

Divar - Digital Video Recorder



- ▶ 6, 9, and 16-channel versions
- ► Bilinx communication optional
- ► Simultaneous recording, playback & archiving
- AutoDome control
- Smart motion search
- Authenticated images for evidence
- Multiple Divar 'control center' for remote operation
- Internal or external DVD writer

The Bosch Divar digital versatile recorder series are extremely compact, low profile units that combine advanced digital recording and multiplexing, not only saving space, but ensuring integrated functionality. The Divar has been designed with both operator and installer in mind, by making the unit easy to use and install, and maintenance free. The Divar allows simultaneous recording and playback of video images. "Overwrite protection" of marked video clips prevents the loss of vital material.

The images per second (IPS) record rate and image quality are selectable for each connected camera. This makes it possible to prioritize recording between high-risk areas and low risk areas. By having a higher refresh rate only for critical or high-risk security areas, considerable hard disk space can be saved. Recording rates of 50 IPS (PAL) or 60 IPS (NTSC) are guaranteed, without the need for synchronization.

As well as control of external alarm inputs, the Divar's motion detector triggers an alarm when movement in a user-definable area of the image is detected.

Smart motion search can be used for easy retrieval of motion that has taken place within a user-specified part of the image during a specified time-span.

The Divar is expandable with an optional keyboard, allowing AutoDome control as well as enhanced playback control.

Where video is required for evidence of an incident, it is simple to archive the video with a dedicated PC player for playback of the secure video files to a DVD or CD with the internal or external DVD writer. The Divar uses video authentication that can automatically detect any alteration of the recorded video.

For easy installation, a "Quick install" feature is included. Additionally, on-screen menus are provided in several languages and context sensitive help is always available by just pushing the yellow button. A configuration tool is supplied to simplify setting up a system using a PC. Because Divar is available with Bilinx, functions usually requiring hands-on access to a camera now use the video cable to communicate with Bilinx cameras.

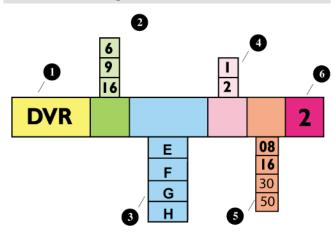
Owing to its high degree of integrated functionality, the Divar can be the central element in a self-contained security system with up to 256 cameras. Because the Divar is fully compatible with any standard 10/100 Base-T network, it is ideal for distributed security surveillance systems.

An optional ATM/POS bridge enables financial transaction details to be recorded together with video. This makes the Divar suitable for use at cash dispensers, check out desks and other similar applications where it is sometimes necessary to verify or identify what happened during a particular transaction.

Full control is also possible when using the user-friendly Control Center software that 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 chains of shops or fast food outlets. Using Internet Explorer, the Divar can also be accessed to view live action or playback archived event without special software software or tools.

Where additional storage is required, optional storage arrays can be connected to expand the storage capacity. It is even possible to calculate the required capacity by visiting www.boschsecuritysystems.com and use the Divar storage calculator.

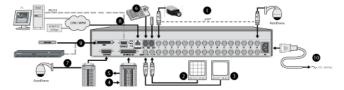
Installation/Configuration Notes



- 1 Type
- 2 Video inputs
- 3 E: Divar
 - F: Divar with internal DVD writer
 - G: Divar with Bilinx
 - H: Divar with Bilinx and internal DVD writer
- $4\,\&\,5$ $\,$ Disk capacity is the multiple of these two figures times 10 in GB
- 6 Revision

Note

the "G" option (Divar with Bilinx) is only available in the EMEA and the APR regions (this option is not offered in the US).

