

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

**4** →  
Video

#### System Design

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

*Stand-alone or rack-mount.* All units of VOS-4000FT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

*Single-Mode or Multi-Mode,* VOS-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.



Audio

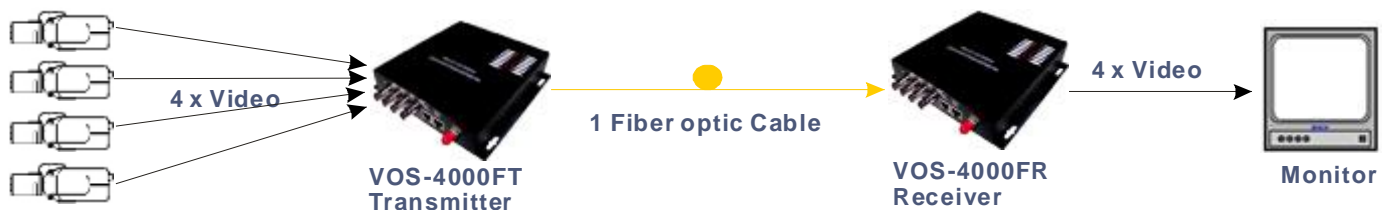
Data

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



# Fiber Optic Video Transmission

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-4000FMT	VOS-4000FMR	Multi-Mode	1310nm	12dB	1.5km
VOS-4000FST	VOS-4000FSR	Single-Mode	1310nm	12dB	20km
VOS-4000FST-4	VOS-4000FSR-4	Single-Mode	1310nm	18dB	40km
VOS-4000FST-6	VOS-4000FSR-6	Single-Mode	1550nm	25dB	60km

### Note:

- The Optical Power Budget data fit Multit-mode(62.5/125  $\mu$  m),Single-Mode(9/125  $\mu$  m).
- When using 50/125  $\mu$  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

<ul style="list-style-type: none"> <li>• <b>Video</b></li> </ul> <p>Number of Channels: 4-Channel Video                      Input/output impedance: BNC 75 <math>\Omega</math>                      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>	<ul style="list-style-type: none"> <li>• <b>Connectors</b></li> </ul> <p>Video: 75 <math>\Omega</math> BNC                      Optical: FC , ST Optional                      Stand-Alone Power: Screw terminal block                      Rack Power: AC line cord</p>
	<ul style="list-style-type: none"> <li>• <b>Electrical &amp; Mechanical</b></li> </ul> <p>Input Power Requirements: DC 5V@3A                      Power Adapter: AC 100V~240V                      Power Consumption: &lt; 5W                      Stand-Alone Dimensions: 176.5mm × 158mm × 36mm                      Card for 4U Rack Dimensions: 145mm × 170mm × 20mm                      Shipping Weight: 2.2kg (include TX &amp; RX)</p>
	<ul style="list-style-type: none"> <li>• <b>Environmental</b></li> </ul> <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>