Video | Bosch Video Management System 8.0

Bosch Video Management System 8.0

www.boschsecurity.com







SECURITY CAMERAS

The First Name in Security









- ► Maximize resilience keep operations up and running even when multiple system components fail.
- ➤ Reduced total cost of ownership manage up to 2000 cameras with a single server to reduce installation and operating costs.
- ▶ Bosch video at its best support Bosch cameras and better than any other management software.
- Integration integrate third-party cameras, storage and further systems into BVMS.
- ▶ IT environments and data security profit from full IT compatibility from installation to configuration in a secure way.

The Bosch Video Management System (BVMS) is a unique enterprise IP video security solution that provides seamless management of digital video, audio, and data across any IP network. It provides the best VMS to go with Bosch CCTV devices, leveraging the unique capabilities of Bosch cameras and recording solutions. It nevertheless offers interfaces and standards to integrate other systems and manufacturers.

The system is equipped with a unique embedded resilience.

It keeps operations up and running even when both, Management and Recording Servers fail.

On edge intelligent Video Analyses and the unmatched recording technology managing up to 2000 cameras with a single server dramatically reduces the total cost of ownership.

The Bosch Video Management System allows a very flexible system design:

- Professional: Single Management Server System 1 to 2000 cameras out of the box.
- Enterprise System: Supporting multi Management Server requirements for Metro, Airport and other large industrial facilities across different time zones.

Supports controlled monitoring across different legal entities. Monitoring of up to 10,000 cameras across 10 subsystems per user group resulting in 200,000 cameras in total.

Up to 50 subsystems per user group for <200 cameras per subsystem, allowing each operator to access events, alarms, live and playback from up to 50 Management Server computers simultaneously.

- Maximum 2000 ONVIF cameras per Management Server.
- Access to live including PTZ control and recorded video of up to 9999 sites with Bosch DVR recorders, DIVAR IP 3000 / 7000 and single Management Server systems.

The Bosch Video Management System is installed on a Microsoft Windows Operating System.

We recommend using Bosch Workstations and Servers. They are fully tested and optimized for Bosch Video Management System.

In addition to the Bosch Security Systems standard terms and conditions of sale, the Bosch Software Maintenance Agreement is a great option to keep BVMS always up to date. The Bosch Software Maintenance Agreement is available in the product catalog.

System overview

Software components

- Management Server software provides management, monitoring, and control of the entire system. One single Management Server manages up to 2000 Cameras/encoders.
- Enterprise Management Server provides access to multiple Management Servers.
- Video Recording Manager (VRM) provides recording and playback management of video, audio, and data.
 One single VRM manages up to 2000 cameras/ encoders (including up to 2000 ONVIF cameras).
- Configuration Client software provides the straight forward user interface for system configuration and management.
- Config Wizard software provides easy and fast setup of a small recording system when using the BVMS Appliance.
- BVMS Appliance: DIVAR IP 3000/7000 is a simple and reliable all-in-one recording, viewing, and management solution for network surveillance systems with 32 channels pre-licensed.
- Operator Client software provides the ergonomic and intuitive user interface for system monitoring and operation.
- Mobile Video Service provides a transcoding service.
 It transcodes the live and recorded video stream from a configured camera according to the available network bandwidth. This service enables video clients to view high-quality images via low bandwidth.
- Mobile App (iPhone or iPad): Access live and playback video from remote in single or quad-view.
 Alert and share live video from mobile camera with other security staff with a single click. App available in AppStore.
- Web Client: Access live and playback video from remote in single or quad-view. Search for text data and trigger export of videos on Management Server.
- Bosch Video Streaming Gateway: Bosch cameras, ONVIF cameras, JPEG cameras, RTSP encoders.

Bosch Video Recording Manager (VRM) provides a Distributed Network Video Recorder solution, eliminating the need for dedicated NVRs.

The usage of multiple client Workstations offers great scalability.

Included parts

BVMS is delivered electronically via download of the Setup in the Product Catalog.

The Setup contains the following items:

- Installation program that can selectively install all components (Management Server, Video Recording Manager, Configuration Client, Operator Client, Video Streaming Gateway, Mobile Video Service, BVMS SDK, Cameo SDK) in all supported languages.
 - Configuration Manual (PDF format)
 - Operation Manual (PDF format)
- Quick Installation Guide (PDF format) in English, French, German, Simplified Chinese and Spanish.

