

10-Bit Digitally Encoded Fiber Optic Video Transmission 16-Channel Composite Video

16
Video

System Design

10-Bit Digitally Encoded Fiber Optic Video Transmitter & Receiver VOS-16000FT/R-10B can transmission 16-Channel 10-Bit Digitally Encoded broadcast quality video that delivers a sharper image with better color quantification and faster, more efficient codecs. It is also designed for *Fixed cameras*.



Audio

Stand-alone or rack-mount. All units of VOS-16000FT/R-10B come in an insert card version. The cards can be inserted into our 14-slot, 19inch 10U rack-mountable card cage (VOS-CH10).



Data

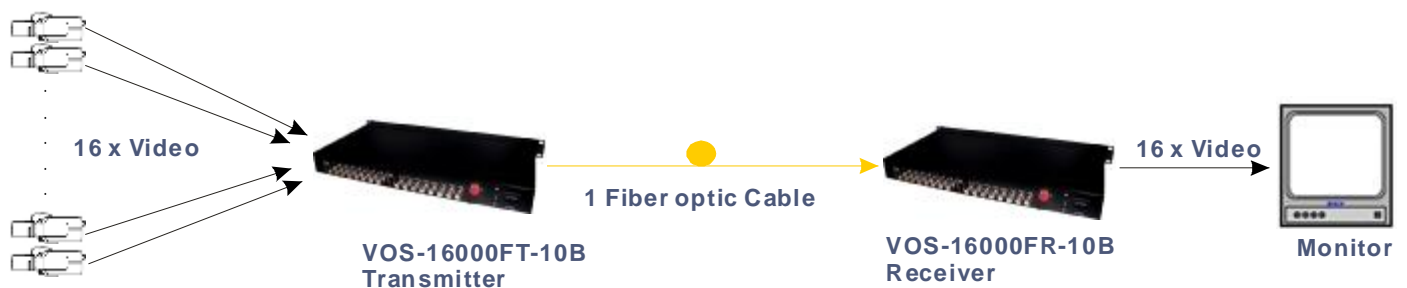
Single-Mode or Multi-Mode, VOS-16000FT/R-10B can support FC or ST Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

Ethernet

Features

- 10-Bit Digitally Encoded Video Transmission
- Support Point-to-Point or Daisy-Chain connection
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 1.0 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



10-Bit Digitally Video Transmission

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-16000FMT-10B	VOS-16000FMR-10B	Multi-Mode	1310nm	10dB	1.0km
VOS-16000FST-10B	VOS-16000FSR-10B	Single-Mode	1310nm	12dB	20km

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: 16-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: 10-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, ST Optional 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@4A Power Adapter: AC 100V~240V Power Consumption: < 10W Stand-Alone Dimensions: 483mm \times 250mm \times 44.5mm Card for 10U Dimensions: 452mm \times 250mm \times 40mm Shipping Weight: 6.0kg (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>