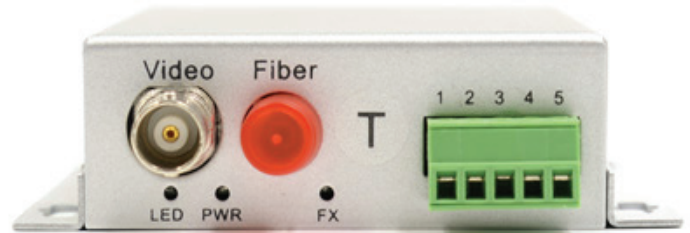
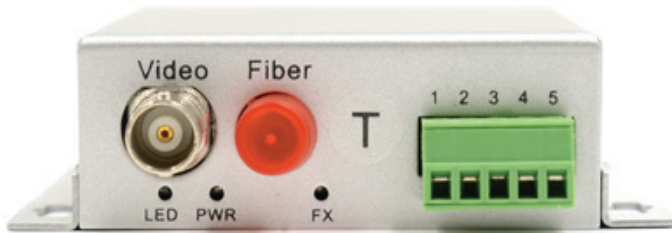




# 1-CHANNEL FIBER OPTIC VIDEO DIGITAL CONVERTER

**FIBERTRONICS** 



**Video transmitter/audio/data transceiver & video receiver/audio/data transceiver utilizes uncompressed digital encoding and decoding for high-quality video transmission.**

These environmentally hardened units provide transmission of 2 independent video channels, 1 audio channel and 1 bi-directional data channel over one single-mode or multimode optical fiber and are ideal for use in unconditioned roadside or out-of-plant installations.

## Features & Specifications

- Card type or independent structure, which is applied to centralized management 2.5U chassis
- 8/10-bit digital code and non-compression type video transmission
- Supports any high-resolution video signal
- 5Hz-10MHz video channel
- Compatible PAL, NTSC and SECAM video system
- With APC circuit, constant input optical power and large dynamic range
- Power supply and other parameter state indication, which can monitor the operation of system
- Industry-grade design and modularization design make the equipment reliable and flexible
- Can automatically restore the fuse of power supply
- Full built-in power supply and the appearance design of shell is unique
- Internal power dissipation of power supply: 2.6W (Input: AC 140~260V)

# 1-Channel Video Digital Converter Interfaces

Below is a break-down of the various interfaces of 1-channel video converters. These include Video, Data, Optical, Ethernet, Telephone and Audio interfaces.



Video Interface			
<b>Video I/O Impedance:</b>	BNC 75Ω nonbalanced interface	<b>Differential Phase:</b>	<1%
<b>Video I/O Voltage:</b>	Typical Peak -1Vpp.	<b>Field Tilt:</b>	<0.5%
<b>Video Bandwidth:</b>	8MHZ	<b>SNR:</b>	>65dB
<b>Video Digital Bid Width:</b>	8/10 bits	<b>Connectors:</b>	BNC
<b>Differential Gain:</b>	<1%		



Data Interface	
<b>Interface:</b>	Industrial connecting terminals
<b>RS-232 Rate:</b>	DC-115.2Kbps
<b>RS-422/485 Rate:</b>	DC-1.2Mbps
<b>RS-422/485 Distance:</b>	0 - 1200M
<b>RS-422/485 Protocol:</b>	Transparently supports random RS-485/422 protocol I/O Switching Value, Warning Data, and supports controlled relay output



Optical Interface	
<b>Physical Interface:</b>	FC/PC, ST/PC and SC/PC
<b>Type of Fiber:</b>	Single-mode/Multimode Fiber, Single/Double Fiber
<b>Transmission Distance:</b>	Single-mode: 0-25km, 0-60km and 0-100km; Multimode: 0-3km



Ethernet Interface	
<b>Physical Interface:</b>	Shielded Super-type 5 RJ-45 Connector Jack
<b>Protocols Supported:</b>	IEEE 802.3 10M, 100M and 10/100M auto negotiation Ethernet
<b>Operating Mode:</b>	Full/Half Duplexing



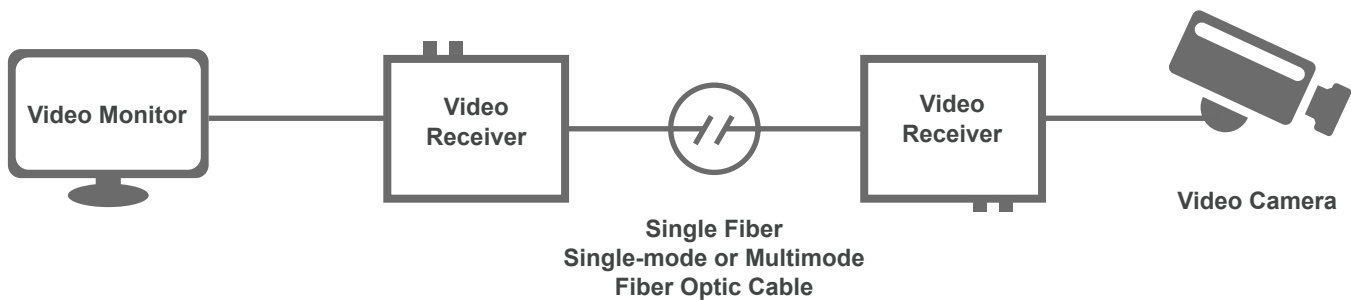
Telephone Interface	
<b>Physical Interface:</b>	IRJ-11 Connector Jack
<b>Voice Bandwidth:</b>	8KHZ
<b>Operating Mode:</b>	Point-to-point hotline, program controlled switch/extension mode



Audio Interface	
<b>Audio I/O Impedance:</b>	600Ω or other various impedances
<b>Audio I/O Electric Level:</b>	Typical 0dBm
<b>Frequency Response:</b>	10HZ-20KHZ
<b>Audio Digital Bit Width:</b>	24 bit
<b>SNR:</b>	>75dB

## Applications & Environment

2-Channel Fiber Optic Video Digital Converters are widely used in the fields such as CCTV, video surveillance, national defense, ITS, industrial process monitoring and traffic transportation monitoring.



Operating Environment	
<b>Operating Temperature:</b>	-45C~85C
<b>Humidity:</b>	0~95% non-condensing
<b>Power Supply Voltage:</b>	AC220V/50Hz