The DIVAR hybrid recorders can simultaneously record and view video from traditional analog cameras as well as the latest IP cameras. The recorder can be connected to the following camera configurations:

- a maximum 32 IP cameras recording at resolutions up to 12MP
- a maximum 16 analog cameras recording at resolutions up to 960H
- a combination of maximum 16 analog cameras and maximum 16 IP cameras

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.

**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.

**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.

**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.

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 IP pan/tilt/zoom (PTZ) equipment using commands sent via IP connection. It also supports Focus, Iris and Aux commands for Bosch cameras. RS-485 / RS-232 ports are available for serial communication to analog PTZ devices.

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.

Supported protocols
The DIVAR supports Bosch protocol and Pelco P and D protocol.

Regulatory information

<table>
<thead>
<tr>
<th>Standards</th>
<th>EN 50130-5:2011, Alarm systems - Part 5: Environmental test methods, Class I, Fixed equipment</th>
</tr>
</thead>
<tbody>
<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.</td>
</tr>
<tr>
<td>± 0.5, 1kV line to line,</td>
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<tr>
<td>± 0.5, 1 and 2kV line to earth</td>
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<table>
<thead>
<tr>
<th>Standards</th>
<th>2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/ EU (RoHS)</th>
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<tr>
<td>EMC + Safety - Europe</td>
<td>EN 55032:2012/AC2013, class B</td>
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<td>EMC Mains Harmonics</td>
<td>EN 61000-3-2:2014</td>
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<tr>
<td>EMC Mains fluctuations</td>
<td>EN 61000-3-3:2013</td>
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<td>RoHS</td>
<td>EN 50581:2012</td>
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<tr>
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<th>47CFR part 15 (FCC), Class B</th>
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<td>EMC + Safety - USA and Canada</td>
<td>UL 62368-1, Edition 2, Dec 1, 2014</td>
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</table>
**EMC + Safety - USA and Canada**

<table>
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<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
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<tbody>
<tr>
<td>Australia</td>
<td>RCM</td>
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<td>DOC SAL hybrid 5000</td>
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<td>Europe</td>
<td>CE</td>
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<td>AR18-20-B004</td>
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<td>UL</td>
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<tr>
<td>Australia</td>
<td>ACMA EMC</td>
</tr>
<tr>
<td></td>
<td>RCM logo on product label</td>
</tr>
</tbody>
</table>

**Installation/configuration notes**

**VIDEO IN**

16 BNC for connecting max. 16 analog cameras

Max. 16 IP cameras connected with external switch (if no analog cameras are connected, an extra 16 IP cameras can be connected)

RJ45 Ethernet connection (10/100/1000Base-T according to IEEE802.3)

**VGA MON.A**

1 D-SUB (Monitor output)

**HDMI MON.A**

1 HDMI (Monitor output)

**HDMI MON.B**

1 HDMI (output for spot monitor that supports live multiscreen); resolution 1080p (1920x1080)

**ALARM IN**

6 screw terminal inputs, cable diameter AWG26-16 (0.4-1.29 mm)

**ALARM OUT**

6 screw terminal outputs, cable diameter AWG26-16 (0.4-1.29 mm)

**AUDIO IN**

4 RCA (Audio inputs)

**AUDIO OUT**

1 RCA (Audio output)

**MIC IN**

1 RCA (Audio input)

**RS-485**

Screw terminal output (Dome control)

**KEYBOARD**

Screw terminal output (Keyboard)

**VIDEO OUT**

D-sub (loop through to other devices)

**RS-232**

DB9 male, 9-pin D-type (Dome control)

Two USB (3.0) connectors for mouse or USB memory device; one USB (2.0) also on front panel

**eSATA**

For backup/memory device

**Power input with On/Off switch**

100-240 VAC, 50-60 Hz, 1.9 A, 75 W

**Ground connection**

**Technical specifications**

**Mechanical**

Dimensions (WxDxH) 440 x 408 x 76 mm (17.3 x 16.1 x 3.0 in)

Weight (excluding HDD(s) and DVD) 6.67 kg (14.7 lb) approx.