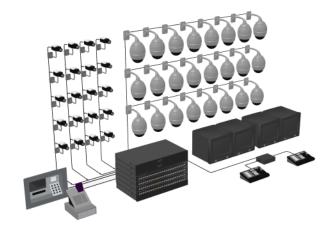


01	Cameras	06	Keyboard
02	Monitor	07	Control
03	Spot monitor	80	Ethernet
04	Inputs	09	SCSI
05	Outputs	10	Power



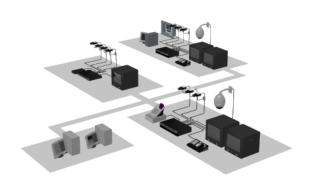
COMPLETE STAND-ALONE SYSTEM

Extending the functionality of a single Divar for active observation. This Divar system uses a universal keyboard for controlling fixed and AutoDome or PTZ cameras. It has a main monitor plus spot monitor, alarm I/O (for external alarms and sensors), a storage array and a PC with Control Center software. A DVD writer is used for making archives. An ATM/POS bridge can be used to connect to an ATM or point-of-sale machine.



MEDIUM LOCALIZED SYSTEM

Using the Bosch Video Manager to build up CCTV recording system. Up to 16 Divar units with storage arrays for longer archive are managed by Video Manager. There can be two monitor locations, each with its own keyboard and alarm monitor. The alarm I/O is linked to external alarms. An ATM/ POS bridge can be used to connect to an ATM or point-of-sale machine.



MULTI-LOCATION WITH CENTRALIZED CONTROL

Using a wide-area network to link Divar systems in various locations. Each location has a local Divar system (from basic to complete). All locations are linked via a local- or wide-area network (LAN or WAN) to a PC with Control Center software for remote observation and system management. An ATM/POS bridge can be used to connect to an ATM or point-of-sale machine.

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Electrical

Rated	Voltage	and Power
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E and G versions	100-240 VAC; 0.7-0.3 A; 50/60 Hz
F and H versions	100-240 VAC; 0.8-0.3 A; 50/60 Hz
Video	
video	
Video standard	PAL / NTSC auto-detect
Resolution	720 x 576 PAL, 720 x 484 NTSC
AGC	Automatic adjustment or manual adjustment for each video input
Digital Zoom	2 or 4 times
Compression	Wavelet
Inputs	Composite video 0.5–2 Vpp, 75 ohm auto terminating
Outputs:	1 Vpp, 75 Ohm
BiPhase	Impedance 128 Ohm, max. overvoltage protection ± 40 V, max. cable length 1.5 km
Alarm Handling	
Inputs	16 Inputs configurable NO/NC, max. input 40 VDC
Outputs	4 Relay outputs, configurable NO/NC, max. rated 30 VAC-40 VDC, 0.5 A continuous -10 VA

Control	
RS232	Output signals according EIA/TIA-232-F, max. input voltage ±25 V
Keyboard input	Conforms to RS485, max. signal voltage ± 12 V, power supply to keyboard $11-12.6$ V at max. 400 mA
Keyboard output	Conforms to RS485, max. signal voltage ±12 V
Connectors	
Video inputs	6, 9, or 16 looping BNC, auto-terminating
Ethernet	RJ45S modular jack 8 pins shielded:
	10/100 Base-T according IEEE802.3
Monitors	BNC (2), MON-A multi-screen, MON-B
	spot/alarm
Alarm Accessories	Screw terminal input
BiPhase	Screw terminal output
RS232	DB9 male
Keyboard input	RJ11 modular jack 6 pins
Keyboard output	RJ11 modular jack 6 pins
SCSI	HD 50 pins max. 7 (E and G versions) / 6 (F and H versions) connected ultra SCSI devices, 20 Mbytes/sec, terminated internally
Storage	
Internal	80, 160, 320, 600, 1000 GB
External	Via DVSA, Digital Video Storage Array
File sizes	
High quality	40 KB
Medium quality	24 KB
Standard quality	16 KB
Record Rate (IPS):	
NTSC	60 total, configurable per camera: 30, 15, 10, 7.5, 6, 5, 4, 3, 2, 1, ½, 1/5, 1/10, 0
PAL	
1712	50 total, configurable per camera: 25, 12.5, 8, 6, 5, 4, 3, 2, 1, $\frac{1}{2}$, $\frac{1}{10}$, 0
Recording resolution:	
	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0
Recording resolution:	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC Full, full sequence, quad, quad sequence, multi-
Recording resolution: Display Modes	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC
Recording resolution: Display Modes Mon A	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC Full, full sequence, quad, quad sequence, multiscreen, alarm call-up (live and playback)
Recording resolution: Display Modes Mon A Mon B	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC Full, full sequence, quad, quad sequence, multiscreen, alarm call-up (live and playback) Full, full sequence and alarm call-up Linear, Continuous, Continuous with condition-
Recording resolution: Display Modes Mon A Mon B Recording Modes	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC Full, full sequence, quad, quad sequence, multiscreen, alarm call-up (live and playback) Full, full sequence and alarm call-up Linear, Continuous, Continuous with condition-
Recording resolution: Display Modes Mon A Mon B Recording Modes Mechanical	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC Full, full sequence, quad, quad sequence, multiscreen, alarm call-up (live and playback) Full, full sequence and alarm call-up Linear, Continuous, Continuous with condition-
Recording resolution: Display Modes Mon A Mon B Recording Modes Mechanical Dimensions	5, 4, 3, 2, 1, ½, 1/5, 1/10, 0 720 x 288 PAL, 720 x 242 NTSC Full, full sequence, quad, quad sequence, multiscreen, alarm call-up (live and playback) Full, full sequence and alarm call-up Linear, Continuous, Continuous with conditional overwrite

