

Fiber Optic Video & Audio Transmission 4-Channel Video + 4 Duplex Analog Audio over Fiber

4
Video

System Design

Fiber Optic Video & Audio Transmitter & Receiver VOS-4400FDT/R provides for the digital transmission of 4-Channel Composite Video and 4-Channel duplex analog audio over fiber.

4
Audio

Stand-alone or rack-mount. All units of VOS-4400FDT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 4u or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06). One 4-Channel video and 4 duplex audio card require two slots widths.



Data

Single-Mode or Multi-Mode, VOS-4400FDT/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 or Multi-mode 1.5km.

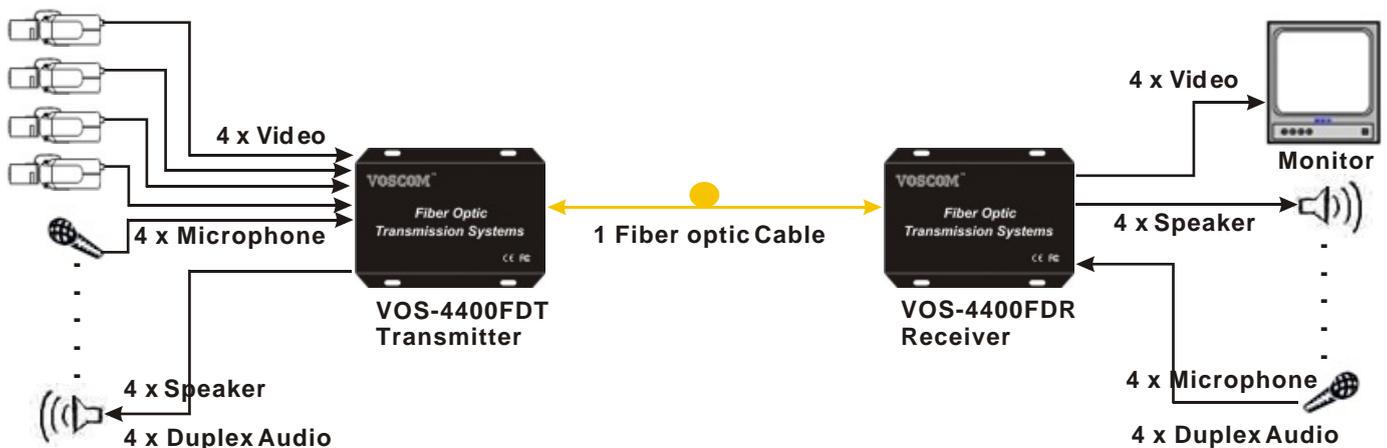


Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 24-Bit Digitally Encoded Audio 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
- Stand alone or rack-mount

Typical Configuration



Video & Audio over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-4400FDMT	VOS-4400FDMR	Multi-Mode	1310nm/1550nm	12dB	1.5km
VOS-4400FDST	VOS-4400FDSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-4400FDST-4	VOS-4400FDSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-4400FDST-6	VOS-4400FDSR-6	Single-Mode	1310nm/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 	<ul style="list-style-type: none"> • Connectors
<ul style="list-style-type: none"> Number of Channels: 4-Channel Video Input/output impedance: BNC 75Ω 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 	<ul style="list-style-type: none"> Video: 75Ω BNC (Gold Center Pin) Audio: Terminal Block Optical: FC/PC or ST/PC Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord
<ul style="list-style-type: none"> • Audio 	<ul style="list-style-type: none"> • Electrical & Mechanical
<ul style="list-style-type: none"> Number of Channels: 4-Channel Duplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600Ω Unbalanced Bandwidth: 20Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB 	<ul style="list-style-type: none"> Input Power Requirements: DC 5V@3A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 176.5mm \times 158mm \times 59mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 45.4mm Shipping Weight: 2.5kg (include TX & RX)
	<ul style="list-style-type: none"> • Environmental
	<ul style="list-style-type: none"> Operating Temperature: -45° C ~ +75° C Storage Temperature: -45° C ~ +85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours