

# HXQ-8V2D-VB series

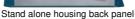
- 8 unidirectional video channels
- 2 bi-directional data channel
- Alarm signal via contact terminal





Rack-mount housing 14 TE

000



## **DESCRIPTION**:

HXQ-8V2D-VB series are especially designed to transmit all video and data signals that are necessary for a correct use of 2 PTZ or fixed cameras and domes.

The HXQE-8V2D transmitter muxes four video, two identical bi-bidirectional data and one contact terminal alarm over one optical fibre.

The receiver HXQR-8V2D-VB demuxes these signals.

HXQ modules enable digital transmission of 8-bit encoded video.

The module has been specifically designed for:

- Transport Infrastructures
- Industrial or hazardous sites

This equipment is completely transparent and sends all video signal types (NTSC, PAL or SECAM) and their associated control system (RS232 and RS485, 2 or 4 wires). Data configuration is executable or modifiable directly on modules by the user, thanks to a switch on the back panel.

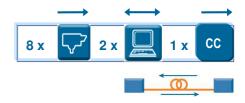
In default, data is configured in our premises in RS485 4 wires.

This equipment is available in stand alone housing or in rackmount housing (14TE) fully compatible with 19"3U rack and upon request in 19"1U rack version.

#### Upon request :

Supervision of modules by the back panel of 19"3U rack and by the IFOTEC rack-mount housing of supervision Use of CWDM lasers according to the ITU grid allowing - Insertion on the network until 8 video data equipment

- Signals multiplexing with other applications (data, audio, Ethernet...).



#### **FUNCTION**

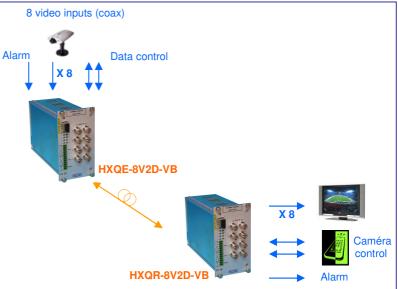
 Video and data transmission over one optical fibre up to 50 km, even in an electronically disturbed environment.

### KEY FEATURES

- 8-bit Digital Video.
- Point to point connection over 1 optical fibre for unidirectional video signals and two-way data.
- Transmission distance up to 50 km over singlemode fibre (for longer distance, please consult us)
- Transmission distance up to 1 km over multimode fibre (5 km over high performance fibre)
- One unidirectional contact terminal for the alarm signal transmission (video direction).
- Simplified wiring: Data paralleling by the 3U rack back panel.
- Data port protection :
- 30 KV ESD and 3 KV surge protection.
- A circuit allows to compensate automatically for the cables losses in entry of optical transmitters.
- DIN rail mounting (option)

Place of production and after sales service: Voiron (France)

#### Product warranty : 3 years



Contact : IFOTEC - BP 247 - 38507 VOIRON Tél : + 33 (0) 476 67 53 53 Fax : + 33 (0) 476 67 53 99 Site : www.ifotec.com E-Mail : contact@ifotec.com

HXQ-8V2D series

Signal specifications						
VIDEO			DATA			
Number of channels Signal type Digitisation Input/output video level Input/output impedance Signal/noise ratio Bandwidth Differential phase Differential gain	8 unidirectional channels pal, secam, NTSC 8 bits 1 V C to C 75 $\Omega$ > 70 dB 6.5 MHz < 2 ° < 2 % typ.	Si Di R: O C	umber of channels ignal type ata Format ate perating mode onfiguration rotection	2 identical bi-directional data RS232, RS485 2 fils or 4 fils NRZ, NRZI, Manchester, Bi-phase DC - 115.2 kbps half-duplex or full-duplex By DIP switch on back side 30 KV ESD, 3 KV surge protection, EN 61000-4-5		
Contact closure						
TRANSMITTER : INPUT			RECEIVER : RELAY			
umber of channel 1 unidirectional channel (video gnal type Contact closure 3.3 VDC ctivation Ground 5 mA		C M M	ontact ontact resistance lax voltage (open contact) lax current (closed contact) * <b>Normally Open / Normally Closed / Co</b>	NO/NF/Common* 200 mΩ 48 VDC < 200 mA ed / Common		
Optical specifications				1		
Fibre	0.64		Optical budget max	Di	istance*	
μm	μm Série		dB		km	
Multimode (62.5/125) Standar		rd	13		1**	
	Standa	rd	13		35	
Monomode (9/125)	Extende	ed	19		50	
** Distance for			stance may also be limited because of the 810nm. Up to 5Km over high performance		n)	
Indicators         Multiplexer       D         video : video presence (8)       D         data : Tx/RX data traffic (2)       D         laser on : optical emission       D         error : transmission error       D						
Connectors		Por	Power supply			
Video connector : BNC     P       Data connector : screw terminal blocks     P       Contact closure connector : screw terminal blocks     P			Power connector : Power supply 9-36 VDC : screw terminal block Power consumption : 660mA @ 12 VDC Power supply 230 VAC : external power converter 230 VAC-12 VDC, ref. FCAS 210 100			
			Environment			
DIN rail mounting : : kit of mounting ref. KIT-RD-003 - Rack-mount housing : 14 TE - 19"1U rack : Please contact us S R			<ul> <li>Operating temperature :</li> <li>Stand alone housing : -10 ; + 60°C</li> <li>Rack-mount housing : -10; + 50°C (+60°C under conditions)</li> <li>Storage temperature : - 40 ; + 85°C</li> <li>Relative humidity : 0 to 85 % (non condensing)</li> <li>Conformal coating option : 0 to 95%. Please add the suffix -C in the end of codification</li> </ul>			
PART NUMBERS	<u>.</u>					
Housing type		Power	Amplications		0	
Video multiplexer vi	deo demultiplexer	supply	Applications Connec		Connection	

				Connection			
Video multiplexer	video demultiplexer	supply	supply Applications				
Stand alone housing							
HXQE 334 36A-8V2D-VB	HXQR 534 36A-8V2D-VB	9-36 VDC	Multimode up to 1 km	LC/PC			
HXQE 33L 36A-8V2D-VB	HXQR 53L 36A-8V2D-VB	9-36 VDC	Singlemode up to 35 km	LC/PC			
HXQE 23L 36A-8V2D-VB	HXQR 43L 36A-8V2D-VB	9-36 VDC	Singlemode up to 50 km	LC/PC			
Rack-mount housing 14 TE							
HXQE 344 30A-8V2D-VB	HXQR 544 30A-8V2D-VB	Rack 19" 3 U	Multimode up to 1 km	LC/PC			
HXQE 34L 30A-8V2D-VB	HXQR 54L 30A-8V2D-VB	Rack 19'' 3 U	Singlemode up to 35 km	LC/PC			
HXQE 24L 30A-8V2D-VB	HXQR 44L 30A-8V2D-VB	Rack 19" 3 U	Singlemode up to 50 km	LC/PC			

In line with the company policy of continuous improvement, product specifications are subject to change without prior notice

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