

Automated License Plate Recognition (ALPR) Training



Agenda

- Introduction-What is ALPR?
- How to log on
- Begin Shift
- End Shift
- Troubleshooting
- Legal
- Demo Video



Introduction

- What is the Automatic License Plate Recognition System (ALPR)



What is ALPR?



- A computer that automatically scans license plates and compares them to a wanted vehicle database
- Searches for Stolen vehicles, Felony vehicles, Lost or Stolen plates and any other manually entered plates

What is ALPR? (Cont)

- The system incorporates two cameras, one IR, one Color into a single housing, two housings per vehicle
- Can capture plates in all weather, oncoming headlights, glare, bright sunlight and in darkness
- Uses IR and OCR (Optical Character Recognition) technology to read plates



What is ALPR? (Cont)

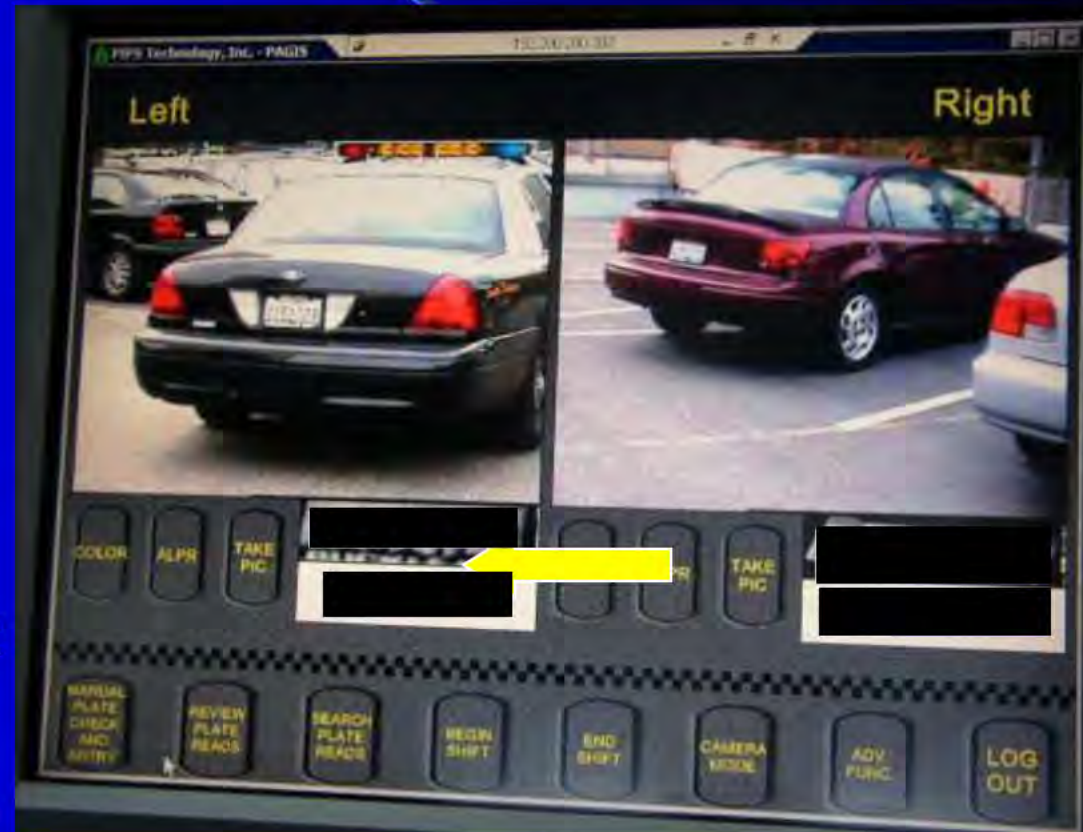


- Officer is notified visually and with a audible alarm when a match is made
- Matches must be confirmed through CLETS
- The Database is **NOT** live and matches may not still be in the system
- Visually confirm the plate from the vehicle, **NOT** from the picture



ALPR is NOT PERFECT!!!

- ALPR does **NOT** read all plates
 - Non-reflective plates
 - Old Blue CA
 - Extremely Dirty
 - Mutilated or Obscured
- Out of state & motorcycle plates can be read, but accuracy **may** be reduced
- Plate must be in the field of view of the camera
- ALPR only reads from the IR camera, not the color overview camera
- Misreads can and will occur!
- **VERIFY, VERIFY VERIFY!!!**



START UP

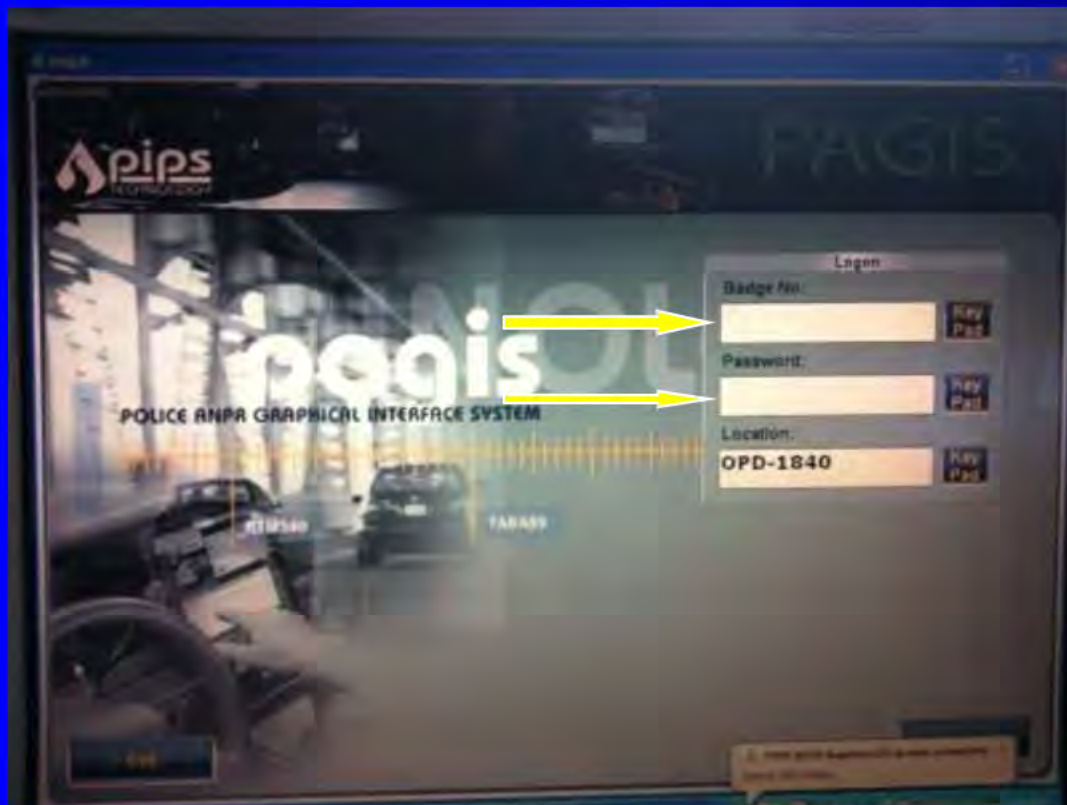
- Make sure that you have a wireless connection with the network

