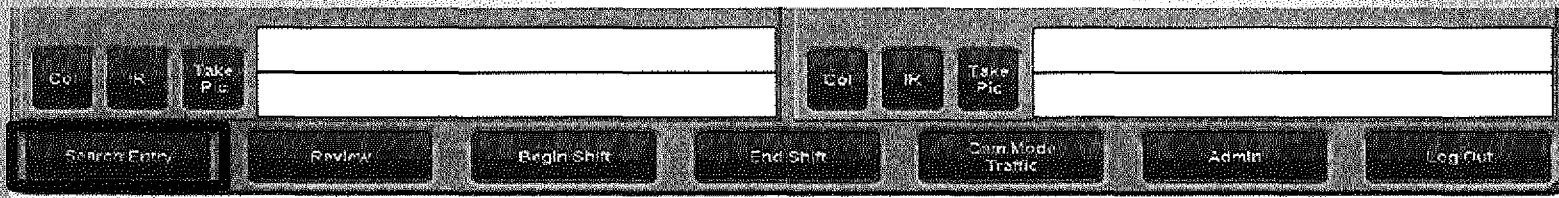
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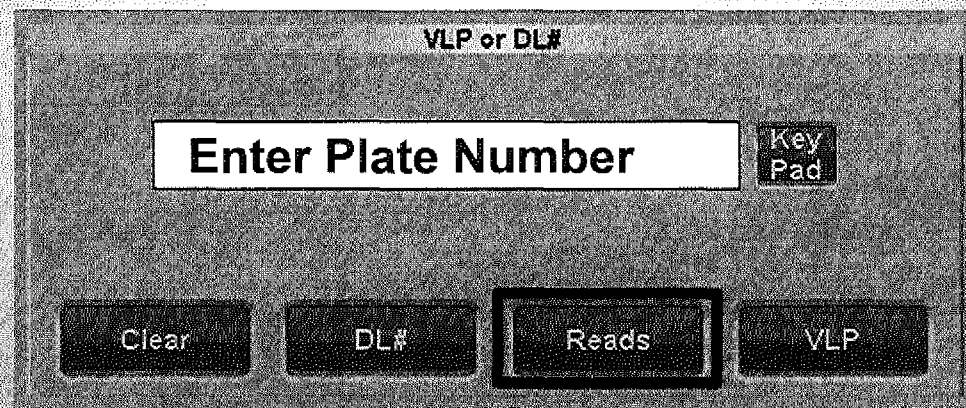
PAGIS : Operator Controls - Search Entry

To search a license plate number against plates collected during the current shift by the ALPR vehicle.

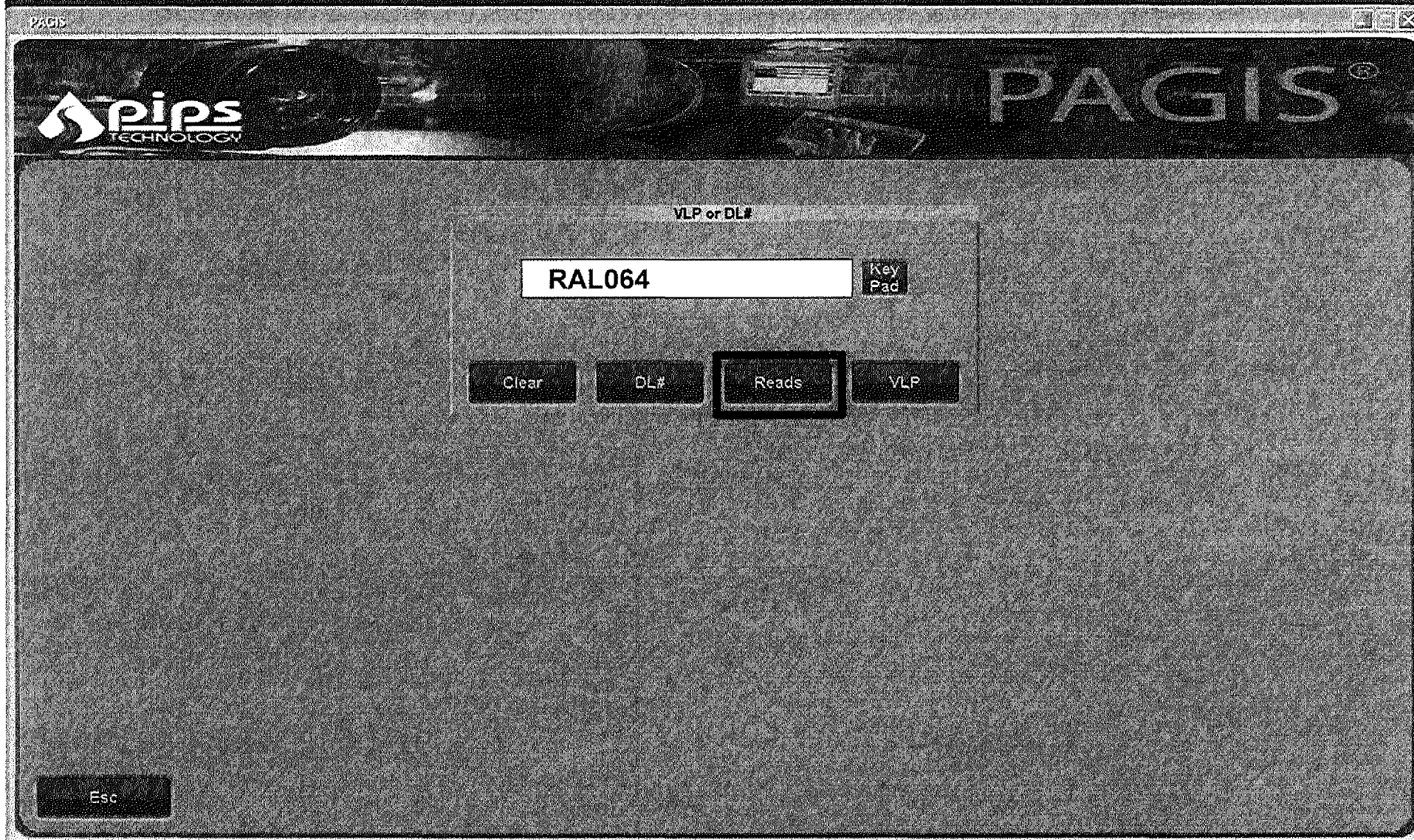
- Select “Search Entry” on the lower left side of the capture screen.



- On the search screen, enter the license plate number and select “Reads”.



PAGIS Operator Controls - Search Entry



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PAGIS - Operator Controls - Search Entry - Reads

PAGIS

Front Left

Read

Hit

35.391657, 04.437493

1/29/2009 5:02:56 PM

Add Intel

Mis Read

Active Camera for ALPR capture

RAL 064 RAL064

Prev DB

Next DB

3rd Day

Jump

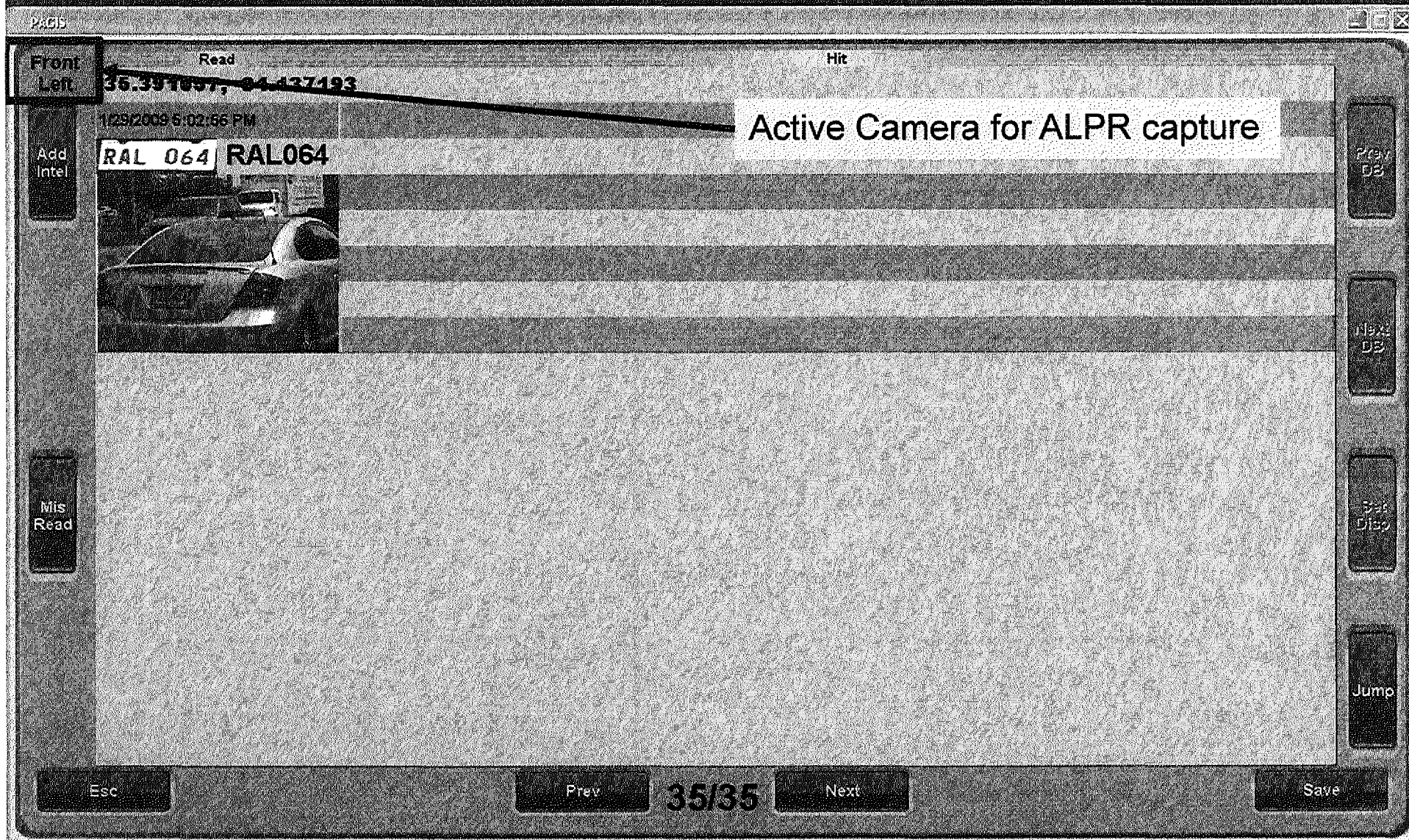
Esc

Prev

35/35

Next

Save



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PAGE Operator Controls - Search Entry - Reads

The screenshot displays the PIPS Operator Controls interface. At the top, the title bar reads "PAGE Operator Controls - Search Entry - Reads". The main window contains a "Front Left" view of a vehicle with the following data:

- Read: **35.391057, -84.137193** (indicated as "Active Camera for ALPR capture" and "GPS Coordinates")
- Hit: **RAL 064 | RAL064**
- Timestamp: 11/29/2008 6:02:35 PM

The interface includes several control buttons:

- Left sidebar: "Add Intel", "Mis Read"
- Right sidebar: "Prev DB", "Next DB", "Set Disp", "Jump"
- Bottom bar: "Esc", "Prev", "35/35", "Next", "Save"

PACIS: Operator Controls - Search Entry - Reads

The screenshot displays the PACIS software interface. At the top, the window title is 'PACIS'. Below the title bar, the interface is divided into several sections:

- Front Left:** Displays the license plate number **35.391057, -84.137193**.
- Read:** Shows the license plate number **RAL 064** and **RAL064**.
- Hit:** Shows the license plate number **RAL 064**.
- Image:** A photograph of a white car with the license plate **RAL 064**.
- Callout Box:** A white box with a black border containing the text: **Active Camera for ALPR capture**, **GPS Coordinates**, and **Date and Time Stamp**. An arrow points from this box to the top-left corner of the image area, where a small black box contains the text **1/29/2009 5:02:55 PM**.

On the left side of the interface, there are buttons for **Add Intel** and **Mis Read**. On the right side, there are buttons for **Prev DB**, **Next DB**, **See Disp**, and **Jump**. At the bottom, there are buttons for **Esc**, **Prev**, **35/35**, **Next**, and **Save**.

PAIS - Operator Controls - Search Entry - Results

The screenshot displays the PAIS Operator Controls interface. At the top, the title bar reads "PAIS - Operator Controls - Search Entry - Results". The main window shows a search result for license plate "RAL 064". The interface includes several control buttons: "Front Left", "Add Intel", "Mis Read", "Prev DB", "Next DB", "Save Disp", and "Jump". The search results are displayed in a table with columns for "Front Left", "Read", and "Hit". The "Read" column shows the license plate number "RAL 064" and a date and time stamp "1/29/2009 5:02:55 PM". The "Hit" column shows the license plate number "RAL064". A callout box points to the "Hit" column, listing the following information: "Active Camera for ALPR capture", "GPS Coordinates", "Date and Time Stamp", and "IR 'Plate Patch' from ALPR". The bottom of the interface features a navigation bar with buttons for "Esc", "Prev", "Next", and "Save", along with a page indicator "35/35".

Front Left	Read	Hit
	35.391957, -84.137193 1/29/2009 5:02:55 PM RAL 064	RAL064

Active Camera for ALPR capture
GPS Coordinates
Date and Time Stamp
IR "Plate Patch" from ALPR

Esc Prev 35/35 Next Save

PAQIS - Operator Controls - Search Entry - Reads

The screenshot displays the PAQIS Operator Controls interface. At the top, the title bar reads "PAQIS - Operator Controls - Search Entry - Reads". The main window is titled "Read" and shows a "Hit" for license plate "RAL 064". The interface includes a camera view of a car with the license plate "RAL 064" highlighted. A callout box points to the license plate with the following text:

- Active Camera for ALPR capture
- GPS Coordinates
- Date and Time Stamp
- IR "Plate Patch" from ALPR
- OCR Translation of "Plate Patch"

The interface also features several control buttons: "Front Left", "Add Intel", "Mis Read", "Prev DB", "Next DB", "Stop Display", "Jump", "Esc", "Prev", "Next", and "Save". The status bar at the bottom shows "35/35".

PAQIS - Operator Controls - Search Entry - Results

PAQIS


Front Read Hit

Left **35.391057, -84.137193**

1/29/2009 5:02:56 PM

Add Intel

RAL 064 RAL064



Mis Read

Active Camera for ALPR capture

GPS Coordinates

Date and Time Stamp

IR "Plate Patch" from ALPR

OCR Translation of "Plate Patch"

Color Camera "Overview" Image

Prev DB

Next DB

Set Display

Jump

Esc

Prev 35/35 Next

Save



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PAGIS - Operator Controls - Search Entry - Reads

The screenshot displays the PAGIS Operator Controls interface. At the top, it shows 'Front Left' and 'Read' status. The main display area contains a list of search results for license plate reads. The first result is highlighted and includes the following information:

- GPS Coordinates: 35.391057, -84.137193
- Date and Time Stamp: 1/29/2009 6:02:56 PM
- IR "Plate Patch" from ALPR: RAL 064 RAL064
- OCR Translation of "Plate Patch": RAL 064 RAL064
- Color Camera "Overview" Image: A small image of a car.
- Text - None assigned for Reads

Two arrows point from the text labels on the right to the corresponding data fields in the search result. The interface also features a sidebar with buttons for 'Add Intel', 'Mis Read', 'Prev DB', 'Next DB', 'Set Disp', and 'Jump'. At the bottom, there are buttons for 'Esc', 'Prev', 'Next', and 'Save', along with a page indicator '35/35'.

