



DVR4C Series Digital Video Recorder



- ▶ 4-Channel video and audio
- ▶ Real-time recording
- ▶ Small file sizes for extended recording
- ▶ Simultaneous recording and playback
- ▶ Easy local archiving via USB
- ▶ Remote viewing, playback and control

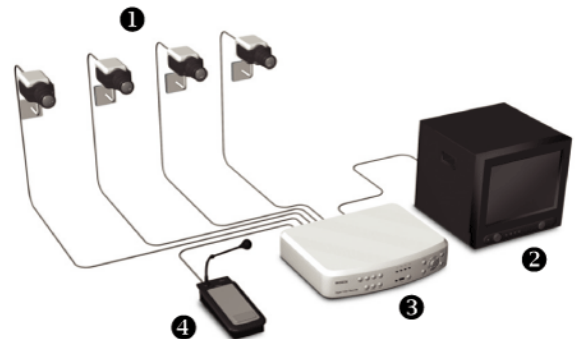
Never miss a beat in your retail store, gas station, bank, parking lot or warehouse. The DVR4C digital video recorder from Bosch lets you watch every corner, hallway, door or aisle. This high performance, economical system provides continuous video and audio recording from four cameras plus alarm handling, motion detection and local archiving. This means you are never totally alone because the DVR4C works alongside you as your round-the-clock surveillance partner. DVR4C puts the emphasis on uninterrupted real-time recording from each of the four cameras, even while you are playing back earlier recordings. Thanks to advanced encoding techniques with very small file sizes, DVR4C captures weeks and weeks of activity, giving you reliable, continuous surveillance with no downtime. Despite all this power, it's easy to search for specific dates, times, alarms or motion with the built-in intelligent search capability.

Video and audio are archived quickly and conveniently using the built-in USB port to a USB memory stick. And if a recording might be required as legal evidence, it is essential that the recording includes embedded proof of authentication. DVR4C recordings cannot be altered in any way without detection, so the integrity of recordings is guaranteed.

Remote access is available using standard analog or digital telephone lines, over a standard LAN/WAN or Internet connection.

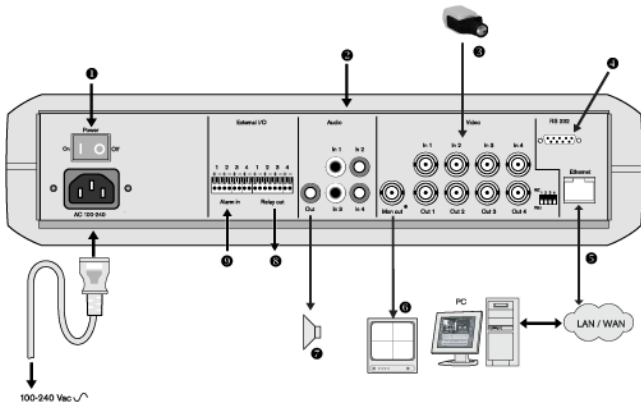
Yet the DVR4C is quick to install and easy to operate, making it ideal for a host of small business applications such as retail stores, banks, gas stations and parking lots.

Installation/Configuration Notes



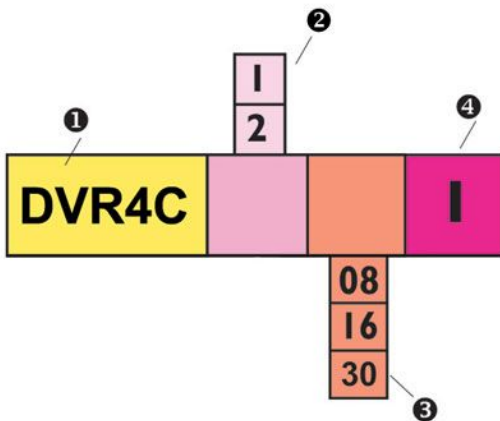
DVR4C with four cameras, microphone and monitor.

