DIVAR network 5000 recorder

Connect this recorder to a maximum of 32 IP cameras that use the latest H265/H264 high-resolution video technology and state-of-the-art compression techniques. These advanced technologies, coupled with efficient network data transmission, deliver the high security and reliability required for modern surveillance systems. Simultaneous remote or local monitoring, recording, archive and playback functions are guided by simple menu selections and operator commands. The recorders can be installed with a maximum of 4 internal HDDs for video storage. Another option is two HDDs for storage, plus a DVD burner for video export. Use the recorder as a desktop model or in a standard rack mount.

Functions

Latest video compression technology
The DIVAR supports H.264 and H.265 video compression technology. This technology dramatically reduces bandwidth and storage requirements while still delivering superb image and audio quality. Equipped with this newest video technology, DIVAR gives you the full benefits of the latest high-resolution cameras. The proof is in the pixels.

Camera IP support
The recorder supports native camera integration with Bosch IP cameras which provides easy installation, configuration and maintenance options. This allows plug-and-play connectivity as the installer can connect and configure the cameras to the recorder without having to open every camera individually on a web client. For further configuration 3rd party cameras are supported through the ONVIF Profile S protocol.

Simultaneous record and view
The DIVAR records multiple video and audio signals while simultaneously providing live multi-screen viewing and playback. Comprehensive search and playback functions provide quick recall and viewing of recorded video. The DIVAR has a real-time display resolution of 1080p for 16 channels simultaneously, or 4K for 4 channels.

PoE+ switch
The recorders with a built-in PoE+ switch can supply power to a maximum of 16 connected cameras. Each camera automatically receives its IP address from the recorder for simple plug-and-play operation.

Simple operation
The DIVAR is very easy to install and use. Simply connect the cameras, apply power, and follow the simple Install Wizard steps for initial setup. The unit can then record automatically with no further intervention required.

DDNS
Bosch offers its customers free Dynamic Domain Name Services (DDNS) for access to network-connected devices via a “friendly” hostname without the need for costly static IP addresses. This makes it easier for uninterrupted access to important video from devices regardless of their location.
Video - DIVAR network 5000 recorder

Alarms
All models have extensive alarm handling functions and telemetry control. Alarm functions include local inputs and relay outputs, plus motion detection in user-defined areas. If an alarm is detected, the DIVAR can:
- send an e-mail notification and/or FTP push
- sound a buzzer and/or display a warning
- activate local alarm output

Local control
The unit can be easily operated and programmed via the on-screen display menu system using:
- the supplied mouse
- the front panel control keys
- the supplied remote control
- push notification

Inputs and outputs
Video inputs, audio inputs/output, and alarm inputs/outputs are located on the rear panel. Two video connectors (VGA/HDMI) provide simultaneous output for monitor A for live display (with zoom) and playback (display can be frozen and zoomed). The displays allow full-screen, multi-screen, and sequenced viewing. A second HDMI connection provides custom camera views for a monitor B.

Network control
Use the PC software or built-in web application via a network for live viewing, playback, and configuration.

Watermark
The DIVAR includes an authenticity check for both local and remote archives, ensuring recording integrity. An Archive Player is provided for playback of secure video files and to check if video is authentic.

Smartphone App
A DIVAR Mobile Viewer app from Bosch for iOS and Android devices is available for:
- live and playback viewing
- recorder configuration
- PTZ control
This means you can watch live video from cameras connected to the DVR from anywhere in the world. You can also control focus, pan, tilt and zoom on PTZ-enabled cameras. Furthermore, the Android smartphone App supports remote push notifications (no available on iOS). In this way you are automatically notified if an alarm occurs on the device and can take immediate action, even if you are not actively monitoring the system at that moment.

Dome control
The DIVAR can control pan/tilt/zoom (PTZ) equipment using commands sent via IP connection. It also supports Focus, Iris and Aux commands for Bosch cameras.