PAOS - Operator Controls - Search Entry - Reads


PAOS

Front Read Hit

Left **35.391057, -84.137193**

1/29/2009 5:02:56 PM

RAL 064 RAL064



Mark this Read as a Misread – indicating the IR “Plate Patch” Does not match the OCR Translation.

Mis Read

Prev 05

Next 05

3 of 100

Jump

Esc Prev 35/35 Next Save

PAGIS - Operator Controls - Search Entry - Reads

PAGIS

Front Read Hit
Left 35.391957, -34.137193

1/29/2009 6:02:56 PM

Add Intel

Mis Read

RAL 064 RAL064

Click on the OCR Translation to edit the text, if desired. After editing the text, Click Save.

Prev DB

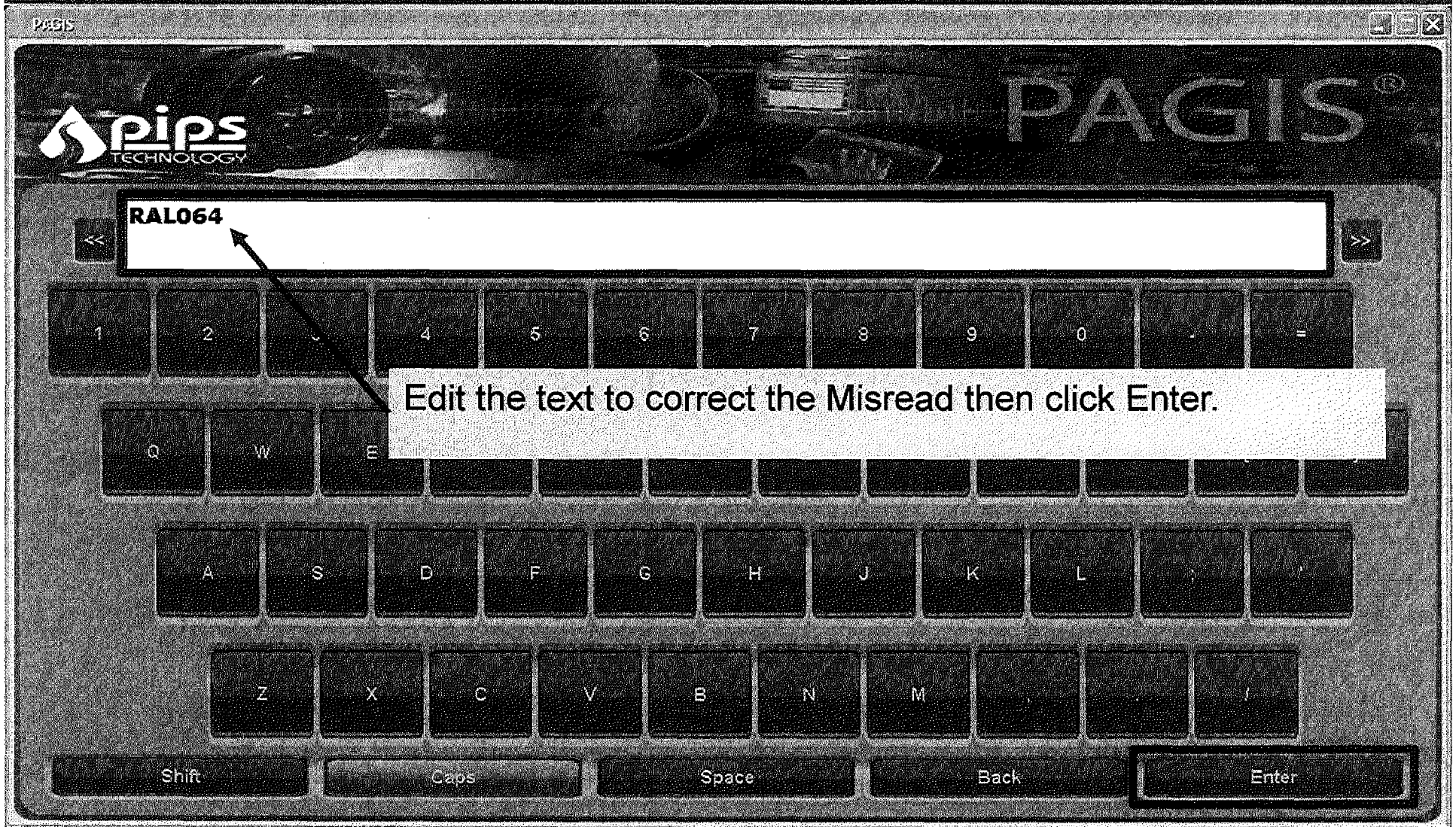
Next DB

Set Disp

Jump

Esc Prev 35/35 Next Save

PAGIS - Operator Controls - Search Entry - Reads



**PIPS
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*the most advanced license plate
recognition systems in the world*

PACIS - Operator Controls - Search Entry - Reads

The screenshot displays the PACIS Operator Controls interface. At the top, the window title is "PACIS - Operator Controls - Search Entry - Reads". The main area shows search results for license plate "RAL 064". The results include a photograph of a car and the text "RAL 064 | RAL064". A white callout box with the text "After editing the text, Click Save." has an arrow pointing to the "Save" button in the bottom right corner of the interface. The interface also features several control buttons: "Add Intel" and "Mis Read" on the left; "Prev DB", "Next DB", "Set Disp", and "Jump" on the right; and "Esc", "Prev", "35/35", "Next", and "Save" at the bottom.



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PACIS Operator Controls - Search Entry - Reads

PACIS

Front Left **35.391057, -84.137193** Read Hit

1/29/2009 6:02:56 PM

RAL 064 RAL064



Add Intel

Mis Read

Prev DB

Next DB

Esc Disp

Jump

Esc

Prev 35/35 Next

Save

To navigate to any read in a sequence of Reads click Jump then Enter the read number you desire to go to.



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PAGIS - Operator Controls - Search Entry - Reads

The screenshot displays the PAGIS Operator Controls interface. At the top, the title bar reads "PAGIS". Below it, the main display area is divided into sections. On the left, there are buttons for "Front Left", "Add Intel", and "MIs Read". The main display area shows the following information:

- Read: **35.391057, -84.137193**
- Hit
- 11/29/2009 5:02:56 PM
- License plate image: **RAL 064 RAL064**

A text box in the center of the screen contains the following text:

Navigate between multiple reads of the same license plate. The numbers (35/35) indicate this is read number 35 of 35 Reads.

At the bottom of the interface, there is a control bar with the following buttons: "Esc", "Prev", "35/35", "Next", and "Save". A triangle is drawn around the "Prev", "35/35", and "Next" buttons, with arrows pointing from the "35/35" button to the "Prev" and "Next" buttons.



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PAGS: Operator Controls - Search Entry - Reads

PAGS

Front Left **35.391057, -84.137193** Read Hit

1/29/2009 5:02:56 PM

Add Intel **RAL 064 RAL064**



Mis Read

Prev DE

Next DE

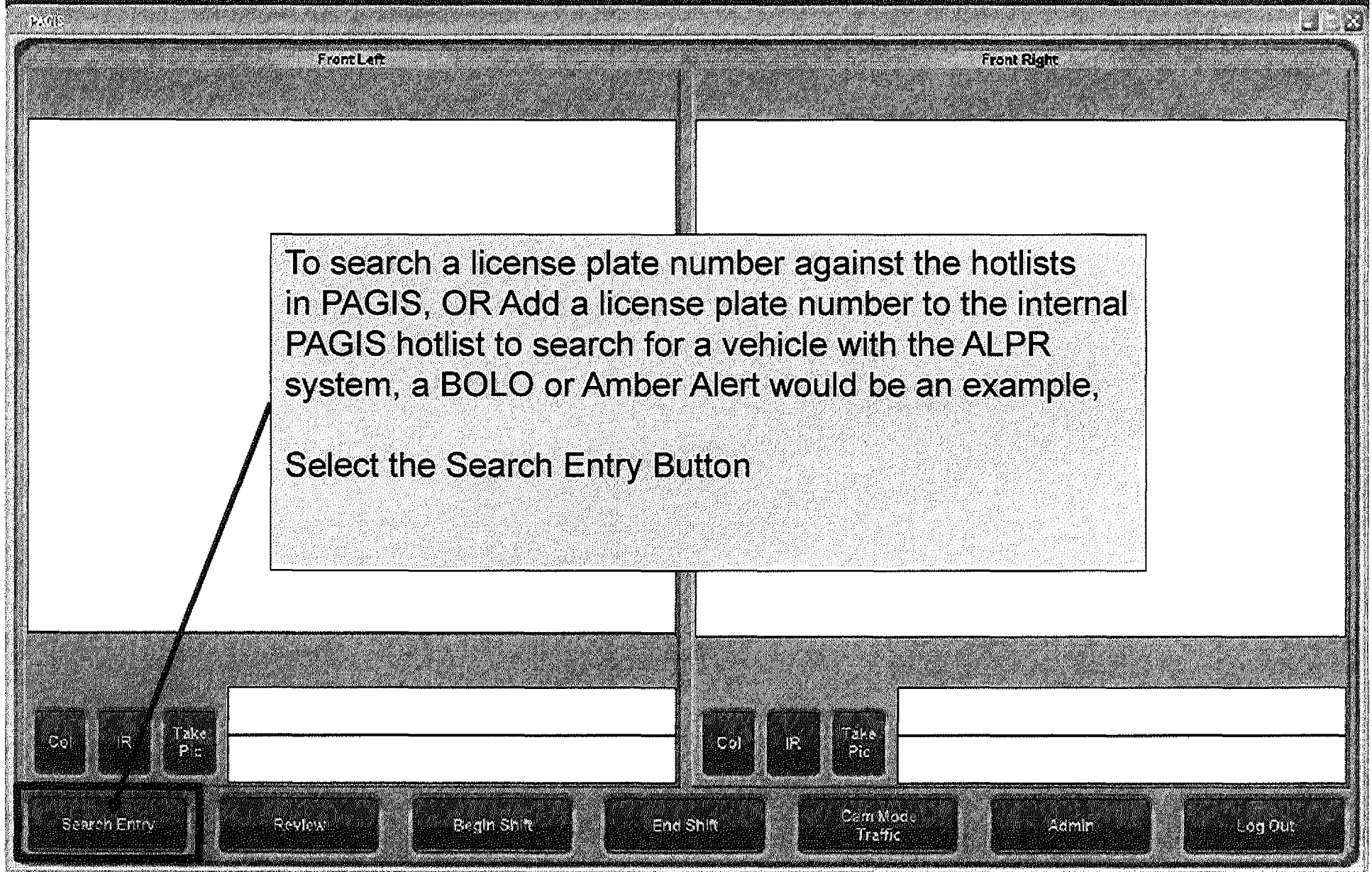
Set Disp

Jump

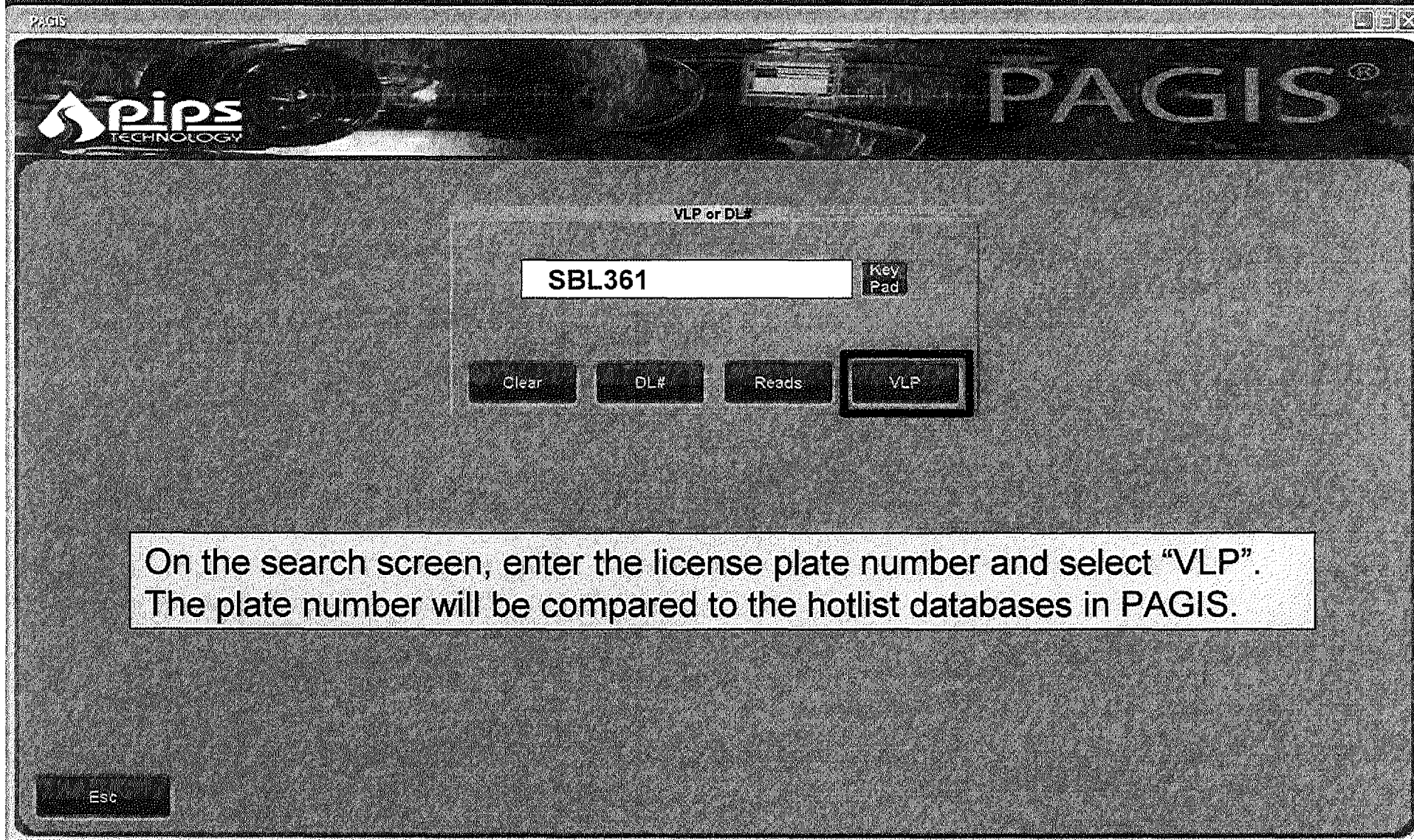
Press ESC to Return to the Previous Screen

Esc Prev 35/35 Next Save

PAGIS - Operator Controls - Search Entry



PAGIS - Operator Controls - Search Entry



PAGIS : Operator Controls - Search Entry

PAGIS

PIPS TECHNOLOGY

PAGIS®

Add VLP Report

SBL361

Amber Alert

Felony

Stolen

Misc

Key Pad

Esc

Save

If no match to the hotlist databases can be found. A License Plate can be added to the local database in this vehicle. Select one of the predefined categories; Amber Alert, Felony, Stolen or Misc. from the buttons.

