

DIVAR network 3000 recorder

www.boschsecurity.com



BOSCH
Invented for life



- ▶ 32 IP channels with 320 Mbps incoming bandwidth
- ▶ 12 MP IP camera support for view and playback
- ▶ Real time live display for 16 channels @1080p or 4 channels @4k
- ▶ Compact, sturdy and stylish design
- ▶ Separate internet and IP camera networks

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 2 internal HDDs for video storage. Another option is a single HDD 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.

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.

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.

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.

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.

Furthermore, the smartphone App supports remote push notifications. 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.

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. ± 0.5, 1kV line to line, ± 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

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|----------------------|------------------------------------|
| 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 |

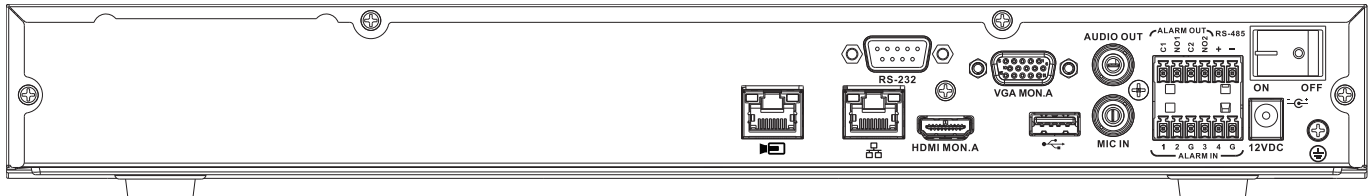
India

| | |
|----------------------------------|--|
| 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 | |
| Region | Regulatory compliance/quality marks | |
| Australia | RCM | DOC SAL Variants |
| | RCM | DOC SAL |

| Region | Regulatory compliance/quality marks | |
|--------|-------------------------------------|------------------|
| Europe | CE | ST-VS 2016-E-087 |
| USA | UL | FCC & UL |
| | FCC | FCC & UL |

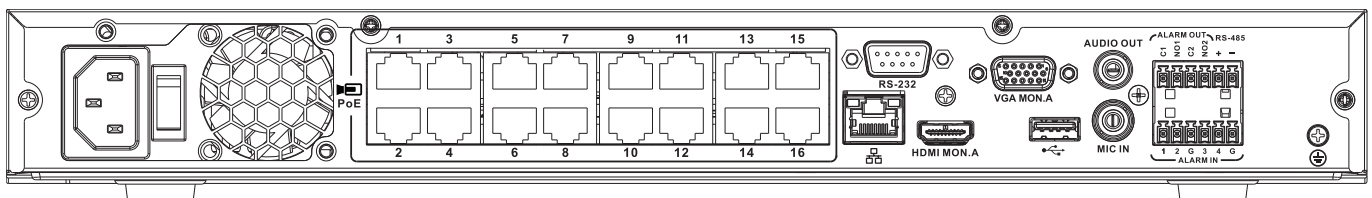
Installation/configuration notes



DIVAR 3000 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.A | 1 HDMI (Monitor output) |
| ALARM IN | 4 screw terminal inputs, cable diameter AWG26-16 (0.4–1.29 mm) |
| ALARM OUT | 2 screw terminal outputs, cable diameter AWG26-16 (0.4–1.29 mm) |
| AUDIO OUT | 1 RCA (Audio output) |

| | |
|--------------------------------|---|
| MIC IN | 1 RCA (Audio input) |
| RS-485 | Screw terminal output |
| RS-232 | DB9 male, 9-pin D-type (for service) |
| | One USB (3.0) connector for mouse or USB memory device; one USB (2.0) also on front panel |
| Power input with On/Off switch | 12 VDC (5 A) AC input adapter: 100~240 VAC, 50-60 Hz, 1.5 A |
| | Ground connection |



DIVAR 3000 network back panel (16 PoE)

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|-------------------|---|
| | Max. 16 PoE ports (115 W; 25.5 W max. per port) connected with DHCP configuration (max 32 IP cameras) |
| | 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) |
| ALARM IN | 4 screw terminal inputs, cable diameter AWG26-16 (0.4–1.29 mm) |
| ALARM OUT | 2 screw terminal outputs, cable diameter AWG26-16 (0.4–1.29 mm) |

| | |
|--------------------------------|---|
| AUDIO OUT | 1 RCA (Audio output) |
| MIC IN | 1 RCA (Audio input) |
| RS-485 | Screw terminal output |
| RS-232 | DB9 male, 9-pin D-type (for service) |
| | One USB (3.0) connector for mouse or USB memory device; one USB (2.0) also on front panel |
| Power input with On/Off switch | 100~240 VAC, 50-60 Hz, 3.5 A, 190 W |
| | Ground connection |

Technical specifications**Power**

| | |
|---|------------------------------|
| External power adapter AC input (without PoE) | 100-240 VAC; 50-60 Hz; 1.5 A |
|---|------------------------------|

| | |
|---------------------|------------------------------|
| AC input (with PoE) | 100-240 VAC; 50-60 Hz; 3.5 A |
|---------------------|------------------------------|

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|-------------------------|-----------------------|
| RTC battery on main PCB | Lithium CR2032, 3 VDC |
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|---------------------------------------|-------------|
| Power adapter DC output (without PoE) | 12 VDC; 5 A |
|---------------------------------------|-------------|