Licenses are provided as eLicenses via email.

Functions

Embedded Resilience

 An Offline Client ensures continuous operation for live, playback and export while Management Server is disconnected.

Video Recording Manager (VRM)

VRM provides load balancing and failover for the iSCSI Storage System and makes it easy to add additional iSCSI Storage Systems later on. VRM introduces the concept of a storage virtualization layer. This abstraction layer enables VRM to manage all of the individual disk arrays in the entire system as various "virtual" pools of storage, which are intelligently allocated as needed.

A storage pool is a container for one or more iSCSI storage systems that share the same load balancing properties.

Dual / failover recording:

computer.

 A Primary VRM manages the normal recording of the cameras of your system. You use a Secondary VRM to achieve dual recording of your cameras.
 Dual recording allows you to record video data from the same camera to different locations.
 A Secondary VRM can manage the secondary recording for multiple Primary VRMs.
 A Failover VRM is used for continuing the recording of a failed Primary VRM or a failed Secondary VRM

BVMS furthermore supports Live and Playback of the following recording engines:

 DIVAR IP series, Local Storage, Direct iSCSI recording; Bosch Recording Station (BRS), Video Streaming Gateway (VSG).

For legacy purposes the following recording engines are supported: DVR, DiBos, VIDOS (Live only).

Cameras

- Supports Bosch UHD and panoramic cameras, MPEG-4 & H.264 encoders, MPEG-4, H.264 and H.265 IP cameras, and IP AutoDome cameras in SD & HD format
- Supported HD resolutions: 720p and 1080p, 5, 8 and 12 Megapixel
- · Intelligent Video Analytics and Forensic Search
- · Video-based fire detection
- Automated Network Replenishment (ANR)
- · Region of Interest (ROI)
- Intelligent tracking
- Quality settings attuned to each camera type.
 Refer to data sheets of the cameras for further details
- Support of 3rd party cameras via RTSP, JPEG, or ONVIF Profile S.
- The list of supported 3rd party cameras is published on the Bosch Integration Partner Program website. http://ipp.boschsecurity.com/bvms

Deployment

- Updates of Operator Client and Configuration Client automatically deployed from Management Server
- · One-click hotfix deployment

 Internet Information Service is configured automatically for use with Mobile Video

Configuration

- Generic camera connection.
 BVMS retrieves the values of currently known features on connection to unknown Bosch IP cameras/encoders. You can add a camera/encoder of an unknown device type as a generic device with a limited feature set.
- Valid for firmware 5.70 or later.
- · Scan of IP devices.
- · IP address assignment of IP devices.
- · Configurable Logical Tree.
- Device states indicated by icons, including network connection loss, video loss, and camera deadjustment.
- · Batch firmware updates of IP devices.

Scheduling

- Up to 10 Recording Schedules with Holidays and Exception Days
- Task Schedules with Holidays, Exception Days, and recurring schedule support
- Per camera settings for minimum and maximum recording times
- Per camera, per recording schedule frame rate and quality settings for live, normal recording, motion recording, and alarm recording

Event handling

- Compound events (combining events with Boolean logic)
- · Event duplication allowing separate handling
- · Event assignment to user groups
- · Schedule dependent event logging
- Schedule dependent event-triggered Command Script invocation
- 4 configurable user-events (can be triggered via menu command)
- Mapping of ONVIF events to BVMS events. ONVIF events can then trigger BVMS alarms and recording

Alarm configuration

- Schedule dependent alarm generation.
- Alarms can trigger alarm-mode recording for any cameras.
- · 100 alarm priorities can be defined.
- · Occurrence of text data can trigger alarm recording.

Sequences

- Pre-configured camera sequences with 25 cameras with each up to 100 steps with individual dwell times.
- "Automatic Sequences" created by multiple selection and drag to Image panes.

