

# DIVAR IP 2000

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DIVAR IP 2000 is an affordable, easy to use all-in-one recording solution for network surveillance systems of up to 16 channels (all channels pre-licensed). Running the full Bosch recording solution including the Video Streaming Gateway to integrate 3<sup>rd</sup> party cameras, DIVAR IP 2000 is an intelligent IP storage device that provides both, a professional video recording solution and ease of operation. DIVAR IP 2000 is a 4-bay mini tower unit that combines advanced management and state-of-the-art recording management into a single cost-effective, plug and play IP recording appliance for IT-minded customers which are seeking for a state-of-the-art “second generation” NVR recording solution.

## System overview

DIVAR IP 2000 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 2000 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-



- ▶ Fully featured video recording solution for up to 16 channels
- ▶ Out-of-the-box IP video recording solution with up to 8 TB (4 x 2 TB) storage capacity
- ▶ Robust, secure operation – instant real time access to video
- ▶ Instantly find what you are looking for
- ▶ Remote viewing via Video Security App and Video Client by Bosch

configured. Simply connect to the network and power the unit up – DIVAR IP 2000 is ready to begin recording straight out-of-the-box.

## Functions

DIVAR IP 2000 features front-swappable SATA-II hard drives providing up to 8 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. The DIVAR IP 2000 system utilizes Microsoft Windows Storage Server 2008 R2 (64-bit).

### Remote viewing and configuration

DIVAR IP 2000 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. Video Security App and Video Client offer advanced playback and live viewing capabilities for all video devices connected to the DIVAR IP 2000 system.

### Instant real time access to video

View high quality HD video despite low or limited bandwidth connections. Dynamic Transcoding technology ensures you can view your video immediately – anytime, anywhere.

Dynamic Transcoding retrieves the data from DIVAR IP 2000 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 HD video.

### Reliable storage and operation

For constant monitoring and management the operating system is always running redundantly. This way the user can be sure to be alerted in case an error such as a hard drive failure appears. 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.

### 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 true 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	DIVAR IP 2000/3000
USA	UL	DIVAR IP 2000/3000

### Installation/configuration notes

DIVAR IP 2000 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	100 Mbit/s	16
2 x 2 TB	3524 GB	100 Mbit/s	16
4 x 2 TB	7248 GB	100 Mbit/s	16

These values refer to the Bosch recording applications; net capacity for a non-RAID configuration; 16 connected cameras indicate the number of concurrent recordable cameras including the connected replay clients.

DIVAR IP 2000 allows a maximum of overall 16 channels: recording and replay clients.

The hard drives can optionally be configured in RAID1 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	1762 GB	70 Mbit/s	16
4 x 2 TB	3624 GB	70 Mbit/s	16

The storage capacity of a DIVAR IP 2000 system can be increased by mounting additional hard drives. The following configurations are possible: 2 x 2 TB, 4 x 2 TB, 2 x 3 TB and 4 x 3 TB



### Notice

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

### Parts included

Processor	
Processor	Intel Atom D525 processor + Intel ICH 9R storage controller
Socket	1
Chipset	Intel 82801IR I/O controller hub (ICH 9R) (Southbridge)
Memory	
Memory type	DDR3 SO-DIMM
Max front side bus	1333 MHz
Memory installed	4 GB, DDR3-1333 SO-DIMM (2 x 2 GB)
Storage	
Storage type	4 trays: 3.5-inch SATA
Hard drives installed	4 x HDD (2 TB 5400RPM GP) max
Other	
Graphics	Graphics memory controller integrated in the Intel Atom D525 processor (not used)
Network	1 x 1 GbE RJ45 port
System status	

DIVAR IP 2000 family comes fully loaded and fully functional with Microsoft Operating System and Bosch application pre-installed: Windows Storage Server 2008 R2, 64-bit; Bosch Video Recording Manager including Video Streaming Gateway; Dynamic Transcoding.

### Technical specifications

Electrical	
Power supply	220 W (100/240 VAC)
Energy efficiency	Energy Star compliant power supply
Power consumption (w/o hard drives)	37 W max 32 W idle
Mechanical	
Form factor	4-bay mini tower
Power supply	1 x internal power supply
USB ports	3 x USB 2.0, 2 x USB 3.0 port
Network	1 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)

### Ordering information

#### **DIVAR IP 2000, 2 x 2 TB HDD**

All-in-one recording solution for network surveillance systems of up to 16 channels, 2 x 2 TB storage capacity

Order number **DIP-2042EZ-2HD**

#### **DIVAR IP 2000, 4 x 2 TB HDD**

All-in-one recording solution for network surveillance systems of up to 16 channels, 4 x 2 TB storage capacity

Order number **DIP-2042EZ-4HD**

#### **DIVAR IP 2000, w/o HDD**

All-in-one recording solution for network surveillance systems of up to 16 channels, w/o HDD

Order number **DIP-2040EZ-00N**

### Accessories

#### **DIVAR IP 2000/3000 Storage Expansion 2 TB**

2 TB HDD

Order number **DIP-2302-HDD**

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