

Integrated Video Surveillance Solution

Bosch Security Systems and ISS



BOSCH
Invented for life



Solution summary

- ▶ SecurOS enterprise VMS extended with native video analytics modules in combination with Bosch products provide unmatched technological excellence of video intelligence solutions
- ▶ Advanced integration of all Bosch IP-cameras product lines through native protocols
- ▶ Industry leading video quality delivered by Bosch CCTV cameras allows SecurOS video analytics algorithms to maximize performance
- ▶ Integration of onboard Bosch video analytics (Bosch IVA) helps to improve operator productivity and raise situational awareness in Control centers running SecurOS VMS and Federation solutions
- ▶ Integration of SecurOS platform with BVMS and BIS drives scalable end-to-end solutions addressing specific customer needs
- ▶ SecurOS provides client side dewarping of FLEXIDOME IP panoramic cameras



A deep native integration with Bosch IP Devices, including all platforms, CPP-ENC, CPP3, CPP4, CPP5, CPP6, and the newest CPP7, is the hallmark of the **ISS commitment to Bosch technologies**.

ISS provides end to end solutions for Bosch IP technologies, with significant emphasis placed in providing scalability and flexibility to meet the customers' needs. Starting with ISS' commitment to rapid integration of Bosch solutions, to the most customizable interface in the industry, to advanced native video intelligence and analytics capabilities, to a unique scripting engine for advanced ConOps management, to an architecture that values interoperability and modularity, ISS SecurOS stands for the best in enterprise video management solutions.

The ISS commitment to Bosch solutions extends to support of Bosch's extensive onboard video analytics, allowing for SecurOS VMS solutions to manage ever complex environments with ease; proactively catalyzing the best in security and surveillance, while providing some of the most advanced video forensics 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 certified 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. This commitment to the most advanced deployed technologies is evident in some of the mission critical project ISS has delivered, including multi-thousand camera safe city deployments, unique industrial analytics solutions, and large scale transport providers.

Compatibility

ISS Solutions	Bosch Security Systems
<ol style="list-style-type: none"> All editions of SecurOS VMS incl. MCC (multitier solution headed with Monitoring and Control Center) SecurOS video intelligence solutions: <ul style="list-style-type: none"> ▶ SecurOS Auto (License Plate Recognition) ▶ SecurOS TrafficScanner (Detection in real time the most common types of traffic violations) ▶ SecurOS Cargo (Container Number Recognition) ▶ SecurOS Face (Face Capture & Recognition) ▶ SecurOS Transit (Character Recognition of train carriages, tankers, and platforms) ▶ SecurOS POS and ATM Transaction Monitoring Solutions 	<p>All Bosch IP devices including Cameras & Encoders</p> <p>All CPP-ENC, CPP3, CPP4, CPP5, CCP6, CPP7 IP devices</p> <p>For full list of devices refer to the Bosch firmware-product matrix in the tools section of our IPP portal ipp.boschsecurity.com</p>

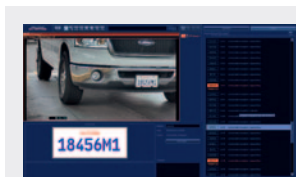
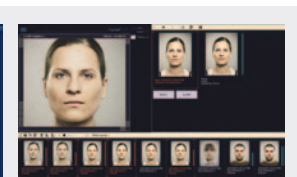
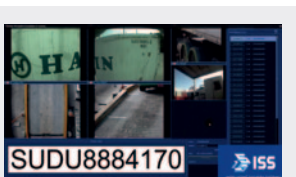

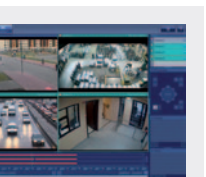
Applications / Vertical Markets

	<p>Manufacturing and Industrial Extend security system with technological process control, labor safety control using dedicated video analytics and intelligence modules.</p>		<p>City Surveillance Large scale, multi-tier video surveillance. Situational awareness using video analytics and intelligence modules. Incident processing in monitoring and command center. Facial recognition for specific security applications.</p>
	<p>Transportation Integrated solutions for traffic safety, traffic violation detection, transportation site safety. High reliability algorithms for automatic number recognition (License Plate Recognition, Container Number Recognition, Train Carriages Number Recognition).</p>		<p>Banking and Finance Integrated security solution including facial recognition, ATM transaction monitoring, people counting, left object detection, etc.</p>

Key features covered in the integrated solution

<p>Ultra HD resolutions (4K) & Starlight low light environment</p>	<p>Precise view of the large areas, including low light conditions. Best detailed scene representation on SecurOS IVS VideoWall (part of SecurOS MCC solution)</p>	
<p>Bosch EDGE Analysis (IVA) based on Events</p>	<ul style="list-style-type: none"> ▶ Detecting objects within, entering or leaving an area (detector field) ▶ Detecting loitering in an area related to radius and time ▶ Detecting idle objects ▶ Detecting removed objects ▶ Detecting trajectories/routes of objects passing by in the scene 	<ul style="list-style-type: none"> ▶ 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 ▶ Counter and people counter from above
<p>LPR and Face detection integration into BVMS</p>	<ul style="list-style-type: none"> ▶ SecurOS video (live and archived) re-streaming to Bosch Virtual Streaming Gateway through SecurOS RTSP server ▶ SecurOS videoanalytics events carrying additional metadata received by Bosch VMS through Virtual Inputs 	<ul style="list-style-type: none"> ▶ Virtual inputs can trigger alarms and start server scripts just like any other event in the BVMS and BIS ▶ Events from analytics stored in Logbook with ability for searching

Sample applications

				
<p>SecurOS Auto Interface</p>	<p>SecurOS Face Interface</p>	<p>SecurOS Cargo Interface</p>	<p>SecurOS Transit Interface</p>	<p>SecurOS Media Client</p>

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. Additional information can be accessed at www.isscctv.com.

The Bosch division Security 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 Systems develops and manufactures in its own plants across the world. Additional information can be accessed at www.boschsecurity.com

Visit ipp.boschsecurity.com for details on the Bosch Integration Partner Program