VDO-1100FDT/R

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

1 Video

1 Audio

Data

Ethernet

System Design

Fiber Optic Video & Audio Transmitter & Receiver VDO-1100FDT/R providesfor the digital transmission of 1-Channel Composite Video and 1-Channel Duplex audio. Ideal for Broadcast/Studio ,CCTV audio and Professional AV applications.

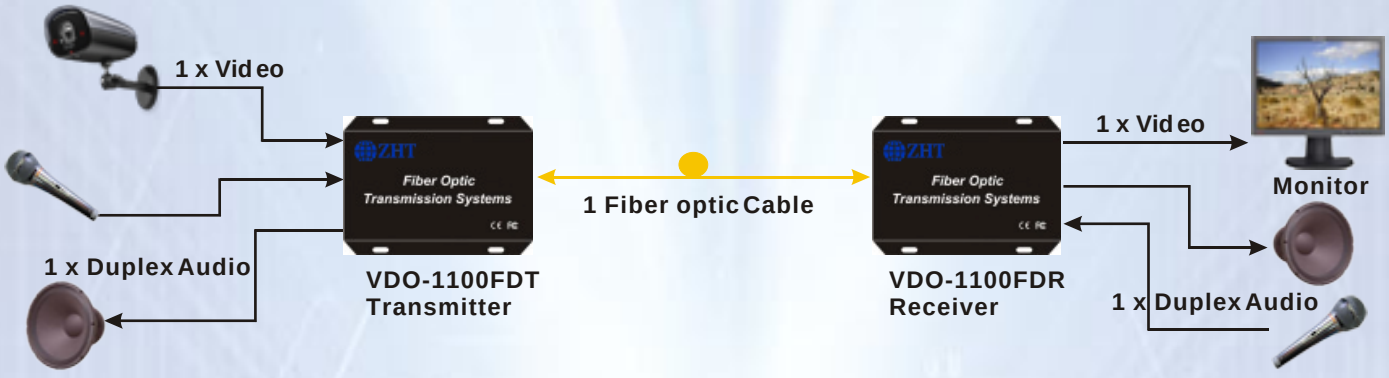
Stand-alone or rack-mount. All units of VDO-1100FDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VDO-CH04).

Single-Mode or Multi-Mode,VDO-1100FDT/R cansupport 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
- 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-1100FDMT	VDO-1100FDMR	Multi-Mode	1310nm/1550nm	16dB	2km
VDO-1100FDST	VDO-1100FDSR	Single-Mode	1310nm/1550nm	12dB	20km
VDO-1100FDST-4	VDO-1100FDSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VDO-1100FDST-6	VDO-1100FDSR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-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

• Video

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:	< 1.5%
Differential Phase:	< 1.5°
Tilt:	< 5%
Signal-to-Noise Ratio(SNR):	> 67 dB

• Audio

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

• Connectors

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

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

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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