User Management

- LDAP compatible for integration with user management systems such as Microsoft Active Directory
- Access to system resources individually controlled per user group
- Logical Tree customized per user group users only see devices for which they have access
- User group rights for protecting, deleting, exporting, and printing video

- · User group rights for Logbook access
- User group priority assignment for PTZ control and Allegiant camera access
- Individual per-camera privileges assignable per user group for live access, playback, audio, text data display, PTZ control
- Dual-authorization logon special privileges and priorities granted when two users log on together

Efficient operation

BVMS puts a strong emphasis to efficient operation, which consists of several disciplines:

Equipment:

- Workstations are protected by an Inactivity logoff during the absence of the operator.
- Up to 4 PC monitors supported per Workstation.
 Arbitrary number of Bosch Monitor Walls or a Barco Monitor Wall (Transform N-series) may be used in addition.
- KBD-Universal XF keyboard supported, connected to Workstation via USB interface.
- KBD-Universal XF keyboard supports Enterprise System (select the desired Management Server).
- Bosch IntuiKey keyboard supported, connected to either Workstation or IP decoder.
- Bosch IntuiKey keyboard supports Enterprise System (select the desired Management Server).

Intuitive operation:

- A unique flexible Image window (patent pending) allows any combination of video window sizes and layouts without the need of pre-configured layouts
- Any live Image pane can be switched to instant playback (not valid for transcoded streams)
- Multiple instant playback Image panes
- Image panes can display live video, instant playback video, text documents, maps, or web pages
- Enhanced map features: Device states indicated on icons; special state events (for example motion alarm) can be highlighted by defined colors or blinking; thumbnail of camera appears on mouse over; alarms of devices can be accepted and presets can be accessed via context menu
- Camera selection by double-click or drag and drop from site maps, Logical Tree, or Favorites Tree
- Decoders can be organized in Monitor Walls from within Operator Client Monitor Walls can be controlled without connection to Management Server
- Control of analog monitors connected to decoders via drag and drop
- Automatic stream switching depending on Image pane size and digital zoom level in Live Mode

Efficient surveillance:

- Favorites tree can be individually configured per user.
- Call up Favorites with a click. Include complete views with Image pane layouts and camera assignments.
- Intelligent tracking enables the camera to assist the operator by following an automatically or manually selected object (PTZ camera or fixed cameras).
- Zoomable sitemaps with links, devices, sequences, and Command Scripts provide excellent overview.
- Automatic map positioning of a camera in a map when this camera is selected.

- Two audio listening options selected channel only, or multiple simultaneous channels.
- · Audio Intercom functionality.
- When operating from a remote access, the operator can retrieve Live and Playback via low bandwidth using transcoded video or TCP for reliable connection (Live Mode). Using the Region of Interest feature saves network bandwidth when zooming into a section of the camera image.

Efficient response:

- Intelligent Video Analytics is the state-of-the-art method that reliably detects, tracks, and analyzes moving objects while suppressing unwanted alarms from spurious sources in the image
- Priority threshold defined for each operator group for escalation management
- Selective auto-popup on alarm
- Alarms displayed in separate alarm window
- Up to 5 Image panes per alarm with live or playback video, sitemaps, documents, or web pages displayed in an "alarm row", with highest priority alarms on top
- Audio file per alarm
- Workflow with user instructions and user comments, optionally forced before clearing
- · Email or SMS notification on alarm
- · Alarm display on Monitor Wall
- Alarm auto clear options either time or state dependent

Efficient investigation:

- Forensic Search allows the usage of Intelligent Video Analysis (IVA) algorithms on the recorded video
- Motion search in recordings allows easy locating of changes in selected areas
- Sophisticated multi-camera Timeline allows easy, graphical searching of recorded video
- Bookmarks in Live and Playback Mode for easy investigation and export of recordings
- Selected clips can be exported to DVD, network drives, or USB sticks with a few mouse clicks
- The operator can search for text data to quickly find the corresponding recordings
- Text data is delivered by systems like foyer card readers, automatic teller machines, point of sales, petrol stations or Automatic Number Plate Recognition
 - Text data contains textual transaction data like account numbers and bank routing codes. The text data is stored within the Logbook as well as in the recordings

System Monitoring

- System-wide health monitoring, including Bosch cameras, computers, and software.
- Network equipment and other third-party devices monitored with SNMP.
- SNMP monitoring on the Management Server computer provides monitoring information to other Management Systems.

Customization and Interfacing

 Server SDK controls and monitors BVMS Management Server by scripts and external applications.

