

DIVAR IP 5000

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DIVAR IP 5000 is an affordable, easy to use all-in-one recording solution for network surveillance systems of up to 32 channels (all channels pre-licensed). Running the full Bosch recording solution including the Video Streaming Gateway to integrate third-party cameras, DIVAR IP 5000 is an intelligent IP storage device that provides both, a professional video recording solution and ease of operation. DIVAR IP 5000 is a 4-bay mini tower unit that combines easy to use storage and state-of-the-art recording management into a single cost-effective, plug and play IP recording appliance for IT-minded customers.

System overview

DIVAR IP 5000 utilizes a highly energy efficient, embedded design at a very affordable price which nevertheless boasts Bosch quality through-and-through.

Easy to install and operate, the DIVAR IP 5000 system features wizard-based set-up and centralized configuration to reduce installation times by as much as 45%. All components are pre-installed and pre-



- ▶ Remote viewing via Video Security App and Video Security Client from Bosch
- ▶ Fully featured video recording solution for up to 32 channels
- ▶ Out-of-the-box IP video recording solution with up to 16 TB (4 x 4 TB) storage capacity
- ▶ Robust, secure operation – instant real time access to video
- ▶ Instantly find what you are looking for

configured. Simply connect to the network and power the unit up – DIVAR IP 5000 is ready to begin recording straight out-of-the-box.

Functions

DIVAR IP 5000 features front-swappable SATA-II hard drives providing up to 16 TB of gross storage capacity. All system software is pre-installed and pre-activated – creating an out-of-the-box ready-to-use video recording appliance.

Easy configuration

DIVAR IP 5000 is designed for remote operation and web based configuration – no need to plug in any peripherals. A standard PC or tablet computer can be used to set up the system in a few guided steps via the web based configuration wizard.

Remote viewing

You can't be everywhere all the time. Therefore, DIVAR IP 5000 has Dynamic Transcoding technology. It offers instant access to smooth live video streams or high resolution images up to 12 megapixel from a mobile device, regardless of available bandwidth. Video Security App and Video Security Client offer advanced playback and live viewing capabilities for all video devices connected to the DIVAR IP 5000 system.

Easy remote access

Our Remote Portal makes it easy to remotely connect to your DIVAR IP 5000 without configuring your network for inbound communications. The unit reaches out to our cloud-service without the need to change router settings, firewall rules, or setup DNS or VPNs for an inbound connection.

Instant real time access to video

View high quality UHD video despite low or limited bandwidth connections. Dynamic Transcoding technology enables viewing from remote sites over bandwidth-limited connections and wireless connections to mobile clients – anytime, anywhere. Dynamic Transcoding retrieves the data from DIVAR IP 5000 and subsequently decodes and decompresses the data stream to a lower rate bit stream tailored to the bandwidth of the connection. When the video is paused, the instant detail enhancement feature instantly displays the full resolution video. DIVAR IP 5000 provides up to four independent transcoded streams, enabling live viewing access to four cameras or playback of their recordings simultaneously, regardless of the network bandwidth.

Reliable storage and operation

Critical health states can be received as an email notification and monitored via the web based dashboard. Disk failures can easily be handled with a few guided configuration steps. The web based configuration wizard provides an option for redundant storage of the recorded video data.

Easy upgrade

Even the maintenance is hassle-free because DIVAR IP 5000 and the Bosch IP cameras can be updated remotely whenever a new firmware becomes available. This ensures up-to-date products, thus protecting investment with little effort.

Malware resistance

DIVAR IP systems has been designed to be resistant to viruses and other malware. To prevent security holes, the installed Bosch software limits transactions to operation and maintenance and the operating system is tailored to the needs. No other than Microsoft and Bosch software is running on the device. Its firewall performs at the highest security level and allows communication only for a minimum of needed services.

Forensic Search

DIVAR IP 5000 provides Forensic Search in the recordings of its assigned IVA-enabled cameras. Simple line and field definitions, drawn over the video image, allow quick and efficient search through the metadata of camera recordings.

Forensic Search is possible via the Bosch applications Video Security App as well as Video Security Client.

Bosch quality

Bosch subjects all its products to the most comprehensive and rigorous battery of quality endurance tests in the industry. Our recording products are subjected to extreme temperatures, voltages and vibrations to determine reliable operating limits, so you can be assured of long-term reliable operation. And Bosch firmly stands behind every product it sells with an end-to-end 3 year warranty backed by technical support.

Certifications and approvals

Region	Certification
Europe	CE: EN55024:2010 EN55032:2012/AC:2013 EN60950-1:2006/ A11:2009+A1:2010+A12:2011+AC: 2011+A2:2013 EN610003-2:2014 EN610003-3:2013
Australia / New Zealand	AS/NZS CISPR 22: 2009/A1:2010
USA	UL 60950-1 Ed 2 (Am 2) Oct 14, 2014EN 50581:2012 FCC Part 15, class B

Approvals

Region	Regulatory compliance/quality marks	
Europe	CE	DIVAR IP 5000
USA	UL	DIVAR IP 5000

Installation/configuration notes

Non-RAID configuration

DIVAR IP 5000 comes pre-configured in a standard non-RAID configuration and provides the following specifications:

Gross capacity	Net capacity	Bandwidth (read/write)	Cameras
w/o HDD	n/a	n/a	32
1 x 2 TB	1862 GB	130/20 Mbps	32
2 x 2 TB	3724 GB	220/30 Mbps	32
4 x 2 TB	7448 GB	310/40 Mbps	32
1 x 4 TB	3724 GB	130/20 Mbps	32
2 x 4 TB	7448 GB	220/30 Mbps	32
4 x 4 TB	14896 GB	310/40 Mbps	32

These values refer to recording applications using IP cameras or encoders from Bosch; net capacity for a non-RAID configuration; 32 connected cameras indicate the number of concurrent recordable cameras.