PAGIS : Operator Controls - Search Entry

PIPS TECHNOLOGY

PAGIS®

Add VLP Report

SBL361

Amber Alert Felony Stolen Misc

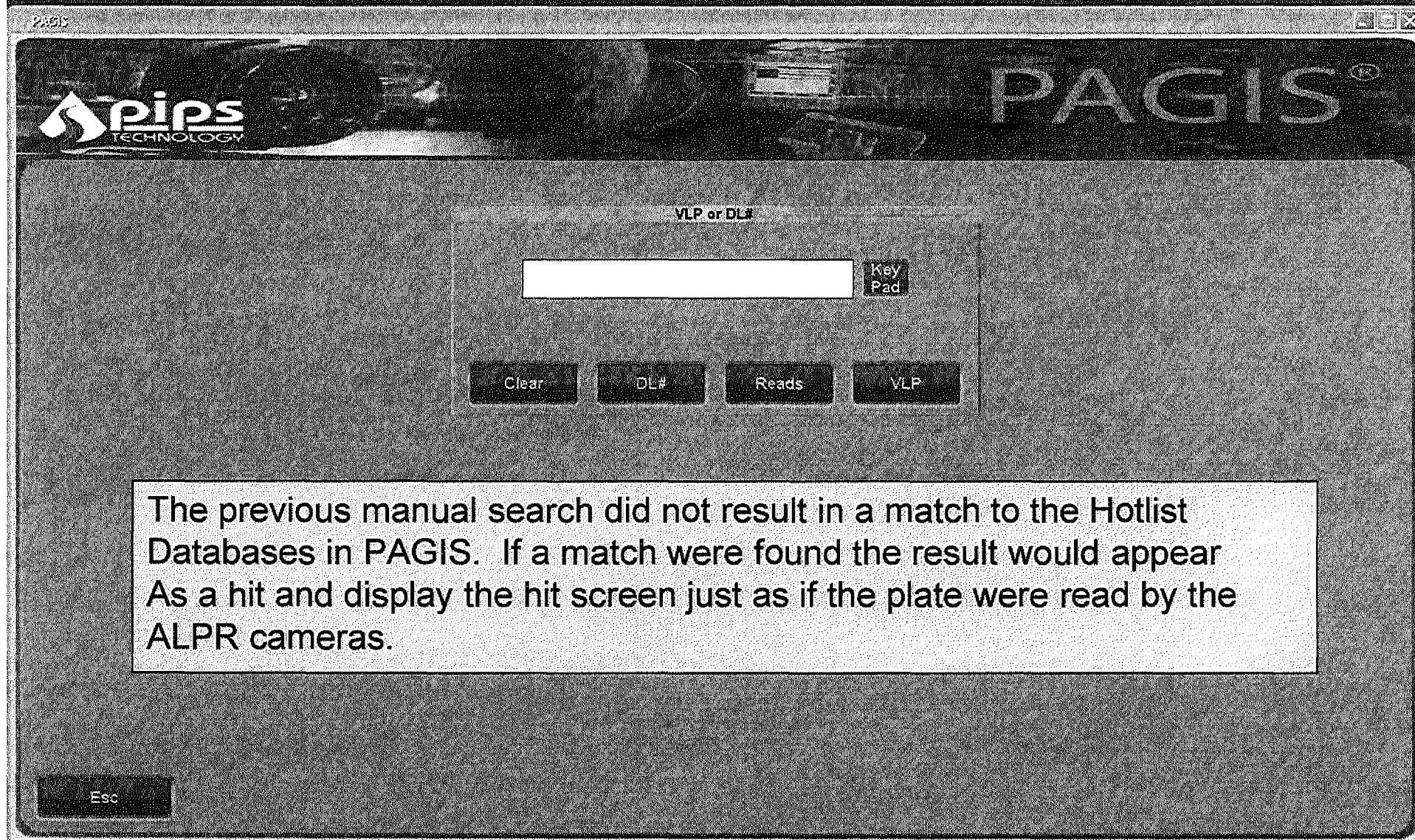
Stolen: SBL361 @ 1/30/2009 2:45:46 PM
Beige, Ford, Taurus, 2001, Federal Wants and Warrants, Lisa Smith is wanted for mail fraud.

Key Pad

Esc Save

Add additional notes then press Save.
The ALPR system is now searching for the plate,
and will provide an alert if the vehicle/plate is
encountered.

PAGIS : Operator Controls - Search Entry



The previous manual search did not result in a match to the Hotlist Databases in PAGIS. If a match were found the result would appear As a hit and display the hit screen just as if the plate were read by the ALPR cameras.

PAGIS - Operator Controls - Search Entry

VLP or DL#

SBL361

Key Pad

Clear DL# Reads VLP

Enter the license plate number and select "VLP".
The plate number will be compared to the hotlist databases in PAGIS.

Esc

PACIS : Operator Controls - Search Entry

PACIS

Front Left 35.391057 - 84.167493

Read 1/29/2009 2:06:37 PM

Hit W300994123

1/2

Active Camera for ALPR capture

SBL 361 SBL361

Belgo

Ford

Taurus

2001

Mis Read

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2006, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Prev DB

Next DB

Set Disp

Jump

Esc Prev 11/17 Next Save



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PACIS : Operator Controls - Search Entry

PAGE

Front Left 35.391057, -84.137193

Hit W300994123

1/2

Active Camera for ALPR capture

GPS Coordinates

Add Intel

SBL 361 SBL361

Ford

Taurus

2001

Mis Read

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Prev DB

Next DB

Set Disp

Jump

Esc Prev 11/17 Next Save

PACIS : Operator Controls - Search Entry

PACIS

Front Left 35.391057, -84.137193 Read Hit W300994123 1/2

1/23/2005 2:08:37 PM

SBL 361 SBL361

Active Camera for ALPR capture
GPS Coordinates
Date and Time Stamp

2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2006, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$386,000

Esc Prev 11/17 Next Save

Buttons: Add Intel, Mis Read, Prev DB, Next DB, Set Disp, Jump

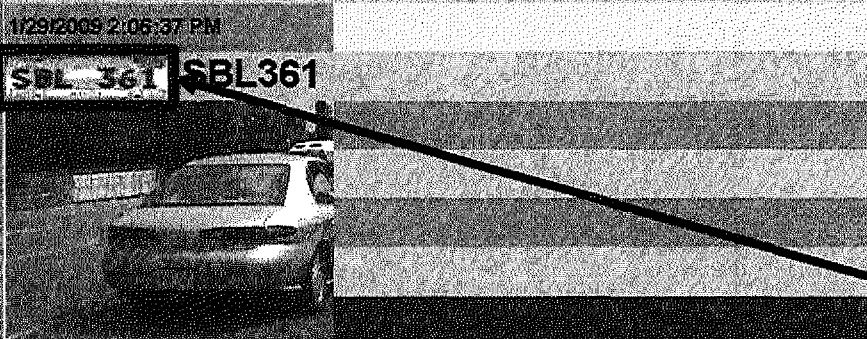
PAGIS - Operator Controls - Search Entry

PAGIS

Front Left 35.391057, -84.137193 Read Hit W300994123 1/2

1/29/2009 2:06:37 PM

Add Intel



Active Camera for ALPR capture
GPS Coordinates
Date and Time Stamp
IR "Plate Patch" from ALPR

Mis Read

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Prev DB Next DB Set Disp Jump

Esc Prev 11/17 Next Save



**PIPS
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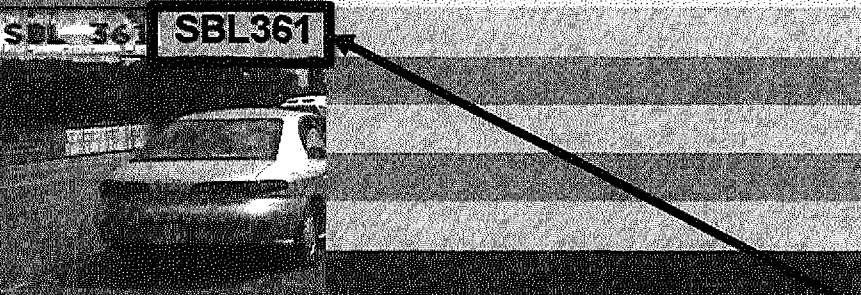
PACIS - Operator Controls - Search Entry

PACIS

Front Left 35.391057, -84.137193 Read Hit W300994123 1/2

1/29/2009 2:05:37 PM

Add Intel



SBL 361 SBL361

Active Camera for ALPR capture
GPS Coordinates
Date and Time Stamp
IR "Plate Patch" from ALPR
OCR Translation of "Plate Patch"

Mis Read

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2009, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Next DB

Set Disp

Jump

Esc Prev 11/17 Next Save

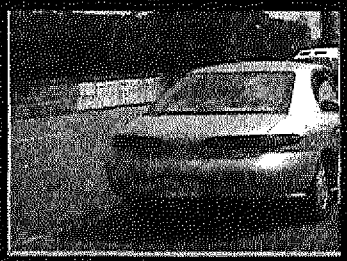
PAGIS - Operator Controls - Search Entry

PAGE

Front Read Hit
Left 35.391057, -84.137193 W300994123 1/2

1/29/2009 2:05:37 PM

Add Intel **SBL 361 SBL361**



- Active Camera for ALPR capture
- GPS Coordinates
- Date and Time Stamp
- IR "Plate Patch" from ALPR
- OCR Translation of "Plate Patch"
- Color Camera "Overview" Image

Mis Read

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and business involved using the Internet and telephones to find loans for small business. Smith allegedly used altered vehicle titles and other deceptive means to defraud the Virginia of approximately \$385,000.

Esc Prev 11/17 Next Save

Prev DB Next DB Set Disp Jump

PAGIS : Operator Controls - Search Entry

PAGIS

Front Left 35.391057, -84.137193

Read 1/29/2009 2:06:37 PM

Hit W300994123

FBI MOST WANTED

SBL361

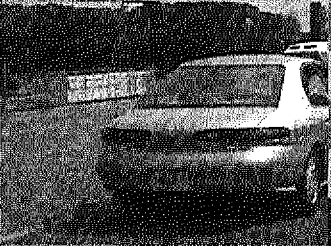
Beige

Ford

Taurus

3601

SBL 361 SBL361



Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Name of Hotlist Database

1/2

Prev DE

Next DE

Set Disp

Jump

Esc Prev 11/17 Next Save

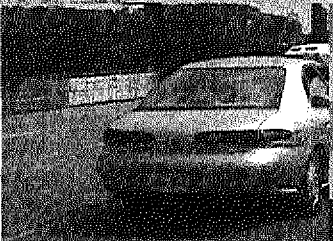
PAGE Operator Controls - Search Entry

PAGE

Front	Read	Hit
Left	35.391057, -94.137193	W300994123

1/29/2005 2:05:37 PM

FBI MOST WANTED

SBL 361 SBL361	SBL361
	Belge
	Ford
	Taurus
	2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Name of Hotlist Database
Information from hotlist database

Esc Prev 11/17 Next Save

1/2
Prev DB
Next DB
Set Disp
Jump

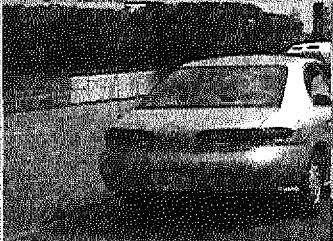
PACIS - Operator Controls - Search Entry

PACIS

Front	Read	Hit
Left	35.391057, -84.137193	W300994123

1/29/2009 2:05:37 PM

SBL 361 SBL361



FBI MOST WANTED

SBL361

Belge

Ford

Taurus

2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2006, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Name of Hotlist Database

Information from hotlist database

Notes from hotlist database

Esc Prev 11/17 Next Save

1/2

Add Intel

Mis Read

Prev DB

Next DB

Set Disp

Jump

PACIS : Operator Controls - Search Entry

PACIS

Front Read Hit
Left 35.391057, -84.137193 W300994123

1/29/2009 2:06:37 PM

FBI MOST WANTED

SBL 361 SBL361 SBL361

ADD Intel: Add information to the Note field below

Taurus
2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

1/2

Add Intel

Prev DB

Next DB

Set Disp

Jump

Mis Read

Esc Prev 11/17 Next Save

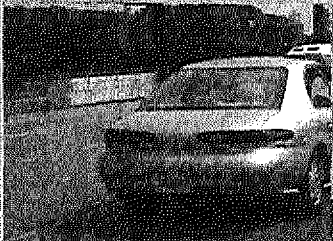
PACIS : Operator Controls - Search Entry

PACIS

Front	Read	Hit
Left	35.391057, -84.137193	W300994123

1/29/2009 2:06:37 PM

SBL 361 SBL361



FBI MOST WANTED

SBL361
Belge
Ford
Taurus
2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000.

Set Disposition : Select the disposition (status) of the Hit

Esc Prev 11/17 Next Save

Buttons: Add Intel, Mis Read, Prev DB, Next DB, Set Disp, Jump

PAOS Operator Controls – Set Disposition

PAOS

Front Left

Add Intel

Mis Read

Unknown

Parked

Occupied

Ticketed

Misread- Wrong State

New

Hit
W300994123

FBI MOST WANTED

SBL361

Beige

Ford

Faurus

2001

1/2

Prev DB

Next DB

Set Disp

Jump

Save

Esc

Prev 11/17 Next

ud. In 2005 Smith, Smith allegedly used altered vehicle titles and ot, 0

Set Disposition : Select the disposition (status) of the Hit From the drop down menu, then click Save.

The Disposition is saved to the database for use in the BOSS software.

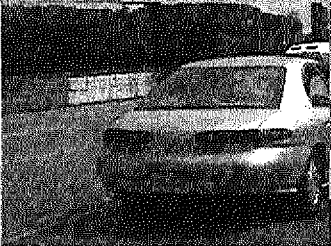
PAGIS - Operator Controls - Search Entry

PAGIS

Front	Read	Hit
Left	35.391057, -84.137193	W300994123

1/29/2009 2:45:37 PM

FBI MOST WANTED

SBL 361 SBL361	SBL361
	Beige
	Ford
	Taurus
	2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

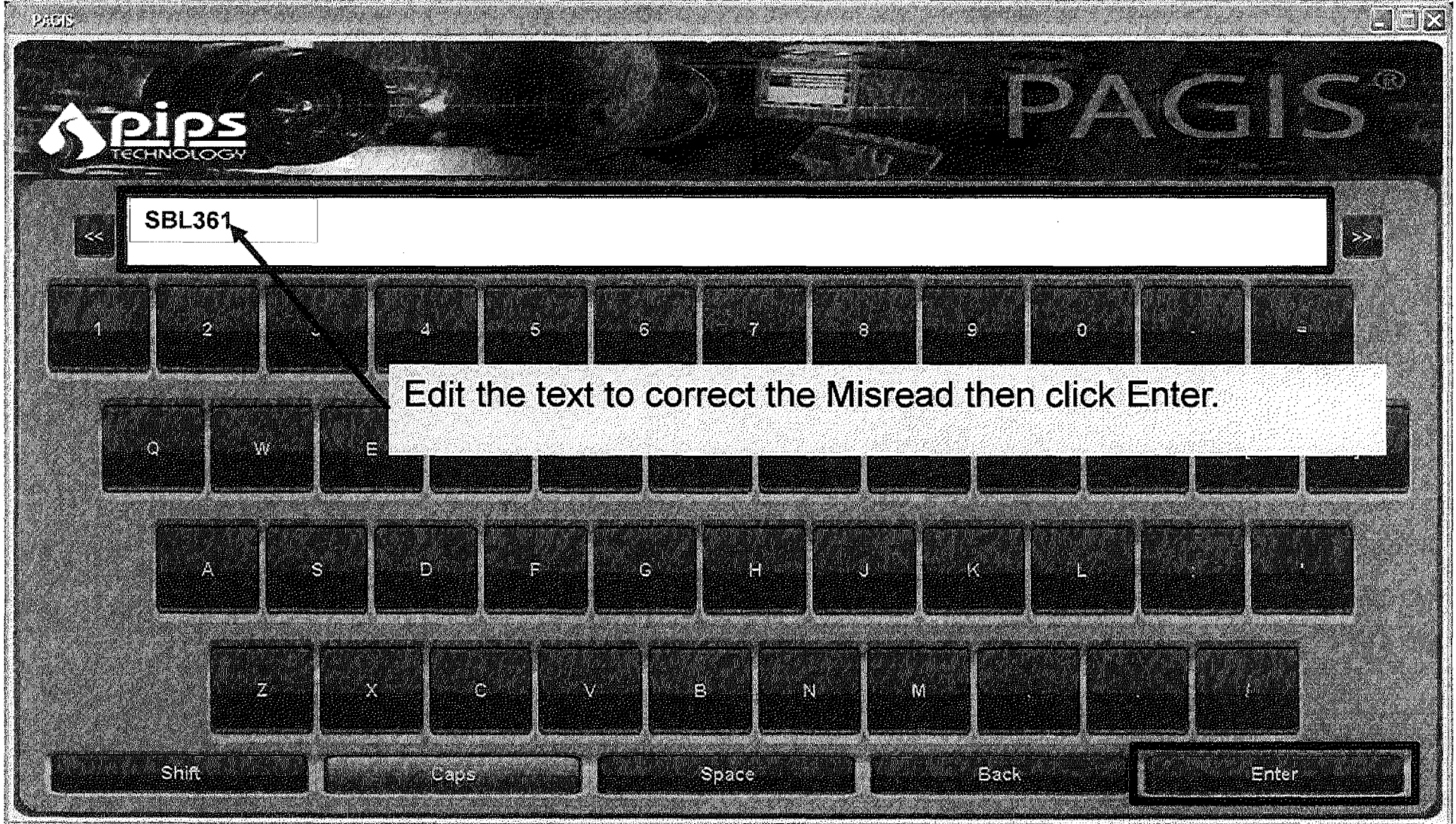
Mis Read

Misread: Mark a Read/Hit to indicate a misread plate

Esc Prev 11/17 Next Save

Prev DB Next DB Set Disp Jump

PAGIS - Operator Controls - Search Entry - Reads



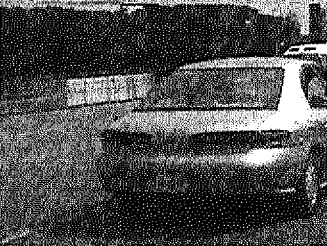
PAGE 3 - Operator Controls - Search Entry

