VIP XD Single/Quad-stream Decoder

www.boschsecurity.com





- ▶ Quad-view option
- ▶ DVD-quality 25/30 ips at 4CIF
- ▶ Ultra-compact size
- ► Composite video or VGA output
- ► Alarm inputs and relay output

The VIP XD displays DVD-like quality H.264, MPEG-4 and MPEG-2 encoded video at up to 25/30 images per second from PAL or NTSC sources over IP networks. Establish the video connections automatically with the encoder, decoder, or Bosch's comprehensive video management system. Set up the VIP XD to display video in single-view or quad-view mode. It is capable of decoding up to four video streams at the same time. Control the viewing mode remotely via a management system like VIDOS. Alternatively, the VIP XD can drive a VGA display directly, thus is ideally suited for applications like flat-screen monitor walls. The VIP XD is available as an audio model, providing

one-channel bidirectional audio communication in parallel to video.

Besides the standard line level interface, it has integrated amplifiers to connect directly to a microphone and speaker.

Ultra-compact in size, the VIP XD is perfect for any application that depends on space-saving solutions.

Functions

Access Security

The VIP XD decoders offer various security levels for accessing the network, the unit, and the data channels. As well as password protection with two levels, they support 802.1x authentication using a

RADIUS server for identification. You can secure Web browser access by HTTPS using a SSL certificate that is stored in the unit. For total data protection, each communication channel—video, audio, or serial I/O—can be independently AES encrypted with 128-bit keys, once the Encryption Site License has been applied.

High Performance

Transmit IP video to a high-performance VIP XD video decoder and present it with ultimate clarity on an analog CCTV or on a large, flat-screen VGA monitor. VIP XD can handle up to four 4CIF MPEG-4 video streams with full resolution and frame rate and display it in quad-view. When in single-view, it can display 4CIF video streams, encoded as either H.264, MPEG-4 or MPEG-2.

Easy Upgrade

Remotely upgrade the VIP XD decoders whenever new firmware becomes available. This ensures up-to-date products, thus protecting investment with little effort.

Decoding Performance

Encoding	Streams	Resolution	Max. bit rate
MPEG-2	1	4CIF/D1	6 Mbps
MPEG-4	4	4CIF	6 Mbps

H.264 BP+	1	4CIF	2.5 Mbps
H.264 BP	4	CIF	2 Mbps

Certifications and approvals

Approvals

Safety

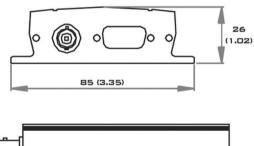
Region	Number
	IEC 60950

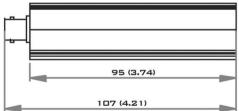
Electromagnetic Compatibility

Region	Number
EU	EN55103-1 Video and audio equipment
	EN55103-2 Video and audio equipment
	EN50130-4 Alarm systems
	EN55022 ITE
	EN61000-3-2
	EN61000-3-3
US	FCC 47 CFR Chapter 1 Part 15

Region	Certification	
Europe	CE	VIP XD
	CE	VIP-X-PS
USA	UL	VIP X
	UL	Bosch UL online certifications directory (link)

Installation/configuration notes





Dimensions in mm (in)

Front Connectors and Indicators



Non-audio model

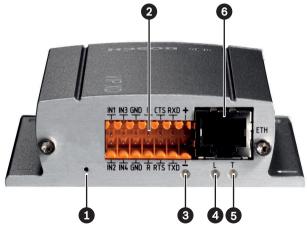


Audio model

- 1 Video Out Line Out VGA
- 2 Line In

3 Microphone in, speaker out

Rear Connectors and Indicators



All models

3 | VIP XD Single/Quad-stream Decoder

1	Reset: factory default	4	LED Link
2	Alarm in, relay out, power, COM (RS-232/422/485)	5	LED Traffic

ELED Power 6 10/100 Base-T Fast Ethernet

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Quantity	Component
1	VIP XD single/quad-stream decoder, or
	VIP XDA single/quad-stream decoder with audio
1	International plug-in power supply
1	RS-232 null modem cable
1	Quick Installation Guide
1	CD-ROM with software and documentation