START UP



- Log onto the MDT and allow PAGIS to load completely

Logging into PAGIS



- Enter your login in lowercase in the **Badge #** field
- Enter your password in the **Password** field
- **Location** – ALPR ID self populating
- Hit “**Log On**” Button
- The Patrol Screen will now load

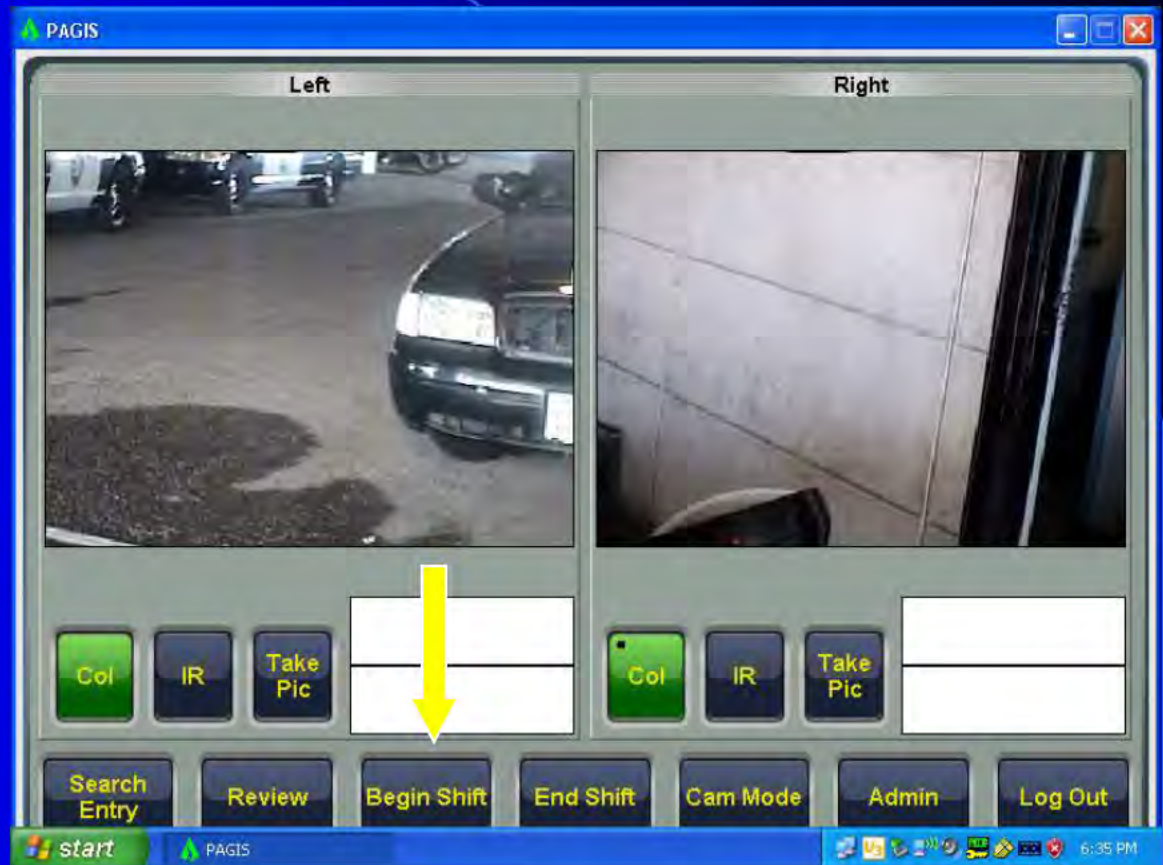
Patrol Screen (Live)

- Main screen to use the PAGIS system
- Buttons available to access other features



