

Fiber Optic Video Transmission for Fixed Cameras 48-Channel Composite Video over Fiber

48 →
Video

System Design

Fiber Optic Video Transmitter & Receiver VDO-48000FT/R can transmission 48-Channel digital composite video over one fiber, Support Coarse Wavelength Division Multiplexing (CWDM) designed for *Fixed Cameras*.

Audio

Only support Stand-alone 19 inch 2U Rack. All units of VDO-48000FT/R can not be used by video card style.

Data

Only support Single-Mode. VDO-48000FT/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. Manufacturer's standard is: Single-mode 20km.

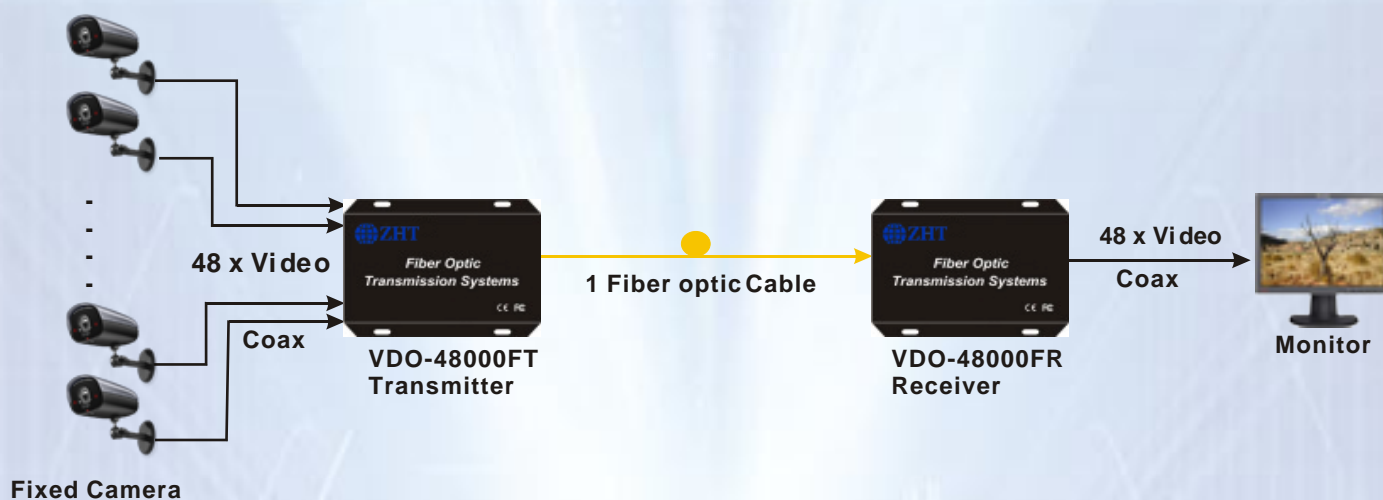


Features

Ethernet

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- Single-Mode Fiber Support for Distances up to 20 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 19inch 2U Rack
- Produce according to customer's specifications, providing OEM

Typical Configuration



Composite Video over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VDO-48000FST	VDO-48000FSR	Single-Mode	1430nm ~ 1550nm	10dB	20km

Note:

- The Optical Power Budget data fit Single-Mode(9/125 μ m).
- 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: 48-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

• Environmental

Operating Temperature: -45° C ~ +75° C
 Storage Temperature: -45° C ~ +85° C
 Relative Humidity: 0%~95% (non-condensing)
 MTBF: >100,000 hours

• Connectors

Video: 75 Ω BNC (Gold Center Pin)
 Optical: FC (standard), ST Optional
 Stand-Alone Power: Screw terminal block
 Rack Power: AC line cord

• Electrical & Mechanical

Input Power Requirements: DC 5V@6A
 Power Adapter: AC 100V~240V (Built-in)
 Power Consumption: < 20W
 Stand-Alone Dimensions: 483mm × 250mm × 89mm
 Shipping Weight: 12kg (include TX & RX)

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