ALPR SYSTEMS

2024 PRODUCT CATALOG

ELSAG® Automatic License Plate Reader/
Automatic Number Plate Reader Technologies

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LEONARDO

WITH 70% OF CRIMINAL ACTIVITY IN THE U.S. INVOLVING A VEHICLE, ELSAG PLATE HUNTER ALPR SYSTEMS ARE CRITICAL TO ADDRESSING MANY MISSIONS.

Real Time Intervention

- SILVER and AMBER Alerts
- Auto theft recovery
- Highway and traffic safety
- Homeland security
- Perimeter security
- Probable cause generation
- Rental contract violations

Revenue Collection

- Garage and lot access
- Parking enforcement
- Scofflaw violations
- Tax collection
- Toll collection

Intelligence Gathering

- Suspect surveillance
- Link analysis
- Traffic pattern analysis
- Convoy analysis
- Cross search analysis

ELSAG Plate Hunter In Action

Digital ELSAG ALPR cameras are securely mounted to the patrol car or to infrastructure like a utility pole or sign gantry.

1. **Image Capture:** Plate reader cameras capture high-resolution images of license plates as vehicles pass by. The cameras may be mounted on stationary objects such as poles, overpasses and buildings, or they may be part of a mobile system installed on a vehicle.

2. **Character Recognition:** Customized neural networks are used to recognize and extract characters from the license plates 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 LPR system can perform various analyses on the data. 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 LPR 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.

ELSAG Plate Hunter Performance

- Cameras read license plates, day or night, in any weather.
- Mobile systems process plates on parked and moving vehicles.
- Plates are processed at up to 150 mph (241 kph) closing and passing speeds.
- Plates are recognized using countrywide OCR Models.
- Captured data includes vehicle make, type, and color, date/time stamps, GPS coordinates, and photo of the license plate and vehicle.
- Mobile systems easily transfer from vehicle to vehicle.
- Hotlist updates are sent to in-car laptops as often as needed.
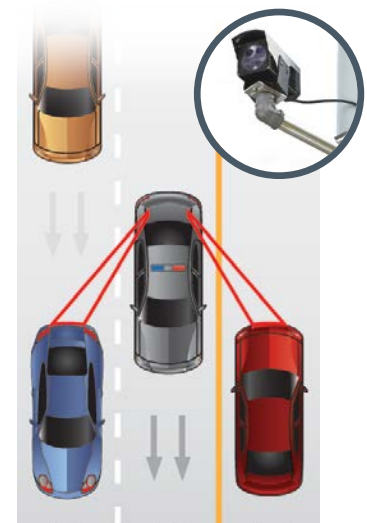- Proudly Made in the USA.

Camera Read

Hotlist or Whitelist Database

JAN *California* 2003
000-01T8

000-01T8

Y01-N010
000-01T8
P93-F6L4
400-591T

ELSAG ALPRs are also powerful parking enforcement tools.

ELSAG Plate Hunter ALPR Hardware is Dependably Law Enforcement Tough

ELSAG MOBILE PLATE HUNTER® 900 ALPR SYSTEM

The ELSAG Mobile Plate Hunter 900 (MPH900®) is the most accurate mobile automatic license plate recognition (ALPR) system available. Digital cameras mounted to the exterior of patrol vehicles read license plates while stationary or at highway speeds, comparing each to a hotlist or whitelist to identify suspect vehicles. Every suspect-vehicle read triggers real-time alarms to nearby officers and the command center. The ELSAG MPH900 aids a variety of missions such as recovery of stolen vehicles and plates, identification of unregistered vehicles, collection of delinquent taxes and fees, homeland security, investigations and more.

ELSAG FIXED PLATE HUNTER ALPR SYSTEM

The ELSAG Fixed Plate Hunter ALPR system is mounted to bridges, gantries and other structures to constantly monitor sensitive areas. Cameras with a built-in processor, a field control unit (FCU), and proprietary software, capture images of license plates, cross-checking each with hotlists or whitelists to identify vehicles of interest. Alarms broadcast in real time to a command center, patrolling vehicles, and/or mobile devices for immediate reaction. Data captured can be reviewed for relevant periods of time, aiding investigations.

ELSAG VIDEO PLATE HUNTER™ 900

The ELSAG VPH900™ system uses a software solution to convert image and video clips from select IP cameras into usable data that identifies the license plate number, vehicle make, type, and color, plus date, time, and location. Plate numbers automatically compare to hotlists or whitelists to identify suspect or authorized vehicles and generate alarms in real time. The data captured can be stored in the ELSAG EOC data management center, used by some of the world's largest police departments for its robust analytical capabilities, to aid investigations.

ELSAG STREET SENTRY™ ALPR SYSTEM

The ELSAG Street Sentry is a solar-powered fixed ALPR system that economically aids law enforcement with real time vehicle interdiction and investigations on city streets and in neighborhoods. This low-cost, autonomous system requires only a pole for installation. Just one ELSAG Street Sentry is highly effective at increasing agency productivity by reading and processing license plates 24/7 to identify vehicles of interest. Multiple deployments can create an ALPR safety net in areas around your community that need additional policing. The ELSAG Street Sentry is ideal for helping to secure community borders, parks and other public areas, high-traffic intersections, and high-crime areas.

Our ALPR Software Supports ELSAG Plate Hunter Systems and Enhances Performance for Specific Applications

ELSAG ENTERPRISE OPERATIONS CENTER

Leonardo's ELSAG Enterprise Operations Center (ELSAG EOC), software manages all ELSAG Plate Hunter mobile, fixed and custom automatic license plate recognition (ALPR) cameras with enhanced features for data security, access and auditing. The ELSAG EOC uploads and archives both read and alarm data coming from all the vehicles and fixed cameras, and also manages the distribution of the plate databases, hotlists and whitelists, to ALPR units.