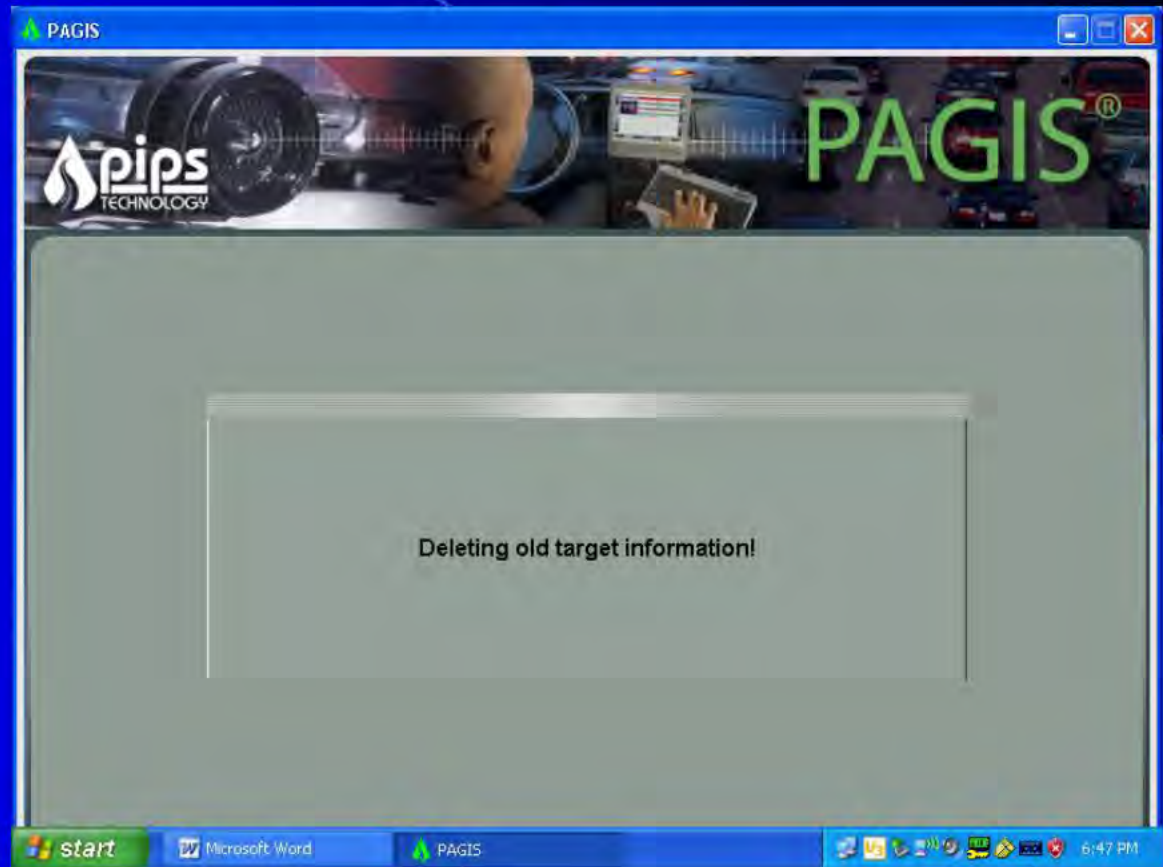
Begin Shift

- ***Double click the Begin Shift*** button to begin upload of databases
- This may take as long as 5 minutes

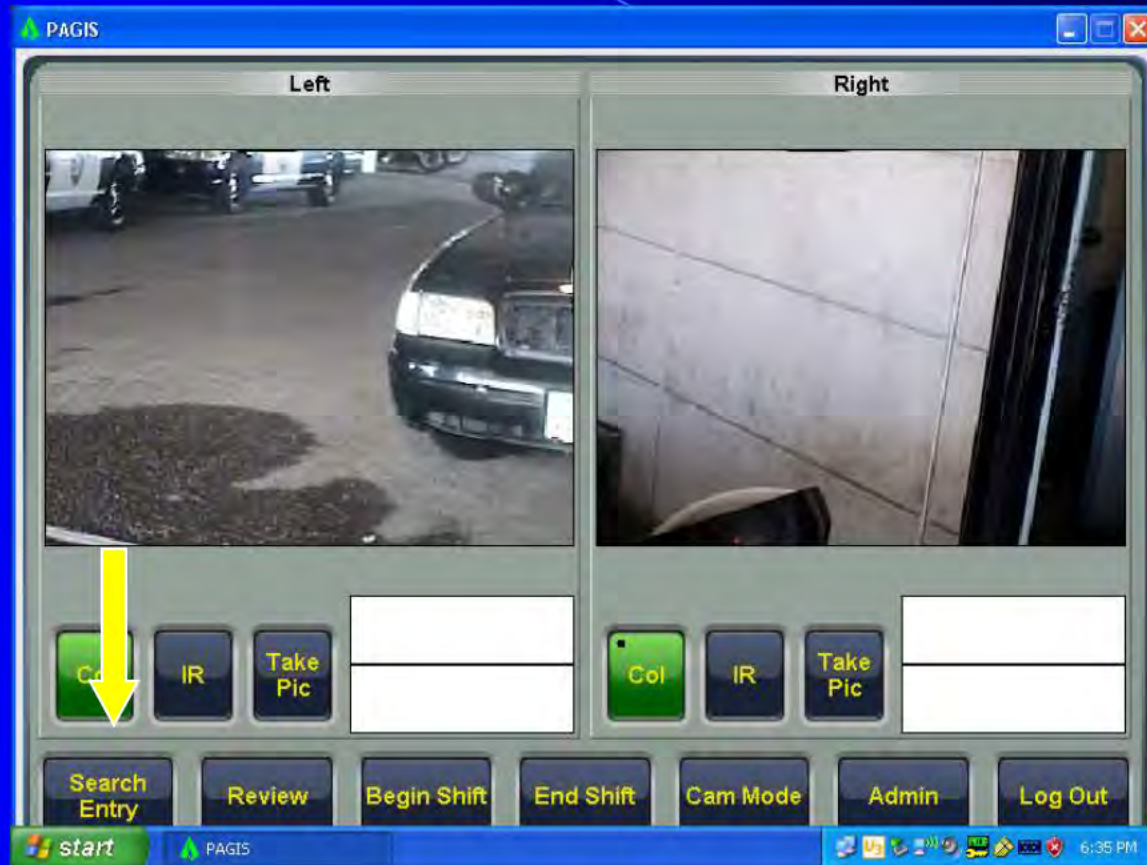


Begin Shift (cont.)

- PAGIS will display a status screen while the begin shift process is taking place.

