

## 4ch one-way video with 8ch bi-directional data and 10/100Mbps Ethernet on one optical fiber

### HIGHLIGHT

- ✦ 4ch video with 8ch bi-directional data and 10/100Mbps Ethernet over one single-core fiber
- ✦ 8/10 bit digital video encoding and uncompressed digital transmission technology
- ✦ 12VDC/24VAC wide-range power supply
- ✦ Supports RS-232, RS-422, RS-485 and Manchester data interfaces
- ✦ Stable picture quality with optional video Auto Gain Control (AGC)
- ✦ Compatible with PAL、NTSC or SECAM
- ✦ Rapid indication of critical operating parameters by LED status indicators
- ✦ Patent dust-proof structure design
- ✦ Interchangeable between stand-alone and 1U/4U rack-mount.
- ✦ Low power consumption
- ✦ No in-field electrical or optical adjustment required
- ✦ Lightning-proof design for all I/O ports



### DESCRIPTION

VD2000 series satisfies the demand for highly cost-effective fiber optical transmission products, utilizing a compact design to provide a wide range of services covering Video, Audio, RS-232, RS-422/485, Contact Closure, Telephone, Aiphone, 10/100Mbps Ethernet and E1, with the capacity of up to 256 digitally encoded video channels transmission on one optic fiber.

With the superior dust-proof craft, and the possibility that the stand-alone module can be plugged into the 4U 19" chassis with redundant power or the 4U 19" passive chassis, the high durability and flexibility of VD2000 series ensures optimized performance in demanding applications, compliant with all the environmental requirements.

### ORDERING INFORMATION

Model	Description
VD2000T-4V8D	Transmitter, Single Mode fiber, → ↔ 4V+8D
VD2000R-4V8D	Receiver, Single Mode fiber, → ↔ 4V+8D
VD2000T-4V8D -IP	Transmitter, Single Mode fiber, → ↔ 4V+8D+IP
VD2000R-4V8D -IP-U	Receiver, Single Mode fiber, → ↔ 4V+8D+IP

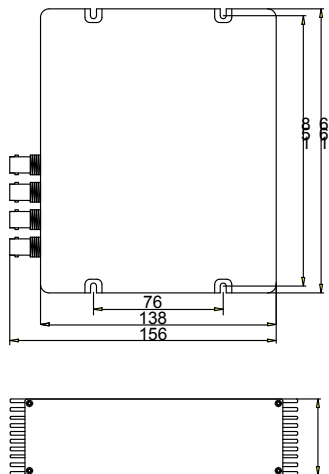
#### Note:

1. "M"=standalone, "U"=rack module, "D"=Data, "IP"=100BaseT
  2. The 8 data channel can be RS232, RS422/485, Audio, Contact Closure, Telephone etc. Such as 2ch Data+2ch Audio+4ch C.C.
  3. The default distance is 0~20km, 40/60/80/100Km for optional.
- \* The distance is based on the link-loss less than 0.4dB/km@ 1310nm, 0.25dB/km@1550nm.

## SPECIFICATIONS

<b>Video</b>		<b>Audio</b>	
Channels	4	Channels	0~8(Optional)
Format	PAL/SECAM/NTSC	In-/output Level	3.5Vp-p
Input level	0.5~2Vpp (AGC on)	Sampling resolution	24bit
Output level	1 Vp-p	Input Impedance	>50KΩ or 600Ω (bal)
Bandwidth(-3dB)	8 MHz	Output Impedance	<50Ω (bal)
Sampling resolution	10bit	Bandwidth	20Hz~20kHz
Differential gain	< 1.5%	S/N	>70dB
Differential phase	< 1.5°	Tot. Harmonic Distortion	<1%
Group delay	< 50 ns	Connector	Terminal Blocks with Screw Clamps
S/N	>67 dB		
Connector type	BNC 75Ω		
<b>Data</b>		<b>Ethernet</b>	
Channels	8(Max.)	Bit Rate	10/100Mbps
Format	RS-232, RS422, 2 or 4 wire RS485 with Tri-State Manchester-Bi-Phase	RJ45 Port	UTP-100Ω, Cat5
Date Rate	DC~115Kbps (NRZ)	Standard	IEEE802.3u, IEEE802.3x
Operating Mode	Simplex or full-duplex		
Bit Error Rate	<10 <sup>-9</sup>		
Connector	Terminal Blocks with Screw Clamps		
<b>Optial</b>		<b>Powering</b>	
Wavelength	1310/1550nm 或 CWDM	Stand-alone	0.6A@12VDC
Fiber Type	SM or MM	Power Consumption	<6W
Budget (system)	12~30dB	Input Voltage	12/24VDC or 24VAC
Output power	+3~-12dBm		
Receiver Sensitivity	-24dBm		
Connector	LC (FC/SC/ST optional)		
Fiber Transceiver	SFP or 1X9 Module available		
<b>MTBF</b>	>100,000 Hrs	<b>Mechanical</b>	
		Stand-alone Size(mm)	156D x 166W x 44H
		Rack Mount Size(mm)	156D x 150W x 44H
		Stand-alone Weight(kg)	<1.2
		Rack Mount Weight(kg)	<1.0
		<b>Environmental</b>	
		Operating Temp.	-40°C to +74°C
		Storage Temp.	-40°C to +85°C
		Relative humidity	0~95% (non-condensing)

## SIZE (mm)



## APPLICATIONS

