

# J/VD Series

## Analog CCTV Video Media Converter



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.

### 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
- Wide input power supply:
  - Transmitter: 9 – 24 VAC with 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

### Specifications

Video Formats	NTSC, PAL, SECAM
Optical Specs	Multimode: 850nm, 3.0 dB Link Budget Single mode: 1310nm, 3.0 dB Link Budget
Status LED	J/VD-TX-01(xx) Transmitter: PWR(Power): ON = Power connected RX: ON = Copper Video feed IN  J/VD-RX-01(xx) Receiver: PWR(Power): ON = Power connected RX: ON = Fiber Video feed IN
Dimensions	Transmitter: Width: 2.0" [51 mm] Depth: 2.2" [56 mm] Height: 1" [25 mm]  Receiver: Width: 4.0" [102 mm] Depth: 3.0" [76 mm] Height: 1" [25 mm]
Power Consumption	3.0 Watts
Power Supply	Transmitter: 9 – 40 VDC, 9 – 24 VAC Receiver: 9 – 16 VAC/DC
Environment	Operating: 0°C to 50°C Humidity: 5% to 90% (non-condensing) Storage: -25°C to 85°C Altitude: 0 - 10,000 ft.
Weight	1 lb. [0.45 kg]
Compliance	EN55022 Class A, FCC Class A, CE Mark, EN55024 Power Supply: UL Listed, EN60950
Warranty	Lifetime

### Ordering Information

**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-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-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.]

#### Mounting Options

**RMS19-SA4-02**  
4-Slot Media Converter Shelf

**E-MCR-05**  
12-slot Media Converter Rack (for Receiver)

**WMBJ-V**  
Wall Mount Bracket kit (for Transmitter)

**WMBS**  
Wall Mount Bracket kit (for Receiver)