

### Fiber Optic Video & Audio & Data Transmission

1-Channel Video + 1 Simplex Audio + 1 Duplex Data over Fiber

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Video

#### System Design

Fiber Optic Video & Audio & Data Transmitter / Receiver  
VDO-1110FFDT/R provides for the digital transmission of 1-Channel Composite Video and 1 Simplex audio and 1 duplex data. Data support RS485, RS232, RS422 protocols. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

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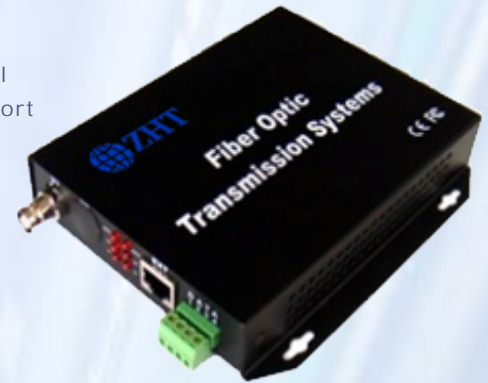
Audio

Stand-alone or rack-mount. All units of VDO-1110FFDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VDO-CH04).

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Data

Single-Mode or Multi-Mode, VDO-1110FFDT/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.

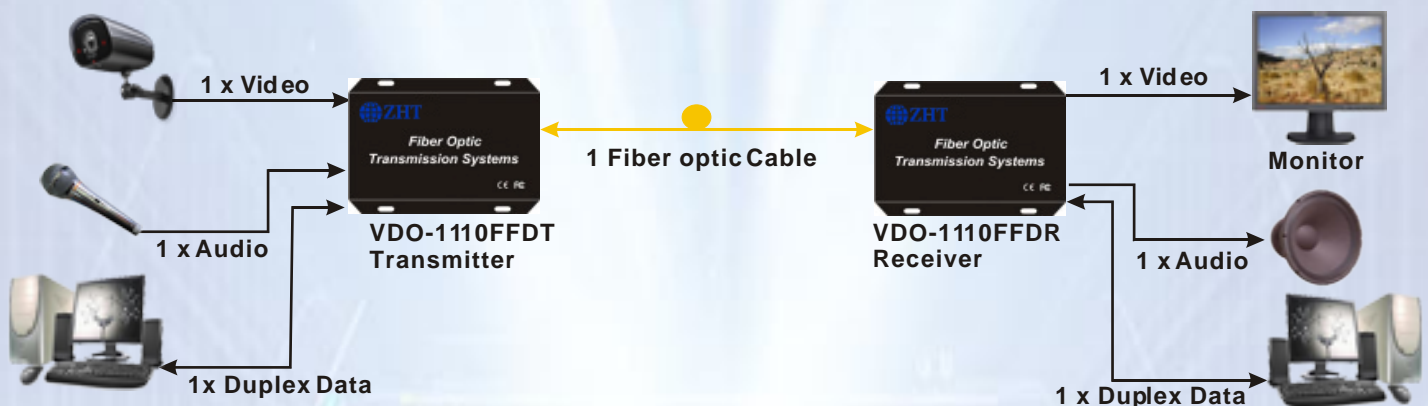


Ethernet

#### Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 24-Bit Digitally Encoded Audio 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 & Audio & Data over Fiber

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VDO-1110FFDMT	VDO-1110FFDMMR	Multi-Mode	1310nm/1550nm	16dB	2km
VDO-1110FFDST	VDO-1110FFDSR	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

<p><b>• Video</b></p> <p>Number of Channels: 1-Channel Video            Input/output impedance: BNC 75Ω            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: &lt; 1.5%            Differential Phase: &lt; 1.5°            Tilt: &lt; 5%            Signal-to-Noise Ratio(SNR): &gt; 67 dB</p>	<p><b>• Connectors</b></p> <p>Video: 75Ω BNC (Gold Center Pin)            Audio: Terminal Block            Data: Terminal Block            Optical: FC (standard), ST Optional            Stand-Alone Power: Screw terminal block            Rack Power: AC line cord</p>
<p><b>• Audio</b></p> <p>Number of Channels: 1-Channel Simplex Audio            Audio input/output Level: 6 dBm            Audio in/output impedance: 600Ω Balanced/Unbalanced            Bandwidth: 10Hz ~ 20KHz            Bit Resolution: 24-Bit            Signal-to-Noise Ratio(SNR): &gt; 80 dB</p>	<p><b>• Electrical &amp; Mechanical</b></p> <p>Input Power Requirements: DC 5V@2A            Power Adapter: AC 100V~240V            Power Consumption: &lt; 3W            Stand-Alone Dimensions: 142mm × 107mm × 25mm            Card for 4U Rack Dimensions: 145mm × 170mm × 20mm            Shipping Weight: 1.8kg (include TX &amp; RX)</p>
<p><b>• Data</b></p> <p>Data Formats: RS485(2-wire or 4-wire), RS232/422, Contact Closure            Data Rate: DC to 115.2Kbps            Bit Error Rate: 10E-9</p>	<p><b>• Environmental</b></p> <p>Operating Temperature: -45° C~+75° C            Storage Temperature: -45° C~+85° C            Relative Humidity: 0%~95% (non-condensing)            MTBF: &gt;100,000 hours</p>

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

**Contact us for custom requirements. E-mail: [Sales@zhtelecomm.com](mailto:Sales@zhtelecomm.com) Website: [www.zhtelecomm.com](http://www.zhtelecomm.com)**

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