BVMS Plus 10.0.1

www.boschsecurity.com

BOSCH
Invented for life

- ▶ Flexible deployment - choose between cost-effective appliances or a software-only deployment.
- ▶ 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 Plus 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 software is provided as an e-license via e-mail.

Certifications and approvals

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

The BVMS system design guide is published on the following web page:

Bosch Building Technologies Community
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.

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

In addition to the Bosch Security Systems standard terms and conditions of sale, the Bosch Software Assurance is a great option to keep BVMS always up to date. With continuously changing platforms and version compatibility, regular updates are essential. With Bosch Software Assurance, you can relax knowing you are always entitled to the latest software enhancements. It ensures full technical support and access to hotfixes. The Bosch Software Assurance is available in the online product catalog.

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 Security and Safety Community

System limits

ℹ️ **Notice**
The system limits are based on the hardware recommendations.

Maximum number of workstations	10
Maximum number of cameras	256
Maximum number of live and playback sites	10
Maximum number of stitching channels	100
Maximum number of intrusion panels	10
Maximum number of DVRs	10
Maximum number of VRMs	2
Maximum number of sustained events (logbook) / sec	500
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

ℹ️ **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, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, Turkish and Korean.
Operation manual	English, German, Dutch, Italian, Portuguese, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, 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, 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. The list of tested cameras can be found on the following website:

🌐 http://ipp.boschsecurity.com/bvms

Management Server, Video Streaming Gateway, Video Recording Manager, and Mobile Video Service
It is recommended to run the
Video Recording Manager and the BVMS Management Server on the same computer.
The recommended specifications for BVMS Plus are based on the Bosch DIVAR IP AiO 7000.

Item	Description
Operating System	Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) Windows 10 Professional (64-bit) November 2019 update (1909) Windows 10 Professional (64-bit) May 2019 update (1903) Windows 10 Enterprise (64-bit) 2019 LTSC build 1809 Windows Server 2019 (64-bit)
CPU	Intel Xeon E3-1275 V3 (3.5 GHz, 4-core)
RAM	8GB
Free disk space	15GB (+ 15% of the hard-drive after installation)
Network	1 Gigabit/s network interface card

Operator Client

Item	Description
Operating System	Windows 10 Professional (64-bit) May 2019 update (1903) Windows 10 Professional (64-bit) November 2019 update (1909) Windows 10 Enterprise (64-bit) 2019 LTSC build 1809
CPU	Intel Core i7-8700 (3.2 GHz)
RAM	8GB
Free disk space	Minimum 5GB for Single Site Systems Minimum 10GB for Enterprise Systems
Network	1 Gigabit/s network interface card
Display resolution	Minimum: 1280 x 1024 Maximum: 1920 x 1080
Graphic card	Nvidia Quadro P620 Nvidia Quadro P2000 Nvidia Quadro P4000 Nvidia Quadro RTX4000 Nvidia Quadro P2200 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.

(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

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.

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	5000, 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
Bosch DVR	700, 4xx, 6xx
Bosch DiBos	Firmware 8.7
Bosch Recording Station (BRS)	Firmware 8.10 / 8.11

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
Foyer card reader	MINITER 485	n/a
Serial input	Werner Electronic DTP3N	n/a
Intrusion panel	Bosch G-series B9512G 3.03.14, 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	Automation Device in the intrusion panels must be configured as Mode 2
Intrusion panel	Bosch D9412GV4 2.03.018, Bosch 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	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, Advantech ADAM-6052, Advantech ADAM-6060, Advantech ADAM-6066	n/a
USB to serial	Belkin serial adapter F5U103VEA	n/a
Ethernet to serial	Comtrol DeviceMaster RTS 4-port	n/a

Ordering information

MBV-XSTCHPLU-100 License Stitching channel expansion
Expansion license for 1 stitching camera.
Order number **MBV-XSTCHPLU-100**

MBV-XAGRPLU-100 License Augmented reality expansion
Expansion license for 5 static augmented reality tags.
Order number **MBV-XAGRPLU-100**

MBV-XPIPLU-100 License Person ident. channel expansion
Expansion license for 1 person identification channel.
Order the exact number required.
Order number **MBV-XPIPLU-100**

MBV-BPLU-100 License Plus base
Includes 8 camera/decoder expansions, 5 workstation expansions, 8 failover recording channels, 8 dual-recording channels, 5 keyboard expansions, 1 DVR, 1 intrusion panel, 1 live and playback site, and ATM/POS, allegiant and OPC functionality.
Order number **MBV-BPLU-100**

MBV-XCHANPLU-100 License Camera/decoder expansion
Expansion license for 1 encoder/decoder channel.
Order the exact number required.
Order number **MBV-XCHANPLU-100**

MBV-XDURPLU-100 License Camera dual recording expansion
Expansion license for 1 camera dual recording channel. Order the exact number required.
Order number **MBV-XDURPLU-100**

MBV-XDVRPLU-100 License DVR expansion
Expansion license for 1 DVR. Order the exact number required.
Order number **MBV-XDVRPLU-100**

MBV-XFOVPLU-100 License VRM Failover channel expansion
Expansion license for 1 VRM failover channel. Order the exact number required.
Order number **MBV-XFOVPLU-100**

MBV-XINTPLU-100 License Intrusion panel expansion
Expansion license for 1 Intrusion panel. Order the exact number required.
Order number **MBV-XINTPLU-100**

MBV-XKBDPLU-100 License Keyboard expansion
Expansion license for 1 video surveillance keyboard.
Order the exact number required.
Order number **MBV-XKBDPLU-100**

