Bosch Recording Station 8.10 Software

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BOSCH
Invented for life

▶ Recording and Management Software for IP video

▶ Connect up to 64 video sources per station

▶ Supports Bosch H.264/MPEG-4, third-party MPEG-4 and JPEG devices, ONVIF camera and encoder devices

▶ HD / Megapixel camera support

▶ Unlimited remote receiver stations

Building on DiBos technology the Recording Station uses Bosch's proven video management, recording and communications technology and takes IP based video surveillance to a new level. It forms an integral part of overall security solutions for many applications – including banks, large retailers, railway stations, city centers, industrial facilities and office buildings. With Recording Station you can retrieve live and recorded video from anywhere in the network. Whether they are on site or at a remote network location, authorized personnel have quick, convenient access to all information making Recording Station the perfect solution for surveillance over distributed networks.

Recording Station supports live viewing and recording at any resolution up to 2048 x 1536 pixels (3 Megapixel) including HD widescreen resolutions. It manages up to 64 IP video sources (Bosch and 3rd party) that are compatible to the following video compression standards:

- Bosch H.264
- Bosch MPEG-4
- Axis MPEG-4
- MJPEG via HTTP and TFTP
- ONVIF camera support

The unique, scalable GUI allows live and recorded images from multiple remote stations to be viewed from a single PC (receiver station). With this powerful function, security managers can monitor and supervise multiple locations simultaneously even if remote stations are connected through a WAN.

Each camera offers in-window pan/tilt/zoom functionality from local or remote facilities. Images are displayed with date/time, location, camera name and the status of connected devices such as detectors and sensors.

Recording Station can be programmed to respond to specific situations and events automatically. In response to alarms, the system can be programmed to record at a higher quality and to transmit images or messages to security personnel.

Playback is easy thanks to familiar search and navigation functions using a graphical timeline control. Users can playback recordings from multiple stations simultaneously and synchronously on one interface. Fast, powerful image search functions like the Smart Motion Search eliminate time consuming manual searches.

Export the video to an archive with the push of a single button - all digitally watermarked to ensure the credibility of your recordings. You can even export

multiple cameras from different recorders. Use the scheduled export to recurrently backup your recordings on various storage devices, such as external disk arrays and NAS (network attached storage).

To ensure the highest security, all system access is controlled by multiple user authorization levels which determine individual permissions for each user to a very high level of detail. These authorization levels determine what a user can do in the system. Elements such as camera viewing and control, playback and export of recordings, as well the types of system configuration settings that are allowed can be individually configured.

Events, such as login, log-off, status changes, image transmission, video export, and system shutdown are logged in a database and can be easily imported to spreadsheet programs like MS Excel. Video authentication is built-in to detect any attempt to alter the recorded images.

Recording Station provides various interfaces to other systems such as Bosch access solutions and alarm panels, as well as external systems like ATM and POS terminals, fire alarm systems, number plate capture equipment and video content analysis solutions. Integration with other security and building management systems is accomplished using OPC (OLE for Process Control). When even tighter integration is required, our VideoSDK provides you with a complete toolbox of modules for playback, searching, viewing and much, much more.

Use Recording Station in a LAN environment with Bosch Video Management System to advance to a true enterprise solution which provides a comprehensive feature set such as centralized user, event and alarm management, multi-monitor workstations with zoom able sitemaps and CCTV keyboard control.

For special cases when the customer wants to be hardware independent we offer a USB dongle that provides a unique Computer Signature (Dongle ID). Recording Station still needs to be licensed via a software authorization and SLMS.