- Client SDK controls and monitors BVMS
 Operator Client by external applications and scripts
 (part of the related server configuration).
- Client Enterprise SDK controls and monitors BVMS Operator Client of an Enterprise System by external applications.
- Cameo SDK easily embeds the content of the BVMS Image pane into clients of 3rd party Physical Security Information Management (PSIM) and other management systems.
 - For each Cameo SDK instance you need a Workstation license.
- Custom Command Scripts can control all system functionality.
- Powerful built in Command Script editor supports C# and Visual Basic .Net.
- External software can trigger events and send text data via virtual inputs.
- Any .Net programming language (for example C#) can be used to interface BVMS functionalities.
- Other systems can control a virtual matrix with Allegiant CCL commands that can be sent via RS232.
- Compatible with Advantech ADAM-6000 series Digital Input / Output modules.
- · Compatible with Bosch Building Integration System.
- · Compatible with UL intrusion panels from Bosch.

Technical specifications

System Specifications

Multicast: 100 Unicast: 5 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
Portuguese, French, Spanish, Simplified Chinese, Traditional Chinese, Russian, Hungarian, Japanese, Czech, Danish, Ginnish, Greek, Norwegian, Polish, Swedish, Thai, Turkish, Korean, Arabic, and Vietnamese
1 second, assuming sufficient
etwork bandwidth
Maximum 2 seconds, assuming ufficient network bandwidth
Min. 1 Gbps for connections between: Operator Client and Management Gerver Operator Client and VRM/DiBos Management Server and IVR/VRM/DiBos
5

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Management Server Specifications

Maximum number of sustained events	For highest performance server: 500 events/s with Logbook 1000 events/s without Logbook 5000 events/s at peaks (within 60 minutes) with Logbook 500 events/s from ONVIF cameras
Logbook	4 GB Logbook size

VRM Specifications

Version	3.70 Previous versions are not supported.
Maximum count of VRM servers per Management Server	125 (maximum 2000 cameras in total)
Max. number of playback sessions	64

Minimum Client Workstation PC Requirements

Operating System	Windows 8.1 (64-bit, Professional or Enterprise) Windows 10 (64-bit, Professional or Enterprise, patched with Anniversary Update).
CPU	Intel Core i7 4770 3.4 GHz (up to 3.9 GHz)
RAM	Minimum 8 GB
Free disk space	Minimum 3 GB for Single Site Systems Minimum 5 GB for Enterprise Systems We recommend having minimum 15% free disk space.
Network card	1000Base-T
Display Resolution	1024x768 up to 1920x1200
Recommended Graphic Cards	MHW-AWGC-K620 MHW-AWGC-M2000 MHW-AWGC-M4000

Minimum Management Server, Mobile Video Service and Configuration Client PC Requirements

Operating System	Windows 2012 Server R2 (64- bit) or Windows Server 2016 (64-bit) SP1 required for > 500 cameras Windows 8.1 (64-bit) required for Management Server, Configuration Client and Operator Client on the same computer, and maximum 500 IP cameras/encoders
CPU	Intel Core i7 4770 3.4 GHz (up to 3.9 GHz)
RAM	Minimum 8 GB
Free disk space	Minimum 15 GB We recommend having minimum 15% free disk space.
Network card	1000Base-T
Display Resolution	1280 x 1024

Minimum VRM Server PC Requirements

William VIIII Server 1 S	rtequirements
Operating System	Windows Server 2012R2, Windows Storage Server 2012R2, Windows Server 2016 (64-bit), Windows 10 (64- bit, Professional or Enterprise, patched with Anniversary update), Windows 8.1 (Professional or Enterprise)
CPU	1x or 2x Quad-Core Intel Xeon Processor E5606 (2.13 GHz, 8 MB L3 cache) or faster
RAM	Minimum 4 GB
Free disk space	1000 MB We recommend having minimum 15% free disk space.
Network card	1 Gbps
Display Resolution	1024x768 or higher