Panoramic cameras
The DIVAR supports dewarping of Bosch panoramic cameras. The following modes are supported: pan/tilt/zoom (PTZ), panoramic, corridor and quad. Dewarping in the camera can also be selected if the connected IP panoramic camera supports this.

Intuikey keyboard
One Bosch Intuikey keyboard can be connected to this unit to control dome cameras.

RAID software
Units installed with 2 HDDs can support RAID 1 software for mirroring drives. Units installed with 4 HDDs can support RAID 5 software. Using RAID has a large impact on the system performance. To keep the playback smooth, Bosch recommends to limit the playback to 4 channels.

Certifications and approvals

<table>
<thead>
<tr>
<th>Standards</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm</td>
<td>EN 50130-5:2011, Alarm systems - Part 5: Environmental test methods, Class I, Fixed equipment</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>To ALL long input / output - and supply-wiring. Alarm inputs and relay output, Video inputs and Outputs, dome-control outputs, power-cable, Audio In/Out. ± 0.5, 1kV line to line, ± 0.5, 1 and 2kV line to earth</td>
</tr>
</tbody>
</table>

EMC + Safety - Europe

<table>
<thead>
<tr>
<th>Standards</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU Directives</td>
<td>2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS)</td>
</tr>
<tr>
<td>EMC Emission</td>
<td>EN 55032:2012/AC2013, class B</td>
</tr>
<tr>
<td>EMC mains Harmonics</td>
<td>EN 61000-3-2:2014</td>
</tr>
<tr>
<td>EMC Mains fluctuations</td>
<td>EN 61000-3-3:2013</td>
</tr>
<tr>
<td>RoHS</td>
<td>EN 50581:2012</td>
</tr>
</tbody>
</table>

EMC + Safety - USA and Canada

<table>
<thead>
<tr>
<th>Standards</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMC USA</td>
<td>47CFR part 15 (FCC), Class B</td>
</tr>
<tr>
<td>Safety USA (UL, cUL)</td>
<td>UL 62368-1, Edition 2, Dec 1, 2014</td>
</tr>
</tbody>
</table>
**EMC + Safety - USA and Canada**

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Canada</td>
<td>CAN/CSA-C22.2 No. 62368-1</td>
</tr>
<tr>
<td><strong>India</strong></td>
<td></td>
</tr>
<tr>
<td>BIS (Bureau of Indian Standards)</td>
<td>BIS registration for external Power adapter (comes / packed with the main product)</td>
</tr>
<tr>
<td><strong>Australia</strong></td>
<td></td>
</tr>
<tr>
<td>ACMA EMC</td>
<td>RCM logo on product label</td>
</tr>
</tbody>
</table>

**Installation/configuration notes**

*Fig. 1: DIVAR 5000 network back panel (no PoE)*

- **RJ45 video input** for max. 32 IP cameras connected via external switch (optional with DHCP configuration)
- **RJ45 Ethernet connection** (10/100/1000Base-T according to IEEE802.3)
- **VGA MON.A**
- 1 D-SUB (Monitor output)
- **HDMI MON.A1**
- 1 HDMI (Monitor output in maximum 4k resolution)
- **HDMI MON.A2**
- 1 HDMI (output for spot monitor that supports live multiscreen); resolution 1080p (1920x1080)
- **ALARM IN**
- 16 screw terminal inputs, cable diameter AWG26-16 (0.4-1.29 mm)
- **ALARM OUT**

*DIVAR 5000 network back panel (16 PoE)*

- 16 RJ45 ports (200 W; max. 25.5 W per port) for connecting max. 16 PoE cameras connected with DHCP configuration (max. 32 IP cameras)

**Region**

- **Australia**
- RCM
- DOC SAL Variants
- **Europe**
- CE
- AR18-20-B004
- **USA**
- UL
- FCC & UL
- **FCC**
- ST-VS 2016-E-088