This USB dongle also can be used in case the Computer Signature changes on every start of Recording Station caused by for example

- RAID which covers / alters the HDD IDs or provides an own - mostly cryptically - hardware ID
- Windows 7 / Server 2008 which shows only these MACs which are actually connected
- Different Windows users which have different permissions to access PC hardware

Technical specifications

Recording resolutions	QCIF, CIF, 2CIF, 4CIF, HD 720p, HD 1080p Megapixel (arbitrary JPEG resolution up to 2048 x 1536 pixels)
Recording rates per channel	PAL: 0,5 - 25 IPS NTSC: 0,5 – 30 IPS
Supported video codecs / protocols	Bosch MPEG-4 Bosch H.264 Axis MPEG-4, JPEG/MJPEG via HTTP/TFTP
Supported Bosch MPEG-4/H.264 IP cameras	AutoDome Junior HD / HD IVA AutoDome 100/200/300/500 AutoDome Easy IP / IP II / IP II E Axis MPEG4 (no PTZ) Dinion IP (MPEG4) Dinion NBN-832V-P HD Dinion NBN-921-P Dinion NBx 4xx P / P IVA Dinion NBx 4xx P SD / P SD IVA Dinion NDx 4xx P SD / P SD IVA Dinion HD 1080p D/N Dinion NER-L2 Extreme IP FlexiDome IP FlexiDome NDN-921-P FlexiDome NDx 4xx P / P IVA FlexiDome HD 1080p D/N NBC 255-P / 265 P / 225 P NBC-255-W / NBC-265-W 265-W NDC 265 P / 225-P / 225 P I NDC-255-P / 255 P I NDC-274 / 284 NTC-265-PI NDN-265-PIO NDN-822 x AutoDome 700 IP VG4 AutoDome (H.264 IP module) VG5 AutoDome HD / SD VOT 320V NEI-30 IR Imager IVA
Supported Bosch H.264 and MPEG-4 encoders (video servers)	VideoJet 10/1000 VideoJet X10 / X20 /X40 VideoJet X10 SN / X20 SN / X40 SN VideoJet X1 XF / X1 XF W VideoJet X20 XF E / X40 XF E VIP10 VIP 1600 / 1600 XFM4 VIPX1 / VIPX1A / VIPX2 / VIPX2A / VIPX1 XF E VJ8004 / VJ8004A VJ8008 / VJ8008A
Supported Bosch JPEG IP cameras	NWC-0700/0800 Megapixel IP camera NWC-0900 Day/Night Megapixel IP camera
Supported JPEG IP cameras from other manufacturers	IP cameras from Arecont Vision, Axis, Mobotix, Sony and other compatible cameras that support HTTP/TFTP and provide fixed path to JPEG image

Supported ONVIF cameras	AXIS M7014 Video Encoder AXIS P1347 Network Camera AXIS P5534 PTZ Dome Network Camera AXIS Q6035 PTZ Dome Network Camera AXIS Q1604 Sony SNC-CH240 Panasonic WV-SC386 Series PTZ
Maximum number of connected cameras:	64
Maximum number of configured remote station at one receiver station	500 (can be configured, visible in devices list)
Number of simultaneously connected remote stations at one receiver station	Maximum: 32
Supported Languages	Czech, Danish, Dutch, German, Greek, English, Finnish, French, Hungarian, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish and Turkish
HTTP Browser Access (WAN)	IIS must be installed and configured on the Bosch Recording Station. A custom HTTP port is possible.
BRS WebServer	ActiveX required on browser. For Windows XP Professional: maximum 3 connections to one station
Supported operating systems	**Windows 7** (32-bit / 64-bit) **Windows Server 2008** (32-bit) **Windows Server 2008 R2** (64-bit) **Windows XP Professional SP3** (32-bit) **Windows Server 2003** (32-bit)

Minimum requirements for Workstation PCs running Bosch Recording Station (Recorder and Receiver)

Maximum recording rate	50 Mbit/s
CPU	Core 2 Duo CPU
RAM	2 GB
Graphic Card	32-Bit color depth (DirectX 9 Hardware Support, no shared memory)
Free disk space	2 GB on system partition
Recording partition	Dedicated partition (e.g. D:) for recording
Network adapter	1000 Base-T, Gbit

Graphic adapter recommendations

standard performance	NVIDIA FX380 NVIDIA FX580
high performance	NVIDIA FX1700 NVIDIA FX1800 NVIDIA FX4800

Minimum Requirements for server platforms running Bosch Recording Station (Recorder only)

