



BOSCH

Invented for life

Innovating security
where you need it most.

Transportation:
License Plate Capture.

License Plate Capture:

Manage the usage of roads and parking lots more effectively by knowing the whereabouts of each and every vehicle

As an operations manager you are accountable for efficient logistical flows and effective use of the roads and parking lots in which you maintain. Knowing the ins and outs of the transport infrastructure and what's going on at all times provides you with the knowledge to ensure operations are running safely and efficiently and are in compliance with the rules and laws. An important part of this comes from monitoring which vehicles are entering an area and ensuring they are allowed to be there. By capturing license plates of every vehicle moving in your area you gain knowledge of traffic flows and usage patterns. Such a solution should also allow you to easily configure and manage your monitoring preferences and permit easy data exchanges with other operational management systems and services to manage your infrastructure and logistics as a whole.

License plate data you can rely on:

As transportation infrastructures are often operating around the clock, you need reliable vehicle identification data 24/7. This means that the cameras capturing this data should work flawlessly in all lighting and weather conditions, for both slow and fast moving vehicles.

Bosch cameras are built to produce usable images 24/7 in all weather conditions. For quality license plate recognition in both day and night the

cameras make use of supplementary infrared light. The camera has a special License Plate Recognition (LPR) mode which is developed in collaboration with LPR software to deliver readable license plates even with glaring headlights and with fast moving vehicles.

The robust mechanical design of the cameras ensures reliable 24/7 operation for many years even in harsh environments.

License Plate Capture solution

The SecurOS™ AUTO system of ISS, when used with ISS certified Bosch cameras, provides easy to deploy solutions for all of these requirements. It recognizes license plates from many countries, manages and matches white, hot and blacklists and notifies the operator either in the GUI or through a messaging interface to other management systems. Additionally, the SecurOS™ AUTO system can be used and managed as a standalone or embedded in other management systems on the premises.

▶ **Reliable license plate capture under all (lighting) conditions**

Selected Bosch IP cameras have a special LPR imaging mode. By choosing this mode and combining the cameras with Bosch infrared illuminators, you can capture license plates 24/7 in all weather conditions. The combination allows capture of usable license plate images even directly next to glaring headlights in pitch dark.

▶ **Full solutions for free-flow applications (up to 210 km/h (130 mph) and start stop applicaitons**

The SecurOS™ AUTO system with certified Bosch cameras can deal with both low-speed parking systems and free-flow tolling as well as multi lane enforcement applications on highways.

▶ **License plates of many countries are already supported**

Highly accurate License Plate Recognition supported in the United States, Latin America and most European and Middle Eastern countries.

▶ **Integration with information sources for whitelist/blacklist identification**

Information about license plates can identify a stolen vehicle, insurance status, toll subscription status, authorized taxi or service vehicle status coming from 3rd party information services.

▶ **Storage, retention management and comprehensive search**

Wildcard searches can find matches on watch lists or external databases. The search result information includes vehicle snapshots and plate metadata like video image, time, date, location, lane, vehicle direction.

When used with SecurOS™ VMS the video footage presented can also be exported. The SecurOS™ AUTO system provides tools to manage storage and deletion of video and plate metadata in compliance with local regulations.



License Plate Capture products

The SecurOS™ AUTO system of ISS together with ISS certified Bosch cameras offers a full solution for LPR applications with these products to effectively monitor vehicle registration tasks, control of traffic, and the access control of vehicles:

What products do you need?

Fixed box cameras:

- ▶ DINION IP starlight 6000
(With built-in Essential Video Analytics)
 - ▶ NBN-63013-B (720p)
 - ▶ NBN-63023-B (1080p)

- ▶ DINION IP starlight 7000
(With built-in Intelligent Video Analytics)
 - ▶ NBN-73013-BA (720p)
 - ▶ NBN-73023-BA (1080p)

For these fixed cameras a separate housing, lens and optional infrared illuminator can be used:

UHO outdoor camera housing for DINION cameras:

- ▶ UHO-POE-10

Varifocal megapixel lenses:

- ▶ LVF-5005C-S1803 (1.8-3mm)
- ▶ LVF-5005C-S4109 (4.1-9mm)
- ▶ LVF-5005C-S0940 (9-40mm)

IR Illuminator 5000:

- ▶ Different ranges available

Bullet camera with integrated infrared:

- ▶ DINION IP starlight 6000i IR
 - ▶ NBE-6502-AL (1080p)

ISS software:

- ▶ SecurOS™ Premium/Enterprise 9.4-R0 or higher
- ▶ SecurOS™ Auto module



LPR mode is standard available in the mentioned cameras as of firmware version 6.50.



DINION IP starlight 6000 & 7000



DINION IP starlight 6000i IR

Bosch Security and Safety Systems

Invented for Life

Our products and services are designed to spark enthusiasm, improve quality of life, and help conserve natural resources. We want to deliver top quality and reliability. In short: we want to create technology that is “Invented for life.”

The Bosch division Building Technologies is a leading global supplier of security, safety, and communications products and systems. Protecting lives, buildings and assets is the major aim. The product portfolio includes video surveillance, intrusion detection, fire detection and voice evacuation systems as well as access control and management systems. Professional audio and conference systems for communication of voice, sound and music complete the range. Building Technologies develops and manufactures in its own plants in Europe, Americas and Asia. Additional information is available online at www.boschsecurity.com

ISS

ISS is a leading developer of video management and video intelligence solutions, as well as video based industrial automations systems. The ISS video management platform, SecurOS™, is the nucleus of a complete security eco-system, a visualization platform that integrates native, as well as third party analytics, access control systems, fire and life safety, building management, SCADA, and can be made compatible with virtually any third party system or device. Its “Security on Demand” infrastructure is the solution to rapidly migrating security and surveillance needs and threats. ISS SecurOS™ focuses on large mission critical applications security systems: industrial and manufacturing sites, transportation systems, banks, sports arenas, retail locations, and campuses & office complexes. ISS has patented object-oriented event driven core firmware, advanced video compression technologies, intelligent video motion detection and digital video recognition capabilities.

Bosch Security and Safety Systems

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