

# J/VD-xX-01

## Analog CCTV Video Copper to Fiber Media Converter



Transmitter

Miniature Receiver

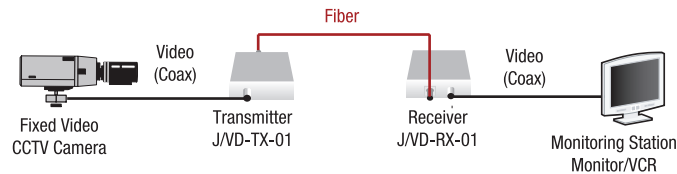
### Features

- ▶ AM Modulation
- ▶ NTSC, PAL, SECAM compatibility
- ▶ Compatible with all video CCTV equipment
- ▶ Real Time Full Color Video
- ▶ Automatic Gain Control on Transmitter
- ▶ Automatic Gain Control on Receiver
- ▶ Link Pass Through (see page 16)
- ▶ Wide input power supply:
  - Transmitter: 9 – 24 VAC w/Isolated Power Supply; 9 – 40 VDC
  - Receiver: 9 – 16 VAC/DC
- ▶ Video Specification:
  - Input Video: .5 to 2-volt pk-pk (75 ohms)
  - Bandwidth: 5 Hz – 10 MHz
  - Differential Gain: < 5 %
  - Differential Phase: < 5°
  - Tilt: < 1%
  - Signal/Noise Ratio: 60 dB

Transition Networks' analog composite video media transmitter, **J/VD-TX-01**, converts a CCTV signal from cameras to a single strand of multimode or single mode fiber for up to 10 km. Transition Networks' analog video media receiver, **J/VD-RX-01**, converts the optical signal back to an analog composite video signal. All conversions are performed in real time. Automatic gain control installed on both Transmitter and Receiver maintains desired quality of video's contrast and brightness for extended distances. No field adjustments are necessary. Wide input range power supply allows for multiple choices of power source including camera power supply.

To assure best quality, Transition Networks' Transmitters & Receivers should be used on both ends of the link.

### Connect Uni-directional Analog Video Devices Over Fiber



### Specifications

Video Formats	NTSC, PAL, SECAM
Optical Specs	<b>Multimode:</b> 850 nm 3.0 dB Link Budget <b>Single Mode:</b> 1310 nm 3.0 dB Link Budget
LEDs	<b>J/VD-TX-01(xx) Transmitter:</b> <b>PWR(Power):</b> ON = Power connected <b>RX:</b> ON = Copper Video feed IN <b>J/VD-RX-01(xx) Receiver:</b> <b>PWR(Power):</b> ON = Power connected <b>RX:</b> ON = Fiber Video feed IN
Dimensions	<b>Transmitter/Miniature Receiver:</b> <b>Width:</b> 2.0" [51 mm] <b>Depth:</b> 2.2" [56 mm] <b>Height:</b> 1.0" [25 mm] <b>Receiver:</b> <b>Width:</b> 4.0" [102 mm] <b>Depth:</b> 3.0" [76 mm] <b>Height:</b> 1.0" [25 mm]
Power Supply	<b>Transmitter:</b> 9 – 40 VDC, 9 – 24 VAC <b>Receiver:</b> 9 – 16 VAC/DC
Power Consumption	2 Watts
Operating Temperature (Standard)	0°C to 50°C (32°F to 122°F)
Storage Temperature	-25 to 85°C (-13°F to 185°F)
Altitude	0 – 10,000 ft.
Operating Humidity	5% – 95% non-condensing
Shipping Weight	1 lb. [0.45 kg]
Safety Compliance	CE Mark <b>Power Supply:</b> UL listed, EN60950
Regulatory Compliance for Emissions	FCC Class A, EN55022 Class A
Regulatory Compliance for Immunity	EN55024
Warranty	Lifetime

### Ordering Info

#### J/VD-TX-01: Video Transmitter

BNC (75 ohm)  
to Multimode (ST)  
[1 km/ 0.6 mi.]

#### J/VD-RX-01: Video Receiver

BNC (75 ohm)  
to Multimode (ST)  
[1 km/ 0.6 mi.]

#### J/VD-MRX-01: Miniature Video Receiver

BNC (75 ohm)  
to Multimode (ST)  
[1 km/ 0.6 mi.]

#### J/VD-TX-01(SC): Video Transmitter

BNC (75 ohm)  
to Multimode (SC)  
[1 km/ 0.6 mi.]

#### J/VD-RX-01(SC): Video Receiver

BNC (75 ohm)  
to Multimode (SC)  
[1 km/ 0.6 mi.]

#### J/VD-MRX-01(SC): Miniature Video Receiver

BNC (75 ohm)  
to Multimode (SC)  
[1 km/ 0.6 mi.]

#### J/VD-TX-01(SM): Video Transmitter

BNC (75 ohm)  
to Single Mode (ST)  
[10 km/ 6.2 mi.]

#### J/VD-RX-01(SM): Video Receiver

BNC (75 ohm)  
to Single Mode (ST)  
[10 km/ 6.2 mi.]

#### J/VD-MRX-01(SM): Miniature Video Receiver

BNC (75 ohm)  
to Single Mode (ST)  
[10 km/ 6.2 mi.]

### Optional Accessories (sold separately)

#### Mounting Options:

**WMBJ-V** (see page 69)  
Wall Mount Bracket Kit

**E-MCR-05** (see page 68)  
12-slot Media Converter Rack (for receivers)



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