

# DIVAR hybrid 5000 recorder

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**BOSCH**  
Invented for life



- ▶ Hybrid recording of up to 16 IP and 16 analog channels
- ▶ Extended rack-mount unit with advanced connections
- ▶ 12 MP IP camera support for view and playback
- ▶ Separate internet and IP camera networks
- ▶ RAID 1 and 5 support

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 video compression technology and is H.265-ready for the newest H.265 technology cameras to be released by Bosch. 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.

### 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

### 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 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.

### Dome control

The DIVAR can control pan/tilt/zoom (PTZ) equipment using commands sent via IP connection (using ONVIF protocol for supported devices).

### 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.

## Certifications and approvals

### Standards

|                      |   |
|----------------------|---|
| Alarm                | EN 50130-5:2011, Alarm systems - Part 5: Environmental test methods, Class I, Fixed equipment   |
| Lightning protection | 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.<br>± 0.5, 1kV line to line,<br>± 0.5, 1 and 2kV line to earth |

### EMC + Safety - Europe

|                        |   |
|------------------------|---|
| EU Directives          | 2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS) |
| EMC Emission           | EN 55032:2012/AC2013, class B                         |
| EMC Immunity           | EN 50130-4:2011/A1:2014                               |
| EMC mains Harmonics    | EN 61000-3-2:2014                                     |
| EMC Mains fluctuations | EN 61000-3-3:2013                                     |
| LVD Safety             | CB scheme + IEC/EN/UL 62368-1:2014/AC:2015            |
| RoHS                   | EN 50581:2012   |

### EMC + Safety - USA and Canada

|                      |                                    |
|----------------------|------------------------------------|
| EMC USA              | 47CFR part 15 (FCC), Class B       |
| Safety USA (UL, cUL) | UL 62368-1, Edition 2, Dec 1, 2014 |
| Safety Canada        | CAN/CSA-C22.2 No. 62368-1          |

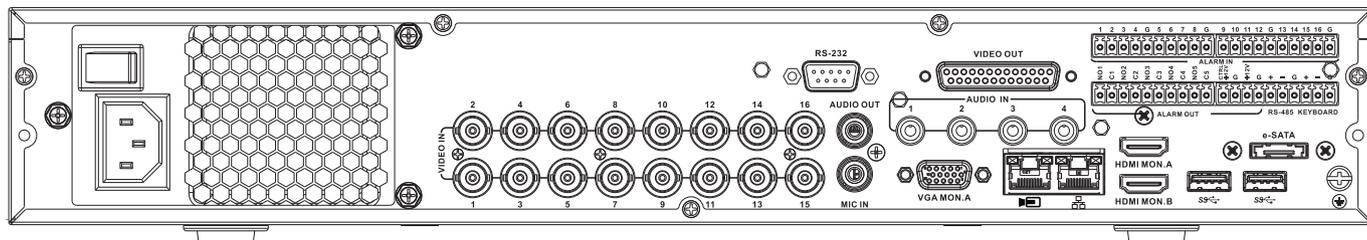
### India

|                                  |  |
|----------------------------------|--|
| BIS (Bureau of Indian Standards) | BIS registration for external Power adapter (comes / packed with the main product) |
|----------------------------------|--|

### Australia

|          |                           |
|----------|---------------------------|
| ACMA EMC | RCM logo on product label |
|----------|---------------------------|

## Installation/configuration notes



|   |   |
|---|---|
| <b>VIDEO IN</b>   | 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)   |
| <b>VGA MON.A</b>  | 1 D-SUB (Monitor output)  |
| <b>HDMI MON.A</b>   | 1 HDMI (Monitor output)   |
| <b>HDMI MON.B</b>   | 1 HDMI (output for spot monitor)  |
| <b>ALARM IN</b>   | 16 screw terminal inputs, cable diameter AWG26-16 (1.29–0.4 mm)   |
| <b>ALARM OUT</b>  | 4 screw terminal outputs, cable diameter AWG26-16 (1.29–0.4 mm)   |
| <b>AUDIO IN</b>   | 4 RCA (Audio inputs)  |
| <b>AUDIO OUT</b>  | 1 RCA (Audio output)  |
| <b>MIC IN</b>   | 1 RCA (Audio input)   |
| <b>RS-485</b>   | Screw terminal output (Dome control)  |
| <b>KEYBOARD</b>   | Screw terminal output (Keyboard)  |
| <b>VIDEO OUT</b>  | D-sub (loop through to other devices)   |
| <b>RS-232</b>   | 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                                      |
| <b>eSATA</b>  | 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, 75 W

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)

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  
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,

Inputs 16 inputs configurable NO/NC, max. input voltage 5 VDC

Outputs 6 relay outputs

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                     | Video Client or Web Client software   |
| 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. 30 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   |
| 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                     | 12MP, 8MP, 6MP, 5MP, 3MP, 1.3MP, 1080p, 720p                     |
| Display                        |  |
| Resolution                     | 3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768              |
| OSD                            | Camera title, Time, Video loss, Motion detection, Recording, PTZ |
| Audio                          |  |
| Input                          | 4 channel (via RCA) 200 to 3000 mV, 10 kOhm                      |
| 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

**DRH-5532-400N00 Recorder 16ch IP/16ch AN 1.5U w/o 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**

**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**

**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**

### Accessories

**DVR-XS100-A@1 24/7 SURVEILLANCE HDD EXPANSION 1TB**  
 Storage expansion kit. 1 TB  
 Order number **DVR-XS100-A@1**

**DVR-XS200-A@1 24/7 SURVEILLANCE HDD EXPANSION  
2TB**

Storage expansion kit. 2 TB  
Order number **DVR-XS200-A@1**

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**DVR-XS300-A@1 24/7 SURVEILLANCE HDD EXPANSION  
3TB**

Storage expansion kit. 3 TB  
Order number **DVR-XS300-A@1**

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**DVR-XS400-A 24/7 SURVEILLANCE HDD EXPANSION  
4TB**

Storage expansion kit. 4 TB  
Order number **DVR-XS400-A**

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