Device Compatibility

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Intrusion panels from Bosch	For use with BVMS, the Automation Device in the intrusion panels must be configured as Mode 2. G-Series US1A: B9512G (required firmware version: 3.03.14) B8512G (required firmware version: 3.03.14) B-Series US1B: B5512 (required firmware version: 3.03.14) B4512 (required firmware version: 3.03.14) B4512 (required firmware version: 3.03.14) B3512 (required firmware version: 3.03.14) GV4 panels (not supported if Microsoft Windows patch 3155464 has been applied to the system): D9412GV4 (required firmware version: 2.03.018) D7412GV4 (required firmware version: 2.03.018)
Barco Monitor Wall Transform N Series	Barco RCPPlus-Agent 0.9.4.0
Analog Matrix Switch	Bosch Allegiant series, firmware 8.75 or later and Master Control Software version 2.94
Bosch POS/ATM Bridge	Version 1.10.00.12(63029)/2010-9-10
CCTV Keyboard	KBD-Universal XF keyboard (USB keyboard) Bosch IntuiKey keyboard, firmware version 1.96
Digital I/O	Digital I/O Advantech ADAM-6050, ADAM-6052, ADAM-6060, ADAM-6066
Digital Video Recorders	DVR 431, 440, 451, 480, 630, 650, 670, 700 series (maximum 50 managed DVRs per Management Server) Bosch Recording Station 8.10, 8.11 DIVAR AN 3000 / 5000 DIVAR hybrid 3000 / 5000 DIVAR network 3000 / 5000 DiBos, firmware version 8.7 Maximum 100 BRS/DiBos recorders per Management Server
USB to Serial adapter	Belkin serial adapter cable F5U103vea
Ethernet to Serial adapter	Comtrol DeviceMaster RTS 4-Port
ONVIF cameras	Maximum 2000 ONVIF cameras Supported cameras are listed on the Bosch Integration Partner Program website http://ipp.boschsecurity.com/bvms For non-listed cameras refer to MBV-3RD PRTY
Unmanaged sites	Maximum 9999 unmanaged sites.

	Supported unmanaged devices: BVMS, DIVAR IP 3000/7000, DVR 431, 440, 451, 480, 630, 650, 670, 700 series, DIVAR AN 3000, DIVAR AN 5000, DIVAR hybrid 3000, DIVAR hybrid 5000, DIVAR network 2000, DIVAR network 3000, DIVAR network 5000 Maximum 5 DVR/DIVAR AN devices per site
Connectivity with Building Integration System	Version 4.3 / 4.4
Foyer Card Readers	Maximum 2 readers per Management Server are supported. MINITER 485 is supported.
DTP 3N Box	Allows for connecting maximum 4 ATM devices to your Management Server.
Audio devices	Supported audio formats:

Ordering information

MBV-BDEM-80 License Demo

Demo license for 3 cameras, 2 workstations, 2 CCTV keyboards, 2 DVRs.

Order number MBV-BDEM-80

MBV-BENT-80 License Enterprise base

Base license for Enterprise System. 2 Management Server subsystems (1 required for Enterprise Management); 8 cameras; 2 workstations;1 CCTV keyboard; 1 DVR. All MBV-X* and MBV-F* options are only available with Base license.

Order number MBV-BENT-80

MBV-BLIT32-80 License Lite32 base

Lite license for 32 Cameras, 2 workstations, 1 CCTV Keyboard, 1 Mobile Video Service.
Order number MBV-BLIT32-80

MBV-BLIT64-80 License Lite64 base

Lite license for 64 cameras, 4 workstations, 2 CCTV Keyboards, 1 Mobile Video Service.
Order number MBV-BLIT64-80

MBV-BPRO-80 License Professional base

Base license for Professional Edition. 8 cameras; 2 workstations; 1 CCTV keyboard; 1 DVR. All MBV-X* and MBV-F* options are only available with Base license. Order number MBV-BPRO-80

MBV-FALG-80 License Alligiant feature

Expansion license to connect 1 Allegiant Matrix to a Management Server.

Order number MBV-FALG-80

MBV-FATM-80 License ATM/POS feature

Expansion license to integrate ATM/POS devices. Order number MBV-FATM-80

MBV-FEUP-80 License Professional to Enterprise

Upgrade license to expand a Professional Edition base license to an Enterprise System base license.

Order number MBV-FEUP-80

MBV-FOPC-80 License OPC feature

Expansion license to integrate a Building Integration System (BIS).

Order number MBV-FOPC-80

MBV-XCHAN-80 License Camera/decoder expansion

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

Order number MBV-XCHAN-80

MBV-XDUR-80 License Camera dual recording expansion

Expansion license for 1 encoder channel used for dual recording.