Technical specifications

Electrical	
EIECUTCAL	
Power supply	VIP-X-PS included in the box
Input voltage	12 to 24 VDC
Power consumption	Approx. 7 VA
Input/output	
Video	1 x output
• connector	BNC
• impedance	75 ohm
• signal	Analog composite, 1 Vpp, NTSC or PAL
VGA	1 x output
• connector	15-pin Sub-D
• signal	1 Vpp, RGB analog
Audio (audio version only)	1 x mono line in, 1 x mono line out, 1 x microphone input, 1 x speaker output
• connector	2 x 3.5 mm stereo jack, 1 x CombiCon
• signal line in	9 kohm typical, 5.5 Vpp max
signal line out	16 ohm min, 3.0 Vpp max
• signal microphone	2 kohm typical, 2.8 Vpp max at -20 dB, 2.3 Vpp typical
signal speaker	4 ohm min, 6 Vpp max, 1 W RMS
Alarm	4 x input
• connector	Clamp (non-isolated closing contact)
activation resistance	10 ohm max
Relay	1 x output

• signal 30 Vpp (SELV), 2 A COM port Clamp, RS-232/422/485 Video H.264 BP+ (ISO/IEC 14496-10) Standards H.264 BP+ (ISO/IEC 14496-10) MPEG-4, MPEG-2 MPEG-4, MPEG-2 Data rates Up to 6 Mbps per stream Resolution Horizontal x vertical PAL/NTSC • 4CIF 704 x 276/480 • 2CIF 704 x 288/240 • 2/3 D1 464 x 576/480 • 1/2 D1 352 x 576/480 • CIF 352 x 288/240 • QCIF 176 x 144/120 GOP structure I, IP Overall IP delay 120 ms (MPEG-4) Audio (audio version only) Standard G.711; 300 Hz to 3.4 kHz Data rate 80 kbps at 8 kHz sampling rate Network Ethernet 10/100 Base-T, auto-sensing, half/full duplex, RJ45 Protocols RTP, Telnet, UDP, TCP, IP, HTTP, HTTPS,	• connector	Clamp
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Control Software update Flash ROM, remote programmable Configuration Configuration Manager or Web browser Mechanical Dimensions (H x W x D) 26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)	Protocols	FTP, DHCP, IGMP V2/V3, ICMP, ARP, SMTP,
Software update Flash ROM, remote programmable Configuration Configuration Manager or Web browser Mechanical Dimensions (H x W x D) 26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)	Encryption	TLS 1.0, SSL, AES (optional)
Configuration Configuration Manager or Web browser Mechanical Dimensions (H x W x D) 26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)	Control	
Mechanical Dimensions (H x W x D) 26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)	Software update	Flash ROM, remote programmable
Dimensions (H x W x D) 26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)	Configuration	Configuration Manager or Web browser
Dimensions (H x W x D) 26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)	Mechanical	
		26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)
	Weight	Approx. 0.3 kg (0.66 lb)
Environmental	Fnvironmental	
Operating temperature 0 °C to +35 °C (+32 °F to +95 °F) ambient temperature		

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Relative humidity	0 to 95% atmospheric humidity, non- condensing
Thermal value	24 BTU/h max

Ordering information

VIP-XD

H.264/MPEG-4/MPEG-2 single/quad-stream decoder, serial I/O, alarm in, relay Order number **VIP-XD**

VIP-XDA

H.264/MPEG-4/MPEG-2 single/quad-stream decoder, audio, serial I/O, alarm in, relay Order number VIP-XDA

Accessories

VIP-X-PS

Power supply Order number VIP-X-PS

Software Options

BVIP AES 128 Bit Encryption

Single installation licence for BVIP AES 128-bit encryption site. Enables encrypted communication between BVIP devices and management stations. Order number MVS-FENC-AES

IP Matrix

IP Matrix license for decoders to set up an IP-based CCTV surveillance systems with up to 32 cameras and up to 10 monitors controlled via an IntuiKey keyboard without PC operation.

Order number MVC-FIPM

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