

DFO3301HT/R-DFO4301T/R

Digital Fiber Optic 1 Video/return Data



DESCRIPTION

The DFO3301iHT/R and DFO4301iHT/R Series are HD-CVI, TVI, AHD, NTSC, and PAL uncompressed, 8 bit, Digitally encoded fiber optic transmission of one video and return RS-422/RS-485 Data on 1 multimode or singlemode fiber. Available as standalone and card versions with the highest density, 18 slots per 19" x 3U Subrack. Units are designed with rugged Aluminum case for outdoor environment and meet the stringent equipment specifications, including temperature, shock, vibration, humidity, voltage and transient protection. Input voltage for standalone is 5VDC (optional 12VDC) and 19" Chassis are 100-240VAC.



FEATURES

- * Uncompressed 1 Video, 8 Bit Encoding
- * 8 MHz video bandwidth, HD-CVI, TVI, AHD, NTSC, PAL
- * RS-422/RS-485 PTZ Data for control
- * Immune to EMI and RFI
- * LED status indicators for power, optic link and video signals
- * Highest optical dynamic range
- * Hot-Swappable Rack Cards
- * No optical user adjustments
- * Highest Racking Density - 18 Slots, 2 PSU
- * 5VDC (12VDC); 100-240VAC for 19"3U
- * Compliance with CE, FCC and ROHS

APPLICATIONS

- * Homeland Security
- * Correctional Centers
- * Petrochemical Industry
- * Corporate and Banking
- * Casinos and Hospitality
- * Health Care Centers
- * Schools and Universities
- * Government and Military
- * Power Generating Plants
- * Traffic Surveillance (ITS)

ORDERING INFORMATION

Standalone

DFO3301HTAZM0S	Digital 1 Video Transmitter, Bidirectional Data, 1 fiber MM, 5VDC ST
DFO4301HTEZM0F	Digital 1 Video Transmitter, Bidirectional Data, 1 fiber SM, 5VDC FC
DFO3301HRAZM0S	Digital 1 Video Receiver, Bidirectional Data, 1 fiber MM, 5VDC ST
DFO4301HREZM0F	Digital 1 Video Receiver, Bidirectional Data, 1 fiber SM, 5VDC FC
	0=5VDC, 1=optional 12VDC

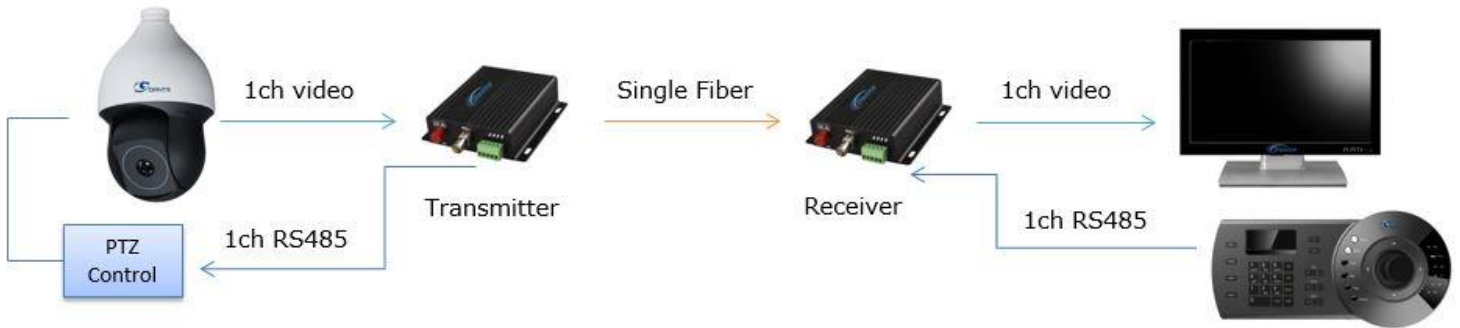
Rackmount

DFO3301HRAZRS	Digital 1 Video Receiver, Bidirectional Data, 1 fiber MM Card ST
DFO4301HREZRF	Digital 1 Video Receiver, Bidirectional Data, 1 fiber SM Card FC



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Specifications

Video performance

Video type:	HD-TVI, CVI, AHS
Video connector:	BNC
Video Bandwidth:	5 Hz~8MHz
Video input/output Impedance:	75 Ω (unbalanced)
Video input/output voltage:	1.0V p-p
Differential gain 10%-90%APL:	<1% (typical)
Differential phase 10%-90%APL:	<1° (typical)
SNR (Weighted):	$\geq 60\text{dB}$ @ highest optical budget loss
Encoding:	8 Bit Uncompressed

Data performance

Data interface:	RS-422, RS-485
Bit Rate:	0-300Kbps (RS-422/485)
Data connector:	Terminal Block - 3 Pins
Data error rate :	$\leq 10^{-9}$

Environmental Parameters

Environmental temperature:	-34°C~+74°C
Storage temperature:	-40°C~+85°C
Relative Humidity:	0~95% (Non-condensing)

Power Parameters

Rated voltage:	5VDC (standalone)
Power Supply:	1A (included)

Mechanical Parameters

Dimensions:	
Standalone L x D x H:	4.7"(120mm), 4.1"(105mm), 1.1"(28mm)
Rackmount Card L x D x H:	6.2"(156mm), 5.1"(130mm), 0.8"(20mm)
DFO9300 Subrack 3U:	19"(485mm), 11.8"(300mm), 5.25"(135mm)

Regulatory Compliance:

CE, FCC, ROHS

Manufactured to:

ISO9001:2000 Standards

Optical performance

	Singlemode	Multimode
Fiber type	Singlemode	Multimode
Wavelength	Laser 1310/1550nm	Laser 1310nm/1550nm
Output Power	-8 dB	-18dB
Receiver Sensitivity	-30 dB	-23dB
Optical Loss Budget	22 dB	15dB

Note: 2Km on MM 62.5/125u; 5Km on MM 50/125u; 20Km on SM 9/125u. Available with up to 60Km

