Los Angeles County Sheriff’s Department

Automatic License Plate Recognition—ALPR
Deployed on radio cars

or at fixed locations
Automatic License Plate Recognition Cameras

3 camera assemblies located on radio light bar

Each camera assembly contains a color camera and an infrared camera
Fixed Cameras in Compton
The original concept of License Plate Recognition was to identify stolen vehicles. Since its deployment, additional applications have been implemented and continue to develop,
Benefits of ALPR/BOSS

- ALPR has the “ability” to read more than 14,000 license plates during the course of a shift (does not read black or blue),

- can read a license plate, coming in the opposite direction, at over 160mph (closing speed)

- provides an overview photograph of the vehicle and its license plate,

- imbeds a “stamp” of the date, time, GPS coordinates, and other data,

- can also obtain the license plate in difficult conditions. For example, poor lighting conditions, or when the vehicle is approaching and it’s headlights make it difficult to read.
Here's an example;

- Login ID: MDR
- Confidence: 98
- Timestamp: 7/23/2009 1:14:02 AM
- Location: MDR-M-SD7012
- GPS: 33.99112, -118.330875

Vehicle: 6CVJ051
Applications for ALPR

- locate wanted/stolen vehicles,

- identify vehicles with L.A. County misdemeanor warrants of $26,000 or greater, all felony warrants, and no bail warrants,

- locate vehicles identified by the Amber alert system,

- locate vehicles which are frequently sold or not registered,

- assist in traffic enforcement by identifying drivers with outstanding DUI’s, suspended license warrants, which frequently result in higher hit and runs collisions,

- monitor “party calls” where assaults and homicides sometimes occur, providing critical investigative information,

- monitor locations of suspected narcotic or gang activity,

- monitor motels where criminals may attempt to hide and evade law enforcement, or large parking lots,
-provide data for department investigators to search areas impacted by rising crime rate such as residential burglaries, vehicle burglaries and thefts,

-provide data where station desk personnel can access license plate information related to, “just occurred” calls. That information can be provided to responding units where detailed vehicle information can be updated from photographs in the BOSS system, extremely useful to Sheriff department Areo units, possible direction of travel or destinations can be provided, follow vehicles may be identified,

- additional victims and witnesses may be identified. Investigators have deployed ALPR in locations where a crime has occurred, identified motorists who commute in that area during that time period,

- it may also be useful in clearing someone of an allegation and help determine the truthfulness of a suspect or witness,
Brief overview of an ALPR car

Deputies will download the updated wanted/stolen information via a wireless connection at their station,
During or at the end of their shift, they can upload their scans/reads to the BOSS server which will now be available to department investigators,
Important considerations regarding access to the data:

The Department of Justice (DOJ) provides updated lists of stolen/wanted vehicles 3 times a day,

2:45 AM 10:45 AM 6:45 PM

Warrant information is updated 2 times a day,

Scans or reads are stored in the processor located in the trunk, until the deputy uploads the data at the station to the server,

Patrol deputies have the ability to manually enter license plates into their ALPR system, (i.e. a 215 P.C. just occurred),
How to access the BOSS system

INTRODUCTION:
As the Sheriff Department expands its technology offerings and makes Internet access available to all users, it is important to adhere to Department guidelines in mind when it comes to using computers and the Internet. For this reason your Internet Explorer default has been set to this website page listing the Internet Use Guidelines.

IMPD 3-07/210.00 PERMISSIBLE USE:
The use of any Department computer resource is restricted to those activities related to Department business. Use of computers and electronic communications by employees is authorized in support of the law enforcement mission of the Department and the administrative functions that support that mission. Sheriff’s Department employees and other authorized users shall adhere to this policy as well as the guidelines set forth in the County Electronic Data Communications and Internet Policies.

Employees are expected to abide by the standards of conduct delineated in other volumes, chapters and sections of the Department’s Manual of Policy and Procedures as they may be applied to the use of electronic communications and use and release of information.

GUIDELINES:
Managing each user’s Internet access will be the responsibility of the unit where the user is assigned.

A Unit Commander at his discretion may allow, restrict or remove Internet access for any user in their unit.

LASD will filter access to Internet sites and Internet usage in general. Web sites, Web services, or materials deemed inappropriate by the Department will be blocked and not made available to users.

All users of LASD’s Internet access service which are in violation of any federal, state or local law, County of Los Angeles Code, LASD’s Policy and Procedures Manual, or these guidelines are severely restricted.

All Internet access through the Sheriff’s Data Network is monitored and logged on an ongoing basis. LASD has the right and capacity to monitor Internet usage by each user on the system.
Crime Scene 3-D Laser Scanner - SEE IT IN ACTION!

Los Angeles County Sheriff's Department Intranet
Advanced Surveillance and Protection - ASAP

The Los Angeles County Sheriff’s Department enjoys a tradition of leadership and excellence in law enforcement tactics, training, and technology. Consistent with that reputation, our Department is piloting the Advanced Surveillance and Protection (ASAP) plan to assist with our gang and crime fighting efforts.