Environmental Temperature Operating Temperature E and G versions +0°C to +40°C (+32°F to +104°F) F and H versions +5°C to +40°C (+41°F to +104°F) Storage Temperature -25°C to +70°C (-13°F to +158°F) Relative humidity Operating <93% Non-condensing Storage <95% Non-condensing Electromagnetic compatibility EMC requirements USA FCC Part 15, Class B EU EMC directive 89/336/EEC Immunity EN50130-4 Emission EN55022 Class B EN61000-3-2 Voltage fluctuations EN61000-3-3 Safety USA UL6500 2nd edition EU EN60950: 2000 Can. CAN/CSA-E60065-00 Minimum PC System Requirements Control Center (CC) and Configuration Tool (CT) 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)	E and G versions	Approx. 5.8 kg (12.8 lbs)
Temperature Operating Temperature E and G versions	F and H versions	Approx. 7.5 kg (16.5 lbs)
Temperature Operating Temperature E and G versions	ack Mount Kit	For mounting one unit in an EIA 19-inch rack.
Operating Temperature E and G versions	nvironmental	
E and G versions +0°C to +40°C (+32°F to +104°F) F and H versions +5°C to +40°C (+41°F to +104°F) Storage Temperature -25°C to +70°C (-13°F to +158°F) Relative humidity Operating <93% Non-condensing Storage <95% Non-condensing Electromagnetic compatibility EMC requirements USA FCC Part 15, Class B EU EMC directive 89/336/EEC Immunity EN50130-4 Emission EN55022 Class B Mains Harmonics EN61000-3-2 Voltage fluctuations EN61000-3-3 Safety USA UL6500 2nd edition EU EN60950: 2000 Can. CAN/CSA-E60065-00 Minimum PC System Requirements Control Center (CC) and Configuration Tool (CT) 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)	emperature	
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free RS-232 port (CT only)		
Ordering Information		•
	ordering Informat	ion
DVR6E1082 Divar Digital Video Recorder 6 channel, with network I/F, 80 GB	DVR6E1082 Divar Dig	rital Video Recorder DVR6E1082

