



COE X-Net™ 170



Industry's smallest uncompressed video transmitter for multimode optical fibre.

The COE Series 170 features a miniature fibre optic transmitter, ideal for 'in' or 'on' camera operation. Three channel receiver Eurocard Box completes the range of cost effective video-on-fibre systems for security & CCTV applications. The Series 170 enables the transmission of video signals up to 5km whilst maintaining a very high Signal to Noise ratio for unparalleled video quality.

System Features and Benefits

- **Miniature Size** - Miniature transmitter unit allows direct camera mounting and may be powered from camera power supply, thus saving space and cost on fixed camera sites
- **10MHz bandwidth** - For full colour NTSC and PAL systems.
- **High Power transmitters available** - Ideal for extended distances up to 5Km
- **Three channel video receiver** - Reduces the overall cost of the system
- **Fully compatible with X-Net rack** - Allows up to 42 video channels in a single rack (36 channels with internal power supply)
- **Plug 'n' Play** - Optical AGC automatically adjusts optical levels. Thus no adjustments are required in the field.
- **Unmatched reliability** - Over 50,000 links successfully operating worldwide
- **Flexible dual redundant power supply options** - Support for rack mounted or external 12V DC, 24V AC, 220V AC or 48V DC dual redundant power supplies.

Miniature Transmitter

The miniature transmitter module is housed in a small elastomer filled ABS box and is ideal for direct camera mounting. Powered from an external 12V DC source and featuring a power on LED, the 171STXB utilises a BNC connector for the Video input and an STII bayonet type optical connector for multimode fibre. Typical uses include fixed security cameras, industrial process monitoring and applications where space is at a premium.



Sales Codes

171STXB	Single Channel Simplex Video TX module, camera mounting, multimode fibre
171STXBH	Single Channel Simplex Video TX module, camera mounting, multimode fibre. High launch power
X-Net 173SRXC	X-Net 3 x Single channel Simplex video RX card fits into the X-Net rack. Multimode fibre. Utilises 1 rack/box slot.

Performance and Specifications

Video

Video Channels	1/3
Format	Uncompressed Analogue
Channel bandwidth	up to 10MHz
Video Input level	1V p-p
Video channel gain	1
Impedance	75 Ohms unbalanced
Signal/Noise ratio	>65 dB weighted typical
Differential Gain	3%
Differential Phase	3 deg
K rating	0.7 %
Connector	75 Ohms BNC

Optical

Optical budget (dB)	Standard: 12 dB High Power: 15 dB
Range on 50 or 62.5/125um multimode fibre (Km)	Standard: 4 Km High Power: 5Km
Connector	STII
Wavelength	850 nm

EMC

EN55022 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2 6kV(C), 8kV (A), EN61000-4-3 10V/m, EN50204 20V/m, EN61000-4-6 10V, EN61000-4-4 2kV, EN61000-4-5 2kV, EN61000-4-8 50Hz & dc 100A/m, EN61000-4-9 300A/m, EN61000-4-11, EN60950-1:2002 + A1:2003, EN60825-2:2000

Environmental

Operating temperature	-10 °C to +60 °C
Storage temperature	-10 °C to +70 °C

Mechanical

Tx Module	30mm x 30mm x 60mm
Rx Module	6HP x 4U x 167mm

Electrical

Video Impedance	75 Ohms (input/output)
Voltage	+12VDC
Current Consumption	Tx 50mA Rx 90mA/channel

MTBF

All Modules	>100,000 hours
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In line with the company policy of continuous improvement, COE reserves the right to vary descriptions and specifications without notice.

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