# 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.
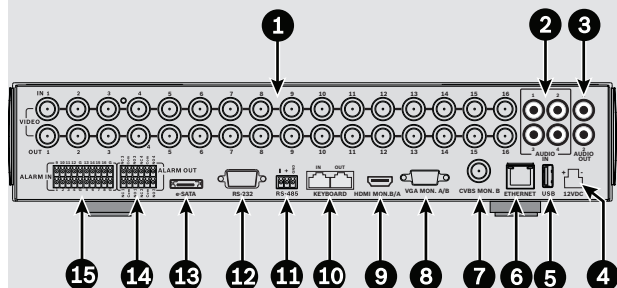
## Features

▶ 8/16 Channel 4CIF real-time digital recording

▶ Flexible high-resolution HDMI and VGA monitor outputs

▶ Hybrid camera viewing and recording

▶ Remote viewing, playback, control, and configuration

▶ Mobile Device support for viewing

## 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 | 800x600 (4:3), 1024x768 (4:3) |
| (Mon.A & B) | 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 | Supports up to 2 SATA hard drives, max. 2TB each |
| | (Third party hard disks are supported from firmware version 2.0.6 onwards. A list of tested disks is available in the instruction manual.)* |
| External | 4 JBOD hard drives, max. 2TB each via eSATA connection |
| *Bosch cannot be held liable for any loss or damages or system malfunction resulting from the use of non-Bosch drives in DVR recorders. | |

| Video recording | |
|---|---|
| Record rate (NTSC) | Max. 30 IPS per channel, configurable: 30, 15, 7.5, 5, 3, 1 |
| Record rate (PAL) | Max. 25 IPS per channel, configurable: 25, 12.5, 6.25, 5, 2.5, 1 |
| Recording Quality | Best, High, Normal, Low, Lowest |
| **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) |

| Maximum recording rates per channel (analog) | |
|---|---|
| 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 |

| Maximum recording rates per channel (IP) | |
|---|---|
| Max 4 channels | |
| 4CIF | PAL: Max. 25 IPS; supported resolution: Max. 702x480 |
| SD | |
| D1 | |
| | NTSC: Max. 30 IPS; supported resolution: Max. 702x576 |

| 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 |

| Certifications and approvals | | |
|---|---|---|
| **Region** | **Certification** | |
| Europe | CE | |
| USA | UL | |
| | FCC | |
| 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 | 9 | Monitor B(A) HDMI output |
| 2 | Audio inputs | 10 | RJ11 connectors for IntuiKey keyboard |
| 3 | Audio outputs | 11 | RS485 connector for Dome control |
| 4 | Power connector | 12 | RS232 connector for Dome control |
| 5 | USB connector | 13 | eSata Hard Disk connector |
| 6 | RJ45 network connector | 14 | Alarm outputs |
| 7 | CVBS output - Monitor B | 15 | Alarm inputs |
| 8 | Monitor A(B) VGA output | | |

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 |

### 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 |
| 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 |