

### Fiber Optic Video Transmission for Fixed Cameras 2-Channel Composite Video over Fiber

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Video

#### System Design

Fiber Optic Video Transmitter & Receiver VOS-2000FT/R can transmission 2-Channel digital composite video over fiber optic cable for fixed camera, no audio, no data.

Audio

Stand-alone or rack-mount. All units of VOS-2000FT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

Data

Single-Mode or Multi-Mode, VOS-2000FT/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.

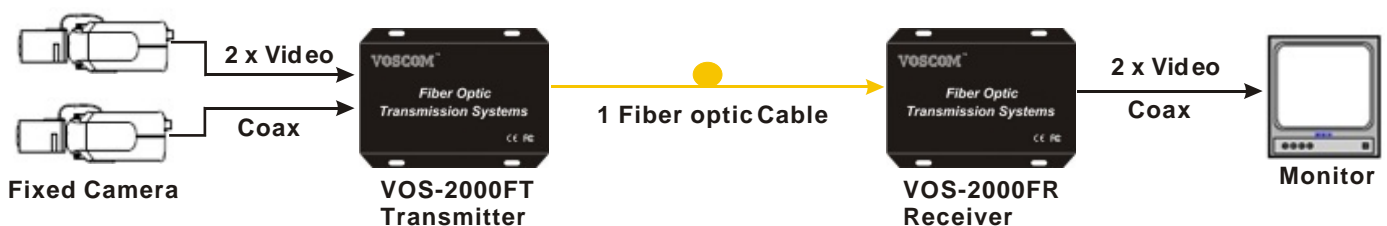


Ethernet

#### 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 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



# Composite Video over Fiber

## Ordering Information

| Model Number  |               | Fiber Mode  | Wavelengths | Optical Power Budget | Maximum Transmission Distance |
|---------------|---------------|-------------|-------------|----------------------|-------------------------------|
| Transmitter   | Receiver      |             |             |                      |                               |
| VOS-2000FMT   | VOS-2000FMR   | Multi-Mode  | 1310nm      | 16dB                 | 2km                           |
| VOS-2000FST   | VOS-2000FSR   | Single-Mode | 1310nm      | 12dB                 | 20km                          |
| VOS-2000FST-4 | VOS-2000FSR-4 | Single-Mode | 1310nm      | 18dB                 | 40km                          |
| VOS-2000FST-6 | VOS-2000FSR-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

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Video</li> </ul>   | <ul style="list-style-type: none"> <li>• Connectors</li> </ul>  |
| Number of Channels: 2-Channel Video<br>Input/output impedance: BNC 75 $\Omega$<br>Input/output Compatibility: PAL, NTSC, SECAM<br>Input/output voltage: 1.0 Volt p-p<br>Bandwidth: 6.5MHZ<br>Bit Resolution: 8-Bit Digital Transmission<br>Differential Gain: < 1.5%<br>Differential Phase: < 1.5°<br>Tilt: < 5%<br>Signal-to-Noise Ratio(SNR): > 67 dB | Video: 75 $\Omega$ BNC (Gold Center Pin)<br>Optical: FC (standard), ST Optional<br>Stand-Alone Power: Screw terminal block<br>Rack Power: AC line cord  |
|   | <ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical</li> </ul>   |
|   | Input Power Requirements: DC 5V@2A<br>Power Adapter: AC 100V~240V<br>Power Consumption: < 3W<br>Stand-Alone Dimensions: 142mm $\times$ 107mm $\times$ 25mm<br>Card for 4U Rack Dimensions: 145mm $\times$ 170mm $\times$ 20mm<br>Shipping Weight: 1.8kg (include TX & RX) |
|   | <ul style="list-style-type: none"> <li>• Environmental</li> </ul>   |
|   | Operating Temperature: -45° C~+75° C<br>Storage Temperature: -45° C~+85° C<br>Relative Humidity: 0%~95% (non-condensing)<br>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](mailto:Sales@voscom.com) Website: [www.voscom.com](http://www.voscom.com)