### 8 bit digital video with reverse data

# Model: VDS150-T VDS150-R

## **Description**

The VDS150 model provides for the simultaneous transmission of 1 video signal and 1 reverse data signals over one multimode or single mode optical fiber



#### **CHANNEL AVAILABILITY**

(Specify at time of order)	<u>Forward Path</u>	Reverse Path
Number of Video	0 to 1	
Number of Audio		
Number of Data		0 to 1
Number of Ethernet		

#### **Features**

- 1-channel video with1-channel data fiber optic transmitter and receiver
- 8 bit uncompressed digital video
- · Video input with AGC (Automatic gain control)
- · Anti-lightning chips on both Video and Data interface
- · No In-field Electrical or Optical Adjustments Required
- NTSC, PAL, SECAM auto compatible
- · Power, Video Presence, Data In/Out, and Fiber Status Indicating LED's to Monitor System Performance
- Hot swappable rack-mount cards
- 5VDC/1A power adaptor
- · Industry standard connectors

# **Ordering information**

Models	Wavelength	Fiber Type	MAX. Distance
VDS150-MT	1310/1310nm	ММ	4Km
VDS150-MR	1310/131011111		
VDS150-MT	1310/1550nm	SM	20km
VDS150-MR	1010/10001111		(40/60 km optional)

<sup>\*</sup>Optical transmission distance is limited to optical loss of the fiber and additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. \*\*For 50/125 Fiber, subtract 4 dB from optical power budget.

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## Video, audio and data fiber optic transmission system



# **Specifications**

Video	
Video format	PAL/ NTSC
Video Input	$0.5{\sim}2Vpp$
Video Output	1Vp-p
Bandwidth (-3 dB)	8 MHz
Encoding	10bit
Differential gain	≤1%
Differential phase	≤1°
SNR	≥63 dB
Connector type	BNC 75Ω

Data		
Data Protocol	RS-232, RS-422, 2 or 4-wire RS-485 and Manchester	
Data rate	DC to 115 Kbps	
Data Rate:	<10 <sup>-9</sup>	
Connectors	Terminal Block with Screw Clamps	

Optical	
Wavelengths	1310/1550nm
Fiber type	SM/MM
Budget (system)	12dB
Output power	_5 ~ _10dBm
Receiver Sensitivity	-24dBm
Connector type	FC (SC or ST optional)

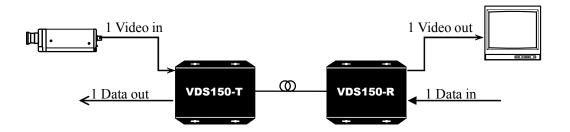
Power/Environmenta	ıl
Stand-alone	4W
Rack-mount	4W
Power adaptor	220VAC to 5VDC/1A
Operating temperature	-40°C to +70°C
Relative humidity	< 95% (non- condensing)
MTBF	>100,000 Hrs

M	echanical	
C.	and alone Dimor	_

Stand-alone Dimensions (mm) Stand-alone Weight (kg)

110L x 64W x24H 0.5

# **System Design**



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