

# DRN-5532-414N00 Recorder 32ch 1.5U 1x4TB

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**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
- ▶ Extended rack-mount unit with advanced connections
- ▶ Separate internet and IP camera networks

## 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

### EMC + Safety - Europe

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

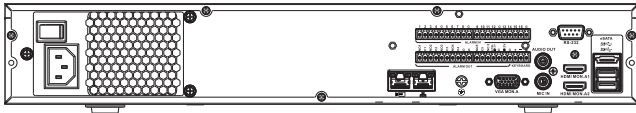
BIS (Bureau of Indian Standards)	BIS registration for external Power adapter (comes / packed with the main product)
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### Australia





ACMA EMC	RCM logo on product label
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Region	Regulatory compliance/quality marks	
Australia	RCM	DOC SAL Variants
	RCM	DOC SAL
Europe	CE	ST-VS 2016-E-087
USA	UL	FCC & UL
	FCC	ST-VS 2016-E-088

### Installation/configuration notes



DIVAR 5000 network back panel (32 IP)

	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)
<b>VGA MON.A</b>	1 D-SUB (Monitor output)
<b>HDMI MON.A1</b>	1 HDMI (Monitor output in maximum 4k resolution)
<b>HDMI MON.A2</b>	1 HDMI (output for spot monitor that supports live multiscreen)
<b>ALARM IN</b>	16 screw terminal inputs, cable diameter AWG26-16 (0.4–1.29 mm)
<b>ALARM OUT</b>	6 screw terminal outputs, cable diameter AWG26-16 (0.4–1.29 mm)
<b>KEYBOARD</b>	Screw terminals, cable diameter AWG26-16 (0.4–1.29 mm)
<b>AUDIO OUT</b>	1 RCA (Audio output)
<b>MIC IN</b>	1 RCA (Audio input)
<b>RS-232</b>	DB9 male, 9-pin D-type (for service)
	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

### Parts included

Quantity	Component
1	Recorder
1	CD-ROM containing software licenses and user documentation
2	Power supply cables (120VAC US type; 230VAC Euro type)
	Terminal connector blocks
1	Hard disk mounting kit (including SATA cables, brackets and screws)
1	Optical USB mouse
1	19" mounting set (including brackets and screws)
1	IR remote Control with 2 AA (1.5 V) batteries
1	Ground screw
1	Keyboard cable
1	Loophrough cable
	Installation guides for Recorder, HDD, plus safety instructions

### Technical specifications

Power	
AC input (without PoE)	100-240 VAC; 50-60 Hz; 1.9 A
AC input (with PoE)	100-240 VAC; 50-60 Hz; 5 A
RTC battery on main PCB	Lithium CR2032, 3 VDC
Maximum main power consumption (no HDD)	8.7 W without PoE 15.2 W with PoE
Maximum power consumption of PoE+ switch	185 W
Maximum power consumption (per PoE+ port)	25.5 W
Mechanical	
Dimensions (WxDxH)	440 x 408 x 76 mm (17.3 x 16.1 x 3.0 in)
Weight without PoE (excluding HDDs and DVD)	6.27 kg (13.8 lb) approx.

Weight with PoE switch (excluding HDDs and DVD)	6.37 kg (14.0 lb) approx.
<b>Environmental</b>	
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
<b>Video storage</b>	
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
<b>Alarms and detections</b>	
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)
<b>Exporting</b>	
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
<b>Playback</b>	
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

<b>Playback</b>	
Protection	Protect video against overwriting
Retention time	Automatically delete recordings after 1 to 365 days
<b>Recording</b>	
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
<b>Network control</b>	
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
<b>Video performance</b>	
Maximum IP camera channels	32
Maximum incoming bandwidth	320 Mbps
Maximum recording bandwidth	320 Mbps
Maximum transmission bandwidth	320 Mbps
<b>Display</b>	
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-5532-414N00 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**

**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**

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