

Digital Video Recorder 440/480 Series

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Advantage Line

The Bosch Video Recorder 440/480 Series is a 4/8 channel digital recorder that uses the latest H.264 compression technology. With the supplied Control Center software and built-in web server, the 440/480 Series is a fully integrated, stand-alone video solution that's ready to go, straight out of the box.

Available in 4-channel and 8-channel versions, the 440/480 Series features a highly reliable embedded design that minimizes maintenance and operational costs.

Features

- ▶ 4/8-Channel real-time recording
- ▶ Reduced storage and bandwidth requirements
- ▶ High resolution recording and viewing
- ▶ Remote viewing, playback, control, and configuration
- ▶ Flexible viewing with two monitor outputs
- ▶ Live display for mobile devices

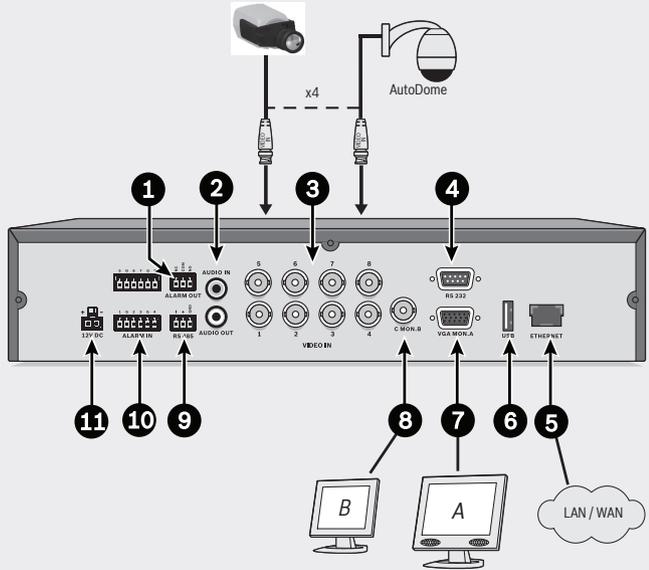
Technical Specifications

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; 3 A
DVR Power input	12 VDC; 3.5 A
Video	
Video Standard	SVGA PAL / NTSC auto-detect
Live Resolution	SVGA: 800x600, 1024x768 or 1280x1024 PAL: 720x576, NTSC: 720x484
Digital Zoom	2 times
AGC	Automatic gain adjustment for each video input
Compression	H.264
Inputs	Composite video 1 Vpp, 75 ohm, automatic termination
Outputs	Monitor A: VGA RGB Monitor B: 1 Vpp, 75 ohm, sync. 0.3 V ±10%
Audio	
Input	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	4/8 Inputs configurable NO/NC, max input voltage 15 VDC
Outputs	1 Relay output, configurable NO/NC, max. rated 30 VAC, 30 VDC 0.5 A continuous
Control	
RS232	Output signals according to EIA/TIA-232-F, max. input voltage ±25 V
RS232 Support	Bosch domes via RS232/Bi-phase converter
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	4/8 BNC
Monitor	1 VGA d-SUB, 1 BNC
Alarm connectors	Screw terminal inputs, cable diameter AWG26-16 (0.13-1.5 mm)
Audio Inputs	1 RCA (CINCH)
Audio Output	1 RCA (CINCH)
Ethernet	RJ45, 10/100 BaseT according to IEEE802.3
RS232	DB9 Male
RS485	Screw terminal output, cable diameter AWG28-16 (0.08-1.5 mm)
USB	Type A Connector USB 2.0 on front and rear for mouse or USB memory device
Storage	
Hard Disk	1 SATA hard drive
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	

Video recording	
CIF, Normal, 25/30 IPS	PAL: 550 Hours, NTSC: 685 Hours
CIF, Normal, 6.25/7.5 IPS	PAL: 1400 Hours, NTSC: 1700 Hours
2CIF, Normal, 12.5/15 IPS	PAL: 460 Hours, NTSC: 575 Hours
4CIF, Normal, 6.25/7.5 IPS	PAL: 370 Hours, NTSC: 460 Hours
Maximum recording rates	
Local Stream 8 channels	
4CIF	PAL: 6.25 IPS, NTSC: 7.5 IPS
2CIF	PAL: 12.5 IPS, NTSC: 15 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local Stream 4 channels	
4CIF	PAL: 12.5 IPS, NTSC: 15 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local Stream 2 channels	
4CIF	PAL: 25 IPS, NTSC: 30 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local Stream 1 channel	
4CIF	PAL: 25 IPS, NTSC: 30 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Remote (network) Stream 4 channels	
CIF	PAL: 12.5 IPS, NTSC: 15 IPS
Remote (network) Stream 2 channels	
CIF	PAL: 25 IPS, NTSC: 30 IPS
Display Modes	
Monitor A	Full, quad (live and playback), Full sequence, alarm call-up (live)
Monitor B	Full, full sequence, alarm call-up (live)
Recording Modes	
Normal	Continuous recording (with or without overwriting)
Event	Input and motion recording (with or without overwriting)
Mechanical	
Dimensions (WxDxH) excluding cabling	225 x 325 x 60 mm (8.86 x 12.8 x 2.4 in)
Weight (DVR440)	2.9 kg (6.39 lb) approx. (DVR440)
	3 kg (6.61 lb) approx. (DVR480)
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
Standards	
	CC Part 15, Subpart B, Class B
	EMC Directive 2004/108/EC
	Immunity: EN50130-4
	Emission: EN55022 Class B
	Harmonics: EN61000-3-2

Standards	
	Voltage fluctuations: EN61000-3-3
	UL60950-1
	CE, EN60950-1
	CAN/CSA-C22.2 no. 60950-1

Installation/Configuration Notes



Connections on rear of DVR 480 (8 channels)

1.	Alarm output	7.	Monitor A VGA output
2.	Audio input and output	8.	Monitor B output
3.	Camera inputs	9.	RS485 connector for dome control
4.	RS232 connector	10.	Alarm inputs
5.	RJ45 network connector	11.	12 VDC power connector
6.	USB connector		

Recommended PC requirements for Web support

Operating system	Windows XP, Windows Vista or Windows 7
Web browser	Internet Explorer 7 or 8
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-440-04A050 440 Series DVR, 4ch, 500 GB	DVR-440-04A050
DVR-480-08A050 480 Series DVR, 8ch, 500 GB	DVR-480-08A-050

Americas:
 Bosch Security Systems, Inc.
 130 Perinton Parkway
 Fairport, New York, 14450, USA
 Phone: +1 800 289 0096
 Fax: +1 585 223 9180
 security.sales@us.bosch.com
 www.boschsecurity.us

Europe, Middle East, Africa:
 Bosch Security Systems B.V.
 P.O. Box 80002
 5600 JB Eindhoven, The Netherlands
 Phone: + 31 40 2577 284
 Fax: +31 40 2577 330
 emea.securitysystems@bosch.com
 www.boschsecurity.com

Asia-Pacific:
 Robert Bosch (SEA) Pte Ltd, Security Systems
 11 Bishan Street 21
 Singapore 573943
 Phone: +65 6571 2808
 Fax: +65 6571 2699
 apr.securitysystems@bosch.com
 www.boschsecurity.asia

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