

### Fiber Optic Video Transmission for Fixed Cameras 4-Channel Composite Video over Fiber

4 →  
Video

#### System Design

Fiber Optic Video Transmitter & Receiver VDO-4000FT/R can transmission 4-Channel digital composite video fiber optical cable for fixed camera, no audio, no data.

Audio

Stand-alone or rack-mount. All units of VDO-4000FT/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-4000FT/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.

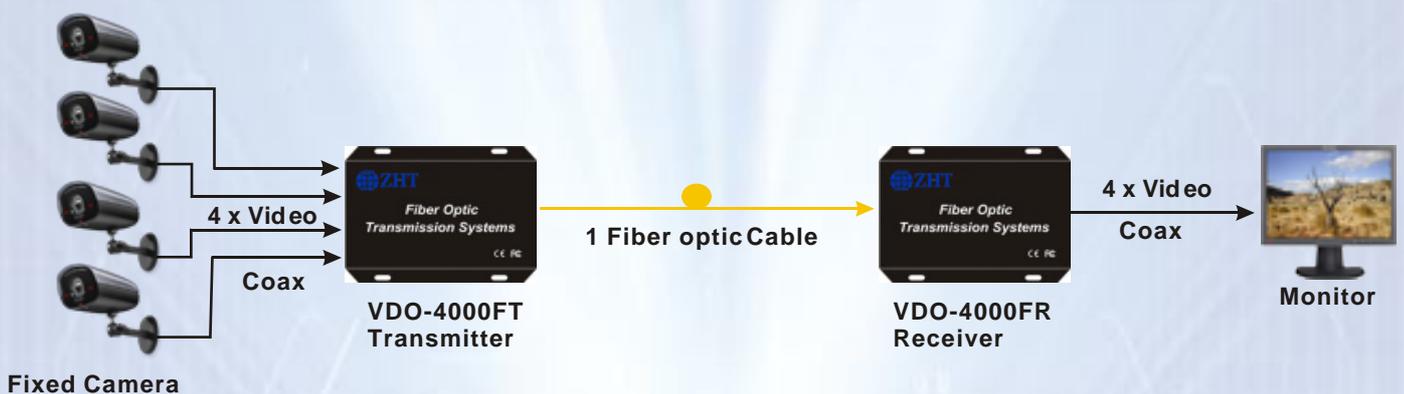


Ethernet

#### Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 1.5 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





# Composite Video over Fiber

## Ordering Information

| Model Number  |               | Fiber Mode  | Wavelengths | Optical Power Budget | Maximum Transmission Distance |
|---------------|---------------|-------------|-------------|----------------------|-------------------------------|
| Transmitter   | Receiver      |             |             |                      |                               |
| VDO-4000FMT   | VDO-4000FMR   | Multi-Mode  | 1310nm      | 12dB                 | 1.5km                         |
| VDO-4000FST   | VDO-4000FSR   | Single-Mode | 1310nm      | 12dB                 | 20km                          |
| VDO-4000FST-4 | VDO-4000FSR-4 | Single-Mode | 1310nm      | 18dB                 | 40km                          |
| VDO-4000FST-6 | VDO-4000FSR-6 | Single-Mode | 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"> <li>• Video           <ul style="list-style-type: none"> <li>Number of Channels: 4-Channel Video</li> <li>Input/output impedance: BNC 75Ω</li> <li>Input/output Compatibility: PAL, NTSC, SECAM</li> <li>Input/output voltage: 1.0 Volt p-p</li> <li>Bandwidth: 6.5MHZ</li> <li>Bit Resolution: 8-Bit Digital Transmission</li> <li>Differential Gain: &lt; 1.5%</li> <li>Differential Phase: &lt; 1.5°</li> <li>Tilt: &lt; 5%</li> <li>Signal-to-Noise Ratio(SNR): &gt; 67 dB</li> </ul> </li> <li>• Environmental           <ul style="list-style-type: none"> <li>Operating Temperature: -45° C ~ +75° C</li> <li>Storage Temperature: -45° C ~ +85° C</li> <li>Relative Humidity: 0% ~ 95% (non-condensing)</li> <li>MTBF: &gt; 100,000 hours</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Connectors           <ul style="list-style-type: none"> <li>Video: 75Ω BNC (Gold Center Pin)</li> <li>Optical: FC (standard), ST Optional</li> <li>Stand-Alone Power: Screw terminal block</li> <li>Rack Power: AC line cord</li> </ul> </li> <li>• Electrical &amp; Mechanical           <ul style="list-style-type: none"> <li>Input Power Requirements: DC 5V@3A</li> <li>Power Adapter: AC 100V~240V</li> <li>Power Consumption: &lt; 5W</li> <li>Stand-Alone Dimensions: 176.5mm × 158mm × 36mm</li> <li>Card for 4U Rack Dimensions: 145mm × 170mm × 20mm</li> <li>Shipping Weight: 2.2kg (include TX &amp; RX)</li> </ul> </li> </ul> |
|---|---|

**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)**  
**Tel: +86-01081593787 Fax: +86-01081593789**