DVR 670 Series

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Advantage Line

The Bosch Video Recorder 670 Series is an 8/16 channel digital recorder that uses the latest H.264 compression technology. With the supplied PC software and built-in web server, the 670 Series is a fully integrated, stand-alone video management solution that's ready to go, straight out of the box. Available with a variety of storage capacities, the 670 Series features a highly reliable embedded design that minimizes maintenance and reduces operational costs. The recorder is also available with a built-in DVD writer.

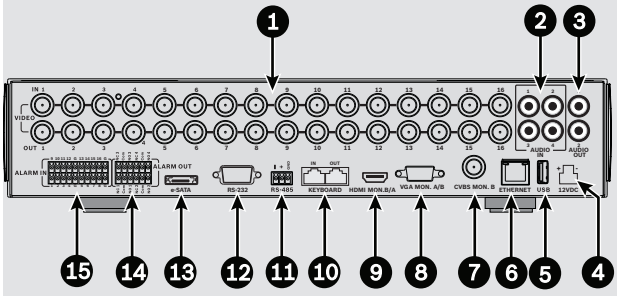
Features

- 8/16 Channel 4CIF real-time digital recording
- Flexible high-resolution HDMI and VGA monitor outputs
- Easy Pan/Tilt/Zoom camera control
- Remote viewing, playback, control, and configuration
- DVR Viewer iPhone App

Technical Specifications

Electrical	
Rated Voltage and Power	
External power adapter AC input	110–240 VAC; 50/60 Hz; 1.8 A
External power adapter DC output	12 VDC; 5 A
DVR Power input	12 VDC; 3.5 A; 145 BTU/h
Video Inputs	
Inputs	Composite video 1 Vpp, 75 ohm, automatic termination; PAL / NTSC auto-detect
AGC	Automatic gain adjustment for each video input
Video outputs	
Outputs	Monitor A: VGA (Default) or HDMI Monitor B: HDMI (Default) or CVBS (Default monitor output types are user selectable)
Live Resolution (Mon.A & B)	800x600 (4:3), 1024x768 (4:3) 1280x1024 (5:4) 1920x1080 (16:9)
Digital Zoom	2 times
Streaming video	H.264 compression
Audio	
Inputs	Mono RCA, 1.0 Vpp
Output	Mono RCA, 1.0 Vpp
Compression	ADPCM
Sample rate	16 kHz per channel
Bit rate	8-bit
Alarm Handling	
Inputs	8 or 16 inputs configurable NO/NC, max. input voltage 15 VDC
Outputs	4 Relay outputs, configurable NO/NC, max. rated 30 VAC, 40 VDC 0.5 A continuous or 10 VA
Control	
RS485	Output signals according to RS485, max. signal voltage -8 to +12 V
RS232	Output signals according to EIA/TIA-232-F, max input voltage ±25 V
Supported Protocols	Pelco P and D (over RS-485) Bosch OSRD (over RS-485 or RS-232 with the optional LTC 8786 Series Biphase Converter)
Connectors	
Video Inputs	8 or 16 looping BNC, auto termination
Monitor	1 VGA D-SUB 1 HDMI 1 CVBS
Alarm connectors	Screw terminal inputs, cable diameter AWG26-16 (0.13-1.5 mm)
Audio Inputs	4 RCA (CINCH)
Audio Output	2 RCA (CINCH)
Ethernet	RJ45, 10/100 BaseT according to IEEE802.3
RS485	Screw terminal output, cable diameter AWG28-16 (0.08-1.5 mm)
RS232	DB9 male, 9-pin D-connector
USB 2.0	One front and one rear USB connector for mouse or USB memory device
External storage	eSATA connector
Maximum Storage Capacity	
Internal	2 SATA hard drives, max. 2TB each
External	4 JBOD hard drives, max. 2TB each via eSATA connection

