

BVMS Professional 14.0



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 video surveillance devices, leveraging the unique capabilities of 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.

- ▶ 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.
- ▶ Video at its best - the best user-experience combining 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.

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:
[Keenfinity Knowledge Base](#).
 The system design guide summarizes the BVMS design details, and serves as a guide to planning a BVMS system with cameras and storage. It focuses on BVMS combined with the VRM.

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.
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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 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 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:

[Keenfinity Knowledge Base](#)

System limits

i 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

i 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 cameras can be used under the device compatibility concept, which you can find on the Security and Safety Community in the following article:

[How-to: BVMS - Device compatibility](#)

BVMS is an ONVIF Profile S, G and T 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 Server 2025 (64-bit)
	Windows 10 Enterprise LTSC 2021*
CPU	Windows 11 Pro (64-bit) (25H2)*
	Intel Xeon Silver 4110 (2.1 GHz, 8 cores)
	Intel Xeon-Silver 4410Y (2.0 GHz, 12 cores)
RAM	16GB
Free disk space	30GB (+ 15% of the hard-drive after installation)

Item	Description
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 Enterprise LTSC 2021 Windows 11 Pro (64-bit) (25H2) Windows 11 Enterprise LTSC 2024
CPU	Intel Core Ultra 5 235 vPro Enterprise (5 GHz) Intel Xeon W-2123 (3.6 GHz) Intel Xeon W-2423 (2.1 GHz)
RAM	8GB (16GB recommended)
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 Nvidia T400 Nvidia A400 Nvidia A1000 Intel HD Graphics 630 Note: Privacy overlay and Intelligent person tracking are only supported by Nvidia T- and A- series.

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.

i 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.

i 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- storage devices, can be found on: <http://www.boschsecurity.com/bvms>

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

Other hardware

Type	Device	Remarks
Decoder	VIDEOJET decoder 3000	n/a
Decoder	VIDEOJET decoder 7000	n/a
Decoder	VIDEOJET decoder 8000	Supports displaying of 4K cameras
Decoder	VIDEOJET decoder 7513	n/a
Decoder	VIDEOJET decoder 7523	n/a
Decoder	VIDEOJET decoder 7533	n/a
Foyer card reader	MINITER 485	n/a
Serial input	Werner Electronic DTP3N	n/a
Intrusion panel	G-series B9512G 3.03.14, B5812G 3.03.14, B5512 3.03.14, B4512 3.03.14, B3512 3.03.14,	Automation Device in the intrusion panels must be configured as Mode 2

Type	Device	Remarks
	B6512 3.03.14	
Intrusion panel	D9412GV4 2.03.018, D7412GV4 2.03.018	Microsoft Windows Patch 3155464 should not be installed
Monitor wall	Barco Transform N series	RCPPlus agent 0.9.5.0
Analog matrix switch	Allegiant Series	Firmware 8.75 or later, Master control software 2.94
ATM/POS Bridge	ATM/POS Bridge	Version 1.10.00.12
Keyboard	KBD-Universal XF	USB
Keyboard	Intukey	Serial, firmware 1.96
Digital I/O	Advantech ADAM-6050, Advantech ADAM-6052, Advantech ADAM-6060, Advantech ADAM-6066	n/a
USB to serial	Belkin serial adapter F5U103VEA	n/a
Ethernet to serial	Control DeviceMaster RTS 4-port	n/a
LPR camera	Tattile Vega Basic Tattile Vega Smart Tattile Vega1 Tattile Vega 11 Tattile Vega 33	n/a

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 Advanced tracking suite

Expansion license for Advanced tracking suite.

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-XFOVPRO License VRM Failover channel expansion

Expansion license for 1 encoder channel used with a Failover VRM.

Order number **MBV-XFOVPRO**

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**

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-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-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-MOJBPRO SMA license for MBV-FOJBPRO, 1 year

One year of maintenance cover for the Advanced tracking suite license.

Order number **MBV-MOJBPRO**

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**
