

Fiber Optic Video & Data Transmission

4-Channel Video + 1 Duplex Data + 1 Ethernet/IP

4
Video

System Design

Fiber Optic Video & Data Transmitter & Receiver
VDO-40101FDET/R can transmission 4-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.

Audio

Stand-alone or rack-mount. All units of VDO-40101FDET/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VDO-CH04).

1
Data

Single-Mode or Multi-Mode, VDO-40101FDET/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.

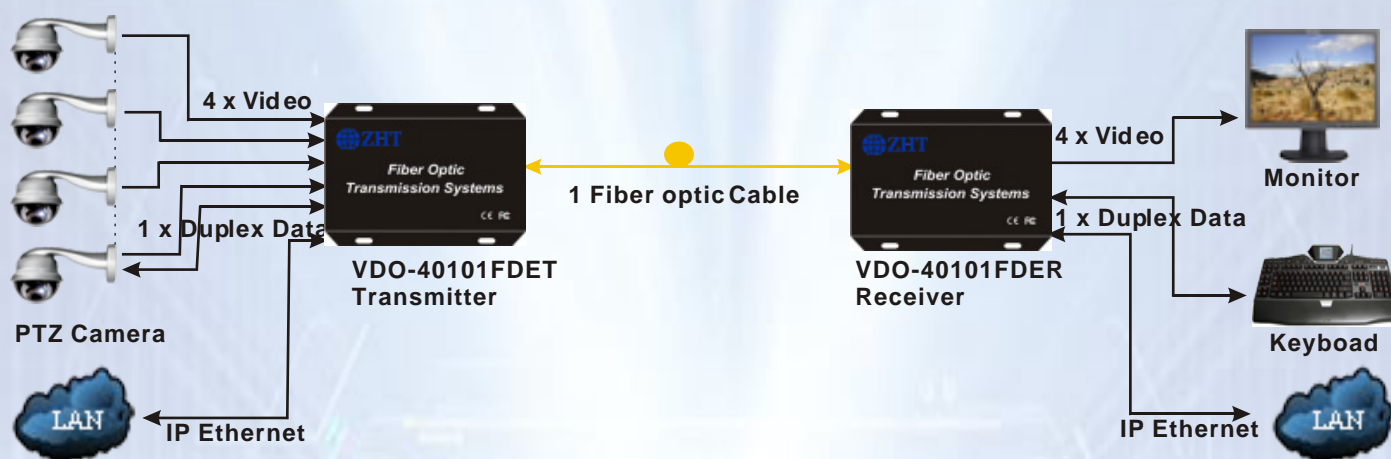
1
Ethernet

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 Budget | Maximum Transmission Distance |
|----------------|----------------|-------------|---------------|----------------------|-------------------------------|
| Transmitter | Receiver | | | | |
| VDO-40101FDEMT | VDO-40101FDEMR | Multi-Mode | 1310nm/1550nm | 12dB | 1.5km |
| VDO-40101FDEST | VDO-40101FDESR | Single-Mode | 1310nm/1550nm | 12dB | 20km |

Note:

- The Optical Power Budget data fit Mult-mode(62.5/125 μ m), Single-Mode(9/125 μ m).
- When using 50/125 μ 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: 4-Channel Video Input/output impedance: BNC 75 Ω Input/output Compatibility: PAL, NTSC, SECAM Input/output voltage: 1.0 Volt p-p Bandwidth: 6.5MHZ Bit Resolution: 8-Bit Digital Transmission Differential Gain: < 1.5% Differential Phase: < 1.5° Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB | Video: 75 Ω BNC (Gold Center Pin) Data: Terminal Block Optical: FC (standard), ST Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord |
| • Data | • Electrical & Mechanical |
| Data Formats: RS485(2-wire or 4-wire), RS232/422, Contact Closure Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9 | Input Power Requirements: DC 5V@3A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 176.5mm \times 158mm \times 36mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 2.2kg (include TX & RX) |
| • Ethernet/IP | • Environmental |
| Standard: Ethernet IEEE 802.3 Data Rate: 10/100 Mbps Connector: RJ-45, Auto MDI/MDI-X | Operating Temperature: -45° C ~ +75° C Storage Temperature: -45° C ~ +85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours |

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