

# BVMS Lite 10.0

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**BOSCH**

Invented for life



- ▶ 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.
- ▶ Free of charge up to 8 cameras - load the license, and off you go.



## Notice

Support of the free-of-charge BVMS Lite 8 channel base package (without extensions) is limited to online self-help. To get started, read the following article on the Bosch Security & Safety community website:



BVMS Lite - Quick start overview

BVMS Lite 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 website:



Bosch Security and Safety 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



#### Notice

The system limits are based on the hardware recommendations.

Maximum number of workstations	5
Maximum number of cameras	42
Maximum number of intrusion panels	5
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, 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 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) October 2018 update (1809) 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) October 2018 update (1809) 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 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://ipp.boschsecurity.com/bvms>

Device	Series
Bosch DIVAR IP	2000, 3000, 5000, 6000, 7000
Bosch DIVAR IP AIO	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
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	RCPlus 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-BLIT-100 License Lite base**

Includes 8 camera/decoder expansions, 2 workstation expansions, 8 failover recording channels, 8 dual-recording channels, 2 keyboard expansions, 1 DVR, and ATM/POS, allegiant and OPC functionality. Order number **MBV-BLIT-100**

**MBV-XCHANLIT-100 License Camera/decoder expansion**

Expansion license for 1 encoder/decoder channel. Order the exact number required. Order number **MBV-XCHANLIT-100**

**MBV-XDVLIT-100 License DVR expansion**

Expansion license for 1 DVR. Order the exact number required. Order number **MBV-XDVLIT-100**

**MBV-XDURLIT-100 License Camera dual recording expansion**

Expansion license for 1 encoder channel used for dual recording. Order the exact number required. Order number **MBV-XDURLIT-100**

**MBV-XFOVLIT-100 License VRM Failover channel expansion**

Expansion license for 1 encoder channel used with a Failover VRM. Order the exact number required. Order number **MBV-XFOVLIT-100**

**MBV-XINTLIT-100 License Intrusion panel expansion**

Expansion license to integrate intrusion panels. Order number **MBV-XINTLIT-100**

**MBV-XKBDLIT-100 License Keyboard expansion**

Expansion license for 1 CCTV keyboard. Order the exact number required. Order number **MBV-XKBDLIT-100**

**MBV-XWSTLIT-100 License Workstation expansion**

Expansion license for 1 workstation (each extra workstation requires 1 license). Order number **MBV-XWSTLIT-100**

**MBV-XPILIT-100 License Person ident. channel expansion**

Expansion license for 1 person identification channel. Order the exact number required. Order number **MBV-XPILIT-100**

**Software Options****MBV-MCHANLIT License for MBV-XCHANLIT-\*, 1yr**

One year of maintenance cover for the BVMS Lite camera/decoder channel expansion license.

Order number **MBV-MCHANLIT**

**MBV-MCHANLIT-3YR License for MBV-XCHANLIT-\*, 3yr**

Three years of maintenance cover for the BVMS Lite camera/decoder channel expansion license.

Order number **MBV-MCHANLIT-3YR**

**MBV-MDURLIT License for MBV-XDURLIT-\*, 1yr**

One year of maintenance cover for the BVMS Lite DVR expansion license.

Order number **MBV-MDURLIT**

**MBV-MDURLIT-3YR License for MBV-XDURLIT-\*, 3yr**

Three years of maintenance cover for the BVMS Lite DVR expansion license.

Order number **MBV-MDURLIT-3YR**

**MBV-MLIT License for MBV-BLIT-\*, 1yr**

One year of maintenance cover for the BVMS Lite base license.

Order number **MBV-MLIT**

**MBV-MLIT-3YR License for MBV-BLIT-\*, 3yr**

Three years of maintenance cover for the BVMS Lite base license.

Order number **MBV-MLIT-3YR**

**MBV-MDURLIT License for MBV-XDURLIT-\*, 1yr**

One year of maintenance cover for a BVMS Lite Dual Recording VRM expansion license.

Order number **MBV-MDURLIT**

**MBV-MDURLIT-3YR License for MBV-XDURLIT-\*, 3yr**

Three years of maintenance cover for a BVMS Lite Dual Recording VRM expansion license.

Order number **MBV-MDURLIT-3YR**

**MBV-MFOVLIT License for MBV-XFOVLIT-\*, 1yr**

One year of maintenance cover for a BVMS Lite Failover VRM expansion license.

Order number **MBV-MFOVLIT**

**MBV-MFOVLIT-3YR License for MBV-XFOVLIT-\*, 3yr**

Three years of maintenance cover for a BVMS Lite Failover VRM expansion license.

Order number **MBV-MFOVLIT-3YR**

**MBV-MINTLIT License for MBV-XINTLIT-\*, 1yr**

One year of maintenance cover for a BVMS Lite intrusion panel expansion license.

Order number **MBV-MINTLIT**

**MBV-MINTLIT-3YR License for MBV-XINTLIT-\*, 3yr**

Three years of maintenance cover for a BVMS Lite intrusion panel expansion license.

Order number **MBV-MINTLIT-3YR**

**MBV-MKBDLIT License for MBV-XKBDLIT-\*, 1yr**

One year of maintenance cover for a BVMS Lite CCTV keyboard expansion license.

Order number **MBV-MKBDLIT**

**MBV-MKBDLIT-3YR License for MBV-XKBDLIT-\*, 3yr**

Three years of maintenance cover for a BVMS Lite CCTV keyboard expansion license.

Order number **MBV-MKBDLIT-3YR**

**MBV-MWSTLIT License for MBV-XWSTLIT-\*, 1yr**

One year of maintenance cover for a BVMS Lite Workstation expansion license.

Order number **MBV-MWSTLIT**

**MBV-MWSTLIT-3YR License for MBV-XWSTLIT-\*, 3yr**

Three years of maintenance cover for a BVMS Lite Workstation expansion license.

Order number **MBV-MWSTLIT-3YR**

**MBV-MPILIT License for MBV-XPILIT-\*, 1yr**

One year of maintenance cover for a BVMS Lite person identification channel expansion license.

Order number **MBV-MPILIT**

**MBV-MPILIT-3YR License for MBV-XPILIT-\*, 3yr**

Three years of maintenance cover for a BVMS Lite person identification channel expansion license.

Order number **MBV-MPILIT-3YR**

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