



DVR 600 Series (Complete)



- ▶ **8/16-channel real-time H.264 recording at 4CIF/D1**
- ▶ **Up to 1440x900 resolution output and various aspect ratios**
- ▶ **Built-in web server for remote viewing, playback, control, and configuration**
- ▶ **Software for remote recorder management**
- ▶ **Live display support on mobile devices**
- ▶ **Smart Search**
- ▶ **Bosch and third-party Pan/Tilt/Zoom camera control**

The Bosch Video Recorder 600 Series is an 8/16 channel digital recorder that uses the latest H.264 compression technology to dramatically reduce the amount of storage and bandwidth needed while still producing a better image quality. The 600 Series records multiple video and audio signals while simultaneously providing live multi-screen viewing and playback. Comprehensive search and playback functions provide quick recall and viewing of recorded video.

With the supplied software and built-in web server, the 600 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 600 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.

Functions

The 600 Series has the following features:

- 8 or 16 looped-through, auto-terminating camera inputs
- 4 audio inputs and 2 audio outputs
- Simultaneous live viewing, recording, playback, and remote streaming
- 10/100Base-T Ethernet port for local or wide area network connection
- RS485 serial port for serial communication to control movable cameras
- IntuiKey keyboard support including loop-through to other 600 Series recorders
- VGA monitor outputs for main and spot monitors
- 16:9, 16:10 and 4:3 monitor aspect ratio displays for large-format monitor support
- Numerous VGA output quality settings
- Full-screen, quad and multi-screen display capabilities in live and playback modes
- Alarm picture pop-up on full-screen or sequence by multiple alarms simultaneously
- Playback one or more channels while showing live pictures of the other channels
- Spot monitor output with sequencing and full-screen, quad and multi-screen views
- Motion detection
- Multiple search modes including smart search (search for motion within recorded images)
- 8 or 16 switching (alarm) inputs and 4 alarm outputs
- Video loss detection
- Audible alarm
- Live display support on mobile devices
- Pan/tilt/zoom camera control via RS485
- Supports Bosch and Pelco protocols
- Local archiving via USB
- Local archiving via built-in DVD burner (specific models)

Certifications and Approvals

Region	Certification
Europe	CE
USA	UL FCC
Canada	CSA

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 RGB Monitor B: VGA RGB
Live Resolution (SVGA)	800x600 (4:3), 1024x768 (4:3) 1280x1024 (5:4) 1366x768 (16:9) 1440x900 (16:10)
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
RS485 Support	Bosch domes, and Pelco P and D

Connectors

Video Inputs	8 or 16 looping BNC, auto termination
Monitor	2 VGA D-SUB
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)
USB 2.0	One front and one rear USB connector for mouse or USB memory device

Storage

Hard Disks	2 SATA hard drive maximum 2TB each
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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
Average Recording Capacity (16 channels, 500 GB)	
CIF, Normal, 25/30 IPS	PAL: 138 hours, NTSC: 170 hours
CIF, Normal, 6.25/7.5 IPS	PAL: 350 hours, NTSC: 425 hours
2CIF, Normal, 12.5/15 IPS	PAL: 115 hours, NTSC: 144 hours
4CIF, Normal, 6.25/7.5 IPS	PAL: 93 hours, NTSC: 115 hours

Maximum recording rates per channel

Local 16 channels	
4CIF	PAL: 6 IPS, NTSC: 7.5 IPS
2CIF	PAL: 12.5 IPS, NTSC: 15 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local 8 channels	
4CIF	PAL: 12.5 IPS, NTSC: 15 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local 4 channels	
4CIF	PAL: 25 IPS, NTSC: 30 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Remote (network) 16 channels	
CIF	PAL: 6.75 IPS, NTSC: 7.5 IPS
Remote (network) 8 channels	
CIF	PAL: 12.5 IPS, NTSC: 15 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

Electromagnetic compatibility**EMC requirements**

- USA	FCC Part 15, Class B
- EU	EMC Directive 2004/108/EC
	Immunity: EN50130-4
	Emission: EN55022 Class B
	Harmonics: EN61000-3-2
	Voltage fluctuations: EN61000-3-3

Safety

- USA	UL60950-1
- EU	LV Directive 2006/95/EC, EN60950-1
- Can.	CAN/CSA-C22.2 no. 60950-1
- Australia	C-Tick

Ordering Information

DVR-630-08A 630 Series DVR 630 Series DVR, 8-channel, base unit	DVR-630-08A
DVR-630-16A 630 Series DVR 630 Series DVR, 16-channel, base unit	DVR-630-16A
DVR-650-08A 650 Series DVR 650 Series DVR, DVD, 8-channel, base unit	DVR-650-08A
DVR-650-16A 650 Series DVR 650 Series DVR, DVD, 16-channel, base unit	DVR-650-16A

Ordering Information

DVR-630-08A050 630 Series DVR 630 Series DVR, 8-channel, 500 GB	DVR-630-08A050
DVR-630-16A050 630 Series DVR 630 Series DVR, 16-channel, 500 GB	DVR-630-16A050
DVR-650-08A050 650 Series DVR 650 Series DVR, 8-channel, DVD writer, 500 GB	DVR-650-08A050
DVR-650-16A050 650 Series DVR 650 Series DVR, 16-channel, DVD writer, 500 GB	DVR-650-16A050
DVR-630-08A100 630 Series DVR 630 Series DVR, 8-channel, 1 TB	DVR-630-08A100
DVR-630-16A100 630 Series DVR 630 Series DVR, 16-channel, 1 TB	DVR-630-16A100
DVR-650-08A100 650 Series DVR 650 Series DVR, 8-channel, DVD writer, 1 TB	DVR-650-08A100
DVR-650-16A100 650 Series DVR 650 Series DVR, 16-channel, DVD writer, 1 TB	DVR-650-16A100
DVR-630-08A200 630 Series DVR 630 Series DVR, 8-channel, 2 TB	DVR-630-08A200
DVR-630-16A200 630 Series DVR 630 Series DVR, 16-channel, 2 TB	DVR-630-16A200
DVR-650-08A200 650 Series DVR 650 Series DVR, 8-channel, DVD writer, 2 TB	DVR-650-08A200
DVR-650-16A200 650 Series DVR 650 Series DVR, 16-channel, DVD writer, 2 TB	DVR-650-16A200
Accessories	
DVR-XS050-A Storage Expansion Kit DVR 600 Series storage expansion 500 GB	DVR-XS050-A
DVR-XS100-A Storage Expansion Kit DVR 600 Series storage expansion 1 TB	DVR-XS100-A
DVR-XS200-A Storage Expansion Kit DVR 600 Series storage expansion 2 TB	DVR-XS200-A

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