

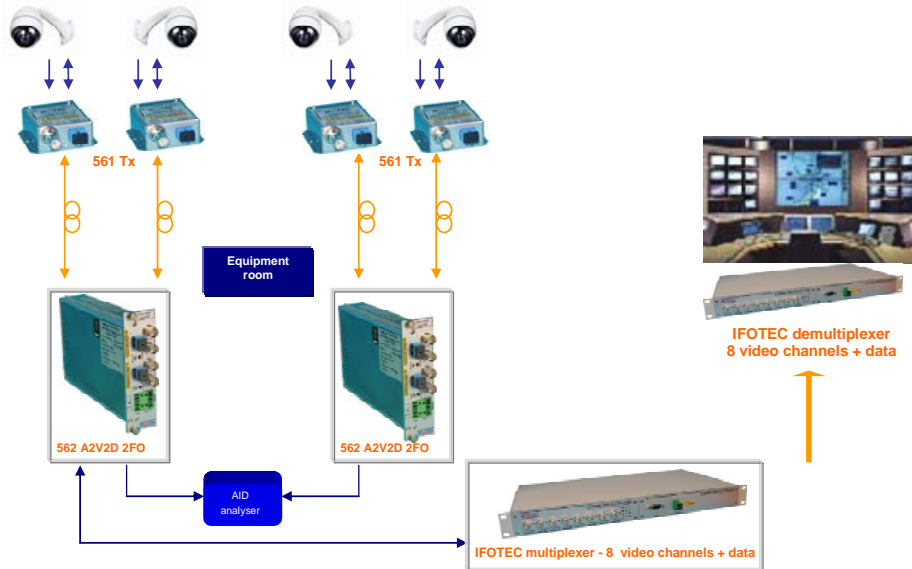
# Fibre Optic Video Transmission

The Ridgemount 560 [Ifotec HXQ] series is designed to transmit all the video and data signals that are necessary for the correct control of pan, tilt and zoom cameras and domes.

The miniature transmitter unit multiplexes a single 10bit encoded digital video signal [1310nm], bi-directional data [1550nm] and a contact alarm signal over a single optical fibre. The unit sits comfortably in the camera housing and is powered off a 12vDC feed.

The 3U receiver unit de-multiplexes the signals and is available as a single receiver or a dual channel receiver [shown]. This is also available as stand alone unit for single links.

Available for multimode or singlemode fibre the unit allow secure video transmission, alarm and data control signals to be sent over a distance of 10km and 50km respectively.



These modules are completely transparent and can transmit all video signal types [NTSC, PAL or SECAM] and their associated data control system [RS232 and RS485, 2 or 4 wires]. Data configuration can be modified by the user via a back panel switch on the rear of the unit. The transmitter is automatically configured by the receiver. RS484 4wire is the factory default setting.

With an operating temperature range of -10°C to +65°C and with data port protection of 30 KV ESD on both the transmitter and receiver unit they are ideal for harsh and electronically noisy applications.

**Tunnel & Viaduct Applications  
Highways Surveillance  
Secure Area Monitoring**

VIDEO	
Video Channels	1 [Pal, Secam, NTSC]
Digitisation	10bit
Input/output video level	1 V pp
Input/output impedance	75 Ω
Signal / Noise ratio	> 70 dB (weighted)
Bandwidth	6.5 MHz
Differential phase / gain	< 2 ° / 2 % typical.
Double output video	Auxiliary output for AID
Optical Power / Budget	- 14 to -8dBm / 18dB

DATA	
Signal Type	RS232, RS485 2 or 4 wire
Data Format	NRZ, NRZI, Manchester, Bi-phase
Number of Channels	1 x RS485 or 2 x RS232
Rate	DC - 115.2 kbps
Operating Mode	half-duplex or full-duplex
Configuration	On the receiver
Transmitter Protection	30 KV ESD
Receiver Protection	30 KV ESD, 3 KV surgeEN 61000-4-5

Contact Switch	
No. of Channels	1 in video direction
Signal Type	Contact switch
Trans. Open Voltage	3.3V DC
Transmitter Activation	Ground
Trans. Max. Current	5 mA
Receiver Contact	NO/NC/Common*
Contact Resistance	200 mΩ
Max voltage (open contact)	48 VDC
Max current (closed contact)	< 200 mA

Connectors	Housing
SC Optical Connector	Miniature 60x 55x 24mm
BNC Video Connector	Stand Alone 167x125x45mm
Terminal Block - Data	Operating temperature -10 + 60°C
Terminal Block - Contact	Storage temperature - 40 + 85°C
Terminal Block- 9-36VDC [150mA at 12V] Power	Relative humidity : 0 to 85 % (non condensing)

## Technical Data Sheet

<b>Part No.</b> 560 Series	<b>DRAWN:</b> CRP	<b>ISSUE:</b> A	<b>CHECKED:</b> ML	<b>DATE:</b> 05/05/07
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<b>Description:</b> Fibre Optic Video Transmission	<b>Dimensions in millimetres unless otherwise stated. Do not scale.</b>
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