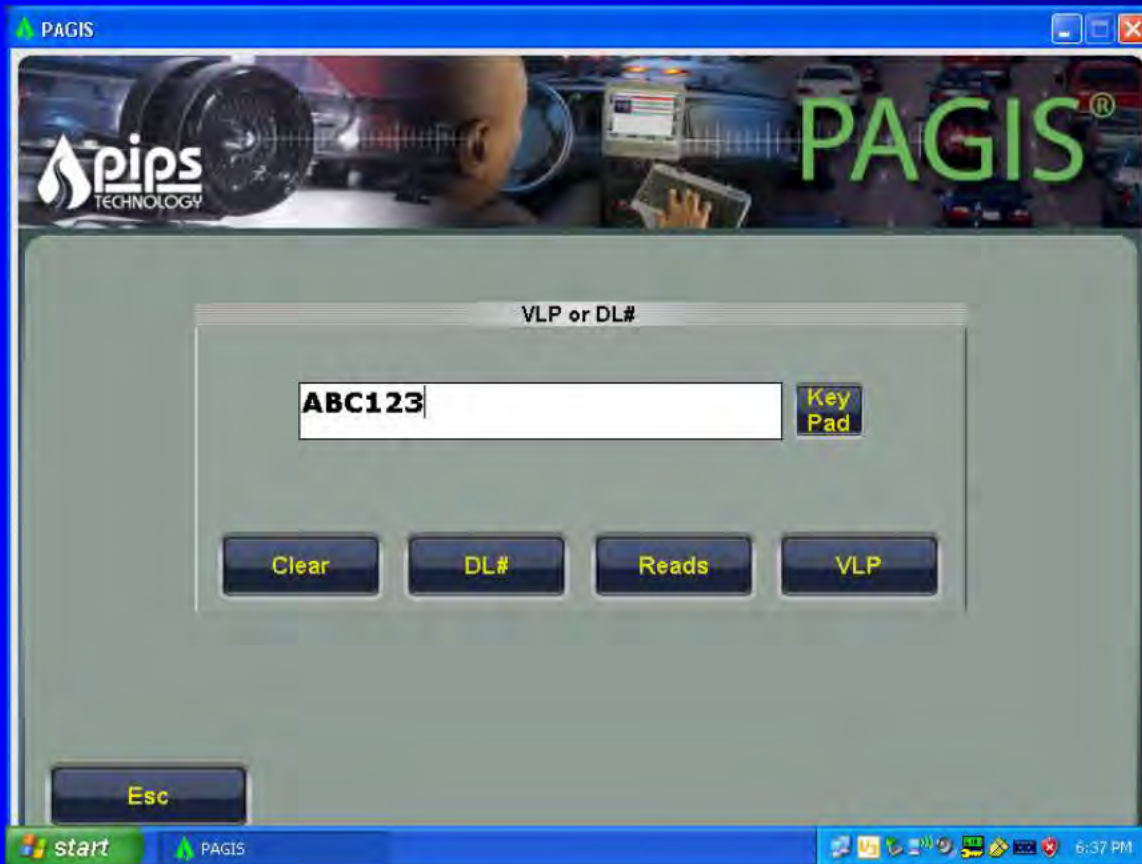


Other Features in PAGIS



Manual Plate Check & Entry

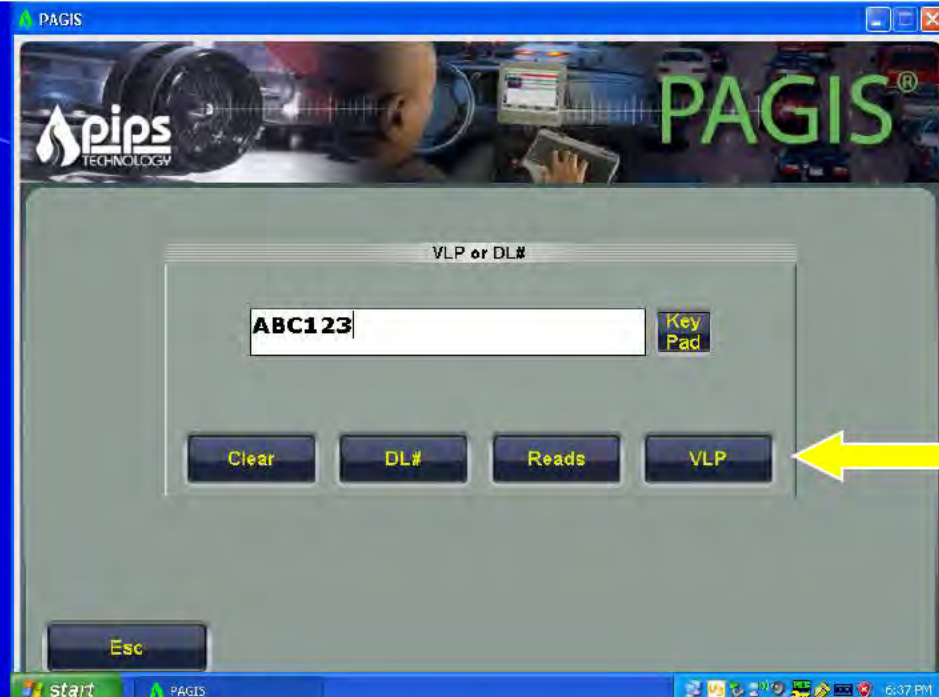
Manual Plate Check & Entry



- Allows you to check for wanted plates
- Allows you to add wanted plates to local database

Manual Plate Check (cont)

- Enter plate and hit “VLP” button
- If plate is not found and you want to add to database
- Hit Type of Plate entry, (Amber Alert, Felony, Stolen, or Misc) button.

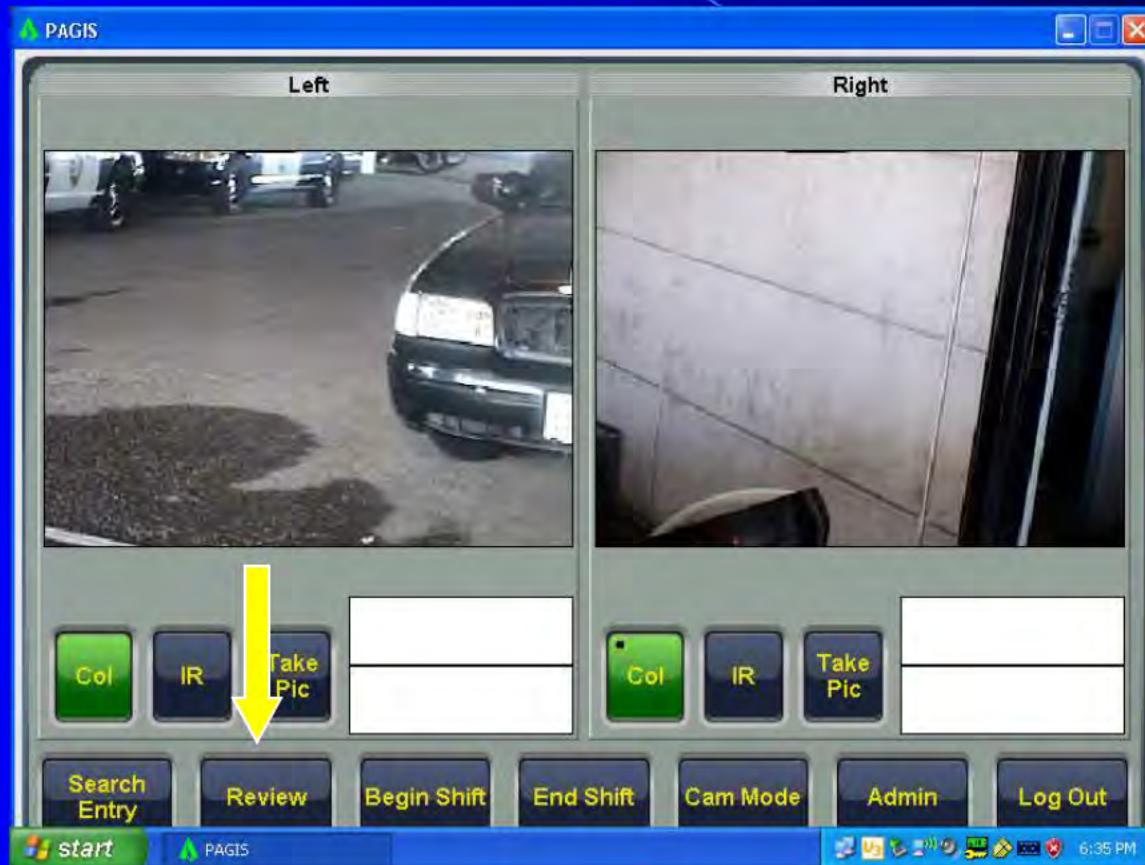


Adding a Wanted Plate

- Add any additional information in narrative box
- Hit **“SAVE”**
- Information will be saved to the local computer. (Does not save onto the server)