**Power input with On/Off switch**

- 100–240 VAC, 50–60 Hz, 1.9 A, 75 W

**Ground connection**
### Technical specifications

#### Power

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC input (without PoE)</td>
<td>100-240 VAC, 50-60 Hz</td>
</tr>
<tr>
<td>AC input (with PoE)</td>
<td>100-240 VAC, 50-60 Hz</td>
</tr>
<tr>
<td>RTC battery on main PCB</td>
<td>Lithium CR2032, 3 VDC</td>
</tr>
<tr>
<td>Maximum main power consumption (no HDD)</td>
<td>8.7 W without PoE</td>
</tr>
<tr>
<td>Maximum power consumption of PoE+ switch</td>
<td>185 W</td>
</tr>
<tr>
<td>Maximum main power consumption (with HDD)</td>
<td>15.2 W with PoE</td>
</tr>
</tbody>
</table>

#### Mechanical

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Wx Dx H)</td>
<td>440 x 408 x 76 mm</td>
</tr>
<tr>
<td>Weight without PoE (excluding HDDs and DVD)</td>
<td>6.27 kg (13.8 lb)</td>
</tr>
<tr>
<td>Weight with PoE switch (excluding HDDs and DVD)</td>
<td>6.37 kg (14.0 lb)</td>
</tr>
</tbody>
</table>

#### Environmental

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature (incl. HDD(s) and DVD)</td>
<td>+0°C to +40°C (+32°F to +104°F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40°C to +70°C (-40°F to +158°F)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>&lt;93% non-condensing</td>
</tr>
<tr>
<td>Storage humidity</td>
<td>&lt;95% non-condensing</td>
</tr>
</tbody>
</table>

#### Video storage

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal (option)</td>
<td>Max. 4 SATA HDD or 2 SATA HDD + 1 DVD (R/W)</td>
</tr>
<tr>
<td>Max. capacity per HDD</td>
<td>6 TB</td>
</tr>
<tr>
<td>Max. supported speed per HDD</td>
<td>6 Gb/s</td>
</tr>
<tr>
<td>External (option)</td>
<td>eSATA-connected storage device</td>
</tr>
</tbody>
</table>

#### Alarms and detections

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motion detection set by camera</td>
<td>Essential or Intelligent Video Analytics (IVA), Motion +</td>
</tr>
<tr>
<td>Alarm activations</td>
<td>Video loss, motion detection, input alarm, system alarm</td>
</tr>
<tr>
<td>Events triggered by alarm</td>
<td>Recording, PTZ movement, alarm out, email, buzzer, screen message, Mon A and B activated, mobile push notification</td>
</tr>
<tr>
<td>Inputs</td>
<td>16 inputs configurable NO/NC, max. input voltage 12 VDC +/-10%</td>
</tr>
<tr>
<td>Outputs</td>
<td>5 relay outputs, 1 open collector</td>
</tr>
</tbody>
</table>
### Relay contact
Max. rated, 30 VDC, 2 A continuous or 125 VAC, 1 A (activated)

