



# X-Stream™ 200D

## 2 Channel Digital Video Decoder



The X-Stream™ 200D digital video decoder interprets streaming H.264 encoded IP video and outputs to multiple channels of analogue video.



Utilising the latest H.264 Main Profile compression algorithm, X-Stream 200D delivers highest quality decoded video for use with devices and applications requiring analogue video. Interpreting and outputting two channels of analogue video, as well as data, audio & contact closure interfaces, X-Stream 200D is a cost-effective solution for transmission of video across any IP network.

### Key Features of X-Stream 200D Include:

- ▷ **H.264 Main Profile low latency compression.**
  - H.264 compression provides best-of-breed video performance (D1 resolution @ 25 frames per second), ensuring that network bandwidth is optimised without compromise to quality.
- ▷ **Meets & exceeds transport standards.**
  - X-Stream is part of COE's X-Net range, which is specifically designed for demanding transport and industrial environments. X-Stream 200D includes features such as packet reordering, improving performance in wireless environments.
- ▷ **Comprehensive remote network management.**
  - X-Stream 200D features comprehensive remote diagnostics via intuitive SNMP and web browser interfaces.
- ▷ **Two way audio.**
  - Support for two way audio for help point applications. When coupled with the X-Stream 202 or X-Stream 400, this creates an ideal solution for conferencing and concierge applications.
- ▷ **In-built protocol translation for peripheral device control.**
  - Utilising industry standard method of upgrade (flash upload), new protocols can be loaded into the codec, minimising requirement for inventory & spares holding.

### Product Codes:

X-Stream 200D  
X-Net Box Single  
X-Net Box Double  
PSU12VDC  
X-Net Rack

2 Channel H.264 video client - 2 x video, 1 x data I/O, 1 x audio I/O, 2 x contact, 1 x relay  
6HP housing for external mounting of X-Stream 200D  
12HP housing for external mounting of 2 x X-Stream 200D  
12V DC power supply for use with boxed X-Stream video client  
19" 4U Rack housing up to 14 X-Stream 200D modules



# X-Stream™ 200D

## Technical Specifications



### Video

<b>Compression algorithm</b>	H.264 Main Profile
<b>Frame Rate</b>	From 1fps up to 25/30 fps (PAL/NTSC)
<b>Bandwidth Control</b>	From 64Kb/s to 6Mb/s per stream
<b>Resolution</b>	D1, 2CIF, CIF QCIF
<b>Video Output</b>	PAL/NTSC, analogue composite, 75 Ohm, 1V p-p
<b>On Screen Display</b>	OSD for time, date, camera titles and alarms plus icon based diagnostic alerts.
<b>Compatibility</b>	X-Stream 102/202/400

### Data

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

### Binary I/O

<b>Inputs</b>	2 x TTL inputs - Max Isolation 48VRMS, - Max Forward Current
<b>Outputs</b>	1 x relay O/P (grounded) - Max Load 0.1A, 48V. Max RON 16 Ohm

### Network

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

### Video Latency

<b>Encoder to Decoder (Analogue Out)</b>	160ms
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### Audio

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

### Physical Interfaces

<b>Video Output</b>	2 x BNC
<b>Data, Audio, Binary, I/O</b>	2 x RJ45
<b>Network Connector</b>	IEEE 802.3aa 10/100BaseT, auto-sensing, full/half duplex

### Power Supply

<b>X-Net Chassis</b>	Power from Backplane, 12V DC 800mA max
<b>Stand alone</b>	12V DC, 800mA max

### Mechanical

<b>Card</b>	4U x 160mm x 6HP
<b>Box</b>	170mm x 180mm x 66mm

### Environmental

<b>Operating Temperature</b>	-30° to +60°C
<b>Storage Temperature</b>	-30° to +60°C
<b>Humidity</b>	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 Group PLC Headquarters (UK)

Photon House  
Percy Street  
Leeds  
LS12 1EG  
United Kingdom

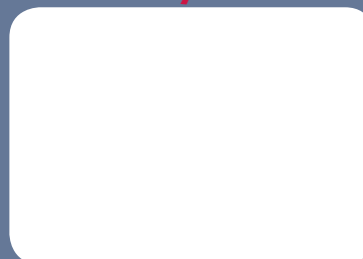
Tel : +44 (0)113 230 8800  
Fax : +44 (0)113 279 9229  
Email : sales@coe.co.uk

### COE Asia Regional Office

No. 3, International Business Park  
#03-25 Nordic European Centre  
Singapore  
609927

Tel : +65 6325 6018  
Fax : +65 6223 0372  
Email : sales@coeasia.com.sg

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