BOSCH
Invented for life

Capturing and converting data into business intelligence

Bosch Security and Safety Systems & ISS

SecurOS Video Management System					
SecurOS Auto	**SecurOS Cargo**	**SecurOS Face**	**SecurOS Transit**	**SecurOS ACS Module**	**SecurOS POS**
License Plate Recognition	Container Number Recognition	Face Capture & Recognition	Train Carriages Number Recognition	Access Control Integration Module	POS and ATM Transaction Monitoring
SecurOS Intelligent Video Solutions					

▶ A partnership based on innovation: capturing and converting data into business intelligence

▶ SecurOS™ – superior license plate and cargo container recognition from ISS

▶ Bosch camera's have a special License Plate Recognition mode developed together with ISS

▶ Bosch built-in video analytics further improves operator efficiency and situational awareness

ISS
INTELLIGENT
SECURITY SYSTEMS

The partnership between ISS and Bosch has led to a deep native integration of all Bosch cameras in the software from ISS.

ISS provides intelligent solutions with significant emphasis placed in providing scalability and flexibility to meet the customers' needs. ISS SecurOS stands for the best in intelligent enterprise video management solutions.

By deeply integrating the built-in video analytics from Bosch cameras in SecureOS, operator efficiency and situational awareness can be further improved to manage complex environments with ease; proactively catalyzing the best in security and surveillance, while providing some of the most advanced intelligent video tools used in the industry.

As a leader in enterprise video management and video intelligence solutions, including License Plate Recognition, Face Recognition, and Container / Train Carriages Recognition, the ISS SecurOS line is the ideal choice for maximizing the performance of Bosch devices. Bosch cameras are made to meet the demanding performance needs for advanced analytics, ensuring the success of projects on the first go, saving time, saving resources, and saving cost.

The partnership between ISS and Bosch to deliver the most advanced technologies is evident in the mission critical projects ISS has delivered, including multi-thousand camera safe city deployments, unique industrial analytics solutions, and large scale transport providers.

Compatibility

ISS Solutions	Bosch devices
1. All editions of **SecurOS VMS** incl. MCC (multitier solution headed with Monitoring and Control Center) 2. **SecurOS video intelligence solutions:** ▶ **SecurOS Auto** (License Plate Recognition) ▶ **SecurOS Cargo** (Container Number Recognition) ▶ **SecurOS Face** (Face Capture & Recognition) ▶ **SecurOS Transit** (Character Recognition of train carriages, tankers, and platforms) ▶ **SecurOS ACS Module** (Integration Module for Bosch Access Professional Edition (APE)) ▶ **SecurOS POS and ATM** Transaction Monitoring Solutions	**All Bosch IP devices** including Cameras & Encoders **Access Control** (Access Professional Edition) For full list of devices refer to the Bosch firmware-product matrix in the tools section of our IPP portal ipp.boschsecurity.com

Applications / Vertical Markets

Tunnels and bridges
In situations where maximum situational awareness is needed, such as monitoring of bridges and tunnels, Bosch and ISS offer integrated solutions that ensure safety and violation detection.

Ports and harbors
The Bosch and ISS solution extends your security system with technological process control and labor safety control using dedicated video analytics and intelligence modules. The high reliability algorithms for automatic number recognition from ISS (SecurOS Cargo for Container Number Recognition), and the Bosch camera's built in intelligence and robustness, make them suitable for applications with harsh environments, such as ports and harbors.

Highways
Bosch cameras with built in intelligence combined with ISS SecurOS Auto for License Plate Recognition offers the highest quality of IP video surveillance images everywhere, even in extreme conditions on places like roads or highways.

Airports and Railways stations
For airports and railways stations, large scale, multi-tier video surveillance is needed to ensure full situational awareness, incident processing in a monitoring and command center, and for facial recognition. Bosch camera's built in video analytics and ISS intelligence modules: SecurOS Face for Face Recognition and SecurOS Transit for Train Carriages Number Recognition are perfect for these applications.

Key features covered with the Bosch & ISS integration

Data Management
- Intelligent streaming adjusts encoder settings based on the level of movement to achieve the most efficient bitrate
- Combined with H.265 video encoding Bosch cameras can reduce bitrates by up to 80%
- Intelligent Dynamic Noise Reduction reduces image noise before encoding

License Plate Recognition
- Reliable license plate capture under all conditions
- Full solutions for free-flow applications (up to 210 km/h (130 mph) and start stop applications
- License plates of many countries are supported
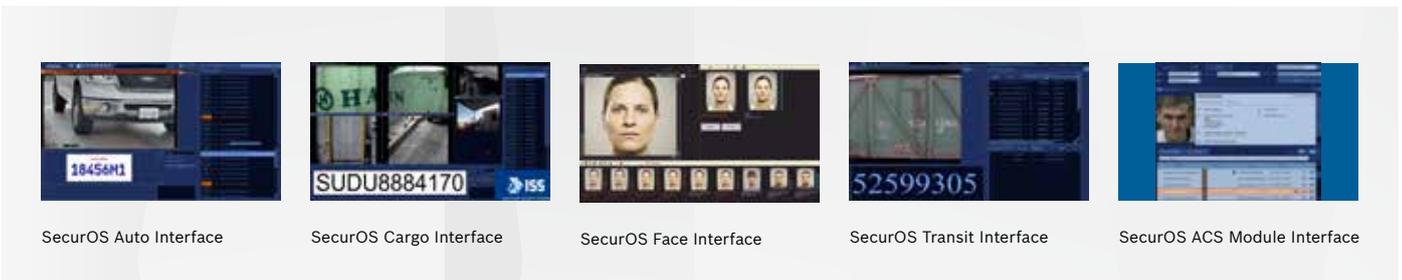- Integration with information sources for whitelist/blacklist identification

Built-in video analytics from Bosch
Up to eight different video analytics rules can be configured simultaneously. SecurOS can receive these events.
- Detecting objects within, entering or leaving an area (detector field)
- Detecting loitering in an area related to radius and time
- Detecting idle objects and removed objects
- Detecting trajectories/routes of objects passing by in the scene
- Detecting line crossings from single line up to three lines combined in a logical row
- Detecting condition changes for properties like size, speed, direction and/or aspect ratio within a specified time span
- Crowd detection and people counting

Support of Access Control System
- Scalable and modular system architecture
- Displays live events from Access Control System (ACS) and corresponding live video for cardholder verification
- Shows both the photo and card information when swiping a card
- Searches for events corresponding to a specified cardholder and tracks their card swipes

Sample applications

SecurOS Auto Interface

SecurOS Cargo Interface

SecurOS Face Interface

SecurOS Transit Interface

SecurOS ACS Module Interface

Bosch Security and Safety Systems
Protecting lives, buildings and assets is our aim. Our product portfolio includes video security, 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.

Visit **boschsecurity.com** for more information.

Intelligent Security Systems (ISS) is a leading developer of video management and video intelligence solutions based on SecurOS™ VMS. SecurOS integration platform provides the interoperability of video, ISS native video analytics, and third-party devices and software and hardware systems. The SecurOS is suited for large mission critical applications that involve hundreds or thousands of security devices unified into ONE platform.

For more details: **isscctv.com**