

Fiber Optic Video & Audio & Data Transmission

2-Channel Video + 4 Simplex Audio + 1 Duplex Data over Fiber

2 →

Video

System Design

Fiber Optic Video & Audio & Data Transmitter / Receiver
VOS-2410FFDT/R provides for the digital transmission of 2-Channel Composite Video and 4 Simplex audio and 1 duplex data. Data support RS485, RS232, RS422 protocols. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.

4 →

Audio

Stand-alone or rack-mount. All units of VOS-2410FFDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

← 1 →

Data

Single-Mode or Multi-Mode, VOS-2410FFDT/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.

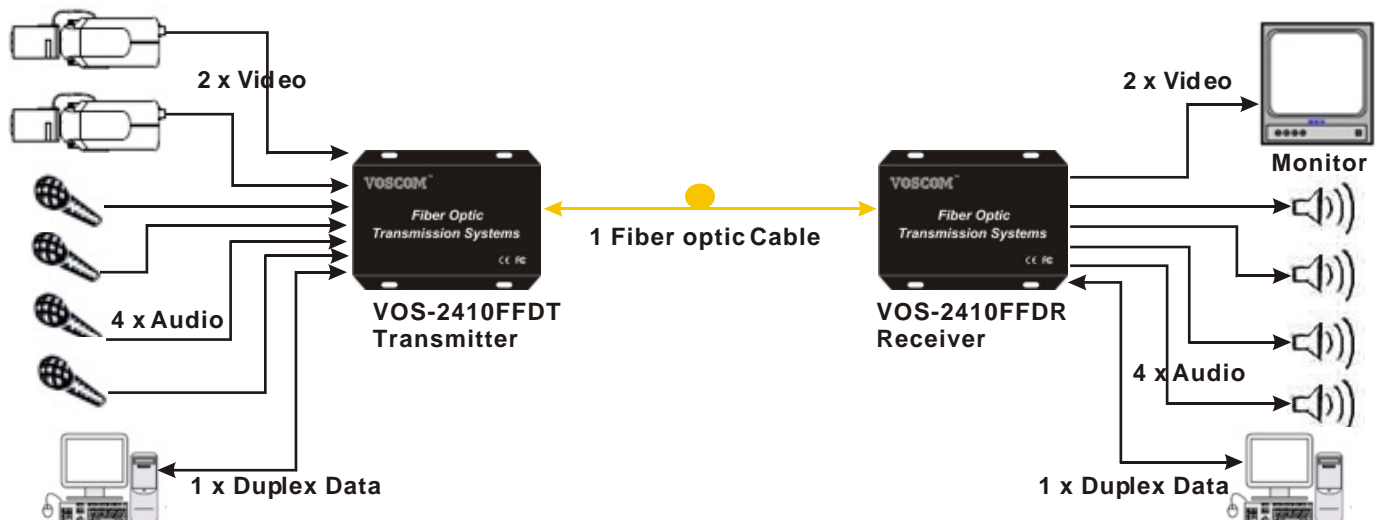


Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 24-Bit Digitally Encoded Audio over one Fiber
- Data support RS485(2-wire or 4-wire), RS232, RS422, Contact Closure
- 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



Video & Audio & Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-2410FFDMT	VOS-2410FFDMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-2410FFDST	VOS-2410FFDSR	Single-Mode	1310nm/1550nm	12dB	20km

Note:

- The Optical Power Budget data fit Multit-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"> Number of Channels: 2-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$^{\circ}$ Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB • Audio <ul style="list-style-type: none"> Number of Channels: 4-Channel Simplex Audio Audio input/output Level: 6 dBm Audio in/output impedance: 600Ω Balanced/Unbalanced Bandwidth: 10Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB • Data <ul style="list-style-type: none"> Data Formats: RS485(2-wire or 4-wire), RS232/422,Contact Closure Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9 	<ul style="list-style-type: none"> • Connectors <ul style="list-style-type: none"> Video: 75Ω BNC (Gold Center Pin) Audio: Terminal Block Data: Terminal Block Optical: FC (standard), ST Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord • Electrical & Mechanical <ul style="list-style-type: none"> Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 142mm \times 107mm \times 25mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 1.8kg (include TX & RX) • Environmental <ul style="list-style-type: none"> Operating Temperature: -45$^{\circ}$ C ~ +75$^{\circ}$ C Storage Temperature: -45$^{\circ}$ C ~ +85$^{\circ}$ C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours
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Due to continuous improvement, all products specifications are subject to change without further notice. Contact us for custom requirements. E-mail: Sales@voscom.com Website: www.voscom.com