MBV-XMVSPLU-100 License Mobile video service expansion
Expansion license for 1 mobile video service. Order the exact number required.
Order number **MBV-XMVSPLU-100**

MBV-XWSTPLU-100 License Workstation expansion
Expansion license for 1 workstation. Order the exact number required. One MBV-XWSTPLU-xx is consumed when using one CameoSDK connection.
Order number **MBV-XWSTPLU-100**

MBV-XSITEPLU-100 License Site expansion
Expansion license for 1 site. Order the exact number required.
Order number **MBV-XSITEPLU-100**

Software Options

MBV-MPLU License for MBV-BPLU-*, 1yr
1 year of maintenance cover for the Plus Edition base license.
Order number **MBV-MPLU**

MBV-MPLU-3YR License for MBV-BPLU-*, 3yr
3 years of maintenance cover for the Plus Edition base license.
Order number **MBV-MPLU-3YR**

MBV-MCHANPLU License for MBV-XCHANPLU-*, 1yr
1 year of maintenance cover for the Plus Edition camera/decoder expansion license.
Order number **MBV-MCHANPLU**

MBV-MCHANPLU-3YR License for MBV-XCHANPLU-*, 3yr
3 years of maintenance cover for the Plus Edition camera/decoder expansion license.
Order number **MBV-MCHANPLU-3YR**

MBV-MWSTPLU License for MBV-XWSTPLU-*, 1yr
1 year of maintenance cover for the Plus Edition workstation expansion license.
Order number **MBV-MWSTPLU**

MBV-MWSTPLU-3YR License for MBV-XWSTPLU-*, 3yr
3 years of maintenance cover for the Plus Edition workstation expansion license.
Order number **MBV-MWSTPLU-3YR**

MBV-MDVRPLU License for MBV-XDVRPLU-*, 1yr
1 year of maintenance cover for the Plus Edition DVR expansion license.
Order number **MBV-MDVRPLU**

MBV-MDVRPLU-3YR License for MBV-XDVRPLU-*, 3yr
3 years of maintenance cover for the Plus Edition DVR expansion license.
Order number **MBV-MDVRPLU-3YR**

MBV-MKBDPLU License for MBV-XKBDPLU-*, 1yr
1 year of maintenance cover for the Plus Edition keyboard expansion license.
Order number **MBV-MKBDPLU**

MBV-MKBDPLU-3YR License for MBV-XKBDPLU-*, 3yr
3 years of maintenance cover for the Plus Edition keyboard expansion license.
Order number **MBV-MKBDPLU-3YR**

MBV-MMVSPLU License for MBV-XMVSPLU-*, 1yr
1 year of maintenance cover for the Plus Edition Mobile Video Service expansion license.
Order number **MBV-MMVSPLU**

MBV-MMVSPLU-3YR License for MBV-XMVSPLU-*, 3yr
3 years of maintenance cover for the Plus Edition Mobile Video Service expansion license.
Order number **MBV-MMVSPLU-3YR**

MBV-MFOVPLU License for MBV-XFOVPLU-*, 1yr
1 year of maintenance cover for the Plus Edition Failover VRM expansion license.
Order number **MBV-MFOVPLU**

MBV-MFOVPLU-3YR License for MBV-XFOVPLU-*, 3yr
3 years of maintenance cover for the Plus Edition Failover VRM expansion license.
Order number **MBV-MFOVPLU-3YR**

MBV-MDURPLU License for MBV-XDURPLU-*, 1yr
1 year of maintenance cover for the Plus Edition Dual Recording VRM expansion license.
Order number **MBV-MDURPLU**

MBV-MDURPLU-3YR License for MBV-XDURPLU-*, 3yr
3 years of maintenance cover for the Plus Edition Dual Recording VRM expansion license.
Order number **MBV-MDURPLU-3YR**

MBV-MINTPLU License for MBV-XINTPLU-*, 1yr
One year of maintenance cover for the BVMS Plus Intrusion panel expansion license.
Order number **MBV-MINTPLU**

MBV-MINTPLU-3YR License for MBV-XINTPLU-*, 3yr
3 years of maintenance cover for a Plus Edition intrusion panel expansion license.
Order number **MBV-MINTPLU-3YR**

MBV-MAGRPLU License for MBV-1AGRPLU-*, 1yr
One year of maintenance cover for an augmented reality expansion license.
Order number **MBV-MAGRPLU**

MBV-MAGRPLU-3YR License for MBV-1AGRPLU-*, 3yr
Three years of maintenance cover for an augmented reality expansion license.
Order number **MBV-MAGRPLU-3YR**

MBV-MSTCHPLU License for MBV-1STCHPLU-*, 1yr
One year of maintenance cover for the BVMS Stitching channel expansion license.
Order number **MBV-MSTCHPLU**

MBV-MSTCHPLU-3YR License for MBV-1STCHPLU-*, 3yr
Three years of maintenance cover for the BVMS Stitching channel expansion license.
Order number **MBV-MSTCHPLU-3YR**

MBV-MPIPLU License for MBV-XAVPLU-*, 1yr
One year of maintenance cover for a BVMS Plus person identification channel expansion license.
Order number **MBV-MPIPLU**

MBV-MPIPLU-3YR License for MBV-XAVPLU-*, 3yr
Three years of maintenance cover for a BVMS Plus person identification channel expansion license.
Order number **MBV-MPIPLU-3YR**

MBV-MSITEPLU License for MBV-XSITEPLU-*, 1yr
One year of maintenance cover for the site expansion license.
Order number **MBV-MSITEPLU**

MBV-MSITEPLU-3YR License for MBV-XSITEPLU-*, 3yr
Three years of maintenance cover for the site expansion license.
Order number **MBV-MSITEPLU-3YR**