

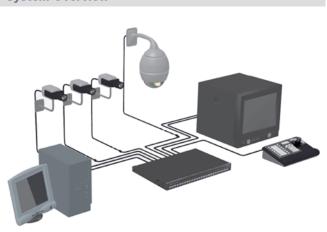
Divar Easy - Digital Video Recorder



- ▶ 6, 9 and 16-channel versions
- Models with or without internal DVD writer
- Automatic division of recording rates
- Simultaneous recording, playback and archiving
- Authenticated images for evidence
- Central Control Center software for controlling multiple Divar units
- Integrated AutoDome control

The Bosch Divar Easy versatile digital recorder series are extremely compact, low profile units that combine advanced digital recording and multiplexing, saving space and providing integrated functionality. The Divar Easy is simple to install and use, and is maintenance-free. It can simultaneously record and play back video images.

System Overview



Example of a typical Divar Easy system setup

In the preceding example, an Intuikey keyboard is attached to the unit for easy control of the system, which includes an AutoDome and three fixed cameras. The PC with Control Center software provides easy viewing of live and recorded video from anywhere in the network. The DVD writer in the PC is used for making archives.

Functions

Easy Installation

A "Quick install" wizard ensures Easy installation for standard applications. On-screen menus in multiple languages and context-sensitive help, which is always available by pressing the yellow key, ensures installation is easy and user friendly. For special applications, a configuration tool is supplied to simplify advanced configuration of a system via a PC. Languages supported are English, Czech, Danish, Dutch, Finnish, French, German, Hungarian, Italian, Norwegian, Polish, Portuguese, Spanish and Swedish.

Automatic division of recording rates

The record rate IPS (Images Per Second) is automatically adjusted and evenly divided between all connected cameras. Recording rates of 50 IPS (PAL) or 60 IPS (NTSC) are guaranteed, without the need for synchronization. By simply setting the maximum record rate, the IPS is dynamically re-calculated when connecting or disconnecting cameras.

Motion detector

When movement in a user-defined area of the image is detected, the Divar Easy motion detector is triggered. Alarms can be triggered by equipment connected to the control inputs.

Authenticated images for evidence

Where secure video is required for evidence purposes, Divar Easy can produce a ready-to-use CD or DVD with embedded viewing software that starts automatically when the disc is inserted into a standard PC. No special software needs to be installed on the viewing computer. The viewing software uses video authentication that automatically detects any alteration of the recorded video.

Remote operation with central Control Center

The user-friendly Control Center software provides full control. It allows remote viewing of live and recorded video from multiple Divars at the same time. This makes it ideal for multiple location systems such as franchised shops or fast food outlets. Live, as well as archived video, can also be viewed via a web browser without special tools or software.

Expansion

The Divar Easy can be expanded with an optional Intuikey keyboard for easier and better control of the unit, including enhanced playback control and AutoDome control.

Controls and Indicators

- 4 playback control keys
- 5 function keys
- 6, 9 or 16 camera keys
- 12 alternate keys
- 5 indicators (Record, Network, Alarm, Video loss, Power)

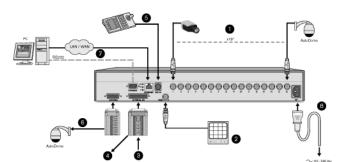
Interconnections

See 'Installation and Configuration Notes' and 'Technical Specifications'.

Certifications and Approvals

Safety	UL 6500 2nd ed.; CSA-E60065; EN 60950 (CE)
Immunity	EN 50130-4 (CE)
Emission	EN 50022 class B (CE); FCC, class B part 15; EN 61000-3-2 (CE); EN 61000-3-3 (CE)
European directive	EMC directive 89/336/EEC

Installation/Configuration Notes



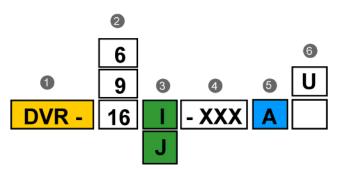
Interconnections (rear view)

1	Cameras	5	Keyboard
2	Monitor	6	Control
3	Inputs	7	Ethernet

4 Outputs

Power

8



Commercial type number (on type plate)

- 1 Type
- 2 Video inputs
- 3 I: Divar Easy without internal DVD writer J: Divar Easy with internal DVD writer
- 4 XXX is disk capacity in GB x 10
- 5 Revision
- 6 Country code (e.g. U for UK)

Parts Included

Quantity	Component
1	Divar Easy 6, 9 or 16 Digital Video Recorder
1	25-pin D-type connector board with screw terminals (used for switching and alarm connections)
1	15-pin D-type connector board with screw terminals (used for PTZ connections)
1	Power supply cord

- 1 Network cross-over cable
- 1 Serial RS232 cross-over (null-modem) cable
- 1 Rack mounting kit
- 1 CD-ROM with the software and the manuals