The ELSAG EOC includes a website that allows remote access to data by authorized users. ALPR data stored in the ELSAG EOC can be queried and analyzed to aid investigations.

ELSAG EOC PLUS

ELSAG EOC Plus is a groundbreaking electronic surveillance system that combines LPR cameras and data with new sensor technology to help police find suspects by the devices they use. EOC Plus correlates the electronic identities of consumer electronics, like mobile phones and fitness trackers, with LPR data, through common time stamps, creating an electronic fingerprint for that collective data set. While thirty cars in 100 may contain iPhones, only one will have an iPhone 13rev2, an Audi radio, Bose headphones, a Garmin sports watch, a key finder, and the license plate ABC-1234. EOC Plus captures device frequencies emitted into the air. It does not capture the contents of the devices or their communications.

ELSAG ALPR PARKING MANAGEMENT SOLUTIONS

ELSAG ALPR parking management solutions integrate with new and legacy systems, reading license plates 24/7 to aid time-limit and permit enforcement, as well as scofflaw detection. ELSAG ALPR brings substantial efficiencies to daily operations such as session generation, lot/garage inventory, fee payment, enforcement, and security. Our ALPR solutions integrate with virtually any parking service vendor, consolidating their data with ALPR data in the ELSAG Enterprise Operations Center. This robust data management system allows you to manage all data — regardless of vendor — from one single software program, streamlining daily operations with ease.

ELSAG®
Cloud Storage
for ALPR Data

ELSAG CLOUD STORAGE SOLUTION

Store your ELSAG ALPR data on a CJIS-compliant virtual server with Leonardo's ELSAG Cloud Storage Solution (ECSS). ECSS assists agencies with the IT responsibilities and costs associated with managing an ALPR data server. Leonardo will become your IT support for the virtual server, allowing your personnel to focus on their investigations. Your agency will retain complete ownership and control of the ALPR data, with the flexibility to meet jurisdictional storage and sharing policies.

ELSAG Custom ALPR Solutions

For missions that require discretion, ELSAG automatic license plate recognition (ALPR) systems are concealed in apparatus or compartments that fit in naturally with their surroundings. These covert systems read license plates to identify suspect vehicles and are nearly undetectable. They are critical law enforcement tools, identifying license plates connected to auto theft, child predators, warrants, scofflaws, uninsured vehicles, revoked driving privileges, parole violators, and more.

Features

- All ALPR components fit in custom housing: cameras, sensor, processing unit, independent power source.
- Each custom system reads license plates day and night, in any weather, capturing plate numbers, vehicle make, type, and color, photos of the car, GPS coordinates, and date/time stamps.
- For each plate read, the ALPR system automatically compares the plate number to hotlist and whitelist databases to identify suspect vehicles.
- For every suspect vehicle identified, alarms instantly broadcast to a command center, laptop or PDA.
- Each custom solution is easy to move to a different area or switch to a different vehicle.

ELSAG PLATE HUNTER CUSTOM TOOLBOX

The diamond plate design helps disguise ALPR cameras inside the toolbox. The system reads plates whether the surveillance vehicle is parked or moving.
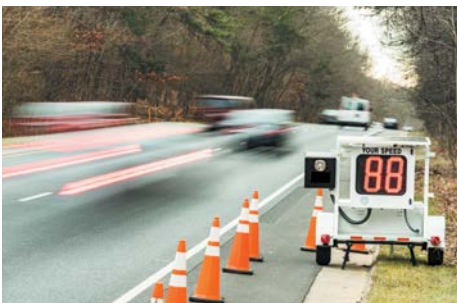

ELSAG PLATE HUNTER CUSTOM CARGO CARRIER

A full ALPR system packs neatly into a common cargo carrier, reading plates from vehicle rooftops, day and night. ALPR cameras can read plates when parked or moving.

ELSAG PLATE HUNTER CUSTOM POLE CAMERA

ALPR cameras covertly read license plates from poles, gates and other structures. The housing resembles a utility box featuring a weathered patina. A swivel bracket allows 30 degrees of camera positioning for surveilling wide expanses.

ELSAG PLATE HUNTER CUSTOM RADAR TRAILERS & VARIABLE MESSAGE BOARDS

ALPR cameras mounted to trailers turn these standard enforcement tools into plate readers. Cameras can be fully or semi-concealed and can face backward or forward. A variety of models are available to meet mission needs.

Deploy ELSAG custom ALPR solutions for missions that require discretion.

Installation and Support

A Leonardo Certified Technician will assist your agency for all hardware and software installations. If software installation is the only requirement, your agency will connect remotely with Leonardo's Technical Support Team to complete the software installation and configuration via phone and internet. For fixed camera installations, a Leonardo ELSAG ALPR Specialist will conduct a site survey and develop an installation plan for your agency, then Leonardo Technicians will coordinate the fixed installations. Our goal is to provide solutions that meet the demands of our customers' missions. Engineering support is available for custom designs and installations. For pricing and more information contact us at 1 (877) 773.5724 or info@leonardocompany-us.com.

For technical support, call 1 (866) 967.4900.

Limited One-Year Warranty and Extended Warranty Plans

A one-year limited warranty is included with the purchase of the Leonardo ALPR hardware. Extended warranty and service plans are available for purchase for additional years of coverage. For details please call 1 (877) 773.5724 or email warrantywizard@elsag.com.

Leonardo is legally registered in the U.S. as Selex ES, LLC for several procurement contracts including:

GSA Schedule 84 Contract #GS-07F-0004Y
Multi State HIRE Contract #PC69032
NCPA (National Cooperative Purchasing Alliance) Contract #05-68

For more information:
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