DVR6E1162 Divar Digital Video Recorder

6 channel, with network I/F, 160 GB **DVR6E2162 Divar Digital Video Recorder**

6 channel, with network I/F, 320 GB **DVR6E2302 Divar Digital Video Recorder**

6 channel, with network I/F, 600 GB

DVR6E1162

DVR6E2162

DVR6E2302

Ordering Information	
DVR9E1082 Divar Digital Video Recorder 9 channel with network I/F, 80 GB	DVR9E1082
DVR9E1162 Divar Digital Video Recorder 9 channel with network I/F, 160 GB	DVR9E1162
DVR9E2162 Divar Digital Video Recorder 9 channel with network I/F, 320 GB	DVR9E2162
DVR9E2302 Divar Digital Video Recorder 9 channel with network I/F, 600 GB	DVR9E2302
DVR16E1082 Divar Digital Video Recorder 16 channel, with network I/F, 80 GB	DVR16E1082
DVR16E1162 Divar Digital Video Recorder 16 channel, with network I/F, 160 GB	DVR16E1162
DVR16E2162 Divar Digital Video Recorder 16 channel, with network I/F, 320 GB	DVR16E2162
DVR16E2302 Divar Digital Video Recorder 16 channel, with network I/F, 600 GB	DVR16E2302
DVR16E2502 Divar Digital Video Recorder 16 channel, with network I/F, 1 TB	DVR16E2502
DVR6F1082 Divar Digital Video Recorder 6 channel, with network I/F, 80GB with internal DVD	DVR6F1082
DVR6F1162 Divar Digital Video Recorder 6 channel, with network I/F, 160GB with internal DVD	DVR6F1162
DVR6F2162 Divar Digital Video Recorder 6 channel, with network I/F, 320GB with internal DVD	DVR6F2162
DVR6F2302 Divar Digital Video Recorder 6 channel, with network I/F, 600GB with internal DVD	DVR6F2302
DVR9F1082 Divar Digital Video Recorder 9 channel with network I/F, 80GB with internal DVD	DVR9F1082
DVR9F1162 Divar Digital Video Recorder 9 channel, with network I/F, 160GB with internal DVD	DVR9F1162
DVR9F2162 Divar Digital Video Recorder 9 channel, with network I/F, 320GB with internal DVD	DVR9F2162
DVR9F2302 Divar Digital Video Recorder 9 channel with network I/F, 600GB with internal DVD	DVR9F2302
DVR16F1082 Divar Digital Video Recorders 16 channel, with network I/F, 80GB with internal DVD	DVR16F1082
DVR16F1162 Divar Digital Video Recorders 16 channel with network I/F, 160GB with internal DVD	DVR16F1162
DVR16F2162 Divar Digital Video Recorder 16 channel, with network I/F, 320GB with internal DVD	DVR16F2162

WP16E2302 Divar Digital Vidas Baserdar	DVD16E2202
VR16F2302 Divar Digital Video Recorder 6 channel, with network I/F, 600GB with in- ernal DVD	DVR16F2302
VR16F2502 Divar Digital Video Recorder 6 channel, with network I/F, 1TB with internal VD	DVR16F2502
NR6G1082 Divar with Bilinx Digital Video Recorder channel, with network I/F, 80GB	DVR6G1082
OVR6G1162 Divar with Bilinx Digital Video Recorder is channel, with network I/F, 160GB	DVR6G1162
OVR6G2162 Divar with Bilinx Digital Video Recorder is channel, with network I/F, 320GB	DVR6G2162
OVR6G2302 Divar with Bilinx Digital Video Recorder 6 channel, with network I/F, 600GB	DVR6G2302
OVR9G1082 Divar with Bilinx Digital Video Recorder O channel, with network I/F, 80GB	DVR9G1082
OVR9G1162 Divar with Bilinx Digital Video Recorder O channel, with network I/F, 160GB	DVR9G1162
OVR9G2162 Divar with Bilinx Digital Video Recorder O channel, with network I/F, 320GB	DVR9G2162
OVR9G2302 Divar with Bilinx Digital Video Recorder O channel, with network I/F, 600GB	DVR9G2302
DVR16G1082 Divar with Bilinx Digital /ideo Recorder L6 channel, with network I/F, 80GB	DVR16G1082
DVR16G1162 Divar with Bilinx Digital /ideo Recorder L6 channel, with network I/F, 160GB	DVR16G1162
DVR16G2162 Divar with Bilinx Digital /ideo Recorder L6 channel, with network I/F, 320GB	DVR16G2162
OVR16G2302 Divar with Bilinx Digital /ideo Recorder L6 channel, with network I/F, 600GB	DVR16G2302
DVR6H1082 Divar with Bilinx Digital Video Recorder S channel, with network I/F, 80 GB, with inter- nal DVD	DVR6H1082
OVR6H1162 Divar with Bilinx Digital Video Recorder 6 channel, with network I/F, 160GB, with in- ernal DVD	DVR6H1162
OVR6H2162 Divar with Bilinx Digital Video Recorder S channel, with network I/F, 320 GB, with in-	DVR6H2162