Technical Specifications

Electrical

Power supply	
Voltage range	100 to 240 VAC, 50/60Hz
Power consumption (H x V) I versions J versions	0.3 to 0.7 A 0.3 to 0.8 A
Video	
Video standards	PAL / NTSC auto-detect
Live resolution (H x V) PAL NTSC	720 x 576 720 x 484
Record resolution (H x V) PAL NTSC	720 x 288 720 x 242
Record rate (IPS) PAL NTSC	Configurable for all cameras 25/12.5/8/6/5/4/3/2/1/ 0.5/0.2/0.1/0 (50 total) 30/15/10/7.5/6/5/4/3/2/1/ 0.5/0.2/0.1/0 (60 total)
Recording mode	Continuous
Display modes	Full, full sequence, quad, quad sequence, mul- ti-screen, alarm call-up (live and playback)
Digital zoom	2 x or 4 x
Compression	Wavelet
Video input type	Composite, 0.5 to 2 Vpp
Video input impedance	75 ohm, auto terminating
Video output type	Composite, 1 Vpp
Video output impedance	75 ohm
Storage	
Number of disks	1 to 2
Supported disk sizes	80 / 160 / 320 / 640 GB
File sizes per image high quality medium quality standard quality Input/output	40 kb 24 kb 16 kb
Video inputs	BNC connector (6 x, 9 x or 16 x)
Video output	BNC connector (1 x Mon A)
Ethernet	RJ45S modular jack 8-pin shielded 10/100 Base-T acc. to IEEE802.3
Control inputs	Screw terminal (6 x, 9 x or 16 x)
Control outputs	Screw terminal (4 x)
Control output (BiPhase)	Screw terminal
Serial in/out	RS-232, DB-9 male, output signals according to EIA/TIA-232-F, max input voltage $\pm 25V$
Keyboard input	RJ11 modular jack 6-pin

Mechanical

Dimensions (H x W x D) I version J version	45 x 442 x 315 mm (1.8 x 17.4 x 12.4 in) 66 x 442 x 315 mm (2.6 x 17.4 x 12.4 in)
Weight I version J version	Approx. 5.8 kg (12.8 lbs) Approx. 7.5 kg (16.5 lbs)
Mounting	Tabletop, 19" rack
Color	Charcoal (Panton color 426C)

Environmental

Operating temperature I version J version	0 °C to +40 °C (+32 °F to +104 °F) +5 °C to +40 °C (+41 °F to +104 °F)
Storage temperature	-25 °C to +70 °C (-13 °F to +158 °F)

to +158 °F) Operating humidity <93% relative humidity Storage humidity <95% relative humidity

Minimum PC System Requirements

Control Center	(CC) and Configuratio	n Tool (CT)
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Operating system	Windows 98, Millennium, NT 4.0, 2000 or XP
Processor	450 MHz Pentium II for CC, 200 MHz Pentium with MMX for CT
RAM memory	128 MB for CC, 32 MB for CT
Free disk space	50 MB for CC, 15 MB for CT
Video system	8 MB video memory, 800 x 600 with 16-bit color
Connection	10/100-BaseT network interface or free RS-232 port (CT only)

Ordering Information

0	
DVR-6I-008A 6CH, 80GB without DVD writer, 6-channel, 80 GB	DVR-6I-008A
DVR-6I-032A 6-CH, 320GB without DVD writer, 6-channel, 320 GB	DVR-6I-032A
DVR-9I-008A 9-CH, 80GB without DVD writer, 9-channel, 80 GB	DVR-9I-008A
DVR-9I-032A 9-CH, 320GB without DVD writer, 9-channel, 320 GB	DVR-9I-032A
DVR-16I-016A 16-CH, 160GB without DVD writer, 16-channel, 160 GB	DVR-16I-016A
DVR-16I-032A 16-CH, 320GB without DVD writer, 16-channel, 320 GB	DVR-16I-032A
DVR-16I-064A 16-CH, 640GB without DVD writer, 16-channel, 640 GB	DVR-16I-064A
DVR-6J-032A 6-CH, 320GB with DVD writer, 6-channel, 320 GB	DVR-6J-032A

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Asia-Pacific: Bosch Security Systems Pte Ltd 38C Jalan Pemimpin Singapore 577180 Phone: +65 6319 3450 Fax: +65 6319 3499 apr.securitysystems@bosch.com www.boschsecurity.com

Represented by

Ordering Information

DVR-9J-016A 9-CH, 160GB with DVD writer, 9-channel, 160 GB	DVR-9J-016A
DVR-9J-032A 9-CH, 320GB with DVD writer, 9-channel, 320 GB	DVR-9J-032A
DVR-16J-032A 16-CH, 320GB with DVD writer, 16-channel, 320 GB	DVR-16J-032A
DVR-16J-064A 16-CH, 640GB with DVD writer, 16-channel, 640 GB	DVR-16J-064A

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