PAGE 3

Front	Read	Hit
Left	35.391057, -84.137193	W300994123

1/29/2009 2:06:37 PM

SBL 361 SBL361



FBI MOST WANTED

SBL361
Beige
Ford
Taurus
2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

After editing the text, Click Save.

Esc Prev 11/17 Next Save

Buttons: Add Intel, Mis Read, Prev DB, Next DB, Set Disp, Jump

PAGIS : Operator Controls - Search Entry

Front Read Hit

Left 35.391057, -84.137193

1/29/2009 2:06:37 PM

SBL 361 SBL

2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

1/2

Prev DB

Next DB

Set Disp

Jump

Esc Prev 11/17 Next Save

PAGIS : Operator Controls - Search Entry

Front Left 35.391057, -84.137193

Read 1/29/2009 2:06:37 PM

Hit

SBL 361 SBL

Lisa Smith is wanted for a business involved using the internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

1/2

Prev DB

Next DB

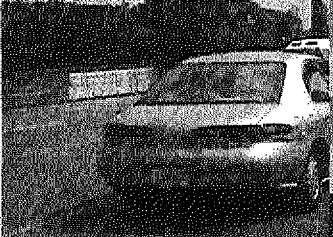
Set Disp

Jump

Esc Prev 11/17 Next Save

PAGIS Operator Controls - Search Entry

PAGIS

Front	Read	Hit	1/2
Left	35.391057, -84.137193	W300994123	
	1/29/2009 2:06:37 PM	FBI MOST WANTED	
Add intel	SBL 361 SBL361	SBL361	Prev DB
		Beige	
		Ford	
		Taurus	
		2001	Next DB
Mis Read	Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000.		
	Jump: Navigate to an exact record number.		
Esc	Prev	11/17	Next
			Save
			Jump

PAGIS : Operator Controls - Search Entry

PAGIS

Front Left 35.391057, -84.137193

Read

Hit W300994123

1/29/2009 2:06:37 PM

FBI MOST WANTED

SBL 361 SBL361

SBL361

Beige

Ford

Taurus

2001

1/2

Prev DB

Next DB

Set Disp

Jump

Mis Read

Esc

Prev 11/17 Next

Save

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000.

Navigate between multiple hotlist database matches by Selecting Previous or Next. The number of matches is Displayed as;

Current Match (Hit) / Total Number of Matches(Hits)

PAGIS - Operator Controls - Search Entry

PAGIS

Front Left 35.391057, -84.137193

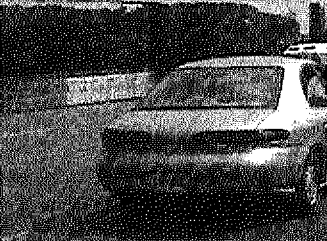
Read 1/29/2009 2:06:37 PM

Hit W300994123

1/2

FBI MOST WANTED

SBL 361 SBL361



SBL361
Beige
Ford
Taurus
2001

Lisa Smith is wanted for mail fraud. In 2005 Smith operated her business Smith and Associates from her apartment in Highland Beach Florida. Her business involved using the Internet and telephones to find loans for small business owners wanting to purchase or lease trucks and trailers. In 2005, Smith allegedly used altered vehicle titles and other deceptive means to defraud businesses and truck drivers in Wyoming Pennsylvania Illinois and Virginia of approximately \$385,000

Press ESC to return to the previous screen.

Esc Prev 11/17 Next Save

Add Intel

Mis Read

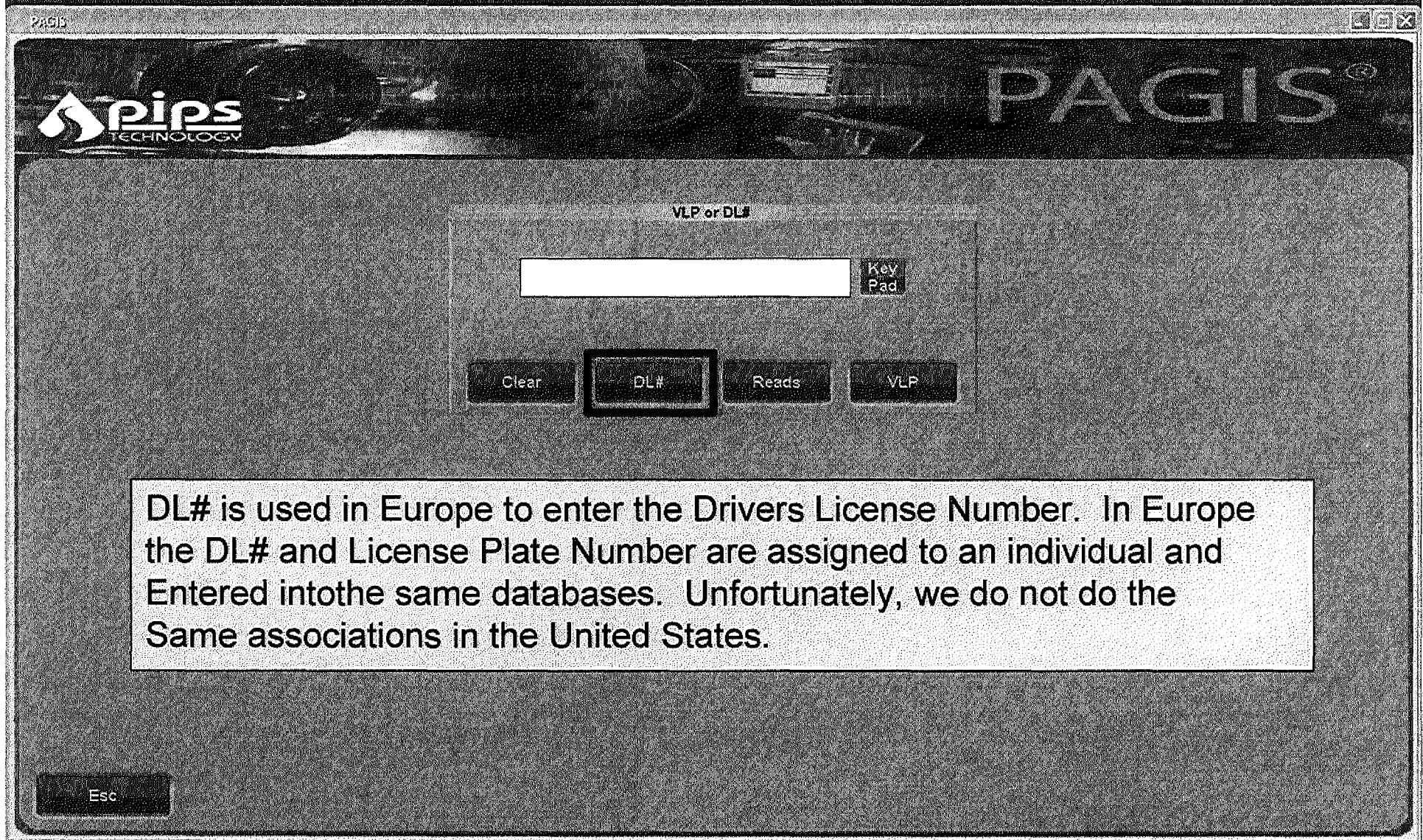
Prev DB

Next DB

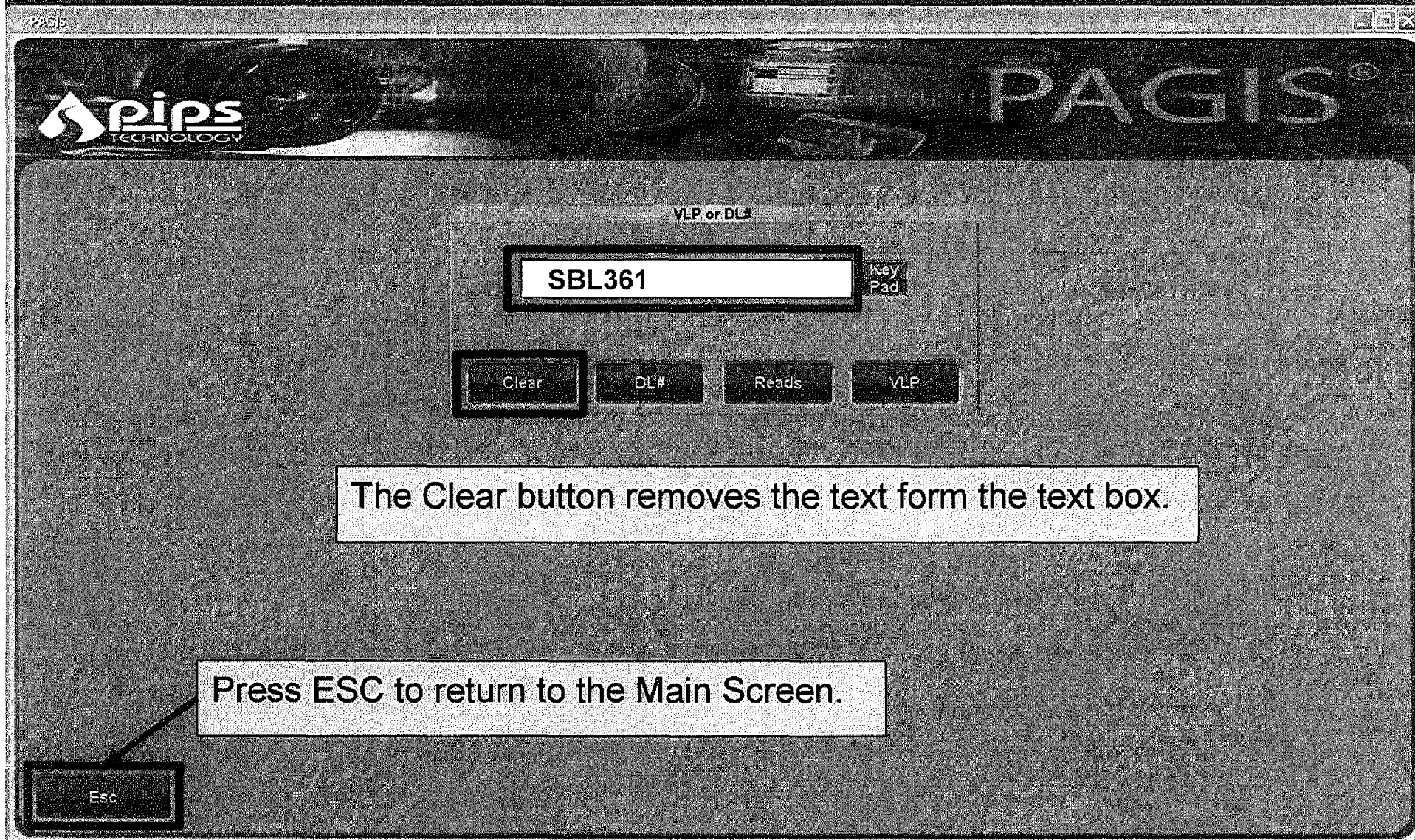
Set Disp

Jump

PAGIS : Operator Controls - Search Entry



PAGIS - Operator Controls - Search Entry



PAGIS - Operator Controls - Review

Front Left

Front Right

License plate data collected by the ALPR vehicle since the previous End Shift may be reviewed by pressing the "Review" button. Available for review is;

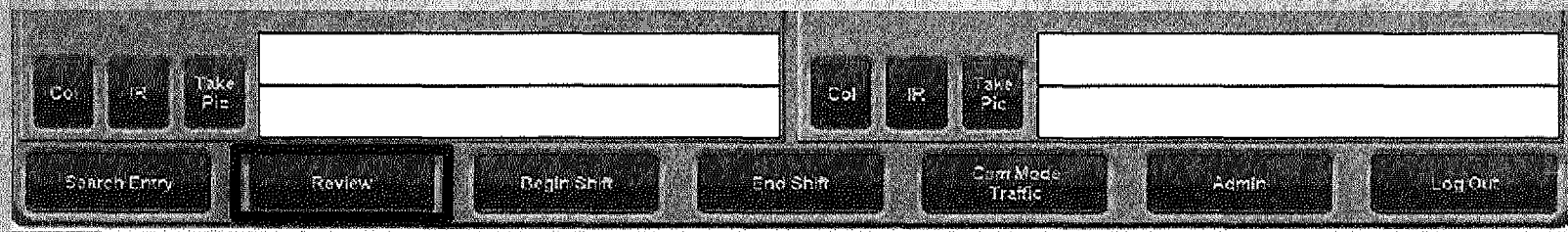
Select the Review Button

Col IR Take Pic

Col IR Take Pic

Search Entry Review Begin Shift End Shift Cam Mode Traffic Admin Log Out

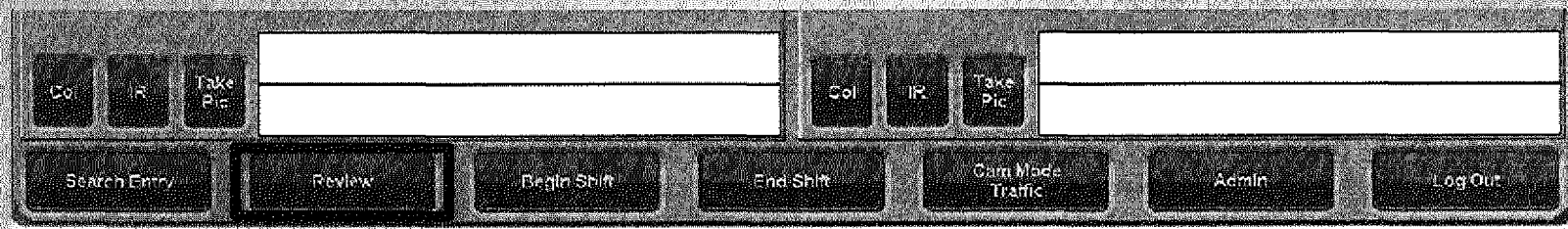
PAGIS – Operator Controls – Review Button



A license plate number may be entered manually to;

1. Search a license plate number against plates collected during the current shift by this ALPR vehicle. Each license plate read is stored in PAGIS until transferred to BOSS with an End Shift. The collected plates can be searched manually.
2. Search a license plate number against the hotlist in PAGIS, OR
3. Add a license plate number to the internal PAGIS hotlist to search for a vehicle with the ALPR system, a BOLO or Amber Alert would be a good way to use this function.

