

### Fiber Optic Video Transmission for Fixed Cameras 8-Channel Composite Video over Fiber

#### 8 Video

#### System Design

**Fiber Optic Video Transmitter & Receiver** VOS-8000FT/R can transmission 8-Channel composite video over fiber optical cable for fixed camera, no audio, no data.

**Stand-alone or rack-mount.** All units of VOS-8000FT/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 8-Channel video card require **two slots widths**.

#### Audio

#### Data

**Single-Mode or Multi-Mode,** VOS-8000FT/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 500m.

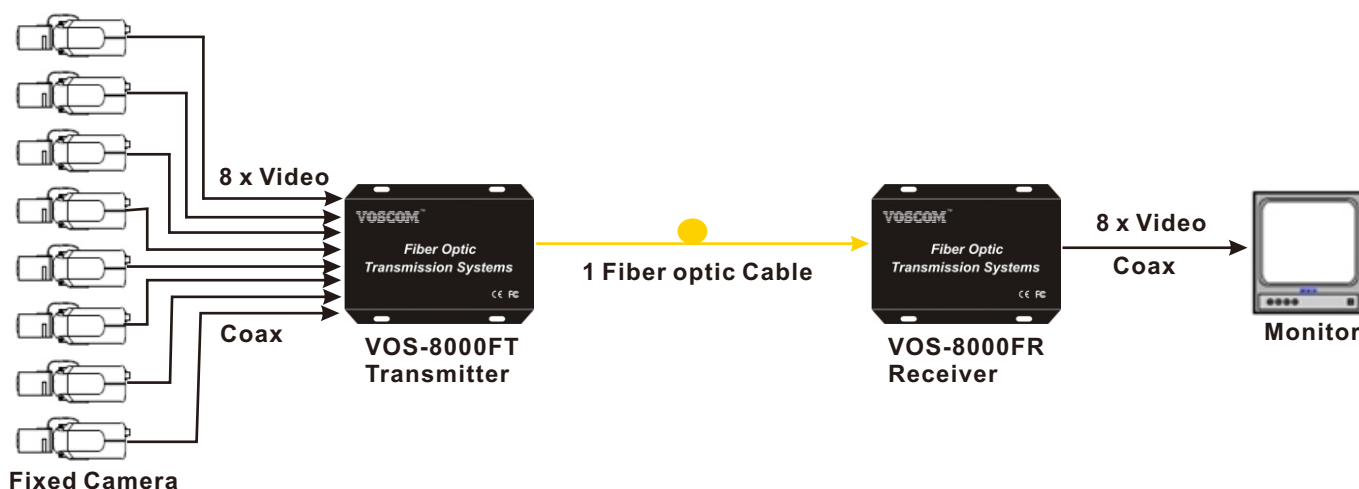


#### Ethernet

#### Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Composite Video over one fiber
- Compatible with AHD, HD-TVI, HD-CVI and Normal Analog Video
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM

#### Typical Configuration



# Composite Video over Fiber

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-8000FMT	VOS-8000FMR	Multi-Mode	1310nm	10dB	500m
VOS-8000FST	VOS-8000FSR	Single-Mode	1310nm	12dB	20km
VOS-8000FST-4	VOS-8000FSR-4	Single-Mode	1310nm	18dB	40km
VOS-8000FST-6	VOS-8000FSR-6	Single-Mode	1550nm	25dB	60km

### Note:

- The Optical Power Budget data fit Multi-mode(62.5/125  $\mu$ m), Single-Mode(9/125  $\mu$ m.).
- When using 50/125  $\mu$ 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

### • Video

Number of Channels:	8-Channel Video
Input/output impedance:	BNC 75 $\Omega$
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:	75 $\Omega$ 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@2A
Power Adapter:	AC 100V~240V
Power Consumption:	< 3W
Stand-Alone Dimensions:	172mm x 167mm x 45mm
Shipping Weight:	2.0kg (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