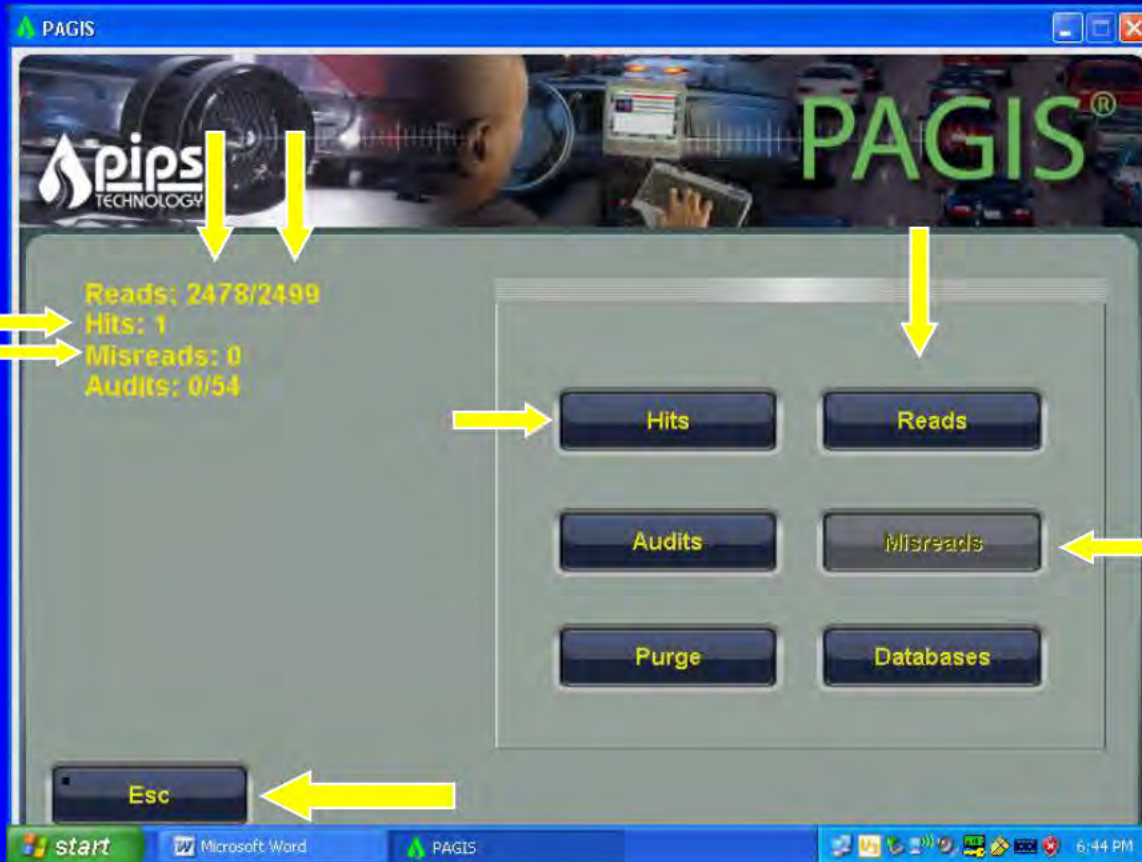
The screenshot shows the PAGIS software interface. At the top, there is a banner with the 'pips TECHNOLOGY' logo and the 'PAGIS' logo. Below the banner, the window title is 'Add VLP Report'. The main content area displays the plate number 'ABC123' and four buttons: 'Amber Alert', 'Felony', 'Stolen', and 'Misc'. The 'Stolen' button is highlighted. Below these buttons is a large text area containing the text 'Stolen: ABC123 @ 6/14/2007 6:39:56 PM'. To the right of this text area is a 'Key Pad' button. At the bottom of the form, there are two buttons: 'Esc' on the left and 'Save' on the right. A yellow arrow points to the 'Save' button. The Windows taskbar at the bottom shows the 'start' button, a document icon, and the 'PAGIS' application icon. The system tray on the right shows the time as 6:39 PM.

