BOSCH

BVMS Professional 12.3

3rd 24/7

- ▶ Reduced total costs of ownership - manage up to 2000 cameras with a single server to reduce installation and operating costs.
- ▶ Embedded resilience - keep operations up and running even when multiple system components fail.
- ▶ Bosch video at its best - the best user-experience combining Bosch cameras with BVMS.
- ▶ Integration - integrate third-party cameras, storage and further systems into BVMS.
- ▶ IT environments and data security - benefit from full IT compatibility from installation to day-to-day management in a secure way.

BVMS Professional is a unique IP video security solution that provides seamless management of digital video, audio, and data across any IP network. It provides the best video management system to go with Bosch video surveillance devices, leveraging the unique capabilities of Bosch cameras and recording solutions. It nevertheless offers interfaces and standards to integrate other systems and manufacturers.

The system is equipped with a unique embedded resilience. It keeps operations up and running even when both the management server and recording server(s) fail.

Edge Video Content Analysis and the unmatched recording technology, managing up to 2000 cameras with a single recording server, dramatically reduces the total costs of ownership.

The software is provided as an e-license via e-mail.

Regulatory information

General Data Protection Regulation

The General Data Protection Regulation (GDPR) is enforced on the 25th of May 2018. As a regulation it will be directly applicable to all EU member states without the need for national implementing legislation. As information captured, processed and stored by video surveillance systems is classified as "sensitive" the GDPR will cause significant impact on the video surveillance installations throughout Europe.

BVMS includes the required functionality to ensure an organization can be GDPR compliant.

Installation/configuration notes

Disclaimer

This software is not designed, intended, or authorized for use in any type of system or application in which the failure of the software could lead to a risk to health and safety. The user is responsible to verify that the software and its specified functionalities are suitable for the intended application, in particular with respect to accuracy, safety, and security.

The BVMS system design guide is published on the following website:
Bosch Building Technologies Knowledge Base.
The system design guide summarizes the BVMS design details, and serves as a guide to planning a BVMS system with Bosch cameras and storage. It focuses on BVMS combined with the VRM.

To get started, read the following article on the Bosch Security & Safety community website:
BVMS - Quick start overview

BVMS Enterprise
Multiple BVMS Lite, Plus, Professional or DIVAR IP systems can be combined into one BVMS Enterprise System.

Cameras within system context	200000
Cameras per operator	10000
Sub-systems	Between 10 sub-systems with 1000 cameras per system or 100 sub-systems with 100 cameras per system.

Software assurance
The complexity of security systems has increased significantly over the last couple of years. At the same time, you are still relying on your system to mitigate security risks. With Bosch Software Assurance, you can relax knowing you can always approach us for help to ensure your system keeps on running. You can find the terms and conditions of Bosch Software Assurance on the following website:
About Bosch Software Assurance

Technical specifications

The release notes give a detailed overview on the changes that are implemented, compared to the previous BVMS version.
The architects and engineering specifications specify in detail what the system is capable of.
Both documents can be found on the following web page:
Bosch Building Technologies Knowledge Base

System limits

ⓘ **Notice**

The system limits are based on the hardware recommendations.

Maximum number of workstations	100
Maximum number of IP devices	2000 (of which up to 128 decoders)
Maximum number of live and playback sites	9999
Maximum number of intrusion panels	20 (512 detectors per panel) or 40 (256 detectors per panel)
Maximum number of DVRs	50
Maximum number of VRMs	125

Maximum number of sustained events (logbook) / sec	1000
Maximum number of sustained events (without logbook) / sec	2500
Maximum peak event load / sec (within 60 minutes)	5000
Maximum number of events / sec from ONVIF cameras	500
Logbook size	4GB

ⓘ **Notice**

The logbook size can be increased by upgrading the Microsoft SQL Server Express edition included in the BVMS installation package.

Languages

Component	Languages
Quick installation guide	English, French, German, Simplified Chinese and Spanish
Configuration manual	English, German, Dutch, Italian, Portuguese, Finnish, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, Latvian, Lithuanian, Turkish and Korean
Operation manual	English, German, Dutch, Italian, Portuguese, Finnish, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, Latvian, Lithuanian, Turkish and Korean
Software	English, German, Dutch, Italian, Portuguese, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Hungarian, Japanese, Czech, Danish, Finnish, Greek, Norwegian, Polish, Swedish, Thai, Turkish, Korean, Arabic, Ukrainian and Vietnamese

Hardware recommendations

Cameras
All Bosch cameras can be used under the device compatibility concept, which you can find on the Bosch Security and Safety Community in the following article:
How-to: BVMS - Device compatibility

BVMS is an ONVIF Profile S certified video management system.