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|-------------------------------|--------|
| DVR Power input (without PoE) | 12 VDC |
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|---|--------------------------------------|
| Maximum main power consumption (no HDD) | 8.7 W without PoE 15.2 W with PoE |
|---|--------------------------------------|

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|--|-------|
| Maximum power consumption of PoE+ switch | 115 W |
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|---|--------|
| Maximum power consumption (per PoE+ port) | 25.5 W |
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Mechanical

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|--------------------|--|
| Dimensions (WxDxH) | 375 x 323 x 53 mm (14.8 x 12.7 x 2.1 in) |
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| Weight with PoE switch (excluding HDD(s) and DVD) | 4.2 kg (9.3 lb) approx. |
|---|-------------------------|

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|--|-------------------------|
| Weight without PoE switch (excluding HDD(s) and DVD) | 3.8 kg (8.4 lb) approx. |
|--|-------------------------|

Environmental

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|--|---------------------------------|
| Operating temperature (incl. HDD(s) and DVD) | +0°C to +40°C (+32°F to +104°F) |
|--|---------------------------------|

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|---------------------|----------------------------------|
| Storage temperature | -40°C to +70°C (-40°F to +158°F) |
|---------------------|----------------------------------|

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|--------------------|---------------------|
| Operating humidity | <93% non-condensing |
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|------------------|---------------------|
| Storage humidity | <95% non-condensing |
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Video storage

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| Internal storage options | Max. 2 SATA HDD or 1 SATA HDD + 1 DVD (R/RW) Max. capacity per HDD: 6 TB Max. supported speed per HDD: 6 Gb/s |
|--------------------------|---|

Alarms and detections

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| Motion detection set by camera | Essential or Intelligent Video Analytics (IVA), Motion + |
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|-------------------|---|
| Alarm activations | Video loss, motion detection, input alarm, system alarm |
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|---------------------------|--|
| Events triggered by alarm | Recording, PTZ movement, alarm out, email, buzzer, screen message, Mon A and B activated, mobile push notification |
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| Inputs | 4 inputs configurable NO/NC, max. input voltage 5 VDC |
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|---------|-----------------|
| Outputs | 2 relay outputs |
|---------|-----------------|

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|---------------|--|
| Relay contact | Max. rated, 30 VDC, 2 A continuous or 125 VAC, 1 A (activated) |
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Exporting

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|----------------|--------------------------|
| DVD (optional) | Built-in DVD+R/RW writer |
|----------------|--------------------------|

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|-----|--------------------------------------|
| USB | Flash memory or external HDD (FAT32) |
|-----|--------------------------------------|

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|---------|-------------------------------------|
| Network | Web Client software or Video Client |
|---------|-------------------------------------|

Playback

| | |
|---------------|--------------------------------|
| Multi-channel | Simultaneous 1/4/9/16 channels |
|---------------|--------------------------------|

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

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|--------|----------------------------|
| Search | Time, channel, type, smart |
|--------|----------------------------|

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|---------|-------------------------------|
| Network | Video Client, Web client, App |
|---------|-------------------------------|

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| Restrict | Restrict video by user rights for viewing |
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| Protection | Protect video against overwriting |
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| Retention time | Automatically delete recordings after 1 to 365 days |
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Recording

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|----------------------|-------------------|
| Decoding compression | H.265/H.264/MJPEG |
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|-------|---------------------------------------|
| Speed | Max. 60 IPS per channel, configurable |
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|----------|--------------------------------|
| Bit rate | 16 kbps to 24 Mbps per channel |
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|-----------------|--|
| Record interval | 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec |
|-----------------|--|

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|------|--|
| Mode | Manual, Scheduled (regular, motion detection, alarm), Stop |
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|----------------------|--|
| Resolution IP camera | 12MP, 8MP, 6MP, 5MP, 3MP, 1.3MP, 1080p, 720p |
|----------------------|--|

| 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 IP camera channels | 32 |
| Maximum incoming bandwidth | 320 Mbps |
| Maximum transmission bandwidth | 320 Mbps |
| Maximum recording 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

DDN-3532-200N00 Recorder 32ch, no HDD
High-resolution recorder for network surveillance systems.

Represented by:

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Recorder 32ch w/o HDD
Order number **DDN-3532-200N00**

DDN-3532-200N16 Recorder 32ch, 16PoE, no HDD
High-resolution recorder for network surveillance systems.
Recorder 32ch w/o HDD 16PoE
Order number **DDN-3532-200N16**

DDN-3532-212N00 Recorder 32ch 1x2TB
High-resolution recorder for network surveillance systems.
Recorder 32ch 1x2TB
Order number **DDN-3532-212N00**

DDN-3532-112D00 Recorder 32ch 1x2TB DVD
High-resolution recorder for network surveillance systems.
Recorder 32ch 1x2TB DVD
Order number **DDN-3532-112D00**

DDN-3532-212N16 Recorder 32ch 1x2TB 16PoE
High-resolution recorder for network surveillance systems.
Recorder 32ch 1x2TB 16PoE
Order number **DDN-3532-212N16**

DDN-3532-112D16 Recorder 32ch 1x2TB 16PoE DVD
High-resolution recorder for network surveillance systems.
Recorder 32ch 1x2TB 16PoE DVD
Order number **DDN-3532-112D16**

Accessories

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

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

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

DVR-XS600-A HDD expansion 6TB
Storage expansion kit. 6 TB
Order number **DVR-XS600-A**

DVR-XS-DVD-B DVD writer expansion B
DVD writer Expansion kit B
Order number **DVR-XS-DVD-B**