



X-Stream[®] 202

2 Channel Digital Video Server



Driving IP-based physical security through global standardization

The X-Stream[®] 202 is a flexible and feature rich multi-channel video encoder for professional surveillance applications.



By utilising the latest H.264 Main Profile compression algorithm, X-Stream 202 delivers superior picture quality at reduced bandwidth across any Ethernet network. ONVIF compliance ensures the X-Stream 202 can be utilised with a wide variety of third party surveillance product, whilst compatibility with I-Command[®] SmartDetect System video analytics enhances surveillance capabilities.

Key Features of X-Stream 202 Include:

- ▷ **ONVIF Compliance.**
 - Adhering to the ONVIF interoperability standard, X-Stream 202 is compatible for use with ONVIF compliant devices, allowing flexibility in deployment of IP networks.
- ▷ **H.264 Main Profile low latency compression.**
 - X-Stream 202 provides best-of-breed video performance (D1 resolution @ 25/30 frames per second), resulting in highest quality video at low latency and bandwidth for CCTV applications.
- ▷ **Meets & exceeds transport standards.**
 - X-Stream 202 meets extended transportation regulatory specifications.
- ▷ **Direct to fibre / Dual Ethernet port option.**
 - Option for two 10/100 BaseT Ethernet ports, boxed as 2 copper, or 1 copper & 1 100BaseFx fibre optic (via SFP optic interface)
- ▷ **Video loop-through option.**
 - Analogue video loop-through for direct connection to devices such as DVRs available on all channels.
- ▷ **Video analytics enhancement.**
 - By purchasing a SmartDetect System analytics license, rules such as object detection, line crossing and more can be utilised. SmartDetect analytics enhances operator effectiveness and greatly increases the effectiveness of analogue cameras. For more information on I-Command SmartDetect, please visit our website at www.coe.co.uk
- ▷ **Two way audio.**
 - Two way audio channel to support audio applications. Supports encoding/decoding via PC software, or in hardware via X-Stream 200D video decoder. This creates an ideal solution for help point, conferencing and concierge solutions.
- ▷ **In-built protocol translation for peripheral device control.**
 - Utilising industry standard method of upgrade (flash upload), new serial protocols can be loaded into the encoder, minimising requirement for inventory & spares holding.

Product Codes:

X-Stream 202

X-Stream 202-VL

X-Stream 202-FX-VL

X-Stream 202-DE-VL

PSU12VDC

2 Channel H.264 Video Server - 2 x video, 2 x data I/O, 1 x audio I/O, 2 x contact, 1 x relay + Analytics*

X-Stream 202 + Video loop-through

X-Stream 202 + SFP port** + Video loop-through + Additional contacts

X-Stream 202 + Ethernet port + Video loop-through + Additional contacts

12V DC power supply for use with X-Stream video server

*I-Command SmartDetect System license sold separately.
**SFP Optic sold separately.



X-Stream[®] 202

Technical Specifications



Video

Compression Algorithm	H.264 Main Profile, H.264 Baseline Profile, MPEG-4, MJPEG
Frame Rate	From 1 fps up to 25/30 fps (PAL/NTSC)
Bandwidth Control	From 64Kb/s to 6Mb/s per stream
Resolution	D1 (720 x 576), 2CIF, CIF QCIF
Dual Streaming	Supported
Video Input	PAL/NTSC, analogue composite, 75 Ohm, 1V p-p
Loop-Through	PAL/NTSC, analogue composite, 75 Ohm, 1V p-p

Data

Data Channel	1 x Transparent or User defined Protocol Translator, 1 x Transparent or console
Data Formats	1 x RS232, RS422, RS485 (2 & 4 wire), 1 x RS232
Baud Rate	1 x Up to 38.4k baud, 1 x Up to 115.2k baud
Link Type	Asynchronous

Binary I/O

Inputs (202/VL)	2 x TTL inputs - Max Isolation 48VRMS, - Max Forward Current
Inputs (202-FX-VL/DE-VL)	4 x TTL inputs - Max Isolation 48VRMS, - Max Forward Current
Outputs (202/VL)	1 x relay O/P (grounded) - Max Load 0.1A, 48V. Max RON 16 Ohm
Outputs (202-FX-VL/DE-VL)	3 x relay O/P (grounded) - Max Load 0.1A, 48V. Max RON 16 Ohm

Network

Protocols	DHCP, ARP, HTTP, RTP, NTP, UDP unicast, UDP multicast, TCP/IP, ICMP, IGMP, SNMP, RTCP, RTSP
Configuration	Web browser interface
Software Upgrade	Remote Flash Programmable

Power Supply

X-Net Chassis	Power from Backplane, 12VDC 800mA max
Stand alone	12VDC, 800mA max

Video Latency

Encoding	<80 ms
Encoder to I-Command Display	<100 ms
Encoder to Decoder (Analogue Out)	160 ms

Audio

Encoding	L16/G711/G722
Input Impedance	600 Ohms
Input Level	Line - 2V p-p typ. Input gain level selectable
Output Level	2V p-p typ. (into 600 Ohm) - Balanced, User volume control
Sample Rate	8kHz, 16kHz, 48kHz
Signal to Noise Ratio	>60dB

Physical Interfaces

Video Input	2 x BNC
Video Loop-Through (if applicable)	2 x BNC
Data, Audio, Binary, I/O	2 x RJ-45 (3 x RJ-45 with FX-VL/DE-VL)
Network (202/VL/FX-VL)	1 x IEEE 802.3aa 10/100BaseT, auto-sensing, full/half duplex
Network (202-DE-VL)	2 x IEEE 802.3aa 10/100BaseT, (Extra port is 10/100BaseT or 10/100BaseFX)
SFP Slot (202-FX-VL)	LC Connector**

Mechanical

Card (202)	4U x 160mm x 6HP
Card (202-VL/DE/FX/DE-VL/FX-VL)	4U x 160mm x 12HP
Box (202)	170mm x 180mm x 66mm
Box (202-VL/DE/FX/DE-VL/FX-VL)	170mm x 180mm x 132mm

Environmental

Operating Temperature	-30° to +60°C
Storage Temperature	-30° to +60°C
Humidity	20% to 95% (Non-Condensing)

Regulatory Approvals

Standard (Alarms/CCTV Equipment)

EN 55130-4 - Immunity; EN 61000-6-3 - Emissions Light Ind; ENV50204 - Radiated (mobile phone frequencies); EN 60950-1:2002 + A1:2003 - Electrical Safety

Additional (Railways, Transport)

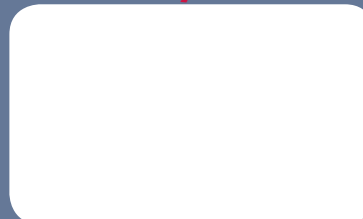
EN 55011: 1998 (inc. low freq. magnetic emissions); EN 50121-4 - Traction Frequency voltages; GS/ES1914, GM/RC1500 - Radiated Emissions; EN61000-4-16 - Signal lines conducted RF immunity

COE Limited Headquarters (UK)

Photon House
Percy Street
Leeds
LS12 1EG
United Kingdom

Tel : +44 (0)113 230 8800
Fax : +44 (0)113 279 9229
Web : www.coe.co.uk
Email : sales@coe.co.uk

Distributed by:



Issue: 2.0
Date: 11/01/11



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