DIVAR hybrid 3000 recorder

www.boschsecurity.com

BOSCH
Invented for life

- Hybrid recording of up to 16 IP and 16 analog channels
- Compact, sturdy and stylish design
- 12 MP IP camera support for view and playback
- Separate internet and IP camera networks

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 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 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.

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.

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.

Dome control
The DIVAR can control IP pan/tilt/zoom (PTZ) equipment using commands sent via IP connection (using ONVIF protocol for supported devices).
RS-485 / RS-232 ports are available for serial communication to analog PTZ devices.

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

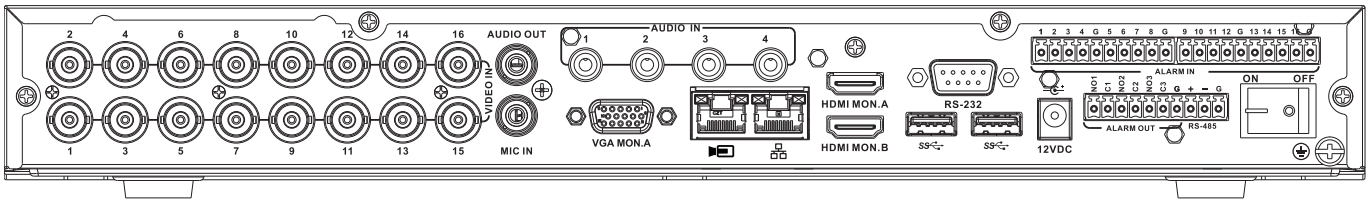
EMC + Safety - Europe	
EU Directives	2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS)
EMC Emission	EN 55032:2012/AC2013, class B
EMC Immunity	EN 50130-4:2011/A1:2014
EMC mains Harmonics	EN 61000-3-2:2014
EMC Mains fluctuations	EN 61000-3-3:2013
LVD Safety	CB scheme + IEC/EN/UL 62368-1:2014/AC:2015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

EMC + Safety - USA and Canada	
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



VIDEO IN	16 BNC for connecting max. 16 analog cameras
	Max. 16 IP cameras connected via 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)
ALARM IN	16 screw terminal inputs, cable diameter AWG26-16 (1.29–0.4 mm)
ALARM OUT	4 screw terminal outputs, cable diameter AWG26-16 (1.29–0.4 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)
RS-232	DB9 male, 9-pin D-type (Dome control)
	One front (2.0) and two rear (3.0) USB connectors for mouse or USB memory device
Power input with On/Off switch	12 VDC (5 A) AC input adapter: 100~240 VAC, 50-60 Hz, 1.5 A
	Ground connection

Technical specifications

Mechanical	
Dimensions (WxDxH)	375 x 323 x 53 mm (14.8 x 12.7 x 2.1 in)
Weight (excluding HDD(s) and DVD)	4.13 kg (9.1 lb) approx.

Power	
External power adapter AC input	100–240 VAC; 50-60 Hz; 1.5 A
Power adapter DC output	12 VDC; 5 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)
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 storage options	Max. 2 SATA HDD Max. capacity per HDD: 6 TB Max. supported speed per HDD: 6 Gb/s

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

DDH-3532-200N00 DIVAR hybrid 3000 16AN/16IP
High-resolution recorder for IP and analog surveillance systems.
Recorder 16-ch IP/16-ch AN w/o HDD
Order number **DDH-3532-200N00**

DDH-3532-212N00 Recorder 16-ch IP/16-ch AN 1x2TB
High-resolution recorder for IP and analog surveillance systems.
Combination of up to 16 IP and 16 analog camera channels.
1 HDD (2 TB)
Order number **DDH-3532-212N00**

DDH-3532-112D00 Recorder 16-ch IP/16-ch AN 1x2TB DVD
High-resolution recorder for IP and analog surveillance systems.
Combination of up to 16 IP and 16 analog camera channels.
1 HDD (2 TB); 1 DVD
Order number **DDH-3532-112D00**

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**

DVR-XS300-A@1 24/7 SURVEILLANCE HDD EXPANSION 3TB
Storage expansion kit. 3 TB
Order number **DVR-XS300-A@1**

DVR-XS400-A 24/7 SURVEILLANCE HDD EXPANSION 4TB
Storage expansion kit. 4 TB
Order number **DVR-XS400-A**

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