

ALPR SYSTEMS

ELSAG[®] PLATE HUNTER TOOLBOX



THE ALPR SYSTEM THAT HOLDS MORE THAN CONSTRUCTION TOOLS

There's nothing remarkable-looking about our diamondplate pickup truck toolbox. That makes it the perfect place to conceal our automatic license plate reader (ALPR) system to read plates when parked or moving.

One ELSAG toolbox conceals all system components: cameras, sensor, processing unit, and an independent power source. As vehicles pass by, ALPR cameras read license plates automatically comparing each to a hotlist of suspect vehicles. When there's a match, audio and visual alarms broadcast to a command center and nearby officers for real-time interdiction. The ALPR data can be stored on an ELSAG Enterprise Operations Center data management server for query and analysis to aid investigations.

Features of the ELSAG Toolbox:

- System is stored in a diamond plate, truck bed toolbox with a special window
- Accurately reads license plates, alerting a command center, as well as officers in the field, if a plate number matches an entry on a hotlist
- Captured data includes photos of the license plate, vehicle make, type, and color, GPS coordinates of the read, plus date/time stamps
- Performs day or night in all lighting and weather conditions
- Reads non-structured vanity and specialty plates

The ELSAG Plate Hunter Toolbox in Action

- 1. Image Capture:** Plate reader cameras inside the toolbox capture high-resolution images of license plates as vehicles pass by.
- 2. Character Recognition:** Customized neural networks are used to recognize and extract characters from the license plate and are the basis for the machine learning capabilities used for the perpetual improvement in license plate and character recognition.
- 3. Character Analysis:** Once the characters have been recognized and converted into text, the ALPR system can perform various data analyses. This may include checking the license plate against a database of stolen or wanted vehicles, searching for matches to specific license plates of interest related to a crime, or monitoring the movements of suspect vehicles over time.
- 4. Alert and Response:** If the ALPR system identifies a license plate that matches hotlist or whitelist criteria or requires further investigation, it generates an alert for law enforcement or security personnel to respond accordingly.

Camera Read



000-01T8

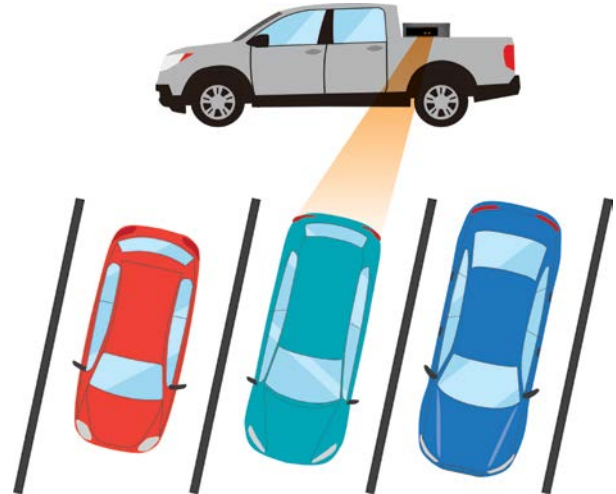
Hotlist or Whitelist Database

Y01-N010

000-01T8

P93-F6L4

400-591T



ELSAG Toolbox ALPR Performance

- Cameras read license plates, day or night, in any weather.
- Plates are processed at up to 150 mph (241 kph) closing and passing speeds.
- Plates are recognized using countrywide OCR Models.
- Alerts are sent to officers, command centers and other patrol cars instantly, upon identifying a suspect vehicle.
- ALPR data can be stored in the ELSAG EOC data management center and queried, to aid investigations.
- Hotlist updates transmit to the system as often as needed.

Other ELSAG Custom solutions include:

- ELSAG Barrel Camera – roadside construction barrel
- ELSAG Pole Camera – disguised as a utility box with weathered patina
- ELSAG Cargo Carrier – vehicle rooftop cargo carrier
- ELSAG Radar Trailers and Variable Message Boards – various speed detection trailers outfitted with ALPR systems

For more information:
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