Order number MBV-XDUR-80

MBV-XDVR-80 License DVR expansion

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

Order number MBV-XDVR-80

MBV-XFOV-80 License VRM Failover channel expansion

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

Order number MBV-XFOV-80

MBV-XINT-80 License Intrusion panel expansion

Expansion license to integrate intrusion panels. Order number MBV-XINT-80

MBV-XKBD-80 License Keyboard expansion

Expansion license for 1 CCTV keyboard. Order the exact number required.

Order number MBV-XKBD-80

MBV-XMVS-80 License Mobile video service expansion

Expansion license for 1 Mobile Video Service.

Order number MBV-XMVS-80

MBV-XSITE-80 License Site expansion

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

Order number MBV-XSITE-80

MBV-XSUB-80 License Enterprise subsystem expansion

Expansion license to add 1 Management Server to the Enterprise System as a member of this system.

Order number MBV-XSUB-80

MBV-XWST-80 License Workstation expansion

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

Order number MBV-XWST-80

MBV-XAGR-80 License Augmented reality expansion

Expansion license for 5 static augmented reality tags. Order number MBV-XAGR-80

MBV-XSTCH-80 License Stitching channel expansion

Expansion license for 1 stitching camera.

Order number MBV-XSTCH-80

MBV-MSTCH License for MBV-XSTCH-*, 1yr

1 year of maintenance cover for the stitching channel expansion.

Order number MBV-MSTCH

MBV-MSTCH-3YR License for MBV-XSTCH-*, 3yr

3 years of maintenance cover for the stitching channel expansion.

Order number MBV-MSTCH-3YR

MBV-MAGR License for MBV-XAGR-*, 1yr

1 year of maintenance cover for the augmented reality tags expansion.

Order number MBV-MAGR

MBV-MAGR-3YR License for MBV-XAGR-*, 3yr

3 years of maintenance cover for the augmented reality tags expansion.

Order number MBV-MAGR-3YR

BVMS-LITEPRO-64 Upgrade Lite32 to Professional 64ch

License to upgrade an installed Lite-64 Edition to a Professional Edition with 64 channels. **Always** include the computer hardware ID of installed Lite-64 system with the order.

Order number BVMS-LITEPRO-64

BVMS-LITEPRO-32 Upgrade Lite32 to Professional 32ch

License to upgrade an installed Lite-32 Edition to a Professional Edition with 32 channels. **Always** include the computer hardware ID of installed Lite-32 system with the order.

Order number BVMS-LITEPRO-32

MBV-3RD-PRTY Integration of Onvif compliant camera

Service to integrate 1 ONVIF compliant camera with Bosch VMS. Terms and Conditions see Bosch Integration Partner Program website.

Order number MBV-3RD-PRTY

MBV-MLIT32 License for MBV-BLIT16-*, 1yr

One year of maintenance cover for the Lite-32 license. Order number MBV-MLIT32

MBV-MLIT64 License for MBV-BLIT64-*, 1yr

One year of maintenance cover for the Lite-64 license. Order number MBV-MLIT64

MBV-MPRO License for MBV-BPRO-*, 1yr

One year of maintenance cover for the Professional Edition base license.

Order number MBV-MPRO

MBV-MENT License for MBV-BENT-*, 1yr

One year of maintenance cover for the Enterprise Edition base license.

Order number MBV-MENT

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One year of maintenance cover for the upgrade license from Pro to Enterprise.

Order number MBV-MEUP

MBV-MCHAN License for MBV-XCHAN-*, 1yr

One year of maintenance cover for the channel expansion license.

Order number MBV-MCHAN

MBV-MDVR License for MBV-XDVR-*, 1yr

One year of maintenance cover for the DVR expansion license.

Order number MBV-MDVR

MBV-MWST License for MBV-XWST-*, 1yr

One year of maintenance cover for the Workstation expansion license.

Order number MBV-MWST

MBV-MKBD License for MBV-XKBD-*, 1yr

One year of maintenance cover for the CCTV keyboard expansion license.

Order number MBV-MKBD

MBV-MFOREN License for MBV-XFOREN-*, 1yr

One year of maintenance cover for the Forensic Search expansion license.

Order number MBV-MFOREN

MBV-MSUB License for MBV-XSUB-*, 1yr

One year of maintenance cover for an Enterprise Subsystem expansion license.

Order number MBV-MSUB

MBV-MMVS License for MBV-XMVS-*, 1yr

One year of maintenance cover for the Mobile Video Service expansion license.

