BOSCH

BVMS Plus 11.1.1

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► 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.

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

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	20
Maximum number of cameras	256
Maximum number of live and playback sites	10
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

ⓘ **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, Turkish and Korean.
Operation manual	English, German, Dutch, Italian, Portuguese, Finnish, 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.

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 Server 2019 (64-bit)

Item	Description
	Windows Server 2022 (64-bit)
	Windows 10 Professional (64-bit) (20H2)
	Windows 10 Professional (64-bit) (21H1)
	Windows 10 Professional (64-bit) (21H2)
	Windows 10 Enterprise (64-bit) 2019 LTSC build 1809
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) (20H2)
	Windows 10 Professional (64-bit) (21H1)
	Windows 10 Professional (64-bit) (21H2)
	Windows 10 Enterprise (64-bit) 2019 LTSC build 1809
CPU	Intel Xeon W-2123 (3.6 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: 3840 x 2160
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

ⓘ **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.

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

Other hardware

Type	Device	Remarks
Decoder	Bosch VIDEOJET decoder 3000	n/a
Decoder	Bosch VIDEOJET decoder 7000	n/a

Type	Device	Remarks
Decoder	Bosch VIDEOJET decoder 8000	Supports displaying of 4K cameras
Decoder	Bosch VIDEOJET decoder 7513	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, 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
LPR camera	Tattile Vega Basic Tattile Vega Smart Tattile Vega1	n/a

Ordering information

MBV-BPLU 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 | F.01U.393.650**

MBV-XCHANPLU License Camera/decoder expansion
Expansion license for 1 encoder/decoder channel. Order the exact number required.
Order number **MBV-XCHANPLU | F.01U.393.681**

MBV-XWSTPLU License Workstation expansion
Expansion license for 1 workstation (each extra workstation requires 1 license).
Order number **MBV-XWSTPLU | F.01U.393.682**

MBV-FMAPPLU License online map functionality
Expansion license for online map functionality.
Order number **MBV-FMAPPLU | F.01U.395.079**

MBV-FOBJPLU License Map-based tracking assistant
Expansion license for Map-based tracking assistant.
Order number **MBV-FOBJPLU | F.01U.393.652**

MBV-XDURPLU License Camera dual recording expansion
Expansion license for 1 encoder channel used for dual recording.
Order number **MBV-XDURPLU | F.01U.393.687**

MBV-XDVRPLU License DVR expansion
Expansion license for 1 DVR. Order the exact number required.
Order number **MBV-XDVRPLU | F.01U.393.683**

MBV-XFOVPLU License VRM Failover channel expansion
Expansion license for 1 encoder channel used with a Failover VRM.
Order number **MBV-XFOVPLU | F.01U.393.686**

MBV-XINTPLU License Intrusion panel expansion
Expansion license to integrate intrusion panels.
Order number **MBV-XINTPLU | F.01U.393.689**

MBV-XKBDPLU License Keyboard expansion
Expansion license for 1 CCTV keyboard. Order the exact number required.
Order number **MBV-XKBDPLU | F.01U.393.684**

MBV-XLPRPLU License LPR camera expansion
Expansion license for 1 (Tattile) LPR camera. Order the exact number required.
Order number **MBV-XLPRPLU | F.01U.393.691**

MBV-XMVSPLU License Mobile video service expansion
Expansion license for 1 Mobile Video Service.
Order number **MBV-XMVSPLU | F.01U.393.685**

MBV-XPIPLU License Person ident. channel expansion
Expansion license for 1 Person Identification channel. Order the exact number required.
Order number **MBV-XPIPLU | F.01U.393.690**

MBV-XSITEPLU License Unmanaged site expansion
Expansion license for 1 site. Order the exact number required.
Order number **MBV-XSITEPLU | F.01U.393.688**

MBV-XSUBPLU License Subsystem expansion
Expansion license for 1 subsystem. Order the exact
number required.
Order number **MBV-XSUBPLU | F.01U.393.692**

Software Options

MBV-MPLU SMA license for MBV-BPLU, 1 year
1 year of maintenance cover for the Plus Edition base
license.
Order number **MBV-MPLU | F.01U.330.513**

**MBV-MCHANPLU SMA license for MBV-XCHANPLU, 1
year**
1 year of maintenance cover for the Plus Edition camera/
decoder expansion license.
Order number **MBV-MCHANPLU | F.01U.330.514**

**MBV-MWSTPLU SMA license for MBV-XWSTPLU, 1
year**
1 year of maintenance cover for the Plus Edition
workstation expansion license.
Order number **MBV-MWSTPLU | F.01U.330.515**

MBV-MOBJPLU SMA license for MBV-FOBJPLU, 1 year
One year of maintenance cover for the Map-based
tracking assistant license.
Order number **MBV-MOBJPLU | F.01U.393.694**

**MBV-MMAPPLU SMA license for MBV-FMAPPLU, 1
year**
One year of maintenance cover for an online map
functionality license.
Order number **MBV-MMAPPLU | F.01U.395.082**

MBV-MPLU-DIP SMA license for MBV-BPLU-DIP, 1 year
One year of maintenance cover for the BVMS Plus
license for DIVAR IP all-in-one 6000 and DIVAR IP all-in-
one 7000.
Order number **MBV-MPLU-DIP | F.01U.389.513**

MBV-MDVRPLU SMA license for MBV-XDVRPLU, 1 year
1 year of maintenance cover for the Plus Edition DVR
expansion license.
Order number **MBV-MDVRPLU | F.01U.330.517**

MBV-MKBDPLU SMA license for MBV-XKBDPLU, 1 year
1 year of maintenance cover for the Plus Edition
keyboard expansion license.
Order number **MBV-MKBDPLU | F.01U.330.518**

MBV-MMVSPLU SMA license for MBV-XMVSPLU, 1 year
1 year of maintenance cover for the Plus Edition Mobile
Video Service expansion license.
Order number **MBV-MMVSPLU | F.01U.330.519**

MBV-MFOVPLU SMA license for MBV-XFOVPLU, 1 year
1 year of maintenance cover for the Plus Edition Failover
VRM expansion license.
Order number **MBV-MFOVPLU | F.01U.330.520**

MBV-MDURPLU SMA license for MBV-XDURPLU, 1 year
1 year of maintenance cover for the Plus Edition Dual
Recording VRM expansion license.
Order number **MBV-MDURPLU | F.01U.330.521**

MBV-MINTPLU SMA license for MBV-XINTPLU, 1 year
One year of maintenance cover for the BVMS Plus
Intrusion panel expansion license.
Order number **MBV-MINTPLU | F.01U.330.522**

MBV-MPIPLU SMA license for MBV-XPIPLU, 1 year
One year of maintenance cover for a BVMS Plus person
identification channel expansion license.
Order number **MBV-MPIPLU | F.01U.362.210**

MBV-MSITEPLU SMA license for MBV-XSITEPLU, 1 year
One year of maintenance cover for the site expansion
license.
Order number **MBV-MSITEPLU | F.01U.381.964**

MBV-MSUBPLU SMA license for MBV-XSUBPLU, 1 year
One year of maintenance cover for an Enterprise
Subsystem expansion license.
Order number **MBV-MSUBPLU | F.01U.389.490**

MBV-MLPRPLU SMA license for MBV-XLPRPLU, 1 year
1 year of maintenance cover for the (Tattile) LPR camera
expansion license.
Order number **MBV-MLPRPLU | F.01U.389.491**