



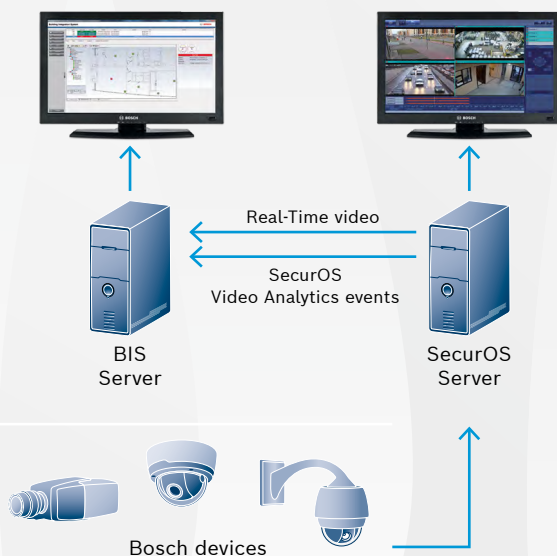
BOSCH

Invented for life

Integrated access control and video solution

License plate recognition

Bosch Security and Safety Systems and ISS



- ▶ Integration of Building Integration System, ISS SecurOS Auto and Bosch cameras for reliable vehicle identification
- ▶ Reliable recognition in all lighting and weather conditions
- ▶ Whitelisting and blacklisting
- ▶ Effective usage management of parking lots
- ▶ Support of license plates of most countries



The SecurOS AUTO system of ISS together with the Building Integration System (BIS) and ISS certified Bosch cameras offers a full solution for LPR applications to effectively monitor vehicle registration tasks and the access control of vehicles.

The ISS certified Bosch cameras capture the license plate of the vehicle and send it to the SecurOS AUTO system of ISS. The ISS system, in turn, sends the information to BIS where it triggers an event or alarm to notify the operator about it. He can then switch to the SecurOS AUTO module to see all details of the license plate such as the number and potential black, white or hot listings. Moreover, the operator can review the video of the recognition and comment on the LPR results if needed. The LPR log provides an overview of all recognized license plates and the smart search allows looking for a specific number based on a number of various search parameters. Thanks to the integration with BIS and the Access Modular Controller (AMC), the solution can also be used to automatically open gates and barriers to restricted areas or parking lots based on the recognition of the vehicle's license plate.

The solution reliably recognizes license plates under all

weather conditions and up to a speed of 210 km/h (130 mph). It provides accurate license plate recognition in the United States, Latin America and most European and Middle Eastern countries.

Compatibility

ISS	Bosch
ISS SecurOS Premium / Enterprise 9.4-R0 or higher	Building Integration System 4.8 (and higher)
ISS SecurOS Auto	Access Modular Controller
ISS SecurOS ProxCom 211 (Ethernet to Wiegand Converter)	Cameras: DINION IP starlight 6000 (with built-in Essential Video Analytics) DINION IP starlight 7000 (with built-in Intelligent Video Analytics) DINION IP starlight 6000i IR

Applications / Vertical Markets



Commercial buildings



Parking lots



Entrances with barriers

Key features

Seamless integration

Seamless identification/authentication by ISS license plate recognition engine and time/location/role based authorization by BIS Access Engine.

Option of multi-factor identification

Identification via license plate recognition and credential.

Unification

All in one event log database for further post-event investigation (e.g. forensic searches).

Increased security

Threat-level within BIS can be increased when blacklisted cars are detected.

Full integration with BIS alarm management

Audio messages can be triggered or certain areas disarmed when white-listed cars are recognized, etc.

Highest accuracy

SecurOS Auto provides up to 98% recognition accuracy.

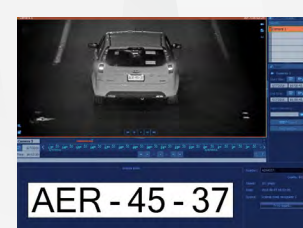
Recognition engine highlights



Recognition engine calibrated to recognize custom plates



Template based algorithms can easily differentiate between characters from license plates and others that can appear on the vehicle



Recognition engine calibrated for high accuracy night time recognition

The Bosch division Security and Safety Systems is a leading global supplier of security, safety, and communications products, solutions and services. Protecting lives, buildings and assets is our 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. Bosch Security and Safety Systems develops and manufactures in its own plants across the world. Additional information can be accessed at www.boschsecurity.com

Intelligent Security Systems, ISS, is a world leading developer of security surveillance and control systems through audio and video capture, recording, and analysis of patterns, of video images and digital data transmission. ISS provides a comprehensive line of digital video surveillance solutions that are at the forefront of security, with the ability to be tailored to each project, allowing centralized command and control of an entire enterprise security network in a single place. The ISS experience has advanced algorithms that provides a level of intelligence and analytics that was available only for government and military applications. For more details: <http://www.issivs.com>