**Power**

AC input 100-240 VAC; 50-60 Hz; 1.9 A

RTC battery on main PCB Lithium CR2032, 3 VDC

Maximum power consumption (no HDD) 20 W

**Environmental**

Operating temperature (incl. HDD(s) and DVD) +0°C to +40°C (+32°F to +104°F)
### Video - DIVAR hybrid 5000 recorder

#### Environmental
- **Storage temperature:** -40°C to +70°C (-40°F to +158°F)
- **Operating humidity:** <93% non-condensing
- **Storage humidity:** <95% non-condensing

#### Video storage
- **Internal (option):** Max. 4 SATA HDD or 2 SATA HDD + 1 DVD (R/RW)
  - Max. capacity per HDD: 6 TB
  - Max. supported speed per HDD: 6 Gb/s
- **External (option):** eSATA-connected storage device

#### Alarms and detections
- **Motion detection set by camera:** Essential or Intelligent Video Analytics (IVA), Motion +
- **Alarm activations:** Video loss, motion detection, input alarm, system alarm
- **Events triggered by alarm:** Recording, PTZ movement, alarm out, email, buzzer, screen message, Mon A and B activated, mobile push notification

#### Inputs
- 16 inputs configurable NO/NC, max. input voltage 12 VDC +/-10%

#### Outputs
- 5 relay outputs, 1 open collector

#### 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

#### Playback
- **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

#### Network control
- **Ethernet:** RJ45 port (10/100/1000 Mbps)
- **PC software:** Video Client, Web client
- **APPS:** iPhone, Android
- **User access:** Maximum 128 users. Bosch advises a maximum of 4 simultaneous connections. More connections can cause performance limitations.
- **Protocols:** HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS/DDNS, IP Filter, PPPoE, FTP

#### Video performance
- **Maximum camera inputs:** 16 analog + 16 IP or 32 IP
- **Maximum incoming bandwidth:** 320 Mbps
- **Maximum recording bandwidth:** 256 Mbps
- **Maximum transmission bandwidth:** 128 Mbps
- **Resolution IP camera:** 12MP, 8MP, 6MP, 5MP, 3MP, 1.3MP, 1080p, 720p
- **Resolution analogue camera:** 960H, D1, HD1, CIF, QCIF

#### Display
- **Resolution IP camera:** 3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768
Video - DIVAR hybrid 5000 recorder

### Display

<table>
<thead>
<tr>
<th>Resolution analogue PAL</th>
<th>970x576, 704x576, 352x576, 352x288, 176x144</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution analogue NTSC</td>
<td>960x480, 704x480, 352x480, 352x240, 176x120</td>
</tr>
<tr>
<td>OSD</td>
<td>Camera title, Time, Video loss, Motion detection, Recording, PTZ</td>
</tr>
</tbody>
</table>

### Audio

<table>
<thead>
<tr>
<th>Input</th>
<th>4 channel (via RCA) 200 to 3000 mV, 10 kOhm</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIC Input</td>
<td>1 channel (via RCA) 200 to 3000 mV, 10 kOhm</td>
</tr>
<tr>
<td>Output</td>
<td>1 channel (via RCA) 200 to 3000 mV, 5 kOhm</td>
</tr>
<tr>
<td>Direction</td>
<td>Bidirectional (audio input and output connected via device)</td>
</tr>
</tbody>
</table>

### Ordering information

**DRH-5532-400N00 Recorder 16ch IP, 16ch AN, 1.5U, no HDD**
High-resolution recorder for IP and analog surveillance systems.
Recorder 16ch IP/16ch AN 1.5U w/o HDD
Order number DRH-5532-400N00 | F.01U.321.920

**DRH-5532-414N00 Recorder 16ch IP/16ch AN 1.5U 1x4TB**
High-resolution recorder for IP and analog surveillance systems.
Combination of up to 16 IP and 16 analog camera channels.
1 HDD (4 TB)
Order number DRH-5532-414N00 | F.01U.329.369

**DRH-5532-214D00 Recorder 16ch IP/16ch AN 1.5U 1x4TB DVD**
High-resolution recorder for IP and analog surveillance systems.
Combination of up to 16 IP and 16 analog camera channels.
1 HDD (4 TB); 1 DVD
Order number DRH-5532-214D00 | F.01U.329.370

### 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

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**Europe, Middle East, Africa:**
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 2577 284
www.boschsecurity.com/xc/en/contact/

**Germany:**
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Gräfratzen
Tel.: +49 (0) 89 6290 0
Fax:+49 (0) 89 6290 1020
de.securitysystems@bosch.com
www.boschsecurity.com

**North America:**
Bosch Security Systems, LLC
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
onlinehelp@us.bosch.com
www.boschsecurity.com

**Asia-Pacific:**
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2669
www.boschsecurity.com/xc/en/contact/
www.boschsecurity.com