### Exporting
**DVD (optional)**
Built-in DVD+R/RW writer

**USB**
Flash memory or external HDD (FAT32)

**Network**
Web Client software or Video Client

**eSATA**
External drive

### Playback
**Multi-channel**
Simultaneous 1/4/9/16 channels

**Mode**
Forward, reverse, slow play, fast play, frame-by-frame

**Search**
Time, channel, type, smart

**Network**
Video Client, Web client, App

**Restrict**
Restrict video by user rights for viewing

**Protection**
Protect video against overwriting

**Retention time**
Automatically delete recordings after 1 to 365 days

### Recording
**Decoding compression**
H.265/H.264/MJPEG

**Speed**
Max. 60 IPS per channel, configurable

**Bit rate**
16 kbps to 24 Mbps per channel

**Record interval**
1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec

**Mode**
Manual, Scheduled (regular, motion detection, alarm), Stop

**Resolution IP camera**
12MP, 8MP, 6MP, 5MP, 3MP, 1.3MP, 1080p, 720p

### Network control
**User access**

**Protocols**
HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS/DDNS, IP Filter, PPPoE, FTP

### Video performance
**Maximum IP camera channels**
32

**Maximum incoming bandwidth**
320 Mbps

**Maximum recording bandwidth**
320 Mbps

**Maximum transmission bandwidth**
320 Mbps

### Display
**Resolution**
3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768

**OSD**
Camera title, Time, Video loss, Motion detection, Recording, PTZ

### Audio
**MIC Input**
1 channel (via RCA) 200 to 3000 mV, 10 kOhm

**Output**
1 channel (via RCA) 200 to 3000 mV, 5 kOhm

**Direction**
Bidirectional (audio input and output connected via device)

### Ordering information
**DRN-5532-400N00 Recorder 32ch, 1.5U, no HDD**
High-resolution recorder for network surveillance systems.
Recorder 32ch 1.5U w/o HDD
Order number DRN-5532-400N00 | F.01U.321.921

**DRN-5532-400N16 Recorder 32ch, 16PoE, 1.5U, no HDD**
High-resolution recorder for network surveillance systems.
32 IP camera channels
16-port PoE switch
Order number DRN-5532-400N16 | F.01U.321.922
DRN-5532-414N00 Recorder 32ch 1.5U 1x4TB
High-resolution recorder for network surveillance systems.
32 IP camera channels
1 HDD (4 TB)
Order number DRN-5532-414N00 | F.01U.329.383

DRN-5532-214D00 Recorder 32ch 1.5U 1x4TB DVD
High-resolution recorder for network surveillance systems.
32 IP camera channels
1 HDD (4 TB); 1 DVD
Order number DRN-5532-214D00 | F.01U.329.384

DRN-5532-414N16 Recorder 32ch 1.5U 1x4TB 16PoE
High-resolution recorder for network surveillance systems.
32 IP camera channels
16-port PoE switch
1 HDD (4 TB)
Order number DRN-5532-414N16 | F.01U.329.385

DRN-5532-214D16 Recorder 32ch 1.5U 1x4TB 16PoE DVD
High-resolution recorder for network surveillance systems.
32 IP camera channels
16-port PoE switch
1 HDD (4 TB); 1 DVD
Order number DRN-5532-214D16 | F.01U.329.386

Accessories
DVR-XS200-A HDD expansion 2TB
Storage expansion kit. 2 TB
Order number DVR-XS200-A | F.01U.302.620
F.01U.169.674

DVR-XS300-A HDD expansion 3TB
Storage expansion kit. 3 TB
Order number DVR-XS300-A | F.01U.302.621
F.01U.285.185

DVR-XS400-A HDD expansion 4TB
Storage expansion kit. 4 TB
Order number DVR-XS400-A | F.01U.302.657

DVR-XS600-A HDD expansion 6TB
Storage expansion kit. 6 TB
Order number DVR-XS600-A | F.01U.324.396

DVR-XS-DVD-B DVD writer expansion B
DVD writer Expansion kit B
Order number DVR-XS-DVD-B | F.01U.328.077

Services
EWE-DIP5BS-IW 12 mths wrty ext DIVAR 5000 w/out HDD
12 months warranty extension
Order number EWE-DIP5BS-IW | F.01U.346.378

Represented by:
Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 2577 284
eMEA.securitysystems@bosch.com
eMEA.boschsecurity.com

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Größnau
Germany
www.boschsecurity.com

North America:
Bosch Security Systems, LLC
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 288 0096
Fax: +1 585 223 9180
onlihelp@us.bosch.com
www.boschsecurity.us

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 579943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

Data subject to change without notice | 202106301032 | V19 | June 30, 2021
© Bosch Security Systems 2021