PAGIS – Operator Controls – Review Button



License plate data collected since the previous End Shift may be reviewed by pressing the “Review” button. Available for review is;

1. Statistics related to the number of Reads, Hits, Misreads and Audits.
2. HITS – The number of database matches (Hits) the ALPR system has found since the last End Shift.
3. READS – The number of license plate reads (comparisons) the ALPR system has performed since the last End Shift.
4. AUDITS – A record of general system functionality and any photographs taken with the Take Pic function.
5. MISREADS – A listing of license plate reads which have been marked as misread.
6. DATABASES – A comprehensive list of the hotlist databases use for comparison to the license plates read by the ALPR system.

PAGIS - Operator Controls - Review

PAGE



PAGIS®

Reads: 482/511
Hits: 10
Misreads: 0
Audits: 40/40

Statistics related to the number of Reads, Hits, Misreads and Audits.

Hits

Reads

Audits

Misreads

Databases

Esc

PAGIS - Operator Controls - Review

Reads: 432/511
Hits: 10
Mistreads: 0
Audits: 40/44

HITS – The number of database matches (Hits) the ALPR system has found since the last End Shift.

Hits Reads
Audits Mistreads
Databases

Esc

PAGIS - Operator Controls - Review

Reads: 482/511
Hits: 70
Misreads: 0
Audits: 10/14

READS – The number of license plate reads (comparisons) the ALPR system has performed since the last End Shift.

Hits

Reads

Audits

Misreads

Databases

Esc

PAGIS - Operator Controls - Review

Reads: 482/511
Hits: 10
Misreads: 0
Audits: 10/14

READS – The number of license plate reads (comparisons) the ALPR system has performed since the last End Shift.

Hits

Reads

Audits

Misreads

Databases

Esc

PAGIS - Operator Controls - Review

Reads: 4821911
Hits: 10
Misreads: 0
Audits: 10/10

AUDITS – A record of general system functionality and any photographs taken with the Take Pic function.

Hits Reads

Audits Misreads

 Databases

Esc

PAGIS - Operator Controls - Review

The screenshot shows the PAGIS Operator Controls interface. At the top left, the PIPS TECHNOLOGY logo is visible. The main header area contains the text 'PAGIS' and a background image of a license plate. On the left side, there is a summary of statistics: Reads: 482(511), Hits: 10, Misreads: 0, and Audits: 30/44. The central area features a large white box with the text: **MISREADS** – A listing of license plate reads which have been marked as misread. Notice the selection is not available because no reads have been marked. Below this box are five buttons: Hits, Reads, Audits, Misreads, and Databases. The Misreads button is highlighted with a thick border. In the bottom left corner, there is an 'Esc' button.

PAGIS - Operator Controls - Review

PAGIS



PAGIS®

Reads: 482/511
Hits: 10
Misreads: 0
Audits: 10/64

DATABASES – A comprehensive list of the hotlist databases use for comparison to the license plates read by the ALPR system.

Hits

Reads

Audits



Misreads

Databases

Esc

PAGIS - Operator Controls - Databases

PAGE



11 Databases

FBI MOST WANTED 12/4/2008 8:15:34 AM	50	Delete	On	PAGE UP
Wanted Persons 11/5/2008 11:02:49 AM	50	Delete	On	
	100	Delete	On	
	100	Delete	On	
	500	Delete	On	
Stolen Plates 12/4/2008 8:15:34 AM	500	Delete	On	
	500	Delete	On	
Sexual Offenders 12/4/2008 8:15:34 AM	500	Delete	Off	
Protection Order 12/4/2008 8:15:34 AM	800	Delete	On	PAGE DWN

Esc

Sync

Search

Displays the number of Hotlist Databases available for comparison to license plates read by the ALPR system. A match of the license plate text with an entry in one or more of these hotlist will result in a "Hit".

PAGIS - Operator Controls - Databases

11 Databases

Database Name	Count	Delete	On/Off
FBI MOST WANTED 12/4/2008 8:15:34 AM	50	Delete	On
Wanted Persons 1/15/2008 11:02:43 AM	50	Delete	On
	100	Delete	On
	100	Delete	On
	500	Delete	On
Stolen Plates 12/4/2008 8:15:34 AM	500	Delete	On
	500	Delete	On
Sexual Offenders 12/4/2008 8:15:34 AM	650	Delete	Off
Protection Order 12/4/2008 8:15:34 AM	800	Delete	On

Displays the Hotlist Database name and the Date and Time the Hotlist was updated in PAGIS.

Esc Sync Search

PAGE UP PAGE DWN

PAGIS : Operator Controls - Databases

11 Databases

Database Name	Date	Priority Level	Delete	On
FBI MOST WANTED	12/4/2008 8:15:34 AM	50	Delete	On
Wanted Persons	11/6/2008 11:02:49 AM	50	Delete	On
		100	Delete	On
		100	Delete	On
		500	Delete	On
		500	Delete	On
		500	Delete	On
Sexual Offenders	12/4/2008 8:15:34 AM	500	Delete	On
Protection Order	12/4/2008 8:15:34 AM	800	Delete	On



Indicates the PRIORITY LEVEL of the Hotlist Database. If a match occurs in two or more hotlists, the hotlist with the lowest number has the highest priority and will be displayed in front of hotlist with a higher number.

Esc Sync Search

PAGE UP PAGE DWN

PAGIS - Operator Controls - Databases

PAGIS



11 Databases

FBI MOST WANTED 12/4/2008 8:15:34 AM	50	Delete	On
Wanted Persons 1/15/2008 11:00:49 AM	50	Delete	On
	100	Delete	On
	100	Delete	On
	500	Delete	On
Stolen Plates 12/4/2008 8:15:34 AM	500	Delete	On
	500	Delete	On
Sexual Offenders 12/4/2008 8:15:34 AM	500	Delete	Off
Protection Order 12/4/2008 8:15:34 AM	800	Delete	On

Hotlist databases can be toggled active or inactive by pressing On/Off. The toggle status effects only the PAGIS vehicle from which the command was entered.

Esc

Sync

Search

PAGE UP

PAGE DOWN

PAGIS - Operator Controls - Databases

11 Databases

Database Name	Date	Count	Delete	On
FBI MOST WANTED	12/4/2008 8:15:34 AM	50	Delete	On
Wanted Persons	11/5/2008 11:05:49 AM	50	Delete	On
		100	Delete	On
		100	Delete	On
		500	Delete	On
Stolen Plates	12/4/2008 8:15:34 AM	500	Delete	On
		500	Delete	On
Sexual Offenders	12/4/2008 8:15:34 AM	650	Delete	Off
Protection Order	12/4/2008 8:15:34 AM	800	Delete	On

SYNC performs the Begin Shift and End Shift functions to update PAGIS with new Hotlist databases and also transfer the collected license plates from PAGIS to the BOSS server.

Buttons: Esc, Sync, Search, PAGE UP, PAGE DWN

PAGIS - Operator Controls - Databases

PIPS TECHNOLOGY **PAGIS®**

11 Databases

Database Name	Date	Time	Count	Delete	On
FBI MOST WANTED	12/4/2008	8:15:34 AM	50	Delete	On
Wanted Persons	11/5/2008	11:02:43 AM	50	Delete	On
			100	Delete	On
			100	Delete	On
			500	Delete	On
Stolen Plates	12/4/2008	8:15:34 AM	500	Delete	On
			500	Delete	On
Sexual Offenders	12/4/2008	8:15:34 AM	500	Delete	Off
Protection Order	12/4/2008	8:15:34 AM	500	Delete	On



SEARCH is the same as the Search Entry button on the main screen. A License plate can be manually compared against the Hotlist databases

Esc Sync Search

PAGE UP PAGE DWN

PAGIS - Operator Controls - Databases

PAGE



11 Databases



FBI MOST WANTED 12/4/2008 8:15:34 AM	50	Delete	On	PAGE UP
Wanted Persons 11/5/2008 11:02:43 AM	50	Delete	On	
	100	Delete	On	
	100	Delete	On	
	500	Delete	On	
Stolen Plates 12/4/2008 8:15:34 AM	500	Delete	On	
	500	Delete	On	
Sexual Offenders 12/4/2008 8:15:34 AM	650	Delete	Off	
Protection Order 12/4/2008 8:15:34 AM	800	Delete	On	PAGE DWN

Press ESC to return to the Main Screen.

Esc Sync Search

PAGIS - Operator Controls - Databases

PAGIS



11 Databases

FBI MOST WANTED 12/4/2008 8:15:34 AM	50	Delete	On	PAGE UP
Wanted Persons 1/15/2008 11:02:48 AM	50	Delete	On	
	100	Delete	On	
	100	Delete	On	
	500	Delete	On	
Stolen Plates 12/4/2008 8:15:34 AM	500	Delete	On	
	500	Delete	On	
Sexual Offenders 12/4/2008 8:15:34 AM	550	Delete	Off	
Protection Order 12/4/2008 8:15:34 AM	800	Delete	On	PAGE DWN

Esc Sync Search

PAGIS : Operator Controls - Begin Shift

The screenshot displays the PAGIS Operator Controls interface. At the top, there are two large panels labeled 'Front Left' and 'Front Right'. Below these panels is a control bar containing several buttons: 'Search Entry', 'Review', 'Begin Shift', 'End Shift', 'Cam Mode Traffic', 'Admin', and 'Log Out'. An arrow points from a text box to the 'Begin Shift' button.

BEGIN SHIFT synchronizes the Hotlist Databases to update PAGIS with new Hotlist databases and also transfer the collected license plates from PAGIS to the BOSS server.

Select the Begin Shift Button (Press the button twice).

PAGIS : Operator Controls - Begin Shift

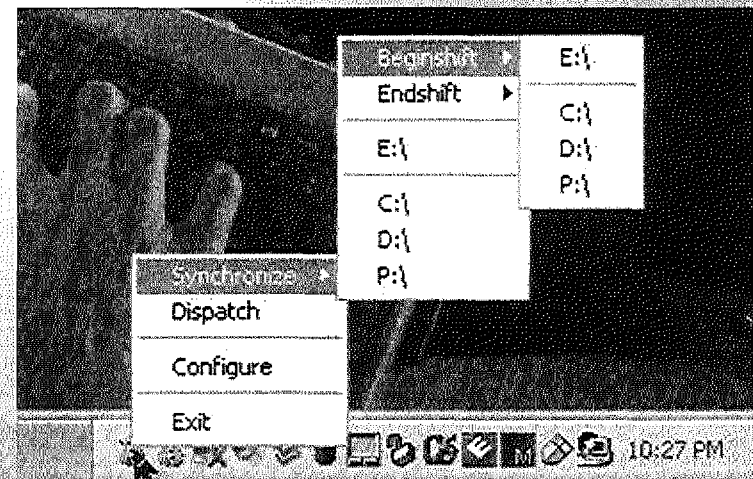
The synchronization of the most recent “hotlist” information from the BOSS server into PAGIS will be performed in one of two ways, depending on the system’s configuration.

1. Using a USB Memory Stick / Thumbdrive
2. Wireless Connection (WI-FI or Cellular Modem)

PAGIS : Operator Controls – Begin Shift Obtaining the Latest Hotlist Data

For vehicles that are NOT equipped for 802.11 wi-fi or cellular communications:

- In the office, go to the PC equipped with BOSS Client Tools as instructed by your System Administrator.
- Insert your USB Thumb Drive into the assigned USB port on the PC.
- Access the Client Tools by Right Clicking on the Client Tools icon in the system tray as seen below. (green teardrop with yellow “swoosh”)
- Select Synchronize / Begin Shift
- Select the location of your thumb drive; your Administrator will most likely have this set to be the first option.
- Wait for “Synchronization Complete” message and remove the thumb drive.
- Proceed to your patrol vehicle

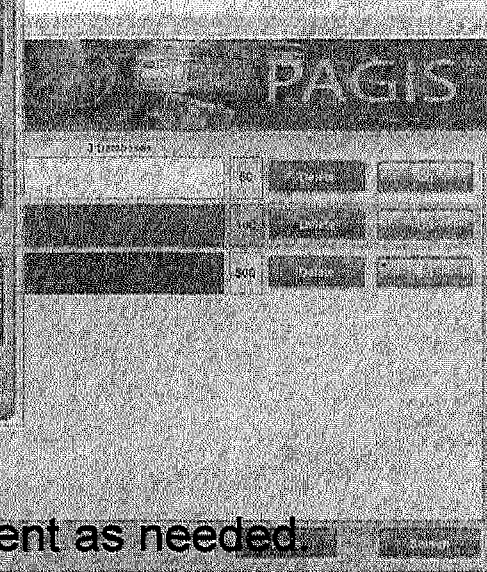
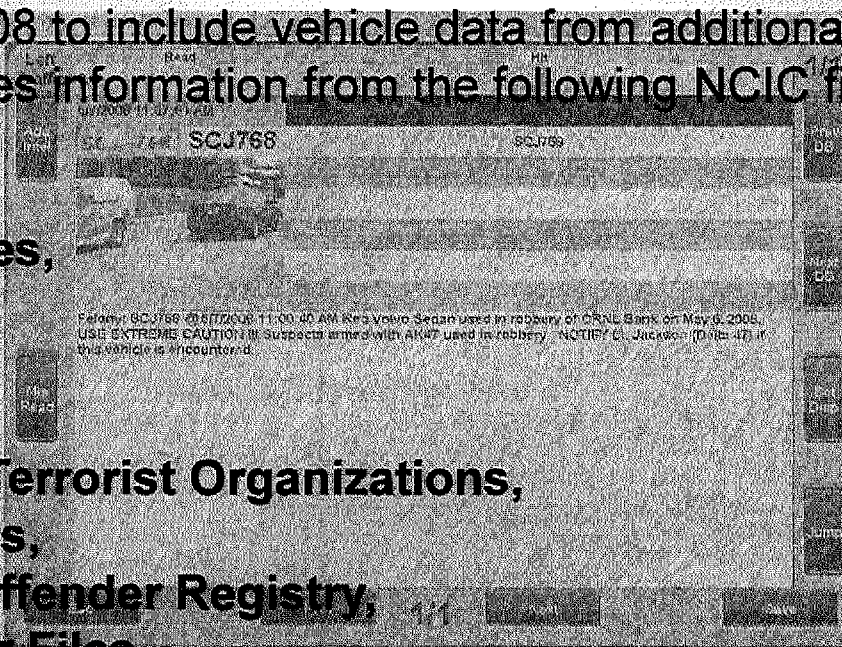


PAGIS - Obtaining the Latest Hotlist Data - NCIC

The Hotlist databases available for download may vary depending on operation conducted by the department. In general the Hotlist will include an extract from NCIC's database. In adherence to the APB's directive, the LPR extract was modified on 01/24/2008 to include vehicle data from additional NCIC files. The revised extract includes information from the following NCIC files:

**Stolen Vehicles,
Stolen License Plates,
Wanted Persons,
Protection Orders,
Missing Persons,
Violent Gangs and Terrorist Organizations,
Supervised Releases,
Convicted Sexual Offender Registry,
Immigration Violator Files.**

Additionally, "local" databases can be added by the department as needed.



