

### Fiber Optic Video Transmission for Fixed Cameras 1-Channel Composite Video over Fiber

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Video

#### System Design

Fiber Optic Video Transmitter & Receiver VOS-1000FT/R can transmission 1-Channel digital composite video over fiber for fixed camera, no audio, no data.

Audio

Stand-alone or rack-mount. All units of VOS-1000FT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 2U, 4u or 6U rack-mountable card cage (VOS-CH02, VOS-CH04 or VOS-CH06).

Data

Single-Mode or Multi-Mode, VOS-1000FT/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 2km.

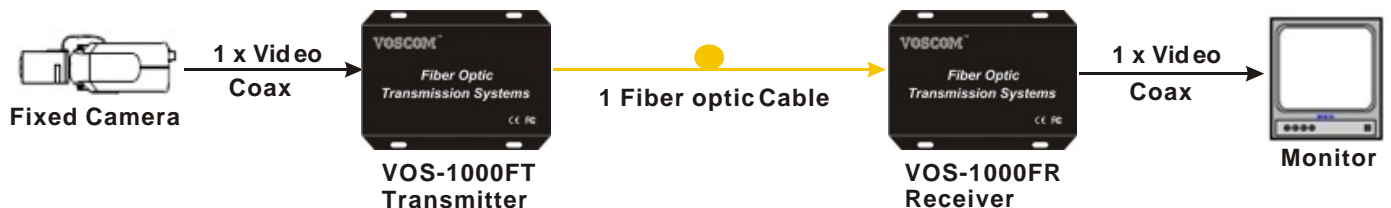


Ethernet

#### 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
- 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-1000FMT	VOS-1000FMR	Multi-Mode	1310nm	16dB	2km
VOS-1000FST	VOS-1000FSR	Single-Mode	1310nm	12dB	20km
VOS-1000FST-4	VOS-1000FSR-4	Single-Mode	1310nm	18dB	40km
VOS-1000FST-6	VOS-1000FSR-6	Single-Mode	1550nm	25dB	60km

**Note:**

- The Optical Power Budget data fit Multit-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                             <ul style="list-style-type: none"> <li>Number of Channels: 1-Channel Video</li> <li>Input/output impedance: BNC 75<math>\Omega</math></li> <li>Input/output Compatibility: PAL, NTSC, SECAM</li> <li>Input/output voltage: 1.0 Volt p-p</li> <li>Bandwidth: 6.5MHZ</li> <li>Bit Resolution: 8-Bit Digital Transmission</li> <li>Differential Gain: &lt; 1.5%</li> <li>Differential Phase: &lt; 1.5°</li> <li>Tilt: &lt; 5%</li> <li>Signal-to-Noise Ratio(SNR): &gt; 67 dB</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Connectors                             <ul style="list-style-type: none"> <li>Video: 75<math>\Omega</math> BNC (Gold Center Pin)</li> <li>Optical: FC/PC or ST/PC Optional</li> <li>Stand-Alone Power: Screw terminal block</li> <li>Rack Power: AC line cord</li> </ul> </li> <li>• Electrical &amp; Mechanical                             <ul style="list-style-type: none"> <li>Input Power Requirements: DC 5V@2A</li> <li>Power Adapter: AC 100V~240V</li> <li>Power Consumption: &lt; 3W</li> <li>Stand-Alone Dimensions: 95mm <math>\times</math> 70mm <math>\times</math> 25mm</li> <li>Card for 2U Rack Dimensions: 95mm <math>\times</math> 70mm <math>\times</math> 25mm</li> <li>Card for 4U Rack Dimensions: 145mm <math>\times</math> 170mm <math>\times</math> 20mm</li> <li>Shipping Weight: 1.2kg (include TX &amp; RX)</li> </ul> </li> <li>• Environmental                             <ul style="list-style-type: none"> <li>Operating Temperature: -45° C~+75° C</li> <li>Storage Temperature: -45° C~+85° C</li> <li>Relative Humidity: 0%~95% (non-condensing)</li> <li>MTBF: &gt;100,000 hours</li> </ul> </li> </ul>
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