

# BVMS Plus 9.0

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, which is further explained in the BVMS - GDPR document, which can be found on the following web page:

Bosch Building Technologies Community.

## 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 Plus or BVMS Professional systems can be combined into one BVMS Enterprise System.

Cameras within system context	200.000
Cameras per operator	10.000
Sub-systems	10 sub-systems with 1000 cameras per system or 50 sub-systems with 200 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 Building Technologies Community.

## System limits



### 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	0
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



### Notice

The logbook size can be increased by moving the logbook to a separate database server.

## 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 & Safety community in the following article:

How-to: BVMS - Device compatibility.

The list of supported ONVIF cameras can be found on: <http://ipp.boschsecurity.com/bvms>.

If a camera is not listed, testing can be ordered by filling in the custom camera integration form.

### Management Server and Mobile Video Service

It is recommended to run the Video Recording Manager and the BVMS Management Server on the same computer.

Item	Description
Operating System	Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) Windows 10 Professional (64-bit) Spring Creators update (1803) Windows 10 Professional (64-bit) Fall Creators update (1709) Windows 10 Enterprise (64-bit) LTSB 2016 (1607)
CPU	Intel Xeon E3-1275 V3 (3.5 GHz, 4-core, 8MB, 84W)
RAM	8GB

Item	Description
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) Spring Creators update (1803) Windows 10 Professional (64-bit) Fall Creators update (1709) Windows 10 Enterprise (64-bit) LTSB 2016 (1607)
CPU	Intel Core i7 4770 3.4 GHz (up to 3.9 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 K620 Nvidia Quadro M2000 Nvidia Quadro M4000 Nvidia Quadro P2000 Nvidia Quadro P4000 Intel HD Graphics 530

### 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.

<b>(Unicast)</b> Maximum number of workstations simultaneously viewing the same camera	5
<b>(Multicast)</b> 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	< 2 seconds

delay), including 1 live image pane, 1 instant playback image pane, and 1 map image pane.



#### 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://ipp.boschsecurity.com/bvms>

Device	Series
Bosch DIVAR IP	2000, 3000, 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
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

Type	Device	Remarks
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	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	RCPPPlus 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-BPLU-90 License Plus base

Base license for Plus edition. Includes 8 camera/decoder expansions, 5 workstation expansions, 8 fail-over recording channels, 8 dual-recording channels, 5 keyboard expansions and ATM/POS, Allegiant and OPC functionality.

Order number **MBV-BPLU-90**

#### MBV-XCHANPLU-90 License Camera/decoder expansion

Expansion license for 1 encoder/decoder channel. Order the exact number required.

Order number **MBV-XCHANPLU-90**

#### MBV-XWSTPLU-90 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-90**

#### MBV-XDVRPLU-90 License DVR expansion

Expansion license for 1 DVR. Order the exact number required.

Order number **MBV-XDVRPLU-90**

#### MBV-XKBDPLU-90 License Keyboard expansion

Expansion license for 1 video surveillance keyboard. Order the exact number required.

Order number **MBV-XKBDPLU-90**

#### MBV-XMVSPULU-90 License Mobile video service expansion

Expansion license for 1 mobile video service. Order the exact number required.

Order number **MBV-XMVSPULU-90**

#### MBV-XFOVPLU-90 License VRM Failover channel expansion

Expansion license for 1 VRM failover channel. Order the exact number required.

Order number **MBV-XFOVPLU-90**

#### MBV-XDURPLU-90 License Camera dual recording expansion

Expansion license for 1 camera dual recording channel. Order the exact number required.

Order number **MBV-XDURPLU-90**

#### MBV-XINTPLU-90 License Intrusion panel expansion

Expansion license for 1 Intrusion panel. Order the exact number required.

Order number **MBV-XINTPLU-90**

#### MBV-1STCHPLU-90 License Stitching channel expansion

Expansion license for 1 stitching camera.

Order number **MBV-1STCHPLU-90**

#### MBV-5AGRPLU-90 License Augmented reality expansion

Expansion license for 5 static augmented reality tags.

Order number **MBV-5AGRPLU-90**

#### 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-XMVSPULU-\*, 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-XMVSPULU-\*, 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**

**Represented by:**

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
emea.securitysystems@bosch.com  
emea.boschsecurity.com

**Germany:**  
Bosch Sicherheitssysteme GmbH  
Robert-Bosch-Ring 5  
85630 Grasbrunn  
Germany  
www.boschsecurity.com

**North America:**  
Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
onlinehelp@us.bosch.com  
www.boschsecurity.us

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia