

VIDEOJET XTC XF Video Transcoder

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BOSCH
Invented for life



- ▶ Dynamic Transcoding for live view and advanced remote replay
- ▶ Enables HD video over bandwidth-limited links
- ▶ Bandwidth-friendly Adaptive Bit Rate (ABR) encoding
- ▶ Instant Display Enhancement during pause mode
- ▶ Local recording on CF card for up to four HD cameras

VIDEOJET XTC XF enables HD video up to 1080p30 or 720p60 to be seen over wide area networks or through mobile access in original quality.

Its Dynamic Transcoding functionality makes it the ideal entrance door for central monitoring systems to remote HD camera sites, or for remote clients to small business HD video surveillance installations. Even megapixel cameras can be connected if they provide a video stream with a resolution downscaled to HD.

Its transcoding services seamlessly integrate with VRM Video Recording Manager installations, enabling for example mobile access for on-site guards to HD video, both live and playback.

VIDEOJET XTC XF provides two independent transcoded streams, enabling live viewing access to two HD cameras or playback of their recordings simultaneously, regardless of the network bandwidth. The Bosch Video Security app for iOS devices like Apple iPad provides an advanced but intuitive tool to fully utilize the VIDEOJET XTC XF transcoder's features.

The Bosch Video Security app as well as the Web browser playback interface allow forensic search in the recordings of IVA-enabled HD cameras, providing quick results for highly efficient digging into relevant situations. Having found an event or a point of

interest, pausing the replay causes the Instant Display Enhancement feature to present the HD image in its original recording quality.

VIDEOJET XTC XF is built into a housing that can be easily rack- or wall-mounted.

These powerful and flexible devices represent the cutting edge of high-performance Video-over-IP for HD CCTV today.

Functions

Flexibility

VIDEOJET XTC XF transcoders offer local recording for up to four connected HD cameras on CompactFlash. The built-in iSCSI support enables the VIDEOJET XTC XF transcoders to act as conventional DVRs while providing transcoded HD video across any bandwidth-type of network.

Viewing

VIDEOJET XTC XF transcoders video can be displayed on the Bosch Video Security app, on a PC using a Web browser, in the Bosch Video Management System, or integrate it into another video management system. Adaptive Bit Rate encoding enables viewing from remote sites over bandwidth-limited connections and wireless connections to mobile clients.

Region of interest (ROI)

Get every detail even on lower bandwidth or smaller video window by panning, tilting and zooming a region-of-interest cut-out from the full image. ROI is possible on both live viewing and playback of recordings.

Advanced remote playback

The latest enhancements by Bosch – Adaptive Bit Rate encoding and transcoding – allow replay of recordings over bandwidth-limited connections with smooth browsing through the footage while not missing any detail. Be it a remote guard searching for a specific evidence or alerted by alarm notification, quick access to the relevant recording is easily achieved, and recorded images are presented in original quality even over weak links.

Transcoding

The transcoder features eight profiles that can be predefined for various types of network connections. These profiles, selectable on the playback page, provide a quick and easy adaptation to the available bandwidth.

Access security

The devices offer various security levels for accessing the network, the unit, and the data channels. As well as password protection with three 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.

Forensic search

The transcoders provide forensic search in the recordings of its assigned IVA-enabled cameras. Simple line and field definitions, drawn over the video image, allow quick and efficient search through the metadata of camera recordings. Forensic search is possible via the Bosch Video Security app as well as the Web browser playback interface.

Easy upgrade

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

Certifications and approvals

Safety

Region	Number
	IEC 60950-1

System

Region	Number
	IEC 62676-2
	EN 50132-5-2

Electromagnetic compatibility

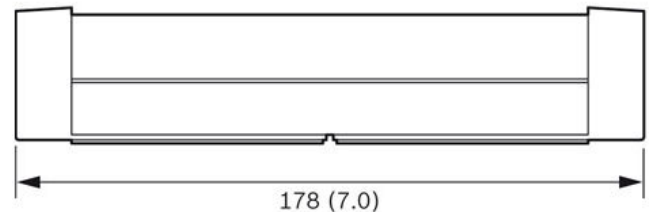
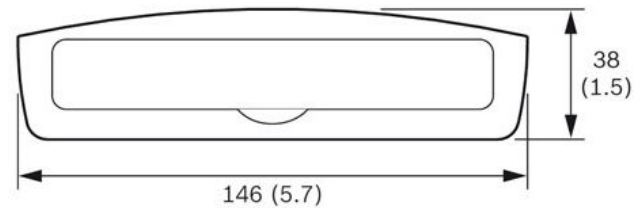
Region	Number
EU	EN 55022 ITE
	EN 55024 ITE
	EN 61000-3-2
	EN 61000-3-3
	EN 50130-4 Alarm systems
	EN 50121-4 Railway
AUS/NZ	AS/NZS 3548 Class B
US	FCC 47 CFR Part 15 Subpart B Class B