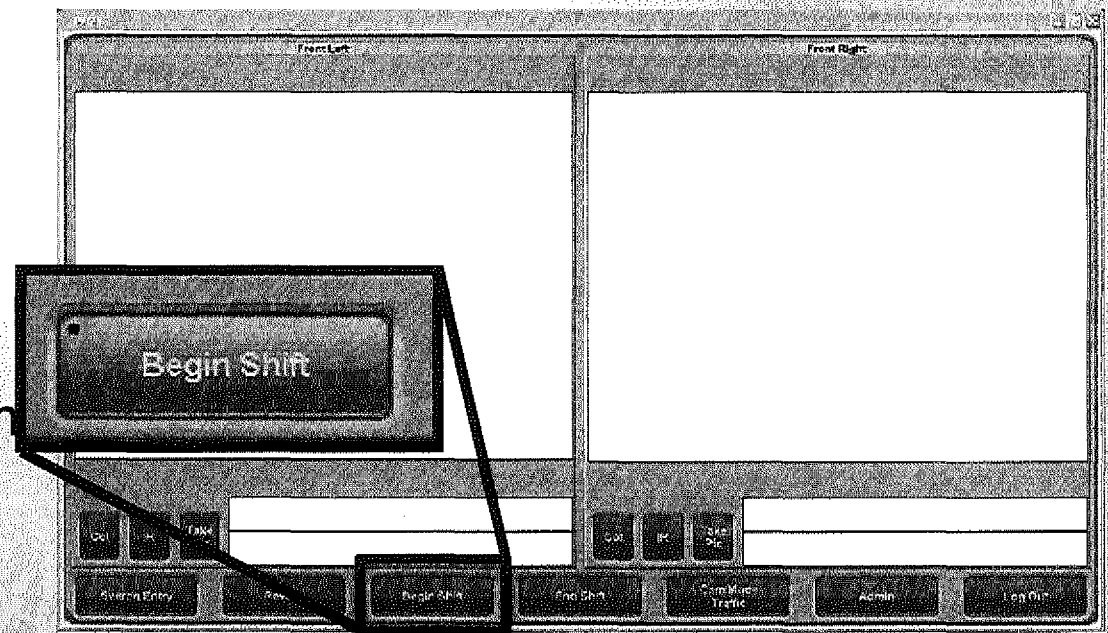
PAGIS : Operator Controls - Begin Shift

For Vehicles NOT equipped for data transfer via 802.11 wi-fi or cellular:

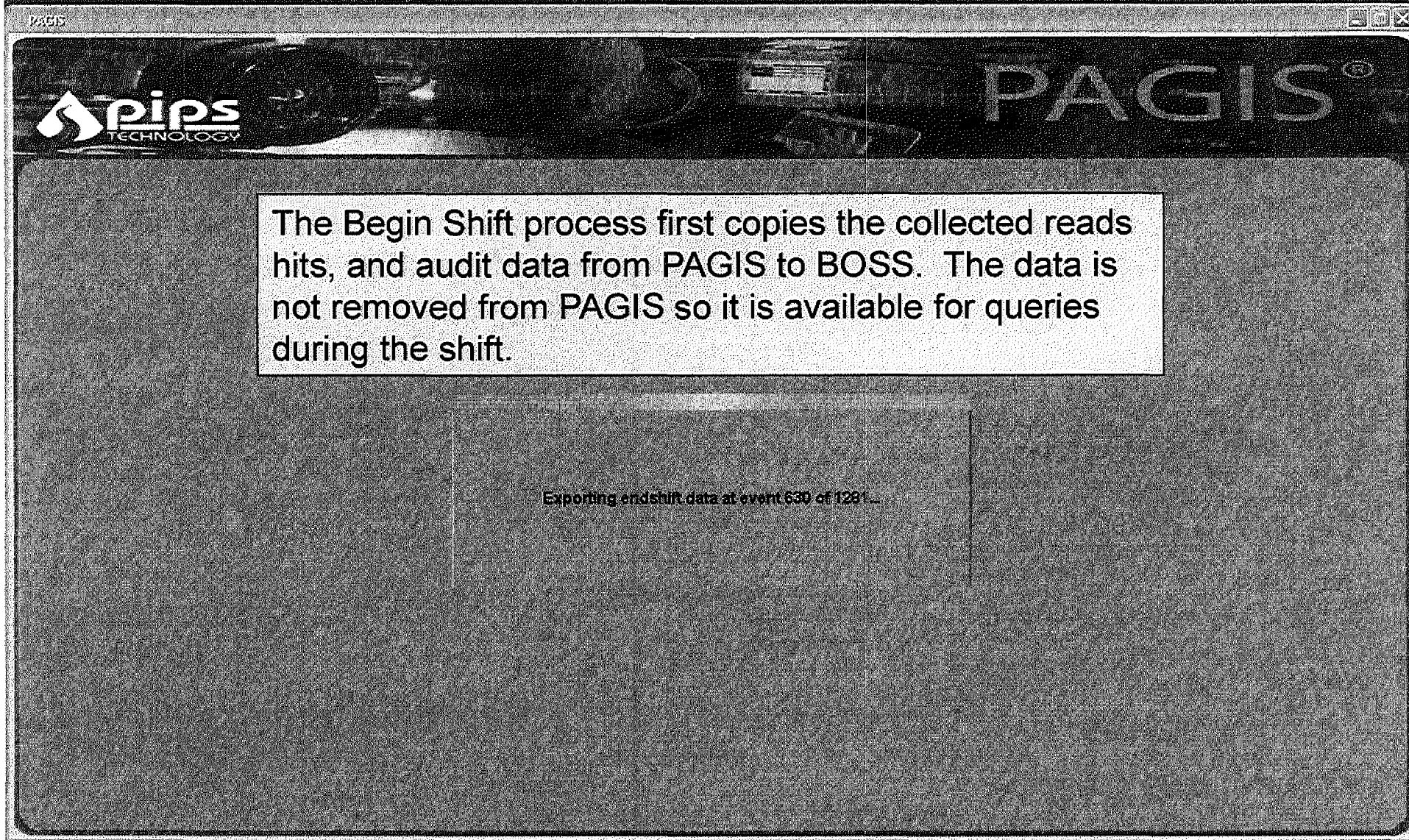
- Insert the thumb drive with the latest hotlist data into the designated USB port on your MDC or Laptop Computer.

For All Vehicles:

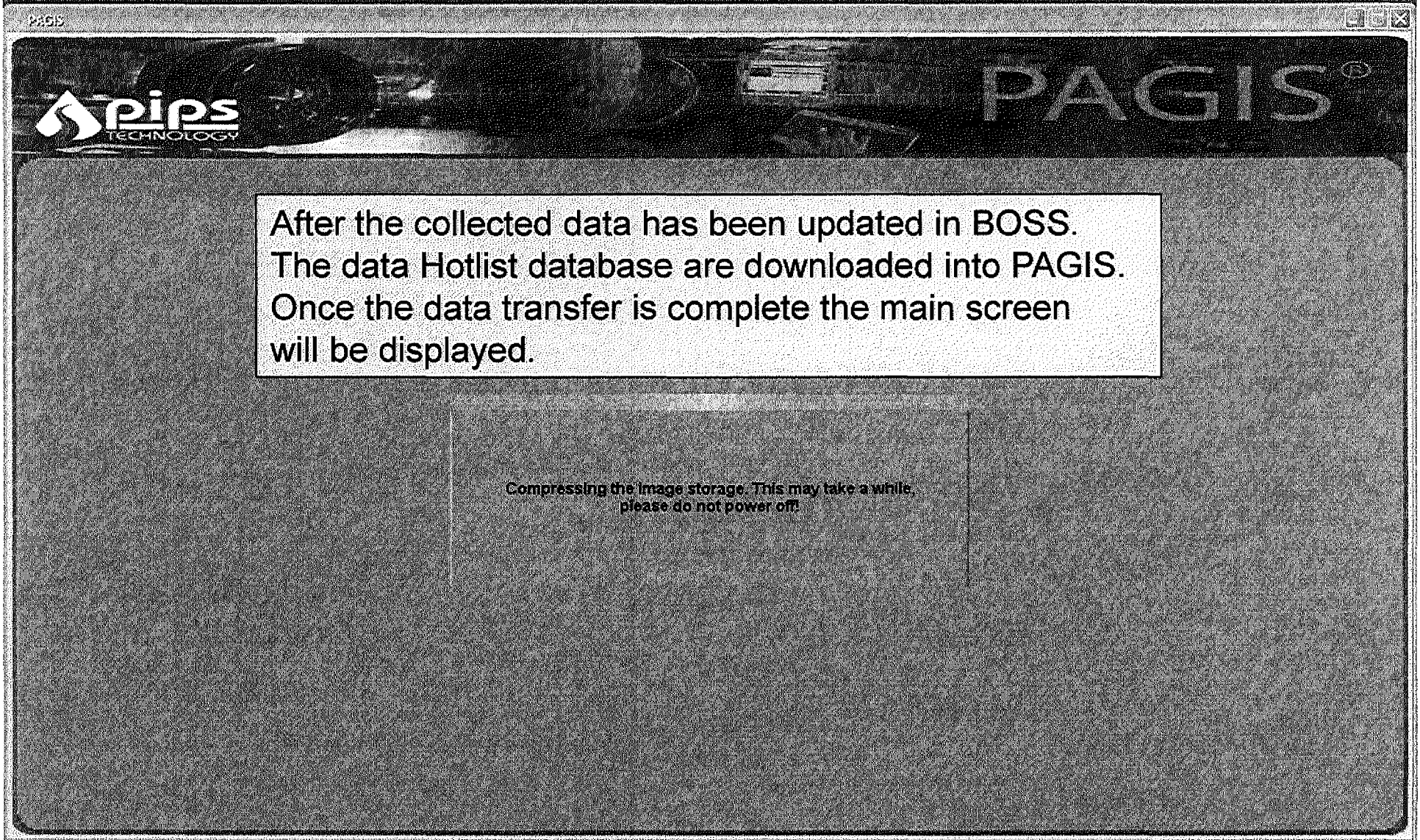
- Press the “Begin Shift” button TWICE to synchronize all hotlist data to the vehicle’s ALPR Processor.
- Wait for the synchronization window to disappear from your screen.
- PAGIS is now operational.



PAGIS : Operator Controls - Begin Shift



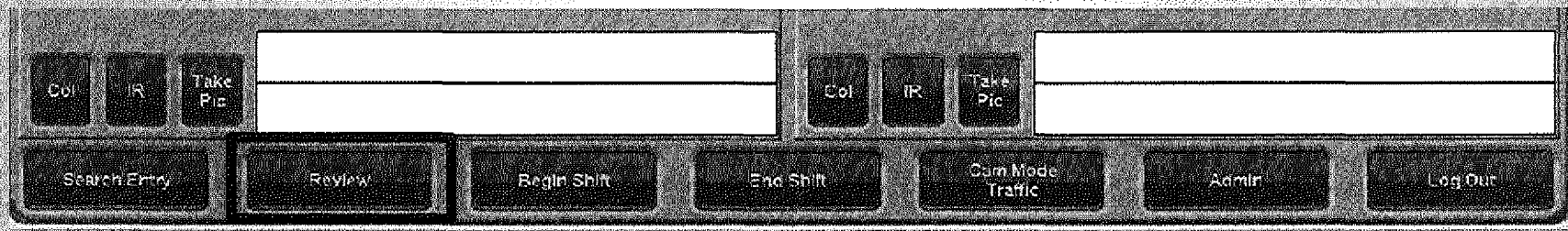
PAGIS: Operator Controls - Begin Shift



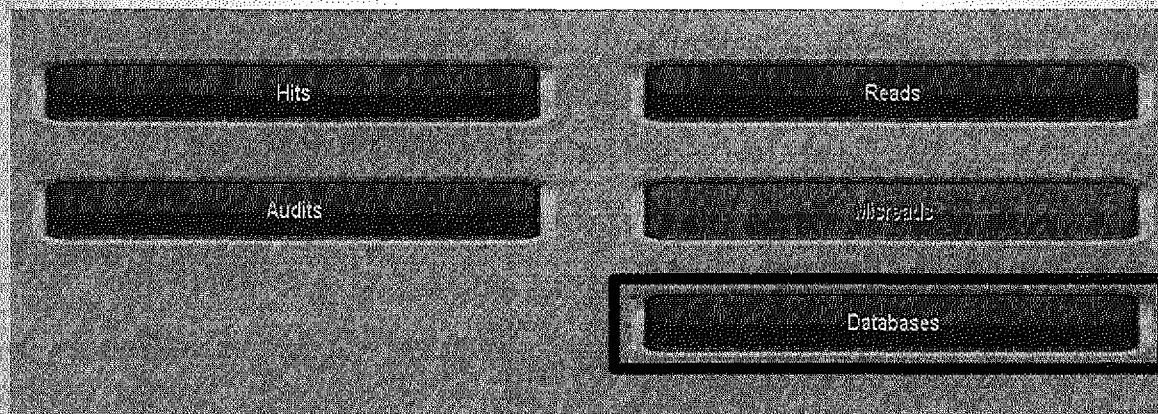
PAGIS : Operator Controls – Begin Shift

After downloading (Begin Shift) the hotlist databases verify the databases.

From the Main Screen press, Review



Then select Databases from the menu.



PAGIS : Operator Controls - Begin Shift

The available Hotlists are displayed.

Verify the hotlist and download date on each hotlist.

Check the number of Hotlists

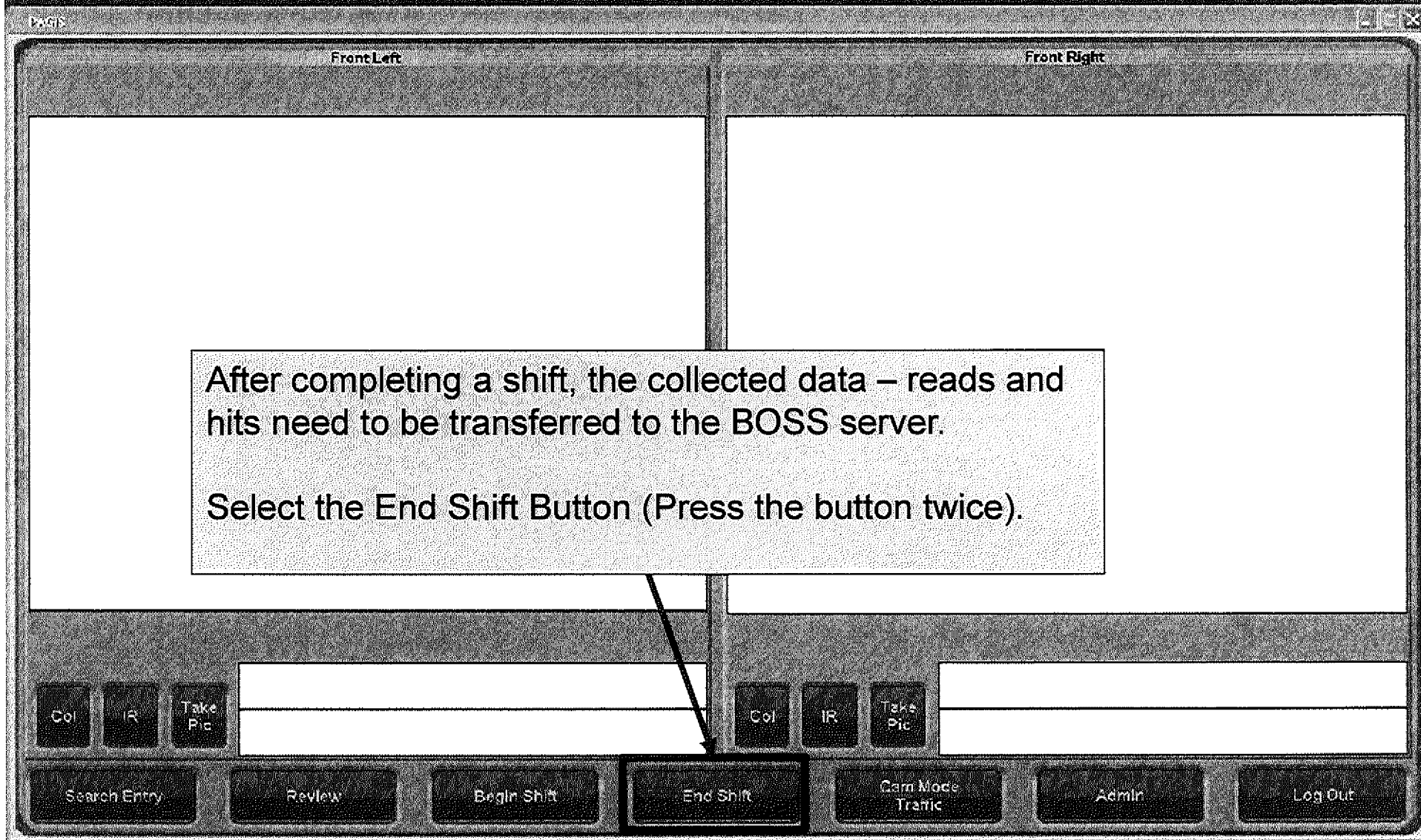
Databases can be toggled active or inactive by pressing On/Off .