Other Features in PAGIS



Review Plate Reads

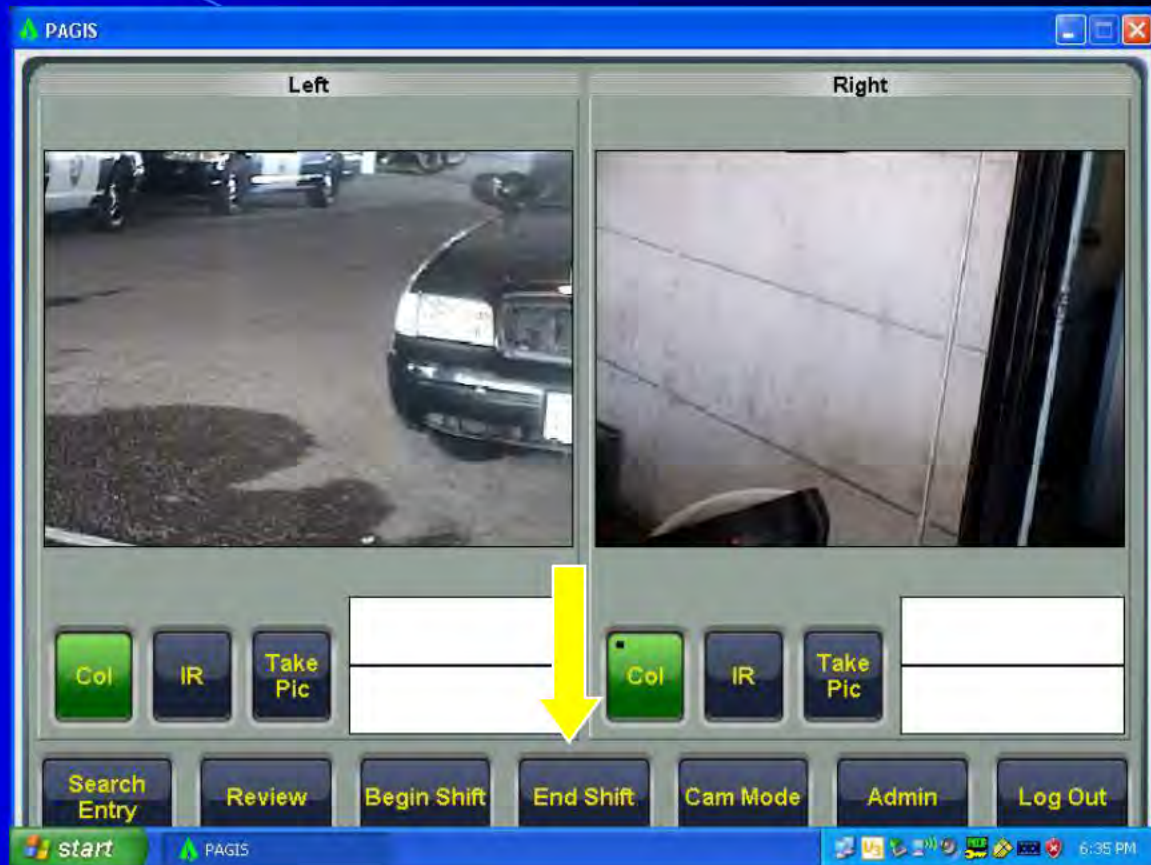
Review Plate Reads



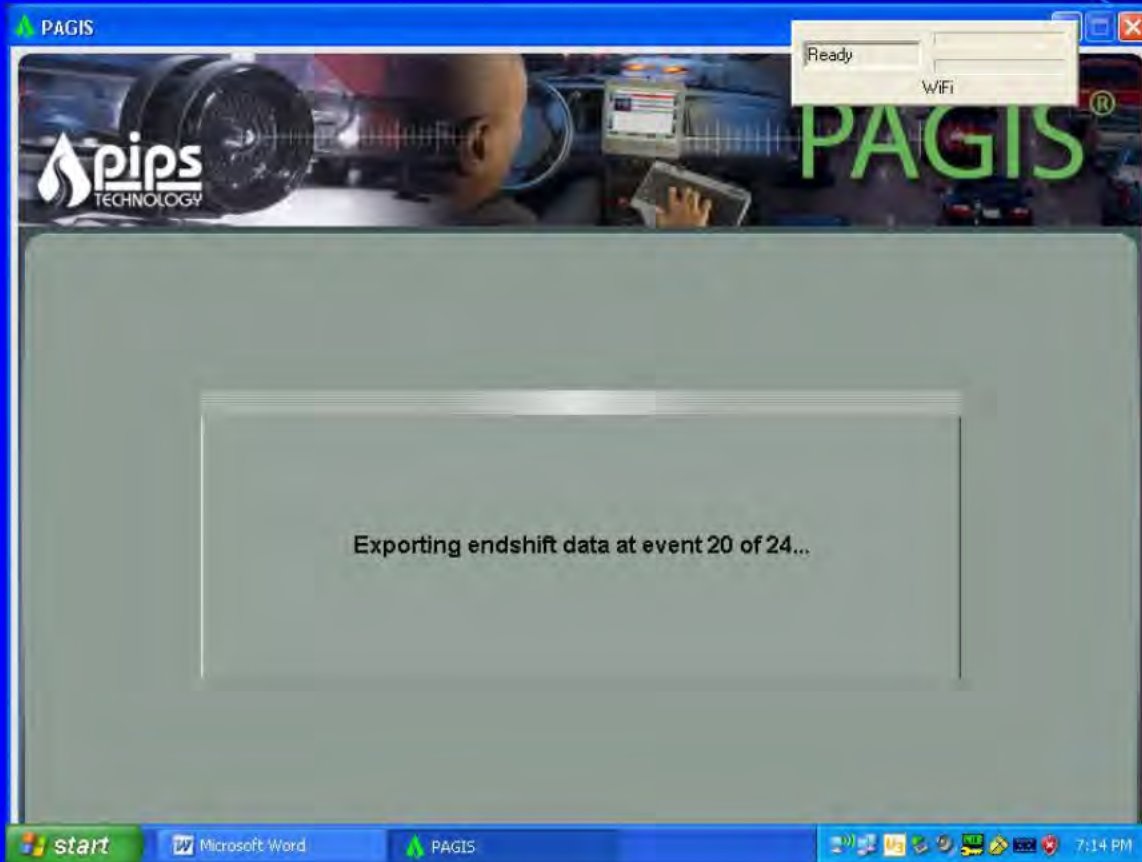
- Summary screen for basic “Stats”
- Tap “**READS**” to see all plates read
- Select “**Hits**” to view all hits
- Tap “misreads” to view misreads
- “**ESC**” to exit

ENDSHIFT

- Should be done at transportation
- Confirm that you are connected to the server via Wifi
- Double tap “**END SHIFT**”