Maximum recording rate	100 Mbit/s (no local viewing)
CPU	quad-core Intel Xeon 5504 processor (2.0 GHz)
RAM	4 GB
Recording partition	Dedicated partition (e.g. D:) for recording, storage expansion possible with disc arrays directly attached to internal SCSI port
Supported disk arrays	DVA-xxK-xxxxxRA SCSI disk array DVA-08E-xxxxxRA SCSI disk array; no daisy chaining, max. 16 TB physical storage
Supported servers	MHW-S360xx-xx, MHW-S380xx-xx
Reference HP servers	DL360/DL380

Device Compatibility / Integration features

Bosch Video Management System	Version 3.0. Requires 1 Gbit/s connections to central server and workstation; communication via TCP Port 135 plus 4 TCP ports and 4 UDP ports dynamically assigned in the range from 1025 to 65535
ATM integration	DTP3N via RS232 (only EMEA)
IP server integration	Any IP server using socket connections for communication
Alarm panel integration (intrusion, fire, access)	Integration via RS232: AZ1010, BZ500, BZ1012, BZ1060, FPA5000, G-Series Panels, NZ500, NZ1008, NZ1012, NZ1060, UEZ, UGM2020
Digital I/O modules	Digital I/O Advantech ADAM-6017, ADAM-6018, ADAM-6022, ADAM-6024, ADAM-6050, ADAM-6050-W, ADAM-6051, ADAM-6051-W, ADAM-6052, ADAM-6055, ADAM-6060, ADAM-6060-W, ADAM-6066,
OPC server	The DiBos 8 OPC server (v8.7) also supports Bosch Recording Station and must be installed separately. The installation file is included on the Setup DVD Note: OPC server is not supported on Windows 7 and Windows Server 2008
Virtual inputs	Up to 132 virtual inputs

Ordering information

DVD Box + Manual without license
Recording Station DVD Box and Manual, without License
Order number **BRS-DVD-00A**

DVD Box + Manual 16 IP cameras
Recording Station DVD Box and Manual, Base License
for 16 IP Cameras included
Order number **BRS-DVD-16A**

DVD Box + Manual 32 IP cameras
Recording Station DVD Box and Manual, Base License
for 32 IP Cameras included
Order number **BRS-DVD-32A**

Software Options

Base License 4 IP cameras (e-license)
Recording Station Base License for 4 IP Cameras
Order number **BRS-BASE-04A**

Base License 8 IP cameras (e-license)
Recording Station Base License for 8 IP Cameras
Order number **BRS-BASE-08A**

Base License 16 IP cameras (e-license)
Recording Station Base License for 16 IP Cameras
Order number **BRS-BASE-16A**

Base License 32 IP cameras (e-license)
Recording Station Base License for 32 IP Cameras
Order number **BRS-BASE-32A**

Expansion License 4 IP cameras (e-license)
Recording Station Expansion License for 4 additional
IP Cameras
Order number **BRS-XCAM-04A**

Expansion License 8 IP cameras (e-license)
Recording Station Expansion License for 8 additional
IP Cameras
Order number **BRS-XCAM-08A**

Expansion License 16 IP cameras (e-license)
Recording Station Expansion License for 16 additional
IP Cameras
Order number **BRS_XCAM-16A**

Expansion license for 32 IP cameras (e-license)
Recording Station Expansion License for 32 IP
Cameras
Order number **BRS-XCAM-32A**

Feature License ATM POS bridge (e-license)
Recording Station Feature License for ATM/POS
Bridge Integration
Order number **BRS-FATM-A**

Feature License IP Server (e-license)
Recording Station Feature License for IP Server
Socket Connections
Order number **BRS-FIPS-A**

Feature License Security Panel (e-license)
Recording Station Feature License for Security Panel
Integration
Order number **BRS-FPAN-A**

Feature License CD/DVD writing for Receiver (e-license)
Recording Station (Receiver) Feature License CD/DVD
Writing
Order number **BRS-FWRI-A**

BRS USB Dongle
Recording Station USB dongle. Provides a unique ID if
computer signature often changes.
Order number **BRS-DNGL-A**

30 day Demo License (e-license)
Recording Station Demo License for 32 IP Cameras
(expires after 30 days)
Order number **BRS-DEMO-32A**