GETTING STARTED

EXPLORING THE MAIN MENU

CONTROL BUTTONS

SETUP

Camera/DSP Settings (Condor Version)
Camera/DSP Settings (Reaper Version)
Audio Settings
OCR Settings
Alert Settings
Clean Settings
LEARN Setting
Proxy Settings

IMPORT HOTLIST

START/END SHIFT

ADD PLATE

SEARCH

DAY/NIGHT

CAMERA NAVIGATION BUTTONS

Camera Aiming
Manual Capture
Snapshot
Mobile Hit Hunter (MHH)

DETECTION VIEW

HIT VIEW

STATUS LIGHTS

Connection Overview
Cameras
LEARN
GPS
System

CONTACT VIGILANT
GETTING STARTED

DESKTOP ICON

OPERATING WARNING

ENTER LICENSE CODE OR

RUN 60 DAY TRIAL

CONNECT TO CARDETECTOR DATABASE

Enter User Credentials

Faster Startup

Throughout the mobile LPR software, you will see a little keyboard symbol. Clicking this will bring up a built-in virtual keyboard.
EXPLORING THE MAIN MENU

### CONTROL BUTTONS

- **SETUP** Launches the main setup parameters and options for CarDetector
- **IMPORT HOTLIST** Allows the operator to add Hotlist files to the hotlist database
- **START SHIFT** Bookmarks a period for reporting and exporting data records
- **ADD PLATE** Allows the operator to add single plates to the hotlist database
- **SEARCH** Search utility to access all LPR data in the local CDMS database
- **DAY/NIGHT** Switch between Day Mode Theme and Night Mode Theme
- **MINIMIZE** Minimizes the CarDetector app while operating in the background
- **EXIT** Terminates the CarDetector program

---

### CONTROL BUTTONS

- **Setup**
- **Import HotList**
- **Start Shift**
- **Add Plate**
- **Search**
- **Day/Night**
- **Minimize**
- **Exit**

---

### 4 INFORMATION WINDOWS

- Active Camera Feed
- Detection Viewer
- Hit List
- Detection Plate List
SETUP

CAMERA/DSP SETTINGS (CONDOR VERSION)

- **CAMERA**
- **VALIDATE DSP CONNECTION**
- **SAVE SETTINGS**
- **ACTIVATE CAMERA**
- **NAME CAMERA**
- **DSP CONFIGURATION**
- **Change & Review Condor's IP Address**

![Diagram of setup page with various options and settings]

Network Configuration [192.168.1.245]
- Host name: CONDOR
- IP Address: 192.168.1.245
- Subnet mask: 255.255.0.0
- Default gateway: 192.168.0.1
- DNS Server: 0.0.0.0
- Domain Name: VigilantTV

CarDetector
- Connected Successfully
- OK

OR

CarDetector
- DSP not found
- OK
SETUP

CAMERA/DSP SETTINGS (REAPER VERSION)

ACTIVATE CAMERA

NAME CAMERA

CAMERA IP

SAVE SETTINGS

ACTIVATE CAMERA

NAME CAMERA

CAMERA IP

NETWORK CONFIGURATION

SAVE SETTINGS

VIEW DSP DETAILS

Change & Review Reaper’s IP Address

MANUALLY ADD IP OF DSP

SELECT CHECKED IP

CHANGE DSP

CONFIG IP

DSP INFO

Apply

Close

Network Configuration [192.168.1.10]

IP Address 192.168.1.10

Host name ReaperSD
IP Address 192.168.1.10
Subnet mask 255.255.255.0
Default gateway 192.168.1.10
DNS Server 0.0.0.0
Domain Name
Engine Version 2.1.111815, 1500
Video Output

OK
Cancel
SETUP

AUDIO SETTINGS

CONFIGURE AUDIO ALERTS TAB

Assign specific sound to detection types
OCR SETTINGS (REAPER VERSION)

OCR TAB

ASSIGN APPROPRIATE REGION TO ENSURE ACCURATE DETECTION

OCR SETTINGS (CONDOR VERSION)

SELECT LPR CAMERA TYPE

How do I know what type of LPR camera to select?
- Click Here -
SETUP

ALERT SETTINGS

Set alert parameters and notification type for CarDetector application.

