BVMS Lite 10.0.1

www.boschsecurity.com

- 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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick installation guide</td>
<td>English, French, German, Simplified Chinese and Spanish</td>
</tr>
<tr>
<td>Configuration manual</td>
<td>English, German, Dutch, Italian, Portuguese, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, Turkish and Korean</td>
</tr>
<tr>
<td>Operation manual</td>
<td>English, German, Dutch, Italian, Portuguese, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, Turkish and Korean</td>
</tr>
<tr>
<td>Software</td>
<td>English, German, Dutch, Italian, Portuguese, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Czech, Greek, Polish, Swedish, Turkish and Korean</td>
</tr>
</tbody>
</table>

**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:

نظرية 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 Lite are based on the Bosch DIVAR IP AiO 5000.

- 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.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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 i3-8100                                                                                                                                 |
| RAM                       | 8GB                                                                                                                                              |
| Free disk space           | 15GB (+ 15% of the hard-drive after installation)                                                                                             |
| Network                   | 1 Gigabit/s network interface card                                                                                                               |

**Operator Client**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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 |

**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

<table>
<thead>
<tr>
<th>Device</th>
<th>Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bosch DIVAR IP</td>
<td>2000, 3000, 5000, 6000, 7000</td>
</tr>
<tr>
<td>Bosch DIVAR IP AiO</td>
<td>5000, 7000</td>
</tr>
<tr>
<td>Bosch DSA E-Series</td>
<td>2300, 2400, 2500, 2600, 2700, 2800</td>
</tr>
<tr>
<td>Bosch DIVAR AN</td>
<td>3000, 5000</td>
</tr>
<tr>
<td>Bosch DIVAR network</td>
<td>2000, 3000, 5000</td>
</tr>
<tr>
<td>Bosch DIVAR hybrid</td>
<td>3000, 5000</td>
</tr>
<tr>
<td>Bosch DVR</td>
<td>700, 4xx, 6xx</td>
</tr>
<tr>
<td>Bosch DiBos</td>
<td>Firmware 8.7</td>
</tr>
<tr>
<td>Bosch Recording Station (BRS)</td>
<td>Firmware 8.10 / 8.11</td>
</tr>
</tbody>
</table>
## Other hardware

<table>
<thead>
<tr>
<th>Type</th>
<th>Device</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decoder</td>
<td>Bosch VIDEOJET decoder 3000</td>
<td>n/a</td>
</tr>
<tr>
<td>Decoder</td>
<td>Bosch VIDEOJET decoder 7000</td>
<td>n/a</td>
</tr>
<tr>
<td>Decoder</td>
<td>Bosch VIDEOJET decoder 8000</td>
<td>Supports displaying of 4K cameras</td>
</tr>
<tr>
<td>Foyer card reader</td>
<td>MINITER 485</td>
<td>n/a</td>
</tr>
<tr>
<td>Serial input</td>
<td>Werner Electronic DTP3N</td>
<td>n/a</td>
</tr>
<tr>
<td>Intrusion panel</td>
<td>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</td>
<td>Automation Device in the intrusion panels must be configured as Mode 2</td>
</tr>
<tr>
<td>Intrusion panel</td>
<td>Bosch D9412GV4 2.03.018, Bosch D74112GV4 2.03.018</td>
<td>Microsoft Windows Patch 3155464 should not be installed</td>
</tr>
<tr>
<td>Monitor wall</td>
<td>Barco Transform N series</td>
<td>RCPPlus agent 0.9.5.0</td>
</tr>
<tr>
<td>Analog matrix switch</td>
<td>Bosch Allegiant Series</td>
<td>Firmware 8.75 or later, Master control software 2.94</td>
</tr>
<tr>
<td>ATM/POS Bridge</td>
<td>Bosch ATM/POS Bridge</td>
<td>Version 1.10.00.12</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Bosch KBD-Universal XF</td>
<td>USB</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Bosch Intuikey</td>
<td>Serial, firmware 1.96</td>
</tr>
<tr>
<td>Digital I/O</td>
<td>Advantech ADAM-6050, Advantech ADAM-6052, Advantech ADAM-6060, Advantech ADAM-6066</td>
<td>n/a</td>
</tr>
<tr>
<td>USB to serial</td>
<td>Belkin serial adapter F5U103VEA</td>
<td>n/a</td>
</tr>
<tr>
<td>Ethernet to serial</td>
<td>Control DeviceMaster RTS 4-port</td>
<td>n/a</td>
</tr>
</tbody>
</table>

## 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-XDVRLIT-100 License DVR expansion**
Expansion license for 1 DVR. Order the exact number required.
Order number MBV-XDVRLIT-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-MDVRLIT License for MBV-XDVRLIT-*, 1yr**
One year of maintenance cover for the BVMS Lite DVR expansion license.
Order number MBV-MDVRLIT

**MBV-MDVRLIT-3YR License for MBV-XDVRLIT-*, 3yr**
Three years of maintenance cover for the BVMS Lite DVR expansion license.
Order number MBV-MDVRLIT-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