Video recording	
Record Rate (IPS)	
NTSC	Max. 30 IPS per channel, configurable: 30, 15, 7.5, 5, 3, 1
PAL	Max. 25 IPS per channel, configurable: 25, 12.5, 6.25, 5, 2.5, 1
Recording Quality	Best, High, Normal, Low, Lowest
Maximum recording rates per channel	
Local 16 channels	
4CIF	PAL: 25 IPS, NTSC: 30 IPS
Remote (network) 16 channels	
CIF	PAL: 25 IPS, NTSC: 30 IPS
Remote (network) 8 channels	
CIF	PAL: 25 IPS, NTSC: 30 IPS
Display Modes	
Monitor A	Full, quad, multi-screen (live and playback), full sequence, alarm call-up (live)
Monitor B	Full, quad, multi-screen, full sequence, alarm call-up (live)
Recording Modes	
Normal partition	Continuous recording (with or without overwriting)
Event partition	Input and motion recording (with or without overwriting)
Mechanical	
Dimensions (WxDxH)	355 x 362 x 78 mm (13.9 x 14.2 x 3.1 in) excluding cabling
Weight	4.3 kg (9.46 lb) approx.
Environmental	
Temperature	
- Operating	+0°C to +40°C (+32°F to +104°F)
- Storage	-40°C to +70°C (-40°F to +158°F)
Humidity	
- Operating	<93% non-condensing
- Storage	<95% non-condensing
Note	
Base units are only compatible with Bosch storage expansion kits.	
Certifications and Approvals	
Region	**Certification**
Europe	CE
USA	FCC
	UL
Canada	CSA
Standards	
	FCC Part 15, Class B
	EMC Directive 2004/108/EC
	Immunity: EN50130-4
	Emission: EN55022 Class B
	Harmonics: EN61000-3-2
	Voltage fluctuations: EN61000-3-3
	UL60950-1
	LV Directive 2006/95/EC, EN60950-1
	CAN/CSA–C22.2 no. 60950-1
	C-Tick



1 Camera inputs and outputs
2 Audio inputs
3 Audio outputs
4 Power connector
5 USB connector
6 RJ45 network connector
7 CVBS output - Monitor B
8 Monitor A(B) VGA output
9 Monitor B(A) HDMI output
10 RJ11 connectors for IntuiKey keyboard
11 RS485 connector for Dome control
12 RS232 connector for Dome control
13 eSata Hard Disk connector
14 Alarm outputs
15 Alarm inputs

Connections on back of DVR 670 (16-channel version)

Recommended PC requirements for Web support	
Operating system	Windows XP, Windows Vista or Windows 7
Web browser	Internet Explorer 7, 8 or 9
Processor	Intel Core Duo 2.0 GHz or comparable
RAM memory	2048 MB
Free disk space	10 MB
Graphics card	NVIDIA GeForce 8600 or better
Video memory	256 MB
Network interface	10/100-BaseT

Ordering Information	
DVR-670 8ch. base unit	DVR-670-08A000
DVR-670 16ch. base unit	DVR-670-16A000
DVR-670 8ch. base unit + DVD	DVR-670-08A001
DVR-670 16ch. base unit + DVD	DVR-670-16A001
DVR-670 8ch. 500 GB	DVR-670-08A050
DVR-670 16ch. 500 GB	DVR-670-16A050
DVR-670 8ch. 500 GB + DVD	DVR-670-08A051
DVR-670 16ch. 500 GB + DVD	DVR-670-16A051
DVR-670 8ch. 1 TB	DVR-670-08A100
DVR-670 16ch. 1 TB	DVR-670-16A100
DVR-670 8ch. 1 TB + DVD	DVR-670-08A101
DVR-670 16ch. 1 TB + DVD	DVR-670-16A101
DVR-670 8ch. 2 TB	DVR-670-08A200
DVR-670 16ch. 2 TB	DVR-670-16A200
DVR-670 8ch. 2 TB + DVD	DVR-670-08A201
DVR-670 16ch. 2 TB + DVD	DVR-670-16A201
KBD-Digital Keyboard	KBD-DIGITAL
LTC 8786/50 RS-232 to Biphase Converter	LTC 8786/50
LTC 8786/60 RS-232 to Biphase Converter	LTC 8786/60
Accessories	
DVR-XS050-A Storage Expansion Kit	DVR-XS050-A
DVR-XS100-A Storage Expansion Kit	DVR-XS100-A
DVR-XS200-A Storage Expansion Kit	DVR-XS200-A

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