

Fiber Optic Video & Audio & Data Transmission

16-Channel Video + 1 Duplex Audio + 1 Duplex Data over Fiber

16
Video

System Design

Fiber Optic Video & Audio & Data Transmitter / Receiver
VOS-16110FDDT/R provides for the digital transmission of 16-Channel Composite Video and 1 Duplex audio and 1 duplex data. Data support RS485, RS232, RS422 protocols. Ideal for Broadcast /Studio, CCTV audio and Professional AV applications.



1
Audio

Stand-alone or rack-mount. All units of VOS-16110FDDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 10U rack-mountable card cage (VOS-CH10).

1
Data

Single-Mode or Multi-Mode, VOS-16110FDDT/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.

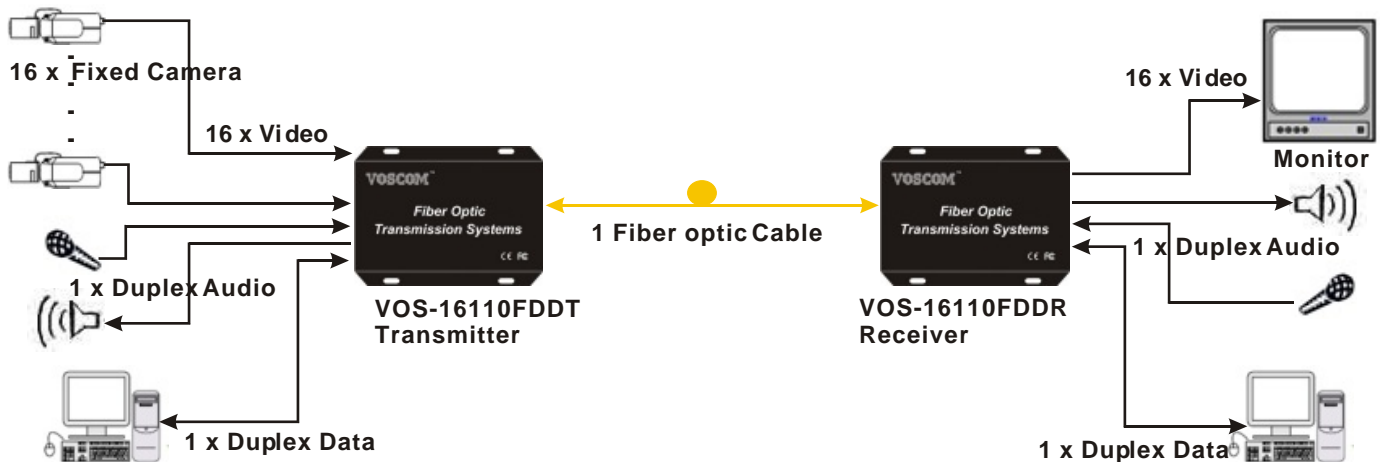


Ethernet

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 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



Video & Audio & Data over Fiber

Ordering Information

| Model Number | | Fiber Mode | Wavelengths | Optical Power Budget | Maximum Transmission Distance |
|----------------|----------------|-------------|---------------|----------------------|-------------------------------|
| Transmitter | Receiver | | | | |
| VOS-16110FDDMT | VOS-16110FDDMR | Multi-Mode | 1310nm/1550nm | 10dB | 1.0km |
| VOS-16110FDDST | VOS-16110FDDSR | Single-Mode | 1310nm/1550nm | 12dB | 20km |

Note:

- The Optical Power Budget data fit Mult-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: 16-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"> • Connectors <ul style="list-style-type: none"> Video: 75Ω BNC (Gold Center Pin) Audio: RJ-45 or Terminal Block Data: RJ-45 or Terminal Block Optical: FC (standard), ST 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"> Number of Channels: 1-Channel Duplex 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 | <ul style="list-style-type: none"> • Electrical & Mechanical <ul style="list-style-type: none"> Input Power Requirements: DC 5V@4A Power Adapter: AC 100V~240V (Built-in) Power Consumption: < 10W Stand-Alone Dimensions: 483mm \times 250mm \times 44.5mm Card for 4U Rack Dimensions: 430mm \times 220mm \times 20mm Shipping Weight: 6.0kg (include TX & RX) |
| <ul style="list-style-type: none"> • 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"> • 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 |

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