Order number MBV-MMVS

MBV-MEUP License for MBV-FEUP-*, 1yr

One year of maintenance cover for the upgrade license from Pro to Enterprise.

Order number MBV-MEUP

MBV-MALG License for MBV-XALG-*, 1yr

One year of maintenance cover for an Allegiant Matrix expansion license.

Order number MBV-MALG

MBV-MATM License for MBV-FATM-*, 1yr

One year of maintenance cover for an ATM/POS expansion license.

Order number MBV-MATM

MBV-MINT License for MBV-XINT-*, 1yr

One year of maintenance cover for an intrusion panel expansion license.

Order number MBV-MINT

MBV-MSITE License for MBV-XSITE-*, 1yr

One year of maintenance cover for the site expansion license.

Order number MBV-MSITE

MBV-MOPC License for MBV-FOPC-*, 1vr

One year of maintenance cover for the OPC Server Connection expansion license.

Order number MBV-MOPC

MBV-MFOV License for MBV-XFOV-*, 1yr

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

Order number MBV-MFOV

MBV-MDUR License for MBV-XDUR-*, 1yr

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

Order number MBV-MDUR

MBV-MLIT32-3YR License for MBV-BLIT32-*, 3yr

Three years of maintenance cover for the Lite-32 license.

Order number MBV-MLIT32-3YR

MBV-MLIT64-3YR License for MBV-BLIT64-*, 3yr

Three years of maintenance cover for the Lite-64 license.

Order number MBV-MLIT64-3YR

MBV-MPRO-3YR License for MBV-BPRO-*, 3yr

Three years of maintenance cover for the Professional Edition base license.

Order number MBV-MPRO-3YR

MBV-MENT-3YR License for MBV-BENT-*, 3yr

Three years of maintenance cover for the Enterprise Edition base license.

Order number MBV-MENT-3YR

MBV-MEUP-3YR License for MBV-FEUP-*, 3yr

Three years of maintenance cover for the upgrade license from Pro to Enterprise.

Order number MBV-MEUP-3YR

MBV-MCHAN-3YR License for MBV-XCHAN-*, 3yr

Three years of maintenance cover for the channel expansion license.

Order number MBV-MCHAN-3YR

MBV-MDVR-3YR License for MBV-XDVR-*, 3yr

Three years of maintenance cover for the DVR expansion license.

Order number MBV-MDVR-3YR

MBV-MWST-3YR License for MBV-XWST-*, 3yr

Three years of maintenance cover for the Workstation expansion license.

Order number MBV-MWST-3YR

MBV-MKBD-3YR License for MBV-XKBD-*, 3yr

Three years of maintenance cover for the CCTV keyboard expansion license.

Order number MBV-MKBD-3YR

MBV-MFOREN-3YR License for MBV-XFOREN-*, 3yr

Three years of maintenance cover for the Forensic Search expansion license.

Order number MBV-MFOREN-3YR

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MBV-MSUB-3YR License for MBV-XSUB-*, 3yr

Three years of maintenance cover for a Subsystem expansion license.

Order number MBV-MSUB-3YR

MBV-MMVS-3YR License for MBV-XMVS-*, 3yr

Three years of maintenance cover for the Mobile Video Service expansion license.

Order number MBV-MMVS-3YR

MBV-MALG-3YR License for MBV-FALG-*, 3yr

Three years of maintenance cover for an Allegiant Matrix expansion license.

Order number MBV-MALG-3YR

MBV-MATM-3YR License for MBV-FATM-*, 3yr

Three years of maintenance cover for an ATM/POS expansion license.

Order number MBV-MATM-3YR

MBV-MINT-3YR License for MBV-XINT-*, 3yr

Three years of maintenance cover for an intrusion panel expansion license.

Order number MBV-MINT-3YR

MBV-MSITE-3YR License for MBV-XSITE-*, 3yr

Three years of maintenance cover for the site expansion license.

Order number MBV-MSITE-3YR

MBV-MOPC-3YR License for MBV-FOPC-*, 3yr

Three years of maintenance cover for the OPC Server Connection expansion license.

Order number MBV-MOPC-3YR

MBV-MFOV-3YR License for MBV-XFOV-*, 3yr

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

Order number MBV-MFOV-3YR

MBV-MDUR-3YR License for MBV-XDUR-*, 3yr

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

Order number MBV-MDUR-3YR

Represented by:

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