Press ESC to Return to menu Screen.

11 Databases			
FBI MOST WANTED 12/4/2008 8:15:34 AM	50	Delete	On
Wanted Persons 12/2/08 11:02:40 AM	50	Delete	On
	100	Delete	On
	100	Delete	On
	500	Delete	On
Stolen Plates 12/4/2008 8:15:34 AM	500	Delete	On
	500	Delete	On
Sexual Offenders 12/4/2008 8:15:34 AM	650	Delete	On
Protection Order 12/4/2008 8:15:34 AM	800	Delete	On

Buttons: Esc, Sync, Search, PAGE DOWN

PAGIS : Operator Controls - End Shift



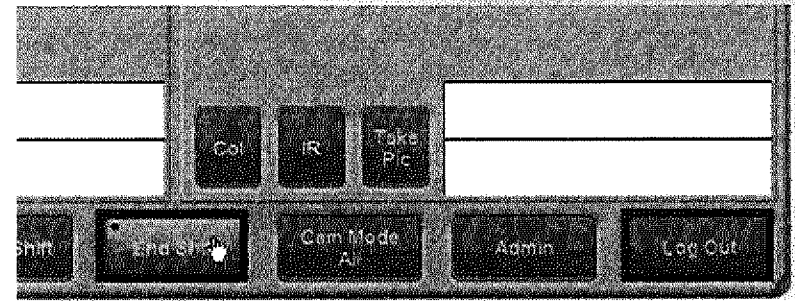
PAGIS : Operator Controls – End Shift

For Vehicles NOT equipped for data transfer via 802.11 wi-fi or cellular:

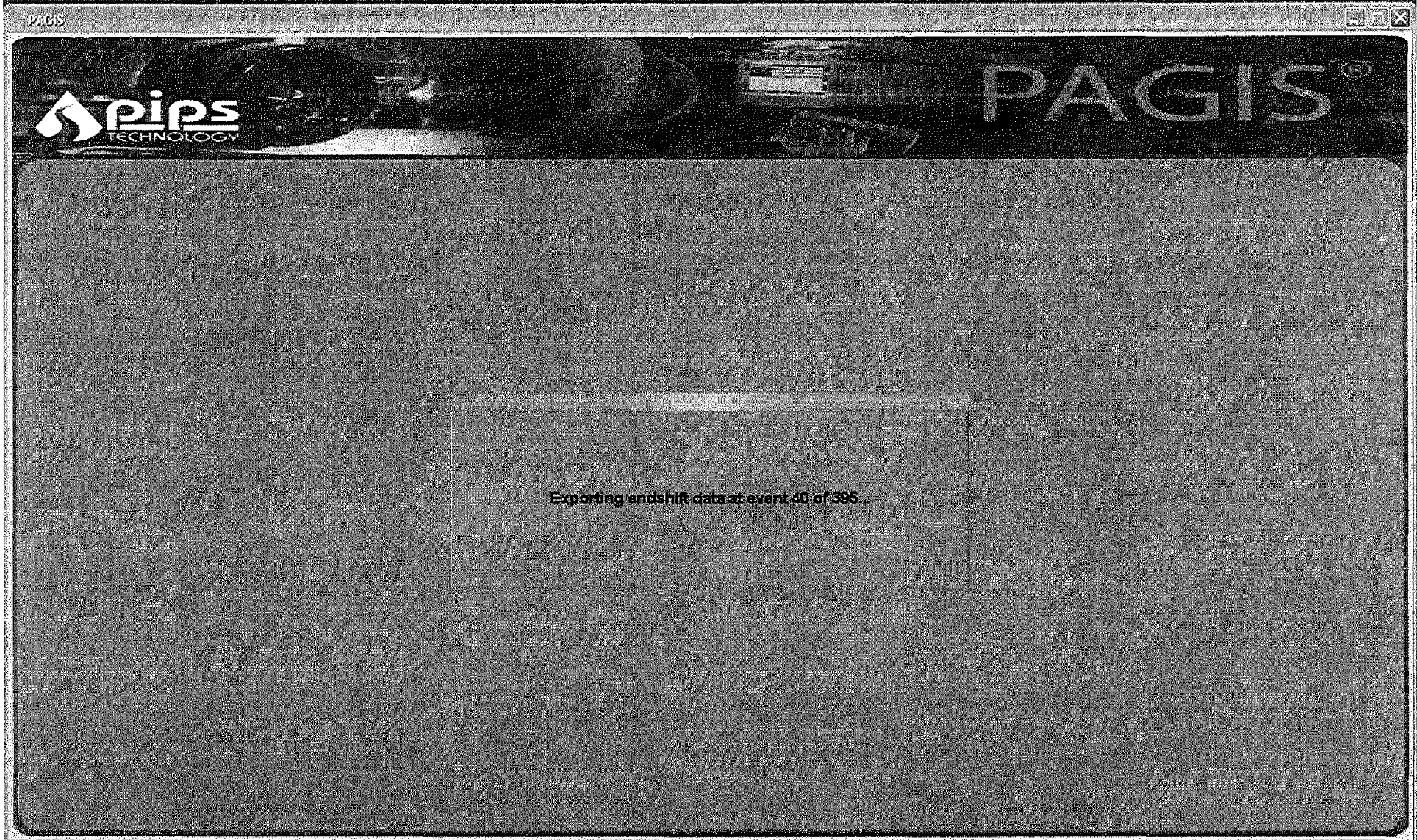
- Ensure that your thumb drive is securely inserted into the designated USB port on your MDT.

For All Vehicles:

- Hit the “End Shift” button TWICE to synchronize all data from the vehicle’s ALPR processor either the thumb drive or directly back to BOSS using 802.11 wi-fi or cellular.
- Wait for the synchronization window to disappear from your screen

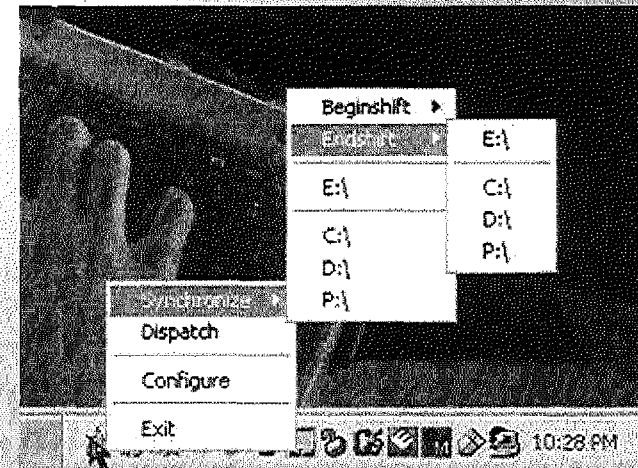


PAGIS - Operator Controls - End Shift



PA GIS : Operator Controls – End Shift After Your Shift

- **ONLY for vehicles that are NOT equipped for 802.11 wi-fi or cellular communications:**
- In the office, go to the PC equipped with BOSS Client Tools as instructed by your System Administrator.
- Insert your USB Thumb Drive into an open USB port on the PC.
- Access the Client Tools by Right Clicking on the Client Tools icon in the system tray as seen below. (green teardrop with yellow “swoosh”)
- Select Synchronize / End Shift
- Select the location of your thumb drive; your Administrator will most likely have this set to be the first option.
- Wait for “Synchronization Complete” message and remove the thumb drive.
- You’re finished!



PAGIS : Operator Controls - Camera Mode

Front Left

Front Right

Camera Mode toggles between camera configurations.
Press and release the Cam Mode Button. The camera configuration take four seconds to transition.

Col IR Take Pic

NJG629

Col IR Take Pic

RML470

Search Entry Review Begin Shift End Shift **Cam Mode Traffic** Admin Log Out

PACIS - Camera Modes

ALPR systems with Three (3) and Four (4) Cameras will display only two cameras simultaneously. The default configurations of the cameras are; Traffic, Parking and ALL.

To view a different camera configurations on the capture screen, press and release the "Cam Mode" button. The mode is toggled to the next mode in about four (4) seconds.

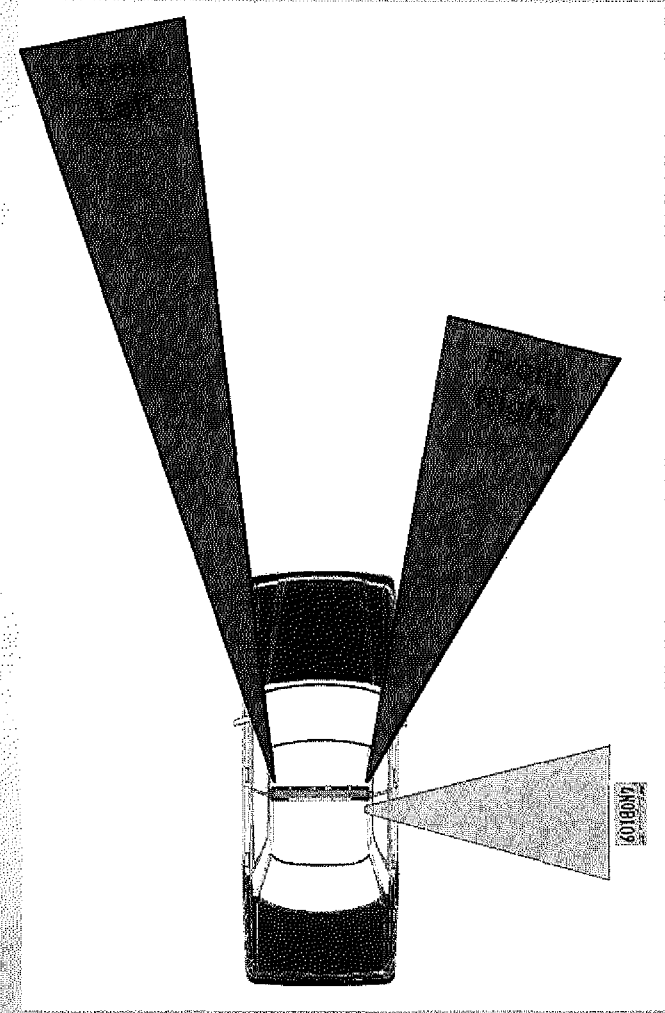
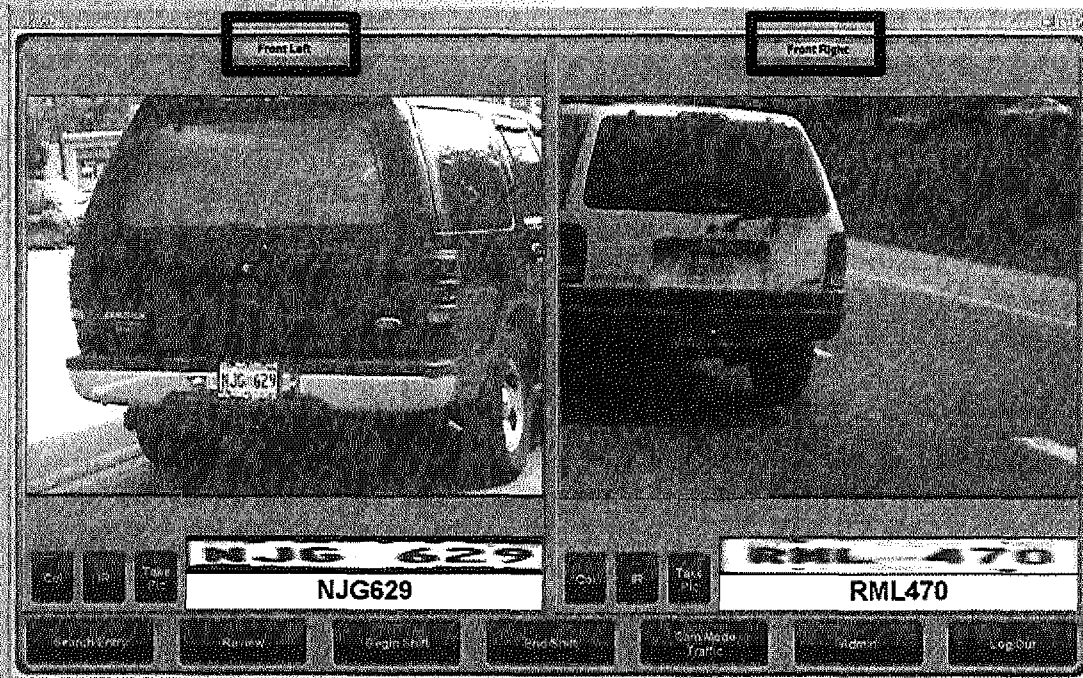
The system administrator can create new camera modes when required.



