VOSCOM

Fiber Optic Video Transmission for Fixed Cameras
16-Channel Composite Video over Fiber

16 → Video

System Design

Fiber Optic Video Transmitter & Receiver VOS-16000FT/R can transmission 16-Channel digital composite video over fiber optical cable for fixed camera, no audio, no data.

Audio

Stand-alone or rack-mount. All units of VOS-16000FT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06). One 16-Channel video card require Three slots widths.

Data

Single-Mode or Multi-Mode, VOS-16000FT/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 1.0km.
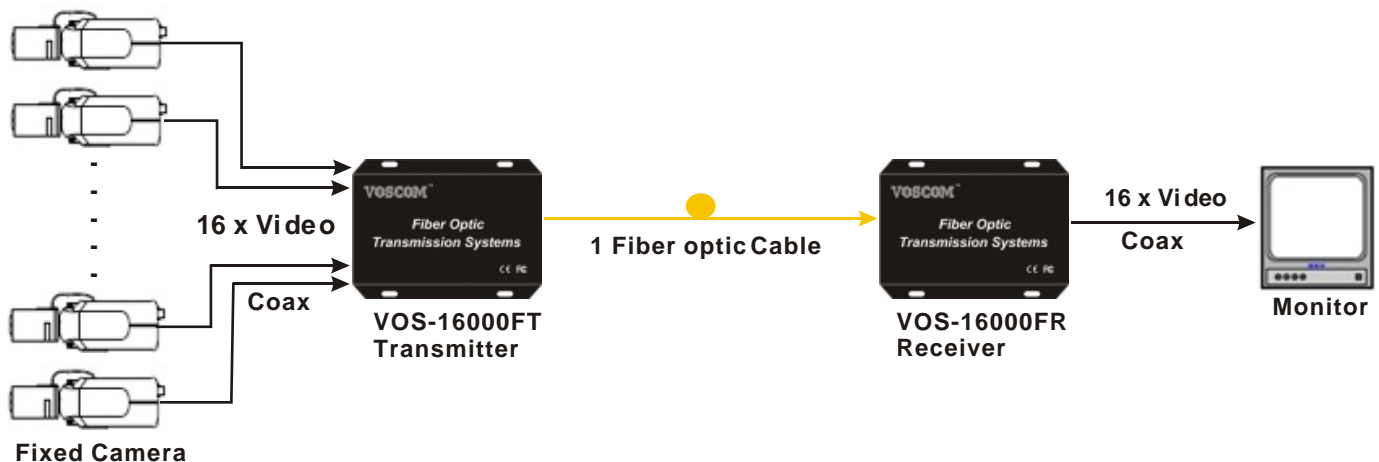
Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 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

Typical Configuration

Fixed Camera

16 x Video

Coax

VOS-16000FT Transmitter

1 Fiber optic Cable

VOS-16000FR Receiver

16 x Video

Coax

Monitor

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-16000FMT	VOS-16000FMR	Multi-Mode	1310nm	10dB	1.0km
VOS-16000FST	VOS-16000FSR	Single-Mode	1310nm	12dB	20km
VOS-16000FST-4	VOS-16000FSR-4	Single-Mode	1310nm	18dB	40km
VOS-16000FST-6	VOS-16000FSR-6	Single-Mode	1550nm	25dB	60km

Note:
- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μm).
- When using 50/125 μm 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

- Video

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

- Connectors

Video: 75Ω BNC (Gold Center Pin)
Optical: FC/PC or ST/PC Optional
Stand-Alone Power: Screw terminal block
Rack Power: AC line cord

- Electrical & Mechanical

Input Power Requirements: DC 5V@4A
Power Adapter: AC 100V~240V (Built-in)
Power Consumption: < 10W
Stand-Alone Dimensions: 483mm × 250mm × 44.5mm
Card for 4U Dimensions: 145mm × 170mm × 65mm
Shipping Weight: 6.0kg (include TX & RX)

- Environmental

Operating Temperature: -45°C~+75°C
Storage Temperature: -45°C~+85°C
Relative Humidity: 0%~95% (non-condensing)
MTBF: >100,000 hours