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|-----------|------------------------------------|
| 1 Cameras | 3 DVR4C Digital Video Recorder |
| 2 Monitor | 4 Microphone (with line amplifier) |



Connections on backside of DVR4C

- 01 Power switch
- 02 Audio inputs
- 03 Camera inputs
- 04 RS232 connector
- 05 Network connector
- 06 Monitor output
- 07 Audio output
- 08 Relay outputs
- 09 Alarm inputs



DVR4C Typenumber

- 01 Type
- 02 Number of disks
- 03 Size per disk in GB
- 04 Revision

Parts Included

Quantity	Component
1	DVR4C
1	DVR4C remote software

Technical Specifications

Electrical

Rated Voltage and Power

100 – 240 VAC; 0.7 - 0.3 A; 50 / 60 Hz

Video

Video Standard	PAL / NTSC auto-detect
Live Resolution	720 x 576 PAL – 720 x 484 NTSC
Digital Zoom	2 times
Compression	MPEG4-based
Inputs	Composite video 0.5V – 2Vpp, 75 ohm
Output	1Vpp, 75 ohm

Audio

Inputs	Mono RCA, 1.0Vpp
Output	Mono RCA, 1.0Vpp

Alarm Handling

Inputs	4 Inputs configurable NO/NC, max input voltage 40VDC.
Outputs	4 Relay outputs, configurable NO/NC, max. rated 30VAC-40VDC-0,5A

Control

RS232	Output signals according EIA/TIA-232-F, max. input voltage ±25V
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Connectors

Video Inputs	4 Looping BNC, manual termination
Monitor	1 BNC
Audio Inputs	4 Cinch
Audio Output	1 Cinch
Ethernet	RJ45S modular jack 8 pins shielded: 10/100 Base-T according IEEE802.3
RS232	DB9 Male
USB	Type A Connector
Alarm I/O	Screw terminal

Storage

Size	80 – 160 – 320 – 600 GB
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Bitrates (per camera at 25/30 IPS)

Low	250 kbps
Standard	500 kbps
Medium	750 kbps
High	1 Mbps
Superior	1.5 Mbps

Video recording

Record Rate (IPS)	
NTSC	120 total, configurable: 30, 15, 7.5, 4, 2, 1, 0
PAL	100 total, configurable: 25, 12.5, 6, 3, 1.5, 0.75, 0
Recording Resolution	352 x 288 PAL – 352 x 240 NTSC

Display Modes

Monitor	Full, full sequence, quad, alarm call-up
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Recording Modes	Linear, Continuous
Audio recording	
Compression	ADPCM
Quality	32 kbps, 8 kHz sampling
Audio/Video Synchronisation	Best effort, typically <0,5s offset
USB	
USB Version	1.1
Supported Media	USB Memory Stick

Mechanical

Dimensions	369 x 270 x 83 mm (14.5 x 10.6 x 3.3 inch)	
Weight Approx.	with 1HDD	4.5 kg (9.9 lbs)
	with 2HDDs	5 kg (11 lbs)

Environmental

Temperature

- Operating	+5°C to +40°C (+41°F to +104°F)
- Storage	-25°C to +70°C (-13°F to +158°F)

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
	Harmonics: EN61000-3-2
	Voltage fluctuations: EN61000-3-3

Safety

- USA	UL60950 3rd edition
- EU	CE, EN60950 2000 3rd edition
- Can.	CAN/CSA-E60065-00

PC requirements - remote software

Operating System	Windows 2000 Professional, XP
Processor	PIII 600MHz (PIV 2GHz Recommended)
RAM Memory	128MB (256MB Recommended)
Free Disk Space	10MB
Video System	16MB Memory, 1024x768 Resolution (64MB Memory Recommended)
Connection	10/100 Base-T network interface

Ordering Information

Model | Description

DVR4C1081 Digital Video Recorder
4 channel, 80 GB

DVR4C1161 Digital Video Recorder
4 channel, 160 GB

DVR4C2161 Digital Video Recorder
4 channel, 320 GB

DVR4C2301 Digital Video Recorder
4 channel, 600 GB

DVR4C1081U Digital Video Recorder
4 channel, 80 GB (UK version)

DVR4C1161U Digital Video Recorder
4 channel, 160 GB (UK version)

DVR4C2161U Digital Video Recorder
4 channel, 320 GB (UK version)

DVR4C2301U Digital Video Recorder
4 channel, 600 GB (UK version)

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