

VDO-20101FDET/R

Fiber Optic Video & Data Transmission 2-Channel Video + 1 Duplex Data + 1 Ethernet/IP



System Design

Fiber Optic Video & Data Transmitter & Receiver VDO-20101FDET/R cantransmission 2-Channel digital composite video, 1 duplex data, and 10M/100M Ethernet, Data support RS485, RS232, RS422 protocols. Ideal for Broadcast / Studio, CCTV and Professional AV applications.



Stand-alone or rack-mount. All units of VDO-20101FDET/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VDO-CH04).



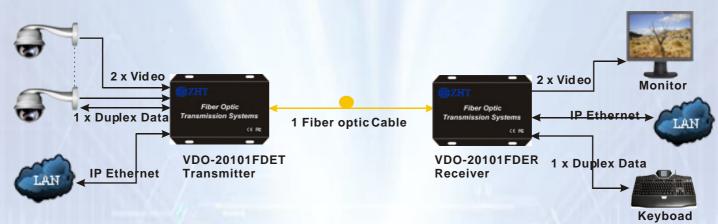
Single-Mode or Multi-Mode, VDO-20101FDET/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.



Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Data support RS485(2-wire or 4-wire), RS232, RS422, Contact Closure
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Support Coarse Wavelength Division Multiplexing (CWDM)
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM

Typical Configuration













Video & Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver	ribel Mode	wavelengths	Budget	Distance
VDO-20101FDEMT	VDO-20101FDEMR	Multi-Mode	1310nm/1550nm	16dB	2.0km
VDO-20101FDEST	VDO-20101FDESR	Single-Mode	1310nm/1550nm	12dB	20km

Note:

- The Optical Power Budget data fit Mulit-mode (62.5/125 μ m), Single-Mode (9/125 μ m).
- When using $50/125~\mu m$ multimode fiber, subtract 3 dB from the optical power budget.
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables. Power adapter included (for standalone) US, European, UK or Australian power plug.
- Please feel free to consult factory for any special requirement and customization

Specification

• Video		• Connectors		
Number of Channels: 2-Channels: Input/output impedance: BNC 75% Input/output Compatibility: PAL, NT Input/output voltage: 1.0 Volt Bandwidth: 6.5MHZ Bit Resolution: 8-Bit Di Differential Gain: < 1.5% Differential Phase: < 1.5° Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB	BNC 75Ω PAL, NTSC, SECAM 1.0 Voltp-p	Data: Optical:	75Ω BNC (Gold Center Pin) Terminal Block FC (standard), ST Optional Screw terminal block AC line cord	
		• Electrical & Mechanical		
		Input Power Requirements: Power Adapter:		
• Data		Power Consumption: Stand-Alone Dimensions:	< 3W 142mm × 107mm × 25mm	
	RS485(2-wire or 4-wire), RS232/422,Contact Closure	Card for 4U Rack Dimensions: Shipping Weight:	145mm × 170mm × 20mm 1.8kg (include TX & RX)	
	Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9			
• Ethernet/IP		Operating Temperature: Storage Temperature:		
Data Rate:	Standard: Ethernet IEEE 802.3 Data Rate: 10/100 Mbps Connector: RJ-45, Auto MDI/MDI-X			

Due to continuous improvement, all products specifications are subject to change without further notice.

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