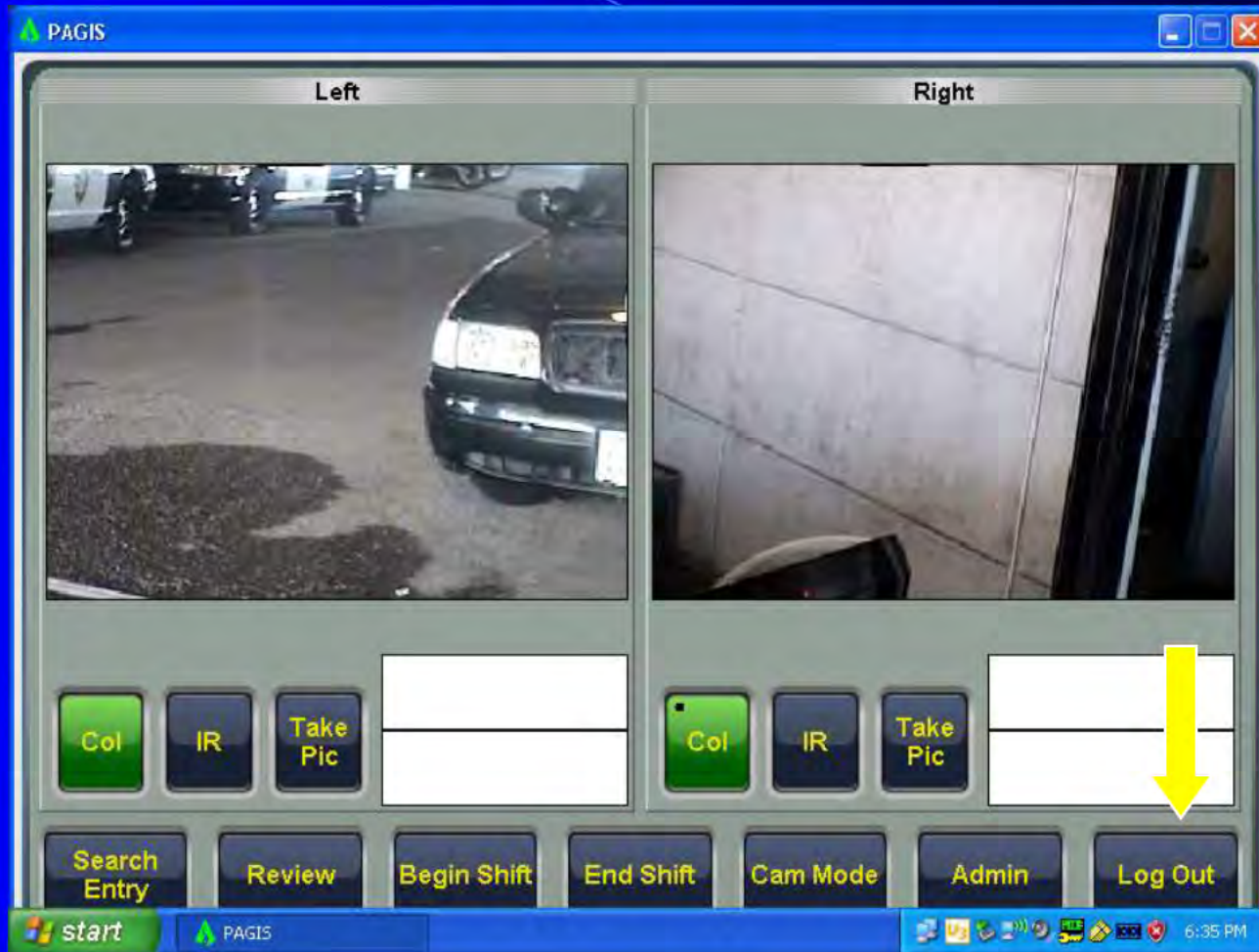


Endshift-Downloading Data



- Computer will download all the plates read to the server
- This may take several minutes depending on the number of plates read

LOGGING OFF PAGIS



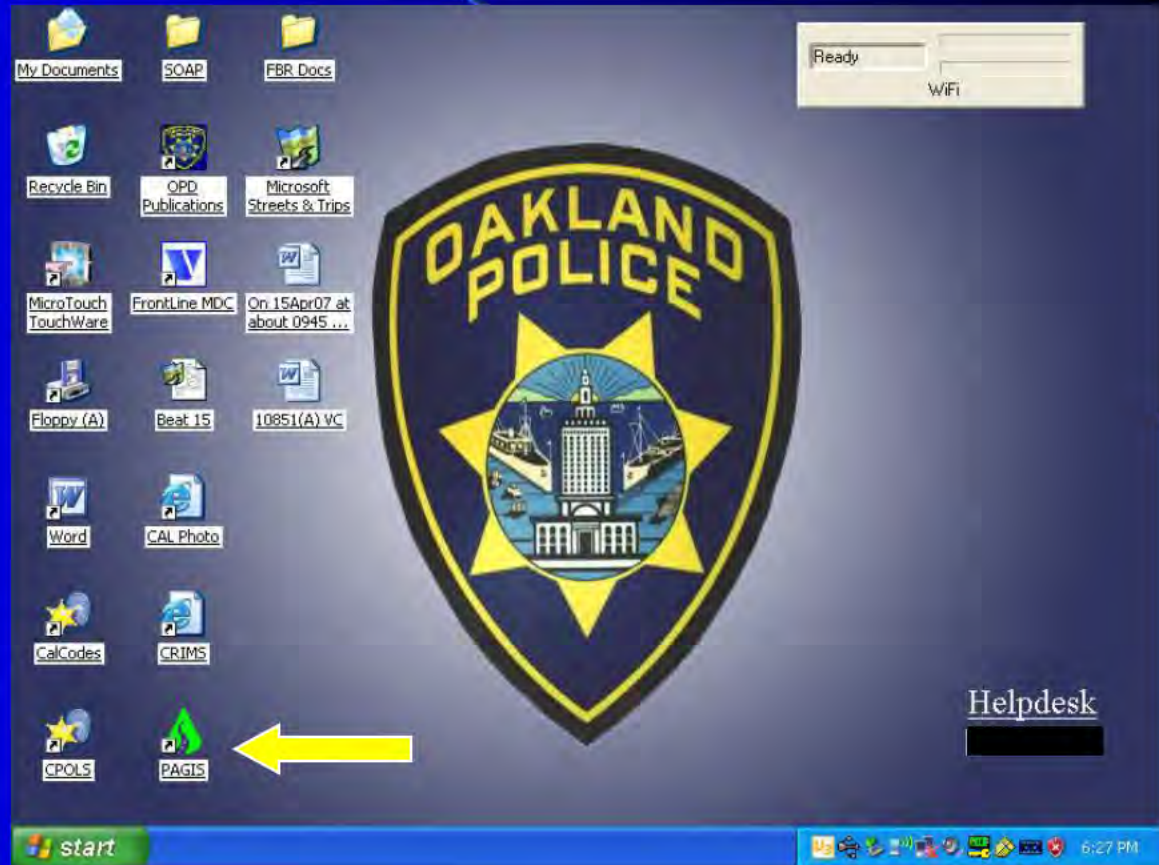
LOGGING OFF

- You **MUST** log off PAGIS at EOW
- Hit the “**Log out**” button to log off PAGIS
- Hit the “**Exit**” button to log off the PIPS computer
- Turn off the MDT as normal
- **YOUR DONE!**



Troubleshooting

- If PAGIS doesn't automatically load
- This might occur when you restart the computer during your shift
 - Double click the PAGIS Icon on the remote desktop



