# SECUROS AUTO

## License Plate Recognition (LPR/ANPR)



*SecurOS AUTO is an intelligent video analytics module for the SecurOS Premium and Enterprise video management platforms, which provides license plate recognition and comparative analysis for all types of vehicles. SecurOS AUTO works in a wide range of internal/external conditions and delivers industry leading recognition accuracy for US and international plates.*

*SecurOS AUTO provides a number of unprecedented advantages for users, including the ability to accurately capture license plate information up to 130 mph (210 km/h) and in all kinds of weather conditions, including, yet not limited to, light fog, rain, and snow. The advanced algorithms involved in the technology result in the type of pinpoint accuracy that distinguishes letters from numbers, for example, an "8" is not mistaken for a "B." This is a crucial advantage, particularly in emergency situations when one has only milliseconds to get it right. SecurOS AUTO integrates easily with third-party parking management or smart roadway systems, as well as legacy security equipment and external databases.*



*Compatible with ISS SecurOS Premium and Enterprise*

SECUROS PREMIUM  
SECUROS ENTERPRISE



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## Technology Overview

**Hardware-agnostic System**
No specialized cameras or other hardware is required. System is hardware-agnostic.

**Software Based Vehicle Detection**
Built-in vehicle detection algorithms so sensors are not required to detect license plates.

**ISS Native Technology**
SecurOS Auto is a completely ISS native technology with frequent updates for new plates.

**Low- / High-Speed LPR Engines**
Both Low-speed and High-speed options are available for greater flexibility.

**Multi-lane Support**
System can detect plates from multiple lanes with just one camera.

**Advanced Recognition Engine**
Template-based algorithms results in more accurate recognition.

**International Plates Support**
Recognizes license plates from US and most other countries.

**Fixed / Mobile Versions**
Fixed (on stationary structures) and Mobile (on/in vehicles) versions available.

**Integrated with SecurOS VMS**
Seamlessly works with SecurOS VMS as well as other SecurOS Analytics modules.

## Applications

- Law enforcement
- Automation of parking installations
- Parking enforcement
- Education / campus security
- Casino security
- Border customs control
- Safe-City surveillance
- Stolen / unregistered vehicles

## Key Features

**High Speed Recognition**
Capable of recognition at up to 130 mph (210 km/h).

**Smart Search**
Partial / full plate / wildcard search against watchlist / external databases.

**Advanced Search**
Search results include snapshots of recognized plate, video sequence, and information of camera, time, date, location, and direction of vehicle pass.

**Watchlists**
Add plates to local watchlists (black, white, info), and set custom alarms for matches against the watchlists.

**External DB Connectivity**
Seamless connection to external databases.

**System Automation**
Provides advanced reaction capabilities and automatic operator notification based on LPR and/or comparison with information from a database/watchlist.

**Reporting Tools**
Quick report generation of captured vehicle(s): print frame and information regarding recognized license plate(s).

**Direction Detection**
Includes standard feature for vehicle direction detection.

**Third-party Equipment Integration**
Integrates with most third-party equipment and devices such as barriers, gates, and radar equipment.

**IP Camera On-Edge Support**
Camera embedded version available (SecurOS EdgeAuto).

**SDK Support**
SDK available for integration with third-party applications.

## Specifications

| ISS Platform Support | |
| --- | --- |
| Supported Operating Systems | Windows 7, 8, 8.1, 2008 R2, 2012 R2, (32/64 bit) |
| SecurOS VMS version support | SecurOS Premium SecurOS Enterprise |

| Maximum Vehicle Speed | |
| --- | --- |
| Low-Speed version | 25 mph (40 km/h) |
| High-Speed version | 130 mph (210 km/h) |

| Supported Video and Image Formats | |
| --- | --- |
| IP | MJPEG, MPEG4, H.264, MxPEG |
| Analog | NTSC, PAL |
| Image formats | JPEG, PNG, BMP |

| Additional Technical Data | |
| --- | --- |
| Minimal required resolution | 640 x 480 (actual recommended resolution depends on state/country and other factors) |
| External databases supported | Any database with Windows ODBC drivers |
| System output | Camera name / ID<br>Recognition result<br>Vehicle tracking timestamps<br>Quality of recognition result<br>License plate country / state<br>Vehicle direction<br>License plate location in image<br>Internal / External watchlist match<br>Vehicle speed (optional)<br>Lane info (optional)<br>Snapshot of whole frame / vehicle / plate (optional) |

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