

# ELSAG<sup>®</sup> Plate Sentry Powered by gtechna<sup>®</sup>



Your Smart Gateless Off-street  
Parking Management and  
Enforcement Solution

Toll Free: 1 (877) 773.5724

Outside USA: +1 (336) 379.7135

Selex ES Inc, a Leonardo Company.

 Made In The USA

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Gateless Entry/Exit

Inventory and Smart Signage Integration

Pay by Plate Enforcement

Analytics and Trend Analysis

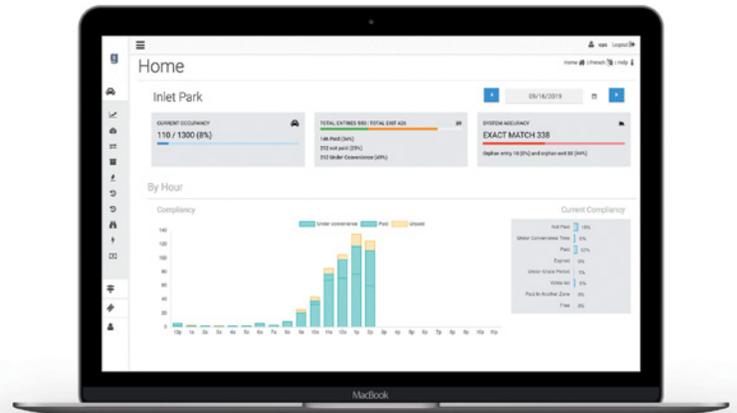
## About ELSAG® Plate Sentry

Leonardo's ELSAG® Plate Sentry powered by gtechna is designed to automate parking lot management and handles real-life parking issues with minimal supervision and physical attendance. ELSAG Plate Sentry continuously verifies all vehicles entering or exiting the parking lot and handles common tracking issues such as payment latency, parking overbooking, parking overflow, and much more. ELSAG Plate Sentry supports all three enforcement models: pay before entry, pay at entry, pay at exit. Additionally, it supports short and long term parking permits. ELSAG Plate Sentry's payment model, Parking Rights, is certified with more than 35 meter & payment vendors around the globe.

## Basic Functions of an Automated Parking Management System

Until now, the main hardware for an automated parking management system has been expensive fixed ALPR cameras. With ELSAG Plate Sentry powered by gtechna, standard IP cameras combined with ELSAG VPH900 technology, create a powerful ALPR solution that offers a complete gated or gateless experience.

Back-office desktop software allows the operator to manage every aspect of what's happening on-site remotely. There are three key components: monitoring, enforcement, and reporting.



ELSAG Plate Sentry is designed for continuous monitoring. One operator can manage several lots from the desktop software.



The back-office software provides business intelligence, which allows parking operators to optimize their field officers' time.



A dashboard allows quick access to violations, exceptions, occupancy, entry and exit events, and more for each parking lot. ELSAG Plate Sentry also generates advanced comparison stats and trend analysis to guide parking operators to pre-plan their enforcement and increase overall revenue and compliance.

# OVERVIEW OF THE OFF-STREET PARKING MANAGEMENT SYSTEM



The ELSAG® VPH900 Automatic License Plate Reader (ALPR) is an advanced technology that removes costly, unreliable variables associated with managing off-street parking properties. IP Cameras configured with the ELSAG VPH900 solution are installed at entry and exit points for monitoring and inventory of vehicles. The ELSAG VPH900-configured cameras connect to a back-office system that manages and verifies vehicle count in real time. Information related to enforcement is sent to the back-office and to field agents who use it to manage more properties with fewer resources, lowering operational costs.





## Feature Sets

### Exceptions: Plate Reads Can't Always be Right

ELSAG® Plate Sentry utilizes Leonardo state-of-the-art IP cameras and, through collaboration with gtechna, features multiple layers of exception handling.

Exceptions are categorized based on the severity. All exceptions are first processed by ELSAG Plate Sentry's advanced auto-correction engine, which is designed to handle the majority of them automatically, in real-time. The auto-correction engine considers information such as entry time, exit time, parking lot, payments, even parking tickets, during corrections.

The auto-correction engine fixes most of the plate reads, but in some cases, there could be a misread, which requires manual verification. Robust, user-friendly, and responsive user interfaces are designed to handle those remaining cases. The system will offer logical suggestions. It only takes a few seconds to perform a correction.

Exceptions can be handled at different times, such as on vehicle entry or exit, by the end of the day or the next morning. ELSAG Plate Sentry offers several user interface modules to handle a variety of exceptions.

