

### 10-Bit Digitally Encoded Fiber Optic Video Transmission 8-Channel Composite Video

**8** →  
Video

#### System Design

*10-Bit Digitally Encoded Fiber Optic Video Transmitter & Receiver* VOS-8000FT/R-10B can transmission 8-Channel 10-Bit Digitally Encoded broadcast quality video that delivers a sharper image with better color quantification and faster, more efficient codecs. It is also designed for *Fixed cameras*.

Audio

*Stand-alone or rack-mount.* All units of VOS-8000FT/R-10B come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04). One 8-Channel video card occupy *two slots*.

Data

*Single-Mode or Multi-Mode,* VOS-8000FT/R-10B can support FC or ST Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

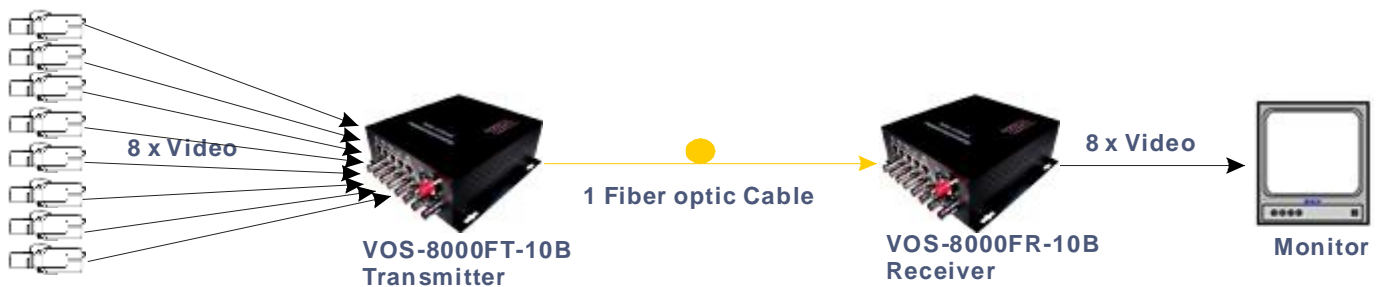
Ethernet

#### Features

- 10-Bit Digitally Encoded Video Transmission
- Support Point-to-Point or Daisy-Chain connection
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 1.2 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



# 10-Bit Digitally Video Transmission

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-8000FMT-10B	VOS-8000FMR-10B	Multi-Mode	1310nm	10dB	1.2km
VOS-8000FST-10B	VOS-8000FSR-10B	Single-Mode	1310nm	12dB	20km

### 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

<ul style="list-style-type: none"> <li>• <b>Video</b></li> </ul> <p>Number of Channels: 8-Channel Video            Input/output impedance: BNC 75 <math>\Omega</math>            Input/output Compatibility: PAL, NTSC, SECAM            Input/output voltage: 1.0 Volt p-p            Bandwidth: 6.5MHZ            Bit Resolution: 10-Bit Digital Transmission            Differential Gain: &lt; 1.5%            Differential Phase: &lt; 1.5°            Tilt: &lt; 5%            Signal-to-Noise Ratio(SNR): &gt; 67 dB</p>	<ul style="list-style-type: none"> <li>• <b>Connectors</b></li> </ul> <p>Video: 75 <math>\Omega</math> BNC            Optical: FC , ST Optional            Stand-Alone Power: Screw terminal block            Rack Power: AC line cord</p>
	<ul style="list-style-type: none"> <li>• <b>Electrical &amp; Mechanical</b></li> </ul> <p>Input Power Requirements: DC 5V@3A            Power Adapter: AC 100V~240V            Power Consumption: &lt; 5W            Stand-Alone Dimensions: 176.5mm × 158mm × 59mm            Card for 4U Rack Dimensions: 145mm × 170mm × 45.4mm            Shipping Weight: 2.5kg (include TX &amp; RX)</p>
	<ul style="list-style-type: none"> <li>• <b>Environmental</b></li> </ul> <p>Operating Temperature: -45° C~+75° C            Storage Temperature: -45° C~+85° C            Relative Humidity: 0%~95% (non-condensing)            MTBF: &gt;100,000 hours</p>