PACS - Camera Modes

Cam Mode :TRAFFIC

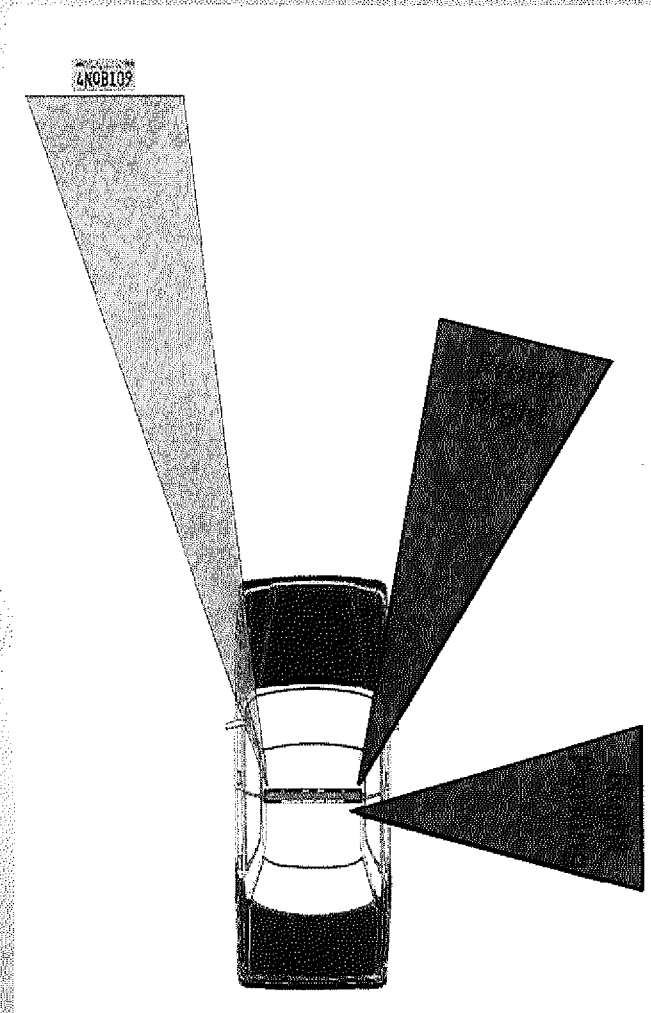
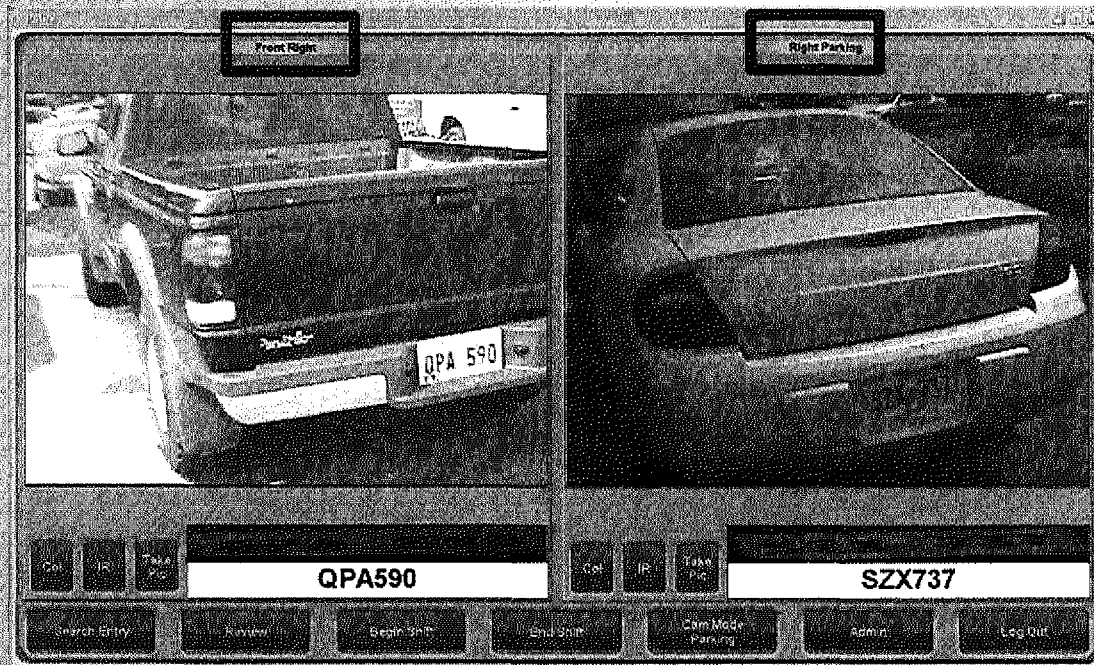
In the Traffic Mode two cameras are active.
The **Front Left** and **Front Right** cameras
are displayed in the view finders.



PACIS - Camera Modes

Cam Mode :PARKING

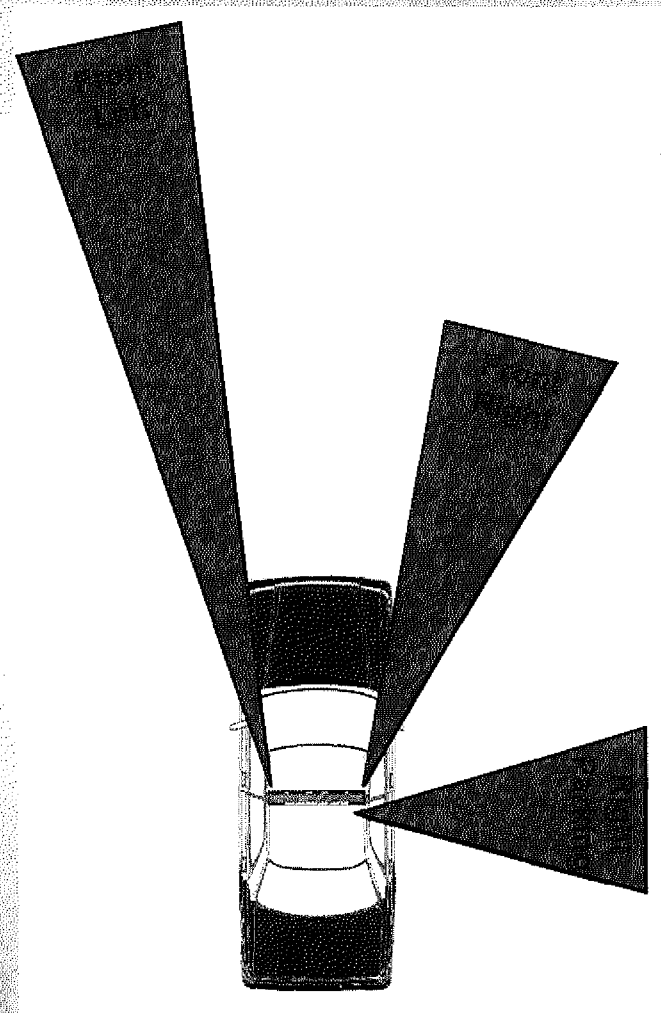
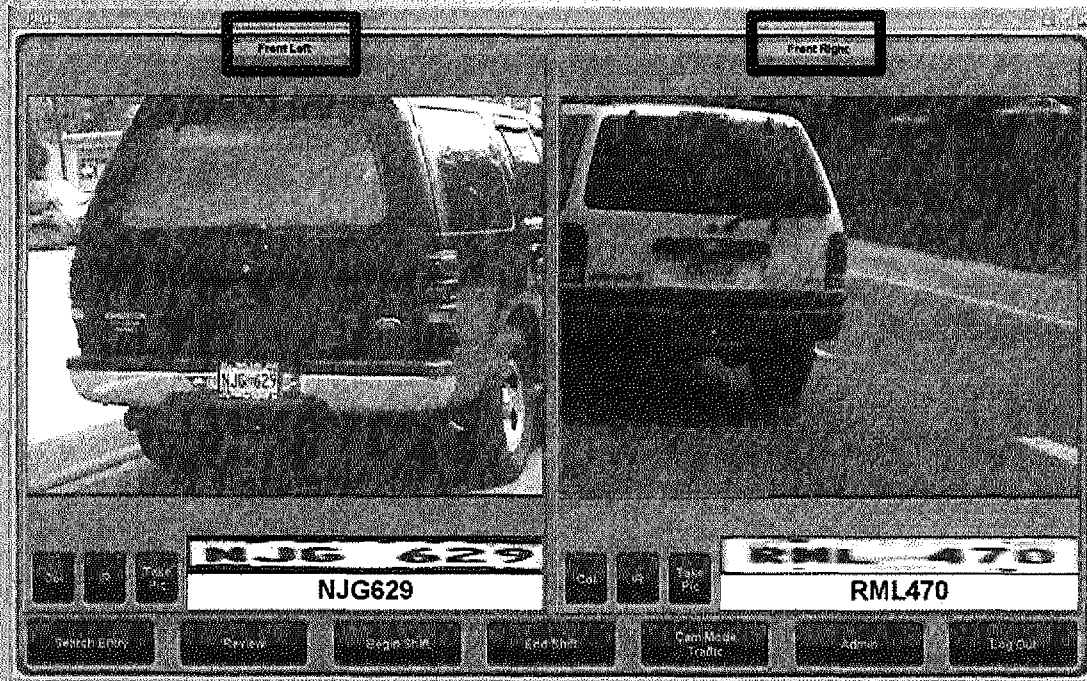
In the Parking Mode two cameras are active.
The **Front Right** and **Right Parking** cameras are displayed in the view finders.



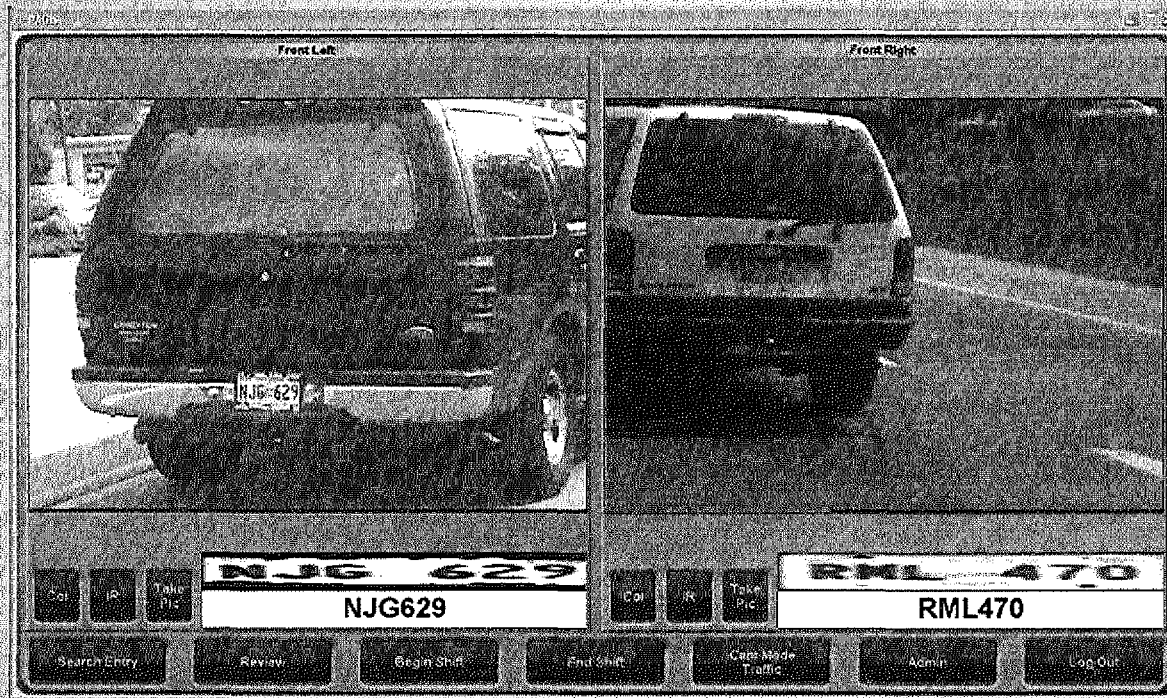
PACIS - Camera Modes

Cam Mode :ALL

In the ALL Mode three cameras are active.
The **Front Left** and **Front Right** cameras are displayed in the view finders.

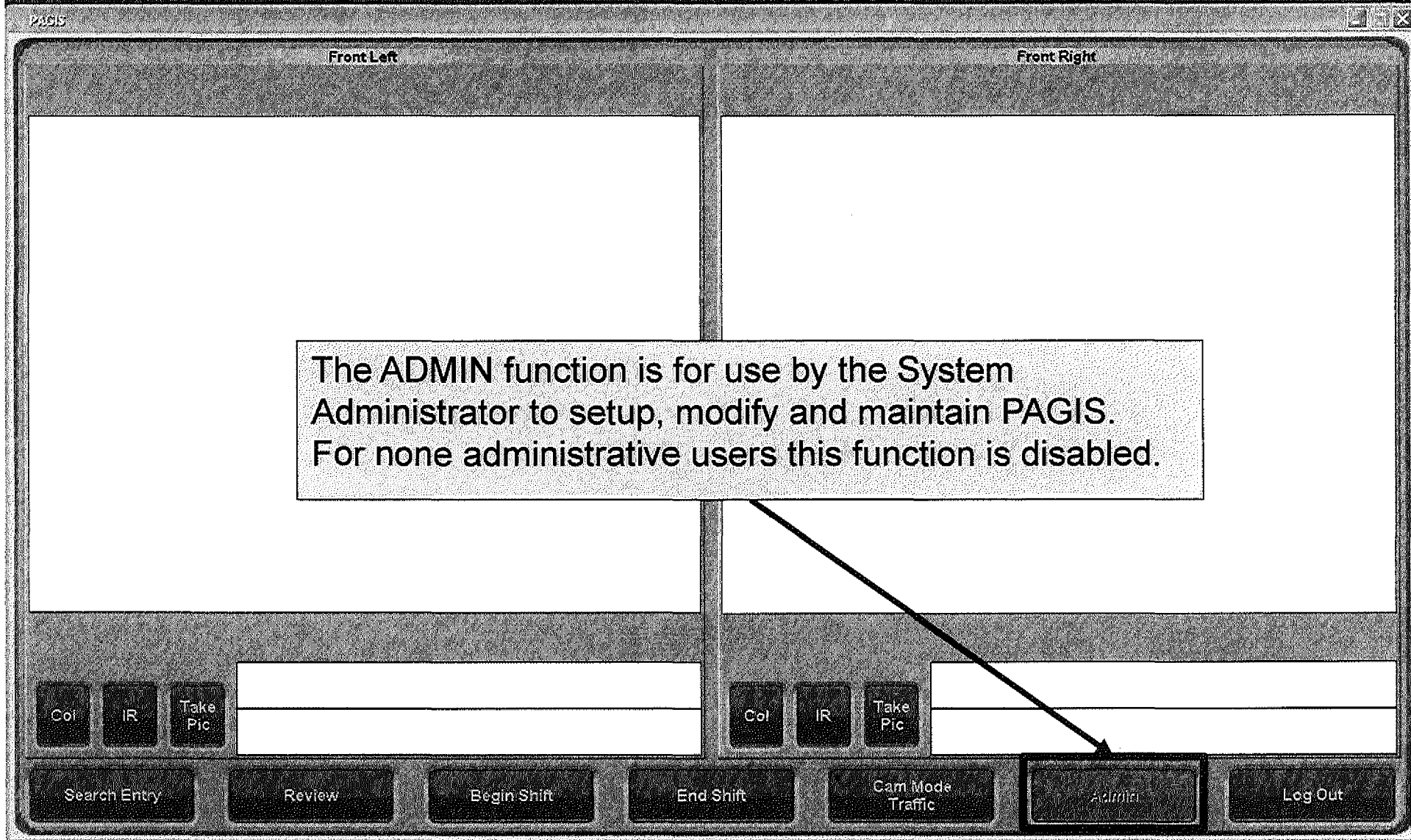


PAGIS - Camera Modes



ALPR systems with Three (3) and Four (4) Cameras will display only two cameras simultaneously. However, in the ALL Camera Mode all cameras can be made active. The parking cameras are “hidden” but are active and will provide notifications upon a database match (hit).

PAGIS : Operator Controls – Camera Mode



PAGIS : Operator Controls – Camera Mode

Press the LOGOUT button to exit PAGIS and log out the current user from the PAGIS software. The user is returned to the Log In screen.



**Press Exit to stop using PAGIS
or
Log In a new user.**

Logon

Badge No:

Password:

Location:

Exit

Login

Do's and Don'ts

- **Don't** clean the camera lens with alcohol or ammonia based cleaners (No Windex!).
- **Do** be careful with the system
 - Expensive
 - No money available to replace it
- **Don't** tell the thugs about it
- **Don't** run the car through a car wash with brushes that hit the cameras
- **Do** let us know if the system is not working properly- We can fix it!

Questions?

- Contact your system administrator, _____
 - Phone
 - Email



**PIPS
TECHNOLOGY**

A Federal Signal Company

*the most advanced license plate
recognition systems in the world*