DEFINe METHOD OF MATCHING DETECTED PLATES TO HOTLISTS

EXACT MATCH + PLATE 1 ONLY: Make an alarm sound when any detected plate number on PLATE 1 column exactly matches all characters of a plate number in the hot list.

EXACT MATCH + PLATE 1 & PLATE 2: Make an alarm sound when any detected plate number on PLATE 1 column and PLATE 2 column exactly matches all characters of a plate number in the hot list.

ONE-OFF MATCH + PLATE 1 ONLY: Make an alarm sound when any detected plate number on PLATE 1 column which has only one character difference from one of those of any plate number in the hot list (including the case if a plate with less or more than one character).

ONE-OFF MATCH + PLATE 1 & PLATE 2: Make an alarm sound when any detected plate number on PLATE 1 column and PLATE 2 column which has only one character difference from one of those of any plate number in the hot list (including the case if a plate with less or more than one character).

PLATE 1 VS PLATE 2:
Plate 1 is the first interpretation the Engine read the plate to be and Plate 2 is the second interpretation of the same plate. They are not separate Detections.
DELETE LOCAL LPR DATA OLDER THAN [X] DAYS: Check to enable Archive Maintenance. Specify the maximum number of days for the archive to hold. All data older than ‘X’ days will be deleted.

NOTE: Detection records remain in LEARN after local data is deleted.
LEARN SETTINGS

Connect to the LEARN Server for advanced database features.

Establishes data transfer from and to LEARN server.
PROXY SETTINGS

Proxy settings are only needed if your connection to the internet requires it. Ask your IT Department if you are having problems connecting to the internet.
Easily add an individual license plate to the Hotlist database. This allows you to import a Hotlist that is local to the system.

This is also where you would upload your BHL file from LEARN if you are doing a Make Base Hotlist to load your hotlist. Please contact your Agency Manager for more information.
START SHIFT/END SHIFT

Bookmark detection period to create reports or export data for review. License plate data collection is independent of Start/End Shift function.

Ability to export detections and hits to be uploaded to LEARN. This is used if system is unable to have continuous connection to LEARN.
Easily add an individual license plate to the hotlist database. Add license plate to local vehicle only or distribute to all other LPR vehicles within agency.

*Indicates required fields (License Plate #, State & Alert Type)
SEARCH

Search among detections, hotlists, and hits for CDMS LPR data.

NOTE: Searching against Whitelist and Digital Chalking is only usable when Parking Enforcement is enabled.
DETECTIONS

SELECT A RECORD TO VIEW

RECORD DETAIL

FIND LOCATION SELECT A RECORD TO VIEW (NEAREST ADDRESS)
DAY/NIGHT MODES

Toggle between Day Mode and Night Mode.

DAY MODE

NIGHT MODE
CAMERA NAVIGATION BAR

You will only be able to search the hotlist associated with the location you are currently in.

WARNING: LIVE VIDEO RENDERING SHOULD ONLY BE USED WHILE AIMING CAMERAS. THIS HELPS TO PRESERVE COMPUTER RESOURCES.
CAMERA AIMING

All cameras will render simultaneously and allow user to correctly aim each camera.

TOGGLE BETWEEN COLOR & IR VIEWS
AIMING SHOULD ALWAYS BE CONDUCTED WHILE VIEWING IR VIDEO
PIXEL HEIGHT BOX:
FOR PROPER AIMING THE PIXEL HEIGHT SHOULD BE BETWEEN 14-19 (GREEN)
MANUAL CAPTURE

SELECT CAMERA

AIM THE CAMERA AT THE DESIRED LICENSE PLATE AND CAPTURE THE IMAGE

ENTER PLATE NUMBER AND SAVE

Vehicle Image Will Display Here

Manual LPR Capture

Camera 1

Camera 2

Capture

Close

Enter Plate #:
SNAP SHOT

Take a snap shot of “live” IR or Color video.
MOBILE HIT HUNTER

CLICK TO TOGGLE BETWEEN SATELLITE VIEW AND MAP VIEW

TAKE A SNAP SHOT OF “LIVE” IR OR COLOR VIDEO
On the map these are the following “tick mark”
- **Green**: the position of the user
- **Blue**: the position of detected license plates
- **Red**: the position of the hit license plate
DETECTION VIEW