Ordering Information	
DVR6H2302 Divar with Bilinx Digital Video Recorder 6 channel, with network I/F, 600GB, with in- ternal DVD	DVR6H2302
DVR9H1082 Divar with Bilinx Digital Video Recorder 9 channel, with network I/F, 80GB, with inter- nal DVD	DVR9H1082
DVR9H1162 Divar with Bilinx Digital Video Recorder 9 channel, with network I/F, 160GB, with in- ternal DVD	DVR9H1162
DVR9H2162 Divar with Bilinx Digital Video Recorder 9 channel, with network I/F, 320GB, with internal DVD	DVR9H2162
DVR9H2302 Divar with Bilinx Digital Video Recorder 9 channel, with network I/F, 600GB, with in- ternal DVD	DVR9H2302
DVR16H1082 Divar with Bilinx Digital Video Recorder 16 channel, with network I/F, 80 GB, with in- ternal DVD	DVR16H1082
DVR16H1162 Divar with Bilinx Digital Video Recorder 16 channel, with network I/F, 160 GB, with internal DVD	DVR16H1162
DVR16H2162 Divar with Bilinx Digital Video Recorder 16 channel, with network I/F, 320 GB, with internal DVD	DVR16H2162
DVR16H2302 Divar with Bilinx Digital Video Recorder 16 channel, with network I/F, 600 GB, with internal DVD	DVR16H2302
DVR16H2502 Divar with Bilinx Digital Video Recorder 16 channel, with network I/F, 1 TB, with inter- nal DVD	DVR16H2502
Accessories	
KBD-Digital Keyboard IntuiKey Digital Keyboard for use with Divar Digital Video Recorders and System4 Multi- plexers	KBD-Digital
KBD-Universal Keyboard IntuiKey Universal Keyboard for use with LCD Displays for Allegiant, Divar and System4 Mul- tiplexers	KBD-Universal
DVRXEDVD1 Divar External CD/DVD Writer 100 - 240 VAC, 0.3 - 0.15 A, 50 / 60 Hz	DVRXEDVD1
DVRXEAP01 ATM/POS Bridge (Accessories) ATM/POS bridge Divar	DVRXEAP01

Ordering Information				
LTC 2605/91 System4 Video Manager for use with Divar and System 4 Multiplexers, 105–253 VAC, 50/60 Hz	LTC 2605/91			
LTC 8557/50 Keyboard Extension Kit Hook-up kit for remote keyboard, up to 1.5 km (5000 ft), includes power supply for 230 VAC, 50 Hz	LTC 8557/50			
LTC 8557/60 Keyboard Extension Kit Hook-up-kit for remote keyboard, up to 1.5 km (5000 ft), includes power supply for 120 VAC, 60 Hz	LTC 8557/60			
LTC 2604/50 Keyboard Port Expander Unit System4, 230 V, 50 Hz	LTC 2604/50			
LTC 2604/60 Keyboard Port Expander Unit System4, 120 V, 60 Hz	LTC 2604/60			
DVA-08K-04050RA SCSI Diskarray 8-bay 4 HDD, 2 TB	DVA-08K-04050RA			
DVA-08K-08050RA SCSI Diskarray 8-bay 8 HDD, 4 TB	DVA-08K-08050RA			
DVA-16K-16050RA SCSI Diskarray 16-bay 16 HDD, 8 TB	DVA-16K-16050RA			
Software Options				
DVRSEUG12 Divar-1 Upgrade License	DVRSEUG12			
DVRSEAP01 ATM/POS License DIVAR	DVRSEAP01			