Management Server, Video Streaming Gateway, Video Recording Manager

Item	Description
Operating System	Windows Server 2016 (64-bit)
	Windows Server 2019 (64-bit)
	Windows Server 2022 (64-bit)
	Windows 10 Professional (64-bit) (22H2)*
	Windows 10 Enterprise LTSC 2021*
	Windows 11 Pro (64-bit) (23H2)*
CPU	Intel Xeon Silver 4110 (2.1 GHz, 8 cores)
RAM	16GB
Free disk space	30GB (+ 15% of the hard-drive after installation)
Network	1 Gigabit/s network interface card

* Windows 10 and Windows 11 are not supported for the Video Recording Manager.

Operator Client

Item	Description
Operating System	Windows 10 Professional (64-bit) (22H2)
	Windows 10 Enterprise LTSC 2021
	Windows 11 Pro (64-bit) (23H2)
CPU	Intel Xeon W-2123 (3.6 GHz)
RAM	8GB
Free disk space	Minimum 10GB for Single Site Systems
	Minimum 15GB for Enterprise Systems
Network	1 Gigabit/s network interface card
Display resolution	Minimum: 1280 x 1024
	Maximum: 3840 x 2160
Graphic card	Nvidia Quadro P620
	Nvidia Quadro P2000
	Nvidia Quadro P4000
	Nvidia Quadro RTX A2000
	Nvidia Quadro RTX 4000
	Nvidia Quadro P2200
	Nvidia Quadro T600
	Nvidia Quadro T1000
	Intel HD Graphics 630

Network

To achieve the performance listed in the table below, a 1 Gigabit/s network is a minimum requirement between the Operator Client and Management Server.

ⓘ Notice

When the system does not have enough network resources, or is experiencing a temporary decrease in network performance, the event response time and alarm visibility time may increase.

ⓘ Notice

The list of communication channels and required network ports can be found in the BVMS Configuration manual.

(Unicast) Maximum number of workstations simultaneously viewing the same camera	5
(Multicast) Maximum number of workstations simultaneously viewing the same camera	100
Event response time (assuming sufficient network performance considering bandwidth and delay)	< 1 second
Alarm visibility time (assuming sufficient network performance considering bandwidth and delay), including 1 live image pane, 1 instant playback image page, and 1 map image pane.	< 2 seconds

Storage devices

The storage quick selection guide, which also includes non-Bosch storage devices, can be found on:
http://www.boschsecurity.com/bvms

Device	Series
Bosch DIVAR IP	2000, 3000, 5000, 6000, 7000
Bosch DIVAR IP AiO	4000, 5000, 6000, 7000
Bosch DSA E-Series	2300, 2400, 2500, 2600, 2700, 2800
Bosch DIVAR AN	3000, 5000
Bosch DIVAR network	2000, 3000, 5000
Bosch DIVAR hybrid	3000, 5000

Other hardware

Type	Device	Remarks
Decoder	Bosch VIDEOJET decoder 3000	n/a
Decoder	Bosch VIDEOJET decoder 7000	n/a
Decoder	Bosch VIDEOJET decoder 8000	Supports displaying of 4K cameras
Decoder	Bosch VIDEOJET decoder 7513	n/a

Type	Device	Remarks
Decoder	Bosch VIDEOJET decoder 7523	n/a
Decoder	Bosch VIDEOJET decoder 7533	n/a
Foyer card reader	MINITER 485	n/a
Serial input	Werner Electronic DTP3N	n/a
Intrusion panel	Bosch G-series B9512G 3.03.14,	Automation Device in the intrusion panels must be configured as Mode 2
	Bosch B5812G 3.03.14,	
	Bosch B5512 3.03.14,	
	Bosch B4512 3.03.14,	
	Bosch B3512 3.03.14,	
	Bosch B6512 3.03.14	
Intrusion panel	Bosch D9412GV4 2.03.018,	Microsoft Windows Patch 3155464 should not be installed
	Bosch D7412GV4 2.03.018	
Monitor wall	Barco Transform N series	RCPPlus agent 0.9.5.0
Analog matrix switch	Bosch Allegiant Series	Firmware 8.75 or later, Master control software 2.94
ATM/POS Bridge	Bosch ATM/POS Bridge	Version 1.10.00.12
Keyboard	Bosch KBD-Universal XF	USB
Keyboard	Bosch Intuikey	Serial, firmware 1.96
Digital I/O	Advantech ADAM-6050,	n/a
	Advantech ADAM-6052,	
	Advantech ADAM-6060,	
	Advantech ADAM-6066	
USB to serial	Belkin serial adapter F5U103VEA	n/a
Ethernet to serial	Comtrol DeviceMaster RTS 4-port	n/a
LPR camera	Tattile Vega Basic	n/a
	Tattile Vega Smart	
	Tattile Vega1	
	Tattile Vega 11	
	Tattile Vega 33	

Ordering information

MBV-BPRO License Professional base
Includes 8 cameras, 5 workstations, 5 CCTV keyboards, 1 DVR, 1 intrusion panel, 8 failover recording channels, 8 dual recording channels and ATM/POS, allegiant and OPC functionality.
Order number **MBV-BPRO**

