



2-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

- Supports point-to-point connection
- Unpressed and undistorted digital broadcasting transmission
- Free from intermodulation interference from optical transceivers for simulated frequency, phase, and amplitude modulations
- Supports any high-resolution video signals
- Supports video nondestructive regenerated relay
- Auto compatible with PAL, NTSC, SECAM video systems
- Supports video, data, Ethernet, telephone voice parallel transmission
- KM optical transmission technology, large in capacity and easy to upgrade
- Transmission in monomode and multimode fiber, at a distance of 0 - 100KM
- Special ASIC design and high-speed DSP technology
- Advanced auto-negotiation technology, no need for adjustment during use
- Full SMT technology
- Industry standard design, with high reliability
- Wall hanging type and 4U card type

2-Channel Video Digital Converter Interfaces

Below is a break-down of the various interfaces of 2-channel video converters. These include Video, Data, Optical, Ethernet, Telephone and Audio interfaces.



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



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



Optical Interface	
Physical Interface:	Industrial connecting terminals
Type of Fiber:	DC-115.2Kbps
Transmission Distance:	0 - 1200M



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



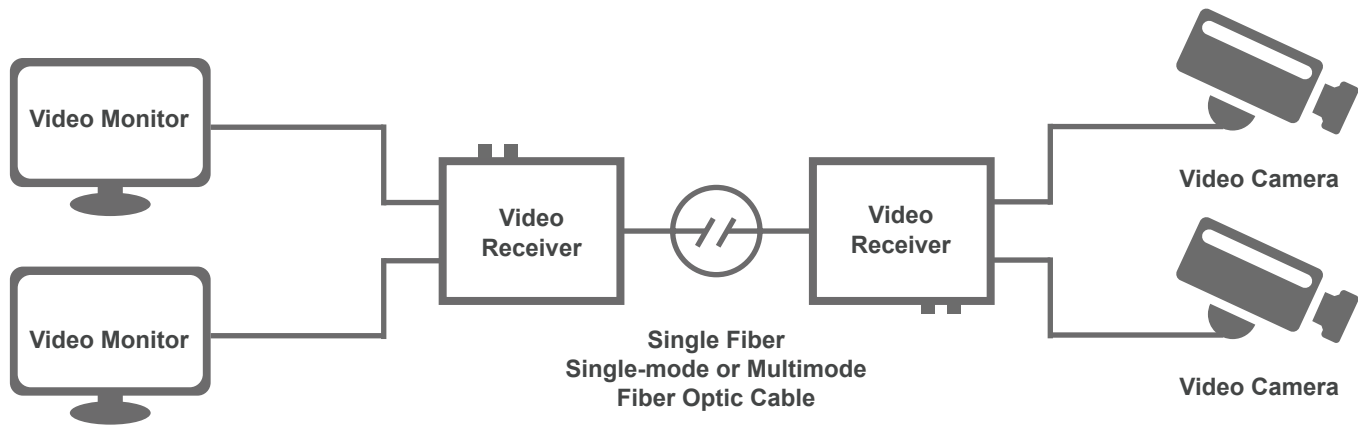
Telephone Interface	
Physical Interface:	IRJ-11 Connector Jack
Voice Bandwidth:	8KHZ
Operating Mode:	Point-to-point hotline, program controlled switch/extension mode



Audio Interface	
Audio I/O Impedance:	600Ω or other various impedances
Audio I/O Electric Level:	Typical 0dBm
Frequency Response:	10HZ-20KHZ
Audio Digital Bit Width:	24 bit
SNR:	>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	
Operating Temperature:	-45C~85C
Humidity:	0~95% non-condensing
Power Supply Voltage:	AC220V/50Hz