ASAP features a variety of technologies such as high-definition digital video surveillance, acoustic gunshot detectors, automatic license plate recognition (ALPR), and other advanced wireless components, integrated into a command center functioning with station dispatch. Some of the technical components have already been used by the Sheriff’s Department and throughout the country for limited law enforcement applications. ASAP will serve to expand the use of advanced technologies in the field, strengthen criminal prosecution with video evidence, and provide real-time intelligence to improve officer safety.

The ASAP pilot will be deployed at Compton Station, with the initial phases of Compton ASAP being funded through the generous support of corporate partners such as Belkin and Target Corporations.

The Sheriff’s Technical Services Division is establishing the best practices and coordinating deployment throughout the Department. Many of our contract cities are already working with the Sheriff’s Department to develop a strategy to deploy ASAP or some of its components within their communities.

For information on ASAP, contact the ASAP Unit at 323-354-4995 or email ASAP@lasd.org.
ASAP TOOLS

License Plate Recognition Search Engine

ASAP Deployment

ASAP Tutorials

ASAP News

ASAP Success Stories
Log in screen
<table>
<thead>
<tr>
<th>Login Name:</th>
<th>187</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password:</td>
<td>187</td>
</tr>
</tbody>
</table>

Forgot your Login Name or Password?
### Hello Homicide Bureau, Welcome To BOSS.

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reads</td>
<td>7924264</td>
</tr>
<tr>
<td>Hits</td>
<td>15430</td>
</tr>
<tr>
<td>Misreads</td>
<td>255</td>
</tr>
<tr>
<td>Audit Info</td>
<td>48789</td>
</tr>
<tr>
<td>Targets</td>
<td>0</td>
</tr>
</tbody>
</table>

- [BOSS Stats (Include All Archives)]
<table>
<thead>
<tr>
<th>Local</th>
<th>All lasd vehicles/sights</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Servers</td>
<td>Long Beach PD</td>
</tr>
<tr>
<td></td>
<td>El Segundo PD</td>
</tr>
<tr>
<td></td>
<td>Burbank PD</td>
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<tr>
<td></td>
<td>La Verne PD</td>
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<tr>
<td></td>
<td>Monrovia PD</td>
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<tr>
<td></td>
<td>Glendora PD</td>
</tr>
<tr>
<td></td>
<td>Torrance PD</td>
</tr>
<tr>
<td></td>
<td>CSU Long Beach PD</td>
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<tr>
<td></td>
<td>Irwindale PD</td>
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<tr>
<td></td>
<td>Arcadia PD</td>
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<tr>
<td></td>
<td>South Pasadena PD</td>
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<tr>
<td></td>
<td>San Gabriel PD</td>
</tr>
<tr>
<td></td>
<td>Glendale PD</td>
</tr>
<tr>
<td></td>
<td>Beverly Hills PD</td>
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<tr>
<td></td>
<td>Monterey Park PD</td>
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<tr>
<td></td>
<td>Sierra Madre PD</td>
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<tr>
<td></td>
<td>Gardena PD</td>
</tr>
<tr>
<td></td>
<td>Vernon PD</td>
</tr>
<tr>
<td></td>
<td>Hawthorne PD</td>
</tr>
<tr>
<td></td>
<td>LAPD</td>
</tr>
<tr>
<td></td>
<td>Manhattan Beach PD</td>
</tr>
<tr>
<td></td>
<td>Pasadena PD</td>
</tr>
<tr>
<td></td>
<td>South Gate PD</td>
</tr>
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</table>

[Search]
**Searching a license plate,**

<table>
<thead>
<tr>
<th>New Search</th>
<th>License Plate</th>
<th>Location</th>
<th>Address</th>
<th>Radius</th>
<th>Options</th>
<th>Misreads Only</th>
<th>Hits Only</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>1ABC123</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start Date and Time</th>
<th>End Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 Sep 2008</td>
<td>26 Oct 2009</td>
</tr>
<tr>
<td>13 42</td>
<td>13 42</td>
</tr>
</tbody>
</table>
Searching a partial license plate.

New Search
License Plate: 1ABC*
Location: 
Address: 
Radius: 
Options: Misreads Only, Hits Only
Start Date and Time: 28 Sep 2008, 13 42
End Date and Time: 26 Oct 2009, 13 42

Results:
1ABC*
*C123
*ABC*
1AB_123
1A_C1_3
*ABC___3
### Searching by an LASD/ALPR vehicle

<table>
<thead>
<tr>
<th>New Search</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>License Plate</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>SD7002</td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Radius</td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td>Misreads Only</td>
</tr>
<tr>
<td>Start Date and Time</td>
<td>28 Sep 2008</td>
</tr>
<tr>
<td>End Date and Time</td>
<td>26 Oct 2009</td>
</tr>
</tbody>
</table>
Searching an address or area

NEW SEARCH
LICENSE PLATE
LOCATION
ADDRESS
12440 E. Imperial Hwy, Norwalk
RADIUS
5.0
OPTIONS
MISREADS ONLY
HITS ONLY
START DATE AND TIME
END DATE AND TIME
30 Apr 2009 12 48
30 Jul 2009 12 48
LOGIN
INFORMATION
MI
Km
NO PAGING
SERVERS
Local
All
**Searching by date(s)**

