

Integrated Video Surveillance Solution

Bosch Security Systems and Milestone Systems



BOSCH

Invented for life



Solution summary

- ▶ Integration supports both Milestone XProtect® video management software (VMS) and Milestone Husky™ network video recorder (NVR) Series
- ▶ Bosch devices are supported in the Milestone metadata framework
- ▶ The dedicated driver pack covers multistream, dynamic discovery, edge storage, Bosch embedded Intelligent Video Analysis events and more
- ▶ Bosch's panoramic camera portfolio is supported by a plug-in enabling video streams to be automatically dewarped when presented in the XProtect® Smart Client.
- ▶ Covering solutions from small to large applications and markets including commercial, retail, transportation and city surveillance
- ▶ License plate capture cameras are fully supported by XProtect® for automatic license plate recognition
- ▶ Featured at various Milestone and Bosch events and industry trade shows globally
- ▶ Bosch is an Elite Milestone Alliance Partner and a Solution Partner



The Open Platform Company

Bosch and Milestone work together to ensure seamless integration of Bosch IP video devices within the XProtect® VMS and Husky™ NVR Series. Through dedicated integration efforts, a market leading integration has been achieved as the strength of the Milestone open platform software combines with high quality Bosch video IP products.

This uniquely deep Milestone integration supports all Bosch IP cameras with their existing leading edge features and capabilities. The dedicated driver pack covers a wide range of functionalities including multistream, dynamic discovery, edge storage, motion alarms, H.264 compression and Bosch embedded Intelligent Video Analysis events. The availability of Bosch devices on all XProtect products or VMS gives you an impressive range of integration possibilities.

For application in specific projects, the Bosch video portfolio also includes products such as license plate capture cameras which are field proven to deliver the high contrast license plate images needed for effective Automatic License Plate Recognition through XProtect.

This strong partnership offers a continuous development bringing additional integration possibilities to Bosch and Milestone customers globally.

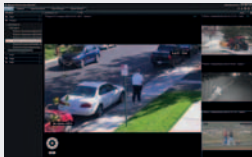
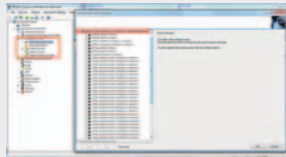
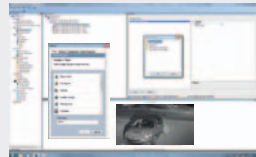


Compatibility

Milestone	Bosch devices
<p>XProtect VMS XProtect Corporate XProtect Expert XProtect Enterprise XProtect Professional XProtect Express XProtect Go NVR XProtect Essential XProtect Go</p> <p>XProtect Clients XProtect Smart Client XProtect Web Client Milestone Mobile</p> <p>Add-ons for XProtect XProtect LPR XProtect Retail XProtect Screen Recorder XProtect Smart Wall XProtect Transact XProtect Plug-ins</p> <p>Husky NVR Series Husky M50 Husky M30 Husky M10*</p>	<p>All Bosch IP devices including:</p> <p>Cameras & Encoders All CPP-ENC, CPP3, CPP4, CPP5, CCP6 IP devices</p> <p>Specialty Cameras VOT thermal DINION IP imager 9000 HD FLEXIDOME IP corner 9000 MP</p> <p>Peripheral devices IntuiKey series keyboards</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>
*not all cameras supported	

Key features covered with the Bosch & Milestone integration

Advanced PTZ (AreaZoom)	Focus on an area of interest with only 2 mouse clicks. Improved PTZ operation that centers and zooms to an area that has been marked.
Application specific projects i.e. license plate capture	DINION IP License Plate Cameras capture plates 24/7, from vehicles moving at high speed and regardless of weather or lighting conditions. Field proven to deliver the high contrast license plate images needed for Automatic License Plate Recognition (ALPR) through XProtect.
Click-to-Center	PTZ cameras can be controlled simply by pointing and clicking inside the images.
Device identification	Bosch devices are shown with their camera model name in the Milestone XProtect Management Application.
Dynamic discovery module	Discover new Bosch devices out of the box. Product Identification: "Bosch Fixed", " Bosch PTZ", "Bosch Encoder".
Dewarping/panoramic cameras	Use the Bosch FLEXIDOME IP panoramic cameras with Milestone XProtect and the Bosch dewarping plugin to enable client-side dewarping for the easy management of video images by eliminating the image distortion caused by the fish eye lens.
Edge storage	Using SD-card or iSCSI attached media for local storage, the network traffic is reduced.
H.264 compression	Using the H.264 compression standards ensures that the data rate remains low even with high image quality and can also be adapted to local conditions within wide limits.
Improved simultaneous PTZ	Operator can pan, tilt and zoom the camera simultaneously, allowing smooth tracking and PTZ operations.
Intelligent Video Analysis events	Up to eight different IVA rules can be configured via the camera interface simultaneously. XProtect can receive these events from the camera.
Intelligent Video Analysis metadata support	Bosch IVA-enabled devices are supported by the Milestone metadata framework and allows the use of bounding box overlays in the Milestone viewing client.
Management of camera settings	Allows easy configuration of camera settings directly from XProtect.
MIC series	Enable wiper and washer of our MIC camera series via XProtect Smart Client.
Motion alarms	Cameras that contain a built-in algorithm for detecting movement in the video can be used for receiving motion events.
Multi-platform support	Availability of Bosch devices on all XProtect product platforms.
Multicast	Multicast can be used from the edge device. This provides bandwidth efficiency in certain network topologies.
Pre-buffering from device	Network traffic is reduced by using local storage – e.g. SD-card or attached iSCSI. Alarm events are recorded locally including configured pre-buffer and can later be retrieved by the NVR.
Tamper detection	A wide range of configuration options is available for alarms signaling camera tampering.
Tri streaming	By supplying three completely separate streams in different formats, video can be viewed and recorded in different qualities, and at the same time, video can be viewed on tools such as hand held devices.
Ultra HD cameras (4k)	See every detail. Cover a large area and identify objects at a great distance. Capture fast moving objects in high resolution (12 MP) and delivers amazing detail even when zoomed-in.
Virtual input	Virtual alarms in the camera can be triggered via XProtect (and its rule engine). Any external trigger can also be reflected in the camera – e.g. an intrusion alarm triggers edge recording. Four virtual inputs are available on each camera.

Configure and manage Bosch IP video devices through XProtect

				
Milestone XProtect Smart Client and Bosch IP video devices.	Configuring hardware input events with XProtect.	Managing Intelligent Video Analysis events.	Edge storage uses an SD-card or iSCSI attached media for local storage thereby reducing network load.	License plate capture and recognition with DINION IP license plate camera and XProtect software.

Founded in 1998, **Milestone Systems** is the global industry leader in open platform IP video management software. The XProtect platform delivers powerful surveillance that is easy to manage, reliable and proven in thousands of customer installations around the world. With support for the widest choice in network hardware and integration with other systems, XProtect provides best-in-class solutions to video enable organizations – managing risks, protecting people and assets, optimizing processes and reducing costs. Milestone software is sold through authorized and certified partners.

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.

For more information, visit: www.milestonesys.com

Additional information can be accessed at ipp.boschsecurity.com