Approvals

Region	Certification	
Europe	CE	VideoJet XF
USA	UL	Bosch UL online certifications directory (link)

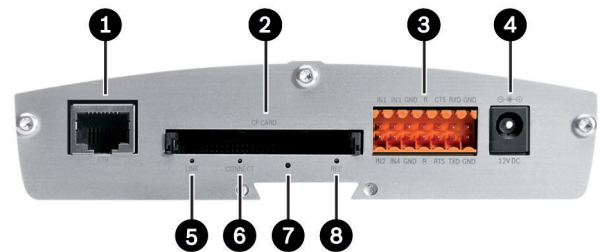
Installation/configuration notes

Dimensions (front view / side view)



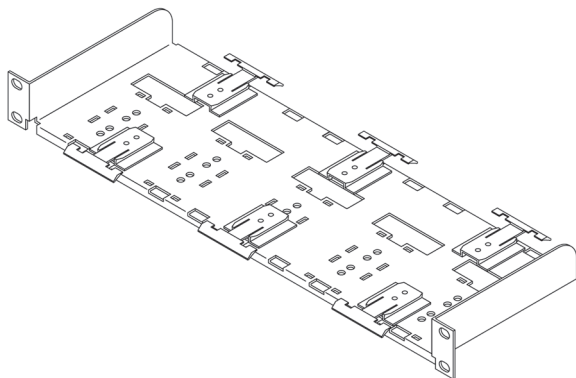
Dimensions in mm (in)

Rear connectors and indicators



- 1 10/100 Base-T Fast Ethernet
- 2 **CF CARD** slot
- 3 Alarm in, relay out, COM (RS-232/422/485)
- 4 Power **12 VDC**
- 5 LED **LINK**
- 6 LED **CONNECT**
- 7 Factory reset button
- 8 LED **REC**

Rack Mount Kit XF (optional)



Parts included

Quantity	Component
1	VIDEOJET XTC XF Video Transcoder
1	Quick Installation Guide
1	Safety Hints document
1	Power supply unit with 3 primary adapters (EU, US, UK)
1	Set of spring clamp contact connectors, wall mount and desktop accessories

Technical specifications

Input/output	
Alarm	4 x input
• connector	Clamp (non-isolated closing contact)
• activation resistance	10 ohm max
Relay	1 x output
• connector	Clamp
• signal	30 Vpp (SELV), 200 mA
COM port	Clamp, RS-232/422/485, bidirectional

Video	
Standards	H.264 Main Profile, H.264 Baseline Profile (ISO/IEC 14496-10) M-JPEG, JPEG
Transcoding channels	2
Resolution	1080p30 max 720p60 max
Data rates	9.6 kbps to 10 Mbps per channel
Total delay	120 ms max
Frame rate	1 to 25/30 (PAL/NTSC)
Network	
Ethernet	10/100 Base-T, auto-sensing, half/full duplex, RJ45
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication
Encryption	TLS 1.0, SSL, DES, 3DES, AES
Control	
Software update	Flash ROM, remote programmable
Configuration	Configuration Manager or Web browser
Storage medium	
CompactFlash	1 x CF slot for optional standard Type I/II CompactFlash memory card, 2 TB max
Electrical	
Power supply	Via external unit
Input voltage	12 VDC
Current consumption	0.75 A
Power consumption	Approx. 9 W
Mechanical	
Dimensions (H x W x D)	38 x 146 x 178 mm (1.5 x 5.7 x 7.0 in)
Weight	Approx. 0.6 kg (1.3 lb)

Environmental	
Operating temperature	
• Transcoder	0 °C to +50 °C (+32 °F to +122 °F) ambient temperature
• Power supply	0 °C to +40 °C (+32 °F to +104 °F) ambient temperature
Relative humidity	
• Transcoder	0 to 90% atmospheric humidity, non-condensing
• Power supply	20 to 80% atmospheric humidity, non-condensing
Thermal value	31 BTU/h max

Ordering information

VIDEOJET XTC XF Video Transcoder

High-performance video transcoder. H.264; CF card slot; ROI; max resolution 1080p; 2 channels
Order number **VJT-XTCXF**

Accessories

Rack Mount Kit XF

Rack mount kit for stand-alone encoders and decoders
Order number **VIP-VJTXF-RMK**

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