

## 12G-SDI Fiber Optic Extender 4K UHD 1-Channel Bi-Directional 12G-SDI

**1**  
12G-SDI

### System Design

VOS-1DH12G-T/R enables fiber-optic transmission of 1-channel uncompressed Bi-Directional 12G-SDI, 6G-SDI, or 3G-SDI, with a 1/4-inch screw mount, conveniently powered via a V-mount portable power supply.

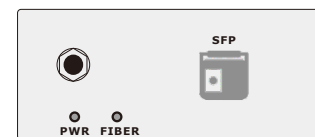
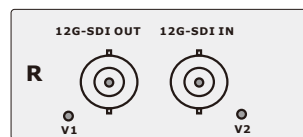
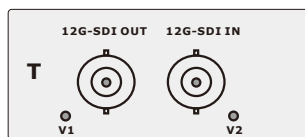


Audio

**Stand-alone or rack-mount.** All 12G-SDI video over Fiber of VOS-1DH12G-T/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 2U or 4U rack (VOS-CH02, VOS-CH04).

Data

### Panel

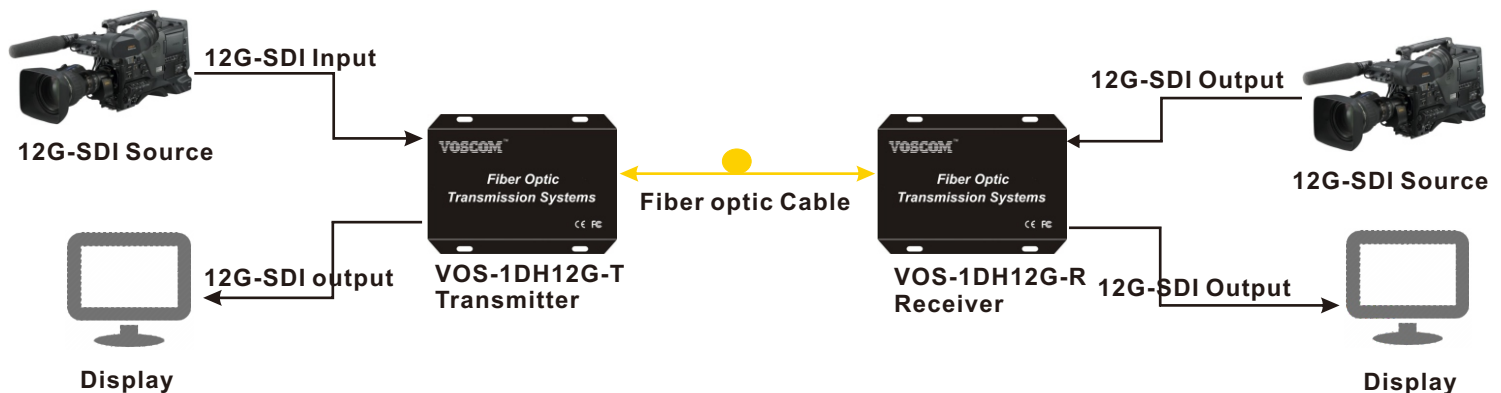


Ethernet

### Features

- Support SMPTE 2082 / 2081 / 424M / 292M / 259M or DVB-ASI compliant
- Automatic detection and re-clocking of 12G, 6G, 3G, 1.5G, 270M SDI data rates
- Supports embedded digital audio stream
- Coax inputs are equalized(EQ), Coax outputs are with driving function (CD)
- Standard SFP Module with LC connector support Single-mode 10km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Plug and Play

### Typical Configuration



# 12G-SDI Fiber Optic Extender

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1DH12G-T	VOS-1DH12G-R	Single-Mode	1270~1330nm	12dB	10km

### 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

### • Video

Number of Channels: 1-Channel Bi-Directional 12G-SDI

Data Rate: 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps, 2.970 Gbps, 5.934 Gbps, 5.940 Gbps, 11.868 Gbps, 11.880 Gbps - Auto Select

Standards: SMPTE 2082(12G-SDI), SMPTE 2081(6G-SDI), SMPTE 424M (3G-SDI)  
SMPTE 292M (HD-SDI), SMPTE 259M (SD-SDI)

Max Resolution: 4K UHD 2160 @ 60Hz

### • Optical

Optical Connector: LC (SFP)  
Fiber Type: Single-Mode, Single-Fiber  
Rate: 12Gbps  
Tx Output Power: 0~-3dB  
Receiver Sensitivity: >-12dB

### • Electrical & Mechanical

Input Power Requirements: DC 5V~36V  
Power Adapter: AC100V~240V  
Power Consumption: <1.5W  
Stand-Alone Dimensions: 98mm x 70mm x 26mm  
Shipping Weight: 0.5kg (include TX & RX)

### • Connectors

Video Connector: 75 Ohm BNC (Gold Center Pin)  
IEC169-8 standard  
Optical Connector: LC (SFP)  
Power Connector: DC 5.5-2.1mm

### • Environmental

Operating Temperature: -20°C ~+75°C  
Storage Temperature: -40°C~+85°C  
Relative Humidity: 0%~95% (non-condensing)  
MTBF: >100,000 hours