- **NEW SEARCH**
- **LICENSE PLATE**
- **LOCATION**
- **ADDRESS**
- **RADIUS**
- **OPTIONS**
  - **MISREADS ONLY**
  - **HITS ONLY**
- **START DATE AND TIME**: 28 Sep 2008
- **END DATE AND TIME**: 26 Oct 2009
**NEW SEARCH**

**License Plate**

**Location**

**Address**

**Radius**

**Options**

**Start Date and Time**

**End Date and Time**

**Misreads Only**

**Hits Only**

**Dates:**
- 28 Sep 2008
- 26 Oct 2009

**Times:**
- 13:42

Search by station

Search beyond 45 days
<table>
<thead>
<tr>
<th>Select</th>
<th>License Plate</th>
<th>Date/Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4XGY219 USCA</td>
<td>7/30/2009 12:13:14 PM</td>
<td>LACO WARRANT: LAM9MP6705901, 23152(A)/VC MISDEMEANOR, VES-34</td>
</tr>
<tr>
<td></td>
<td>5RTK715 USCA</td>
<td>7/30/2009 11:47:44 AM</td>
<td>Stolen Vehicle: CA1920090608, VES-14</td>
</tr>
<tr>
<td></td>
<td>9LZH558 USCA</td>
<td>7/30/2009 11:22:05 AM</td>
<td>Lost or Stolen Plate: CA1920070330, VES-29</td>
</tr>
<tr>
<td></td>
<td>4GFT279 USCA</td>
<td>7/30/2009 11:13:14 AM</td>
<td>Lost or Stolen Plate: CA1920090105, VES-33</td>
</tr>
<tr>
<td></td>
<td>5ZQCI30</td>
<td>7/30/2009 10:23:34 AM</td>
<td>LACO WARRANT: P49BS4919000, 12500A/VC MISDEMEANOR, PLM</td>
</tr>
<tr>
<td></td>
<td>5ZQCI30</td>
<td>7/30/2009 10:22:53 AM</td>
<td>LACO WARRANT: P49BS4919000, 12500A/VC MISDEMEANOR, PLM</td>
</tr>
<tr>
<td></td>
<td>7K5G665</td>
<td>7/30/2009 9:33:30 AM</td>
<td>LACO WARRANT: LG7BF0868501, 14601.1(A)/VC MISDEMEANOR, GEN</td>
</tr>
<tr>
<td></td>
<td>7Y51579</td>
<td>7/30/2009 8:55:08 AM</td>
<td>Lost or Stolen Plate: CA5420080905, CEN</td>
</tr>
</tbody>
</table>
You **MUST** compare these plates. All hits must be confirmed.

If they do not match, it did not check the database correctly, but the scanned plate may still be identifiable.
**GPS map**

**LOCATION:** PLM-M-SD7000

**VIN:** 5ZQC130

**GPS:** 34.601925, -118.14427

<table>
<thead>
<tr>
<th>LACO Warrant</th>
<th>HUNTER, MARIO JULYSES</th>
<th>M/B DOB: 01/05/1977</th>
<th>$60,035.00</th>
<th>P498543919000, 12500/A/V/C MISDEMEANOR</th>
</tr>
</thead>
</table>

**Map:**

- The map shows a detailed view of a location with streets and landmarks.
- The location is marked with a pin.
- The map includes a legend with options for different views (Map, Satellite, Hybrid).
Deputies in the cars can enter license plates they wish to search for. An example might be a 215 P.C. just occurred.

An investigator can also request the field deputy to enter a plate that they are trying to locate.

The advantage to a manual entry is that the car’s ALPR system is updated immediately and you do not have to wait for the deputy to update at the station through the wireless connection.

Once the field deputy conducts the wireless update, the manual entry is deleted from the radio car and entered into BOSS. It does not update the other vehicles that the vehicle is wanted.

A manual entry in BOSS may look like a scan, but it is not. The difference is that there is no photograph of the scan, the “confidence” number is “100”, and the location will be the GPS where the entry was made, (i.e. a Sheriff’s station).
A Century deputy manually entered a stolen vehicle they were looking for,
No vehicle photo

“Confidence” level is “100”
Export Function

Each results page will have an “Export” function link. This will export all relative information from the results page. This can then be entered into an Excel spreadsheet, WORD document, etc.
Export Function
Displays all information for each vehicle in results. Displays the following: Read ID, Vehicle login, Confidence, Timestamp, GPS location, etc.
ALPR data pasted in Excel can be modified and searched for crime analysis.
The following stat codes are available for ASAP/ALPR:

835-ASAP/ALPR-Mobile

836-ASAP/ALPR-Fixed

837-ASAP-CCTV

838-Gunshot detection

839-ASAP-misc

These stat codes may not be listed in your books. Please include them where possible. Also, any success stories involving ALPR/BOSS can be forwarded to the asapteam@lasd.org.
Email at: ASAPTEAM@LASD.ORG

562) 345-4390