LIVE

➤ Provides an IR image of license plate
➤ Verification can be made - plate number matches the OCR results
➤ Provides a color overview of the vehicle

COLOR OVERVIEW

IR VIEW

Camera

OCR RESULTS

PLATE HISTORY

➤ Shows history of the plate
➤ Drop down allows you to choose hits or detections
➤ Drop down allows you to search by a specified time frame
➤ Date, time, address, city, state and zip of locations (if available)
➤ Pin marks on map show a quick-view of detections

CAMERA

PLATE HISTORY
FROM DETECTION LIST

LPR Record Data includes: vehicle images, OCR results, GPS data, Date/Time stamp, and camera data.

- **PLATE IMAGE**
- **OCR RESULTS**
- **CAPTURE CAMERA**

Double-click on any record to see all relevant information.

Click on a detection from the detection list to pause the detection scroll.

Scroll to view more records.

LPR Data Record

[Table showing LPR record data with columns for Plate, Plate Number, Camera, Date, Time, Latitude, Longitude, and Map and Location options.]
HIT VIEW

LIVE

- Type of Match
- IR image
- Hotlist plate and state
- Camera that scanned the plate

COLOR OVERVIEW IMAGE

ALARM PRIORITY COLORS:
Red - High
Orange - Medium
Yellow - Low
White - None

ALERT TYPE - IF THE ALERT TYPE IS A COLOR IT IS DUE TO ALARM PRIORITY.

HOTLIST INFORMATION

Type of Match
IR image
Hotlist plate and state
Camera that scanned the plate

CORRECT HIT OR INCORRECT HIT BUTTONS

HIT DESCRIPTION - ABILITY TO ADD ADDITIONAL INFORMATION (AGE, RACE, ACTION TAKEN)
Alarmed plates are also stored in LEARN.
## STATUS LIGHTS

### CONNECTION OVERVIEW (CONDOR VERSION)

List the connection status of camera(s), LEARN connection, GPS, and system functions.

**STATUS**

- **Green** = Good Connection
- **Red** = Bad or No Connection

### FLOW CHART PROCESS

![Flow Chart Process Diagram](image)
LIST THE CONNECTION STATUS OF CAMERA(S), LEARN CONNECTION, GPS, AND SYSTEM FUNCTIONS.

STATUS

Green = Good Connection
Red = Bad or No Connection

FLOW CHART PROCESS
GOOD DSP CONNECTION
GOOD COLOR VIDEO FEED
GOOD IR VIDEO FEED

BAD DSP CONNECTION
BAD COLOR VIDEO FEED
BAD IR VIDEO FEED
Green Indicator Lights = Good LEARN Connection

**LEARN Communication Status**

<table>
<thead>
<tr>
<th>LEARN Connectivity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LPR Data Uploads</td>
<td></td>
</tr>
<tr>
<td>Hot-List Downloads</td>
<td></td>
</tr>
</tbody>
</table>

**LPR Uploads to LEARN**

<table>
<thead>
<tr>
<th>Transferred to LEARN</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currently Processing</td>
<td>0</td>
</tr>
</tbody>
</table>

**Hot-List Downloads from LEARN**

| Hot-List Downloads from LEARN | 2286 |
| Synchronization Status       | Complete |
| Hot-List Synchronized as of  | 09/17/18 18:46:43 |

**Red = No Connection**

- No Detections sent to LEARN
- No Hotlist sent from LEARN to vehicles
GPS Location - Location button (Search) Yields Nearest Address
System Startup Process – Check System Components

If System Light is **RED**, LPR System cannot function

**CONTACT VIGILANT**

**VIGILANT SOLUTIONS SUPPORT**

1152 Stealth Street | Livermore, CA 94551
Tel: +1 (925) 398-2079 | Fax: +1 (925) 398-2113
vigilantsolutions.com
support@vigilantsolutions.com