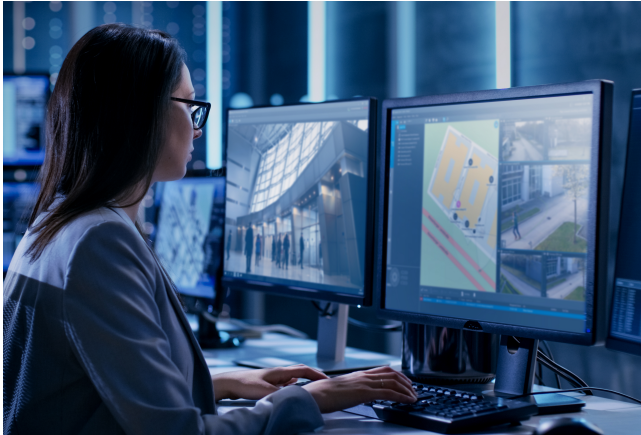


## BVMS Lite 13.1



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.

### 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

#### 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

- ▶ 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.

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 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

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](#)

**Note:** BVMS Lite is not covered with Assurance GO . In order to receive professional support, please order Assurance PRO separately.

### 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



#### 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 |

| Component            | Languages                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 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, G and T certified video management system.

#### Management Server, Video Streaming Gateway, Video Recording Manager

It is recommended to run the Video Recording Manager and the BVMS Management Server on the same computer. The recommended specifications for BVMS Lite are based on the Bosch DIVAR IP AiO 5000.

| Item             | Description                                                                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | Windows Server 2016 (64-bit)<br>Windows Server 2019 (64-bit)<br>Windows Server 2022 (64-bit)<br>Windows Server 2025 (64-bit)<br>Windows 10 Enterprise LTSC 2021*<br>Windows 11 Pro (64-bit) (24H2)* |
| CPU              | Intel i3-8100                                                                                                                                                                                       |
| RAM              | 8GB                                                                                                                                                                                                 |
| Free disk space  | 30GB (+ 15% of the hard-drive after installation)                                                                                                                                                   |
| 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<br>Windows 11 Pro (64-bit) (24H2)<br>Windows 11 Enterprise LTSC 2024                                                                                                                                             |
| CPU                | Intel Xeon W-2123 (3.6 GHz)                                                                                                                                                                                                                      |
| RAM                | 8GB                                                                                                                                                                                                                                              |
| Free disk space    | Minimum 10GB for Single Site Systems<br>Minimum 15GB for Enterprise Systems                                                                                                                                                                      |
| Network            | 1 Gigabit/s network interface card                                                                                                                                                                                                               |
| Display resolution | Minimum: 1280 x 1024<br>Maximum: 3840 x 2160                                                                                                                                                                                                     |
| Graphic card       | Nvidia Quadro P620<br>Nvidia Quadro P2000<br>Nvidia Quadro P4000<br>Nvidia Quadro RTX A2000<br>Nvidia Quadro RTX 4000<br>Nvidia Quadro P2200<br>Nvidia Quadro T600<br>Nvidia Quadro T1000<br>Nvidia T400<br>Nvidia A400<br>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.

|                                                                                                                                                                                    |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <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 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  | 4000, 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                         |

## 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                                      |
| Decoder              | Bosch VIDEOJET decoder 7513                                                                                                                            | n/a                                                                    |
| Decoder              | Bosch VIDEOJET decoder 7523                                                                                                                            | n/a                                                                    |
| Decoder              | Bosch VIDEOJET decoder 7533                                                                                                                            | 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,<br>Bosch B5812G 3.03.14,<br>Bosch B5512 3.03.14,<br>Bosch B4512 3.03.14,<br>Bosch B3512 3.03.14,<br>Bosch B6512 3.03.14 | Automation Device in the intrusion panels must be configured as Mode 2 |
| Intrusion panel      | Bosch D9412GV4 2.03.018,<br>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,<br>Advantech ADAM-6052,                                                                                                           | n/a                                                                    |

| Type               | Device                          | Remarks |
|--------------------|---------------------------------|---------|
| USB to serial      | Advantech ADAM-6060,            | n/a     |
|                    | Advantech ADAM-6066             |         |
| Ethernet to serial | Belkin serial adapter F5U103VEA | n/a     |
| LPR camera         | Control DeviceMaster RTS 4-port | n/a     |
|                    | Tattile Vega Basic              |         |
|                    | Tattile Vega Smart              |         |
|                    | Tattile Vega1                   |         |
|                    | Tattile Vega 11                 |         |
|                    | Tattile Vega 33                 |         |

### Ordering information

#### MBV-BLIT 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**

#### MBV-XCHANLIT License Camera/decoder expansion

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

Order number **MBV-XCHANLIT**

#### MBV-XWSTLIT License Workstation expansion

Expansion license for 1 workstation (each extra workstation requires 1 license).

Order number **MBV-XWSTLIT**

#### MBV-FMAPLIT License online map functionality

Expansion license for online map functionality.

Order number **MBV-FMAPLIT**

#### MBV-FOBJLIT License Map-based tracking assistant

Expansion license for Map-based tracking assistant.

Order number **MBV-FOBJLIT**

#### MBV-XDURLIT License Camera dual recording expansion

Expansion license for 1 encoder channel used for dual recording.

Order number **MBV-XDURLIT**

#### MBV-XFOVLIT License VRM Failover channel expansion

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

Order number **MBV-XFOVLIT**

#### MBV-XLPRLIT License LPR camera expansion

Expansion license for 1 (Tattile) LPR camera. Order the exact number required.

Order number **MBV-XLPRLIT**

### Software Options

#### MBV-MLIT SMA license for MBV-BLIT, 1 year

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

Order number **MBV-MLIT**

#### MBV-MCHANLIT SMA license for MBV-XCHANLIT, 1 year

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

Order number **MBV-MCHANLIT**

#### MBV-MWSTLIT SMA license for MBV-XWSTLIT, 1 year

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

Order number **MBV-MWSTLIT**

#### MBV-MMAPLIT SMA license for MBV-FMAPLIT, 1 year

One year of maintenance cover for an online map functionality license.

Order number **MBV-MMAPLIT**

#### MBV-MOBLIT SMA license for MBV-FOBJLIT, 1 year

One year of maintenance cover for the Map-based tracking assistant license.

Order number **MBV-MOBLIT**

#### MBV-MLIT-DIP SMA license for MBV-BLIT-DIP, 1 year

One year of maintenance cover for the BVMS license for DIVAR IP all-in-one 4000 / DIVAR IP all-in-one 5000.

Order number **MBV-MLIT-DIP**

#### MBV-MFOVLIT SMA license for MBV-XFOVLIT, 1 year

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

Order number **MBV-MFOVLIT**

#### MBV-MDURLIT SMA license for MBV-XDURLIT, 1 year

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

Order number **MBV-MDURLIT**

#### MBV-MLPRLIT SMA license for MBV-XLPRLIT, 1 year

1 year of maintenance cover for the (Tattile) LPR camera expansion license.

Order number **MBV-MLPRLIT**



<https://www.boschsecurity.com>