MBV-XCHANPRO License Camera/decoder expansion
Expansion license for 1 encoder/decoder channel. Order the exact number required.
Order number **MBV-XCHANPRO**

MBV-XWSTPRO License Workstation expansion
Expansion license for 1 workstation (each extra workstation requires 1 license).
Order number **MBV-XWSTPRO**

MBV-X100WSTPRO License 100 Workstations expansion
Expansion license for 100 workstations.
Order number **MBV-X100WSTPRO**

MBV-FMAPPRO License online map functionality
Expansion license for online map functionality.
Order number **MBV-FMAPPRO**

MBV-FOBJPRO License Map-based tracking assistant
Expansion license for Map-based tracking assistant.
Order number **MBV-FOBJPRO**

MBV-XDURPRO License Camera dual recording expansion
Expansion license for 1 encoder channel used for dual recording.
Order number **MBV-XDURPRO**

MBV-XDVRPRO License DVR expansion
Expansion license for 1 DVR. Order the exact number required.
Order number **MBV-XDVRPRO**

MBV-XFOVPRO License VRM Failover channel expansion
Expansion license for 1 encoder channel used with a Failover VRM.
Order number **MBV-XFOVPRO**

MBV-XINTPRO License Intrusion panel expansion
Expansion license to integrate intrusion panels.
Order number **MBV-XINTPRO**

MBV-XKBDPRO License Keyboard expansion
Expansion license for 1 CCTV keyboard. Order the exact number required.
Order number **MBV-XKBDPRO**

MBV-XLPRPRO License LPR camera expansion
Expansion license for 1 (Tattile) LPR camera. Order the exact number required.
Order number **MBV-XLPRPRO**

MBV-XSITEPRO License Unmanaged site expansion
Expansion license for 1 site. Order the exact number required.
Order number **MBV-XSITEPRO**

MBV-XSUBPRO License Subsystem expansion
Expansion license for 1 subsystem. Order the exact number required.
Order number **MBV-XSUBPRO**

MBV-FPRIPRO License Privacy overlay
Expansion license for Privacy overlay.
Order number **MBV-FPRIPRO**

Software Options

MBV-MPRO SMA license for MBV-BPRO, 1 year
One year of maintenance cover for the Professional
Edition base license.
Order number **MBV-MPRO**

MBV-MCHANPRO SMA license for MBV-XCHANPRO, 1 year
One year of maintenance cover for the channel
expansion license.
Order number **MBV-MCHANPRO**

MBV-MWSTPRO SMA license for MBV-XWSTPRO, 1 year
One year of maintenance cover for the Workstation
expansion license.
Order number **MBV-MWSTPRO**

MBV-M100WSTPRO SMA license for MBV-X100WSTPRO, 1 year
One year of maintenance cover for the Workstation
expansion license.
Order number **MBV-M100WSTPRO**

MBV-MDURPRO SMA license for MBV-XDURPRO, 1 year
One year of maintenance cover for a Dual Recording
VRM expansion license.
Order number **MBV-MDURPRO**

MBV-MDVRPRO SMA license for MBV-XDVRPRO, 1 year
One year of maintenance cover for the DVR expansion
license.
Order number **MBV-MDVRPRO**

MBV-MFOVPRO SMA license for MBV-XFOVPRO, 1 year
One year of maintenance cover for a Failover VRM
expansion license.
Order number **MBV-MFOVPRO**

MBV-MMAPPRO SMA license for MBV-FMAPPRO, 1 year
One year of maintenance cover for an online map
functionality license.
Order number **MBV-MMAPPRO**

MBV-MINTPRO SMA license for MBV-XINTPRO, 1 year
One year of maintenance cover for an intrusion panel
expansion license.
Order number **MBV-MINTPRO**

MBV-MKBDPRO SMA license for MBV-XKBDPRO, 1 year
One year of maintenance cover for the CCTV keyboard
expansion license.
Order number **MBV-MKBDPRO**

MBV-MLPRPRO SMA license for MBV-XLPRPRO, 1 year
One year of maintenance cover for the (Tattile) LPR
camera expansion license.
Order number **MBV-MLPRPRO**

MBV-MOBJPRO SMA license for MBV-FOBJPRO, 1 year
One year of maintenance cover for the Map-based
tracking assistant license.
Order number **MBV-MOBJPRO**

MBV-MSITEPRO SMA license for MBV-XSITEPRO, 1 year
One year of maintenance cover for the site expansion
license.
Order number **MBV-MSITEPRO**

MBV-MSUBPRO SMA license for MBV-XSUBPRO, 1 year
One year of maintenance cover for an Enterprise
Subsystem expansion license.
Order number **MBV-MSUBPRO**

MBV-MPRIPRO SMA license for MBV-FPRIPRO, 1 year
One year of maintenance cover for a Privacy overlay
license.
Order number **MBV-MPRIPRO**

https://www.boschsecurity.com