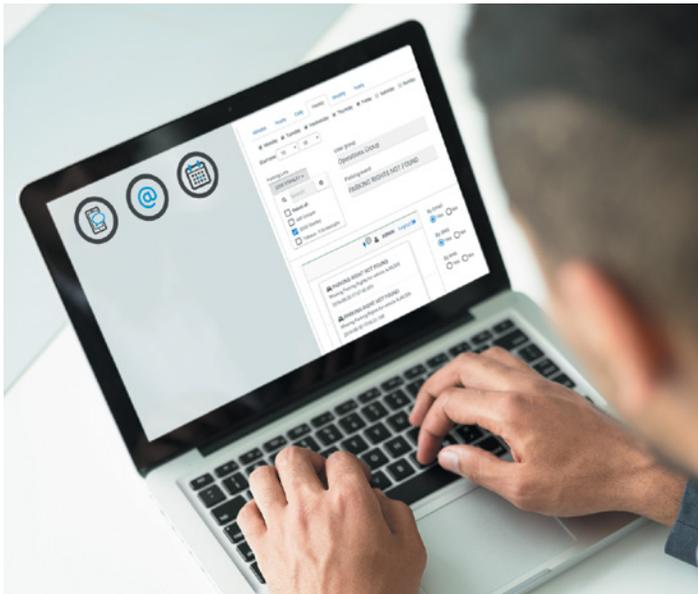
As an operator goes through this list confirming the plates, unmatched entries will typically be matched automatically.

The goal of the exception handling process is to ensure the quality of the data and push the plate read accuracy close to 100%.

## Incorporate Video Into Your Parking Management Enforcement

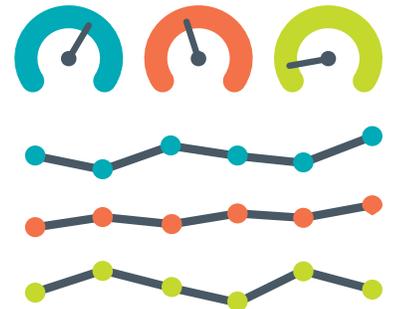
Leonardo's ELSAG VPH900 System creates data records from video and digital photos of license plates taken by non-ALPR cameras. Additionally, the system will generate and record the license plate number, camera location, and image timestamp. Plate numbers are automatically compared to hot or white lists to identify vehicles parked illegally. Alarms generate in real time when the VPH900 is networked to the ELSAG CarSystem or ELSAG EOC data management system.





## Enforcement

ELSAG® Plate Sentry maximizes the efficiency of parking enforcement. Instead of an officer patrolling a lot periodically, the system alerts one or a group of officers once it has identified several parking violations in the same lot. For example, users can configure ELSAG Plate Sentry to send alerts to officers once it identifies ten expired or unpaid vehicles in the same lot, or when a vehicle is denied passage through an exit gate. Alerts can be set to send to a combination of users and groups.



## The Parking Inventory Dashboard

Upon login, ELSAG Plate Sentry displays a parking inventory dashboard containing real-time information. Users can see:

- › Camera Status - Indicates whether cameras are connected to the system and are functioning
- › Lot Occupancy - Shows how full each lot is at that time
- › Payment Violations - Gives the number of vehicles currently in lots that have payment violations
- › Hot list Offenders - Indicates how many vehicles match a hot list. For example, if a hot list of plate numbers with 'multiple unpaid violations' is used, the system will indicate how many of those vehicles are present in each lot

Users can drill down and get more information on any of these categories, as well as inventory reports showing all the entry events and pictures associated with the type of report requested. For example, the drill-down report on violations displays a list of all the entry events for vehicles that are present in the lot and have not paid for parking.

These intuitive dashboard pages allow operators to quickly find the information they need for customer service or enforcement needs.

## Analytics

All of the information available in the live dashboard can be generated as a report at any time. Key reports include the *Payment Statistics*, *System Accuracy*, and *Camera Reads*.

The *Payment Statistics* report is typically used to identify patterns of non-compliance. Graphs report the payment statistics for a given parking lot, showing the percentage of non-compliant vehicles and the payment status of each.

The *System Accuracy* and *Camera Reads* reports are used to quickly determine the source of an issue if there are any irregularities in the other reports. These two reports provide statistics on how many entry/exit events were matched, and the confidence ratings in the reads for a given camera.

## Enforcement with Gates

ELSAG® Plate Sentry features an Exit Exception Manager for gated-exit lots. In the event a vehicle reaches the exit gate and its plate number matches no active payment in the system, the Exit Exception Manager allows an operator to view the camera live, search parking rights associated with that lot and open the gate remotely.

Plate numbers that don't match active payments could be due to a plate misread, an expired payment for that plate number, or the driver never paid.



For more information please email:  
[info@leonardocompany-us.com](mailto:info@leonardocompany-us.com)

4221 Tudor Lane  
Greensboro, NC 27410  
Tel: 1 (877) 773.5724

[leonardocompany-us.com](http://leonardocompany-us.com)

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