

Fiber Optic Video Transmission for Fixed Cameras 1-Channel Composite Video

1 → Video

System Design

Fiber Optic Video Transmitter & Receiver VOS-1000FT/R can transmission 1-Channel digital composite video for fixed camera, no audio, no data.

Stand-alone or rack-mount. All units of VOS-1000FT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 2U rack-mountable card cage (VOS-CH02).

Single-Mode or Multi-Mode, VOS-1000FT/R only can support FC /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

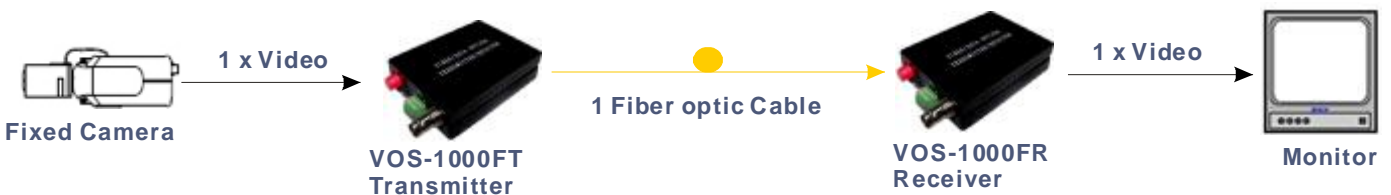
Data

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 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



Fiber Optic Video Transmission

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1000FMT	VOS-1000FMR	Multi-Mode	1310nm	16dB	2km
VOS-1000FST	VOS-1000FSR	Single-Mode	1310nm	12dB	20km
VOS-1000FST-4	VOS-1000FSR-4	Single-Mode	1310nm	18dB	40km
VOS-1000FST-6	VOS-1000FSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Multi-mode(62.5/125 μ m), Single-Mode(9/125 μ m).
- When using 50/125 μ 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"> • Video <p> Number of Channels: 1-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 </p>	<ul style="list-style-type: none"> • Connectors <p> Video: 75 Ω BNC Optical: FC (standard) Stand-Alone Power: Screw terminal block Rack Power: AC line cord </p>
	<ul style="list-style-type: none"> • Electrical & Mechanical <p> Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 95mm \times 70mm \times 25mm Card for 2U Rack Dimensions: 95mm \times 70mm \times 25mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 1.2kg (include TX & RX) </p>
	<ul style="list-style-type: none"> • Environmental <p> Operating Temperature: -45° C~+75° C Storage Temperature: -45° C~+85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours </p>