

10-Bit Digitally Encoded Fiber Optic Video Transmission 1-Channel Composite Video

1 → Video

System Design

10-Bit Digitally Encoded Fiber Optic Video Transmitter & Receiver VOS-1000FT/R-10B can transmission 1-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-1000FT/R-10B come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

Data

Single-Mode or Multi-Mode, VOS-1000FT/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.

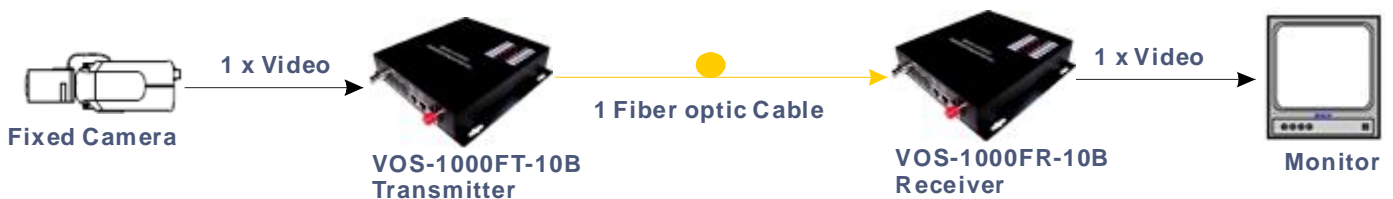
Ethernet

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 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



10-Bit Digitally Video Transmission

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1000FMT-10B	VOS-1000FMR-10B	Multi-Mode	1310nm	16dB	2km
VOS-1000FST-10B	VOS-1000FSR-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: 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: 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@3A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 176.5mm \times 158mm \times 36mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 2.0kg (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>