

Fiber Optic Video & Audio Transmission 2-Channel Duplex Video + 1 Duplex Audio over Fiber

2
Video

System Design

Fiber Optic Video & Audio Transmitter & Receiver VDO-2100DDT/R provides for the digital transmission of 2-Channel Composite Duplex Video and 1-Channel Duplex audio. Ideal for Broadcast/Studio, CCTV audio and Professional AV applications.

1
Audio

Stand-alone or rack-mount. All units of VDO-2100DDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VDO-CH04).



Data

Single-Mode or Multi-Mode, VDO-2100DDT/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.

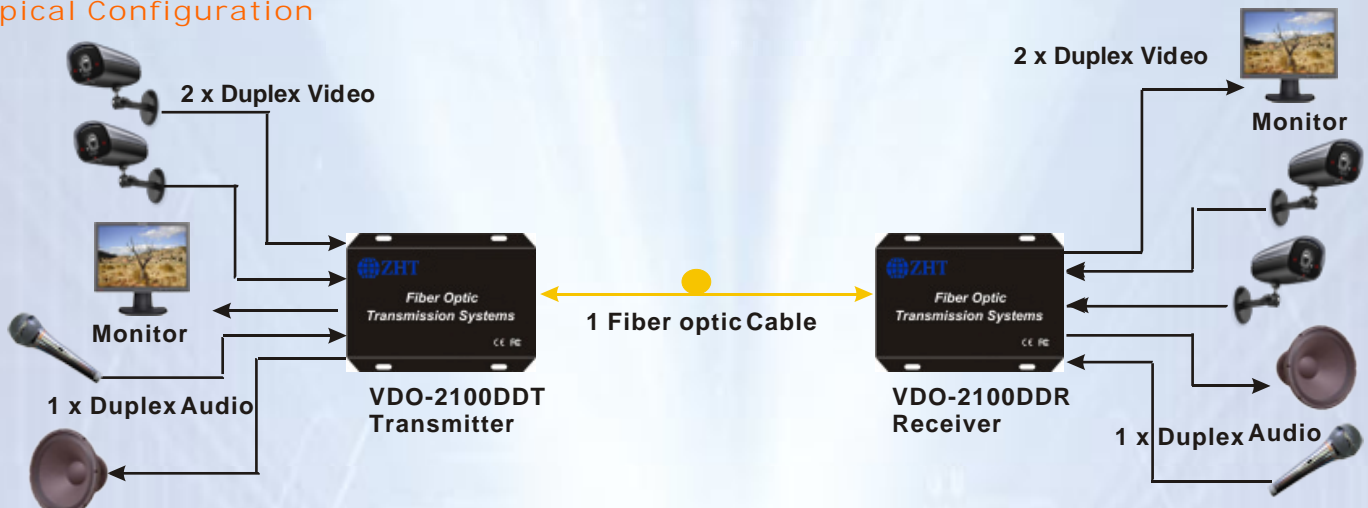


Ethernet

Features

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

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VDO-2100DDMT	VDO-2100DDMR	Multi-Mode	1310nm/1550nm	16dB	2km
VDO-2100DDST	VDO-2100DDSR	Single-Mode	1310nm/1550nm	12dB	20km
VDO-2100DDST-4	VDO-2100DDSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VDO-2100DDST-6	VDO-2100DDSR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Multi-mode(62.5/125 μm), Single-Mode(9/125 μm).
- When using 50/125 μm 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

<ul style="list-style-type: none"> • Video <ul style="list-style-type: none"> Number of Channels: 2-Channel Duplex 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: < 1.5% Differential Phase: < 1.5° Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB • Audio <ul style="list-style-type: none"> Number of Channels: 1 Channel Duplex 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): > 80 dB 	<ul style="list-style-type: none"> • Connectors <ul style="list-style-type: none"> Video: 75Ω BNC (Gold Center Pin) Audio: Terminal Block Optical: FC (standard), ST Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord • Electrical & Mechanical <ul style="list-style-type: none"> Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 142mm × 107mm × 25mm Card for 4U Rack Dimensions: 145mm × 170mm × 20mm Shipping Weight: 1.8kg (include TX & RX) • Environmental <ul style="list-style-type: none"> Operating Temperature: -45° C~+75° C Storage Temperature: -45° C~+85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours
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Due to continuous improvement, all products specifications are subject to change without further notice.

Contact us for custom requirements. E-mail: Sales@zhtelecomm.com Website: www.zhtelecomm.com

Tel: +86-01081593787

Fax: +86-01081593789