Logging into BOSS

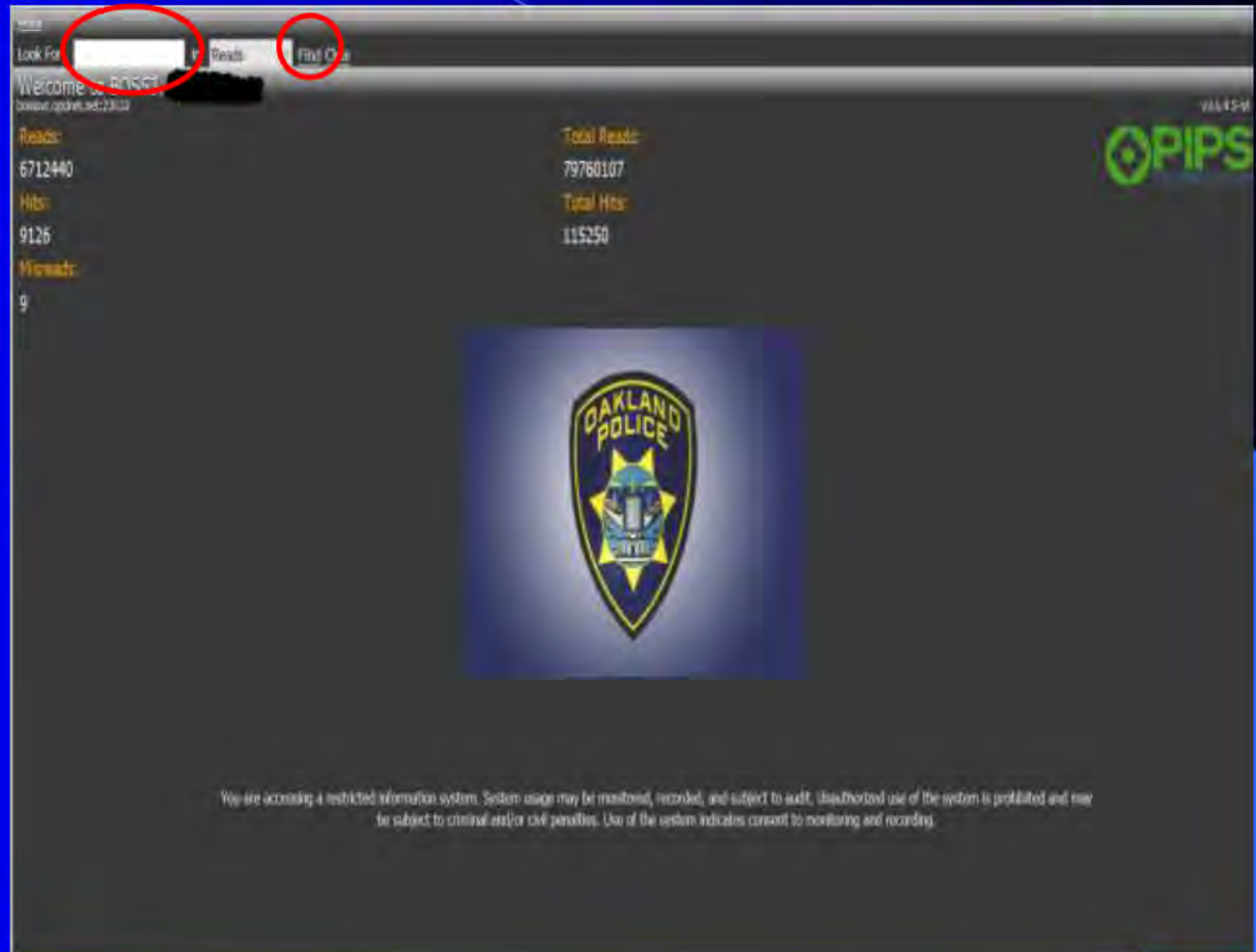
Investigative Database

- Contact the Police IT unit for a BOSS account.
- Click on the BOSS Icon on your desktop.
- Enter your user credentials.



Searching for plates in BOSS

- Enter the license plate you want to search for into the “Look For” box.
- Click the “Find” button.



Search Justifications

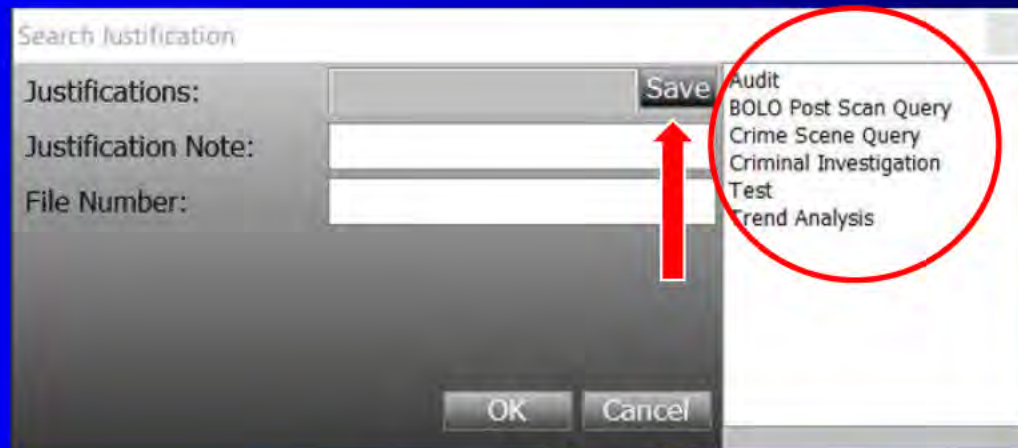
- Once the user clicks the “Find” button to search for a license plate they must enter their justification information in the justification box prior to the system searching for the license plate.
- Click on the Justifications “Select” Button



The screenshot shows a dialog box titled "Search Justification". It contains three input fields: "Justifications:", "Justification Note:", and "File Number:". A "Select" button is located to the right of the "Justifications:" field and is circled in red. At the bottom of the dialog box, there are "OK" and "Cancel" buttons.

Search Justifications

- The select button will open a selection box to the right of the button. Select the search type you are conducting and click the save button.



Search Justifications

- Enter a justification note into the “Justification Note” field. This is to identify the type of crime or incident being investigated.
- Enter a report number or full incident number into the File Number field.
- Select the “OK” button once everything has been entered.
- The system will then run your license plate query.



The screenshot shows a dialog box titled "Search Justification". It contains three input fields: "Justifications:", "Justification Note:", and "File Number:". The "Justification Note" field is circled in red, and a red arrow points to it from the right. The "File Number" field is also circled in red. At the bottom of the dialog, the "OK" button is circled in red, and a red arrow points to it from the left. A "Select" button is visible next to the "Justifications:" label.

Legal

- An ALPR shall only be used for official law enforcement business.
- Accessing data collected by ALPR requires a right to know and a need to know.
- No ALPR operator may access department, state or federal data unless otherwise authorized to do so.

Legal Con't

- Department members shall not allow others to use the database records for any unauthorized purpose.
- Please review the following civil codes
 - Civil Codes 1798.90.5 through 1798.90.55

Data Breach Reporting & Post Breach procedures

- Users are to alert their supervisor upon identifying a breach of the ALPR system.
- The supervisor should contact the City IT Help Desk by phone [REDACTED] or email [REDACTED] and advise of the system breach.
- If the breach is identified after business hours, the user's supervisor should contact communications to alert the on call City IT technician.

ALPR Demo



Problems with the system

- Contact the Police Information Technology Unit at

[REDACTED]