RAID-1 configuration

The hard drives can optionally be configured in RAID-1 mode to provide redundant storage of the video data. In this case the following specifications are valid:

Gross capacity	Net capacity	Bandwidth (read/write)	Cameras
2 x 2 TB	1862 GB	90/15 Mbps	32
4 x 2 TB	3724 GB	200/30 Mbps	32
2 x 4 TB	3724 GB	90/15 Mbps	32
4 x 4 TB	7448 GB	200/30 Mbps	32

**Notice**

Bandwidth (read & write) may be decreased during rebuild of a degraded array.

**Notice**

Bosch is not liable for system failures of units equipped with third-party hard drives if the third-party hard drives are source of the issues.

System status

DIVAR IP 5000 family comes fully loaded and fully licensed with Microsoft Operating System (Windows Storage Server 2012 R2) and Bosch applications pre-installed: Bosch Video Recording Manager including Video Streaming Gateway; Dynamic Transcoding.

Technical specifications**Electrical**

Power supply	100 to 240 VAC, 47 to 63 Hz
Energy efficiency	Energy Star compliant power supply
Power consumption (w/o hard drives)	37 W max 32 W idle

Input/Output

Alarm	2 x input
Relay	2 x output
Tamper protection	Acceleration sensor

Control

Software update	SSD-drive, remote programmable
Configuration	Web browser
Operation	Video Security App, Video Security Client

Mechanical

Form factor	4-bay mini tower
Power supply	1 x internal power supply

Mechanical

USB ports	4 x USB 3.0 port
Network	2 x Gigabit Ethernet LAN
Dimensions (H x W x D)	180 x 200 x 212 mm (7.09 x 7.87 x 8.35 in)
Weight	w/o HDD: 4.25 kg (9.37 lb) fully loaded: 6.75 kg (14.88 lb)

Environmental

Operating temperature	+10 °C to +35 °C (+50 °F to +95 °F)
Non-operating temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating relative humidity	8 to 90% (non-condensing)
Non-operating relative humidity	5 to 95% (non-condensing)
Noise emission	45 dBA max

Processor

Processor	Intel N3150
Storage controller	Marvell 88SE9215

Memory

Memory type	DDR3L SO-DIMM
Max front side bus	1333 MHz
Memory installed	4 GB, DDR3L-1333 SO-DIMM (1 x 4 GB)

Storage

Storage type	4 trays: 3.5-inch SATA
Hard drives installed	4 x HDD max

Other

Graphics	Graphics memory controller integrated in the Intel Atom N3150 processor (used for Dynamic Transcoding)
Network	2 x 1 GbE RJ45 port

Ordering information**DIVAR IP 5000, 1 x 2 TB HDD**

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 1 x 2 TB storage capacity.

Order number **DIP-5042EZ-1HD**

DIVAR IP 5000, 1 x 2 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 1 x 2 TB storage capacity - no TPM.

Order number **DIP-5042EZ-1HDX**

DIVAR IP 5000, 2 x 2 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 2 x 2 TB storage capacity.

Order number **DIP-5042EZ-2HD**

DIVAR IP 5000, 2 x 2 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 2 x 2 TB storage capacity - no TPM.

Order number **DIP-5042EZ-2HDX**

DIVAR IP 5000, 4 x 2 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 4 x 2 TB storage capacity.

Order number **DIP-5042EZ-4HD**

DIVAR IP 5000, 4 x 2 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 4 x 2 TB storage capacity - no TPM.

Order number **DIP-5042EZ-4HDX**

DIVAR IP 5000, 1 x 4 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 1 x 4 TB storage capacity.

Order number **DIP-5044EZ-1HD**

DIVAR IP 5000, 1 x 4 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 1 x 4 TB storage capacity - no TPM.

Order number **DIP-5044EZ-1HDX**

DIVAR IP 5000, 2 x 4 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 2 x 4 TB storage capacity.

Order number **DIP-5044EZ-2HD**

DIVAR IP 5000, 2 x 4 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 2 x 4 TB storage capacity - no TPM.

Order number **DIP-5044EZ-2HDX**

DIVAR IP 5000, 4 x 4 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 4 x 4 TB storage capacity.

Order number **DIP-5044EZ-4HD**

DIVAR IP 5000, 4 x 4 TB HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and with 4 x 4 TB storage capacity - no TPM.

Order number **DIP-5044EZ-4HDX**

DIVAR IP 5000, w/o HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and without HDD.

Order number **DIP-5042EZ-0HD**

DIVAR IP 5000, w/o HDD

All-in-one recording solution for network surveillance systems.

For up to 32 channels and without HDD - no TPM.

Order number **DIP-5042EZ-0HDX**

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

Storage expansion kit. 2 TB

Order number **DVR-XS200-A**

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

Storage expansion kit. 4 TB

Order number **DVR-XS400-A**

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