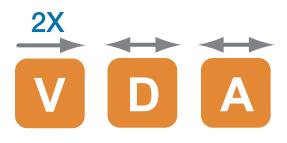


## VIDEO OVER FIBER

# RC-V2BD1A1TR Series

2-CHANNEL DIGITALLY ENCODED VIDEO/ 1-CHANNEL BI-DIRECTIONAL DATA/ 1-CHANNEL BI-DIRECTIONAL AUDIO TRANSCEIVER



## OVERVIEW

RC-V2BD1A1T/R Series transmitter and receiver transmit 2-channel 8-bit digitally encoded video,1-channel bi-directional data and 1-channel bi-directional audio over one core singlemode or multimode fiber. Optimized optical modules ensure the highest performance for most demanding CCTV applications. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation. The modules are available in either standalone or rack mount versions.

## **APPLICATIONS**

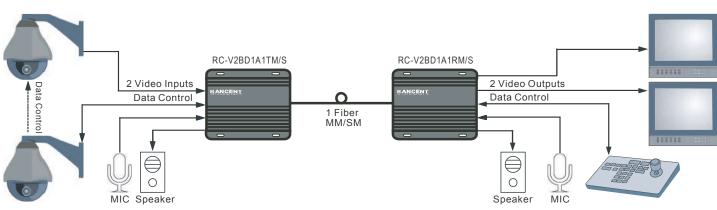
- CCTV(Fixed Video)
- Intelligent transportation systems (ITS)
- Security and surveillance
- Access Control

## SYSTEM DESIGN



## FEATURES

- 8-Bit Digitally Encoded Uncompressed Transmission
- 24-Bit Digitally Encoded Audio Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video, Data and Audio
- High Performance Laser-based Optics
- Plug-and-play Design with No Adjustment Required
- Local LED Indicators to Monitor System Status
- Wide Optical Dynamic Range
- No EMI, RFI, Cross Talk and Video Distortion
- Support up to 30KM
- No Video Degradation and Optical Attenuation
- Multimode or Singlemode Fiber
- Standalone or Rack Mount Options



# **RC-V2BD1A1TR Series**

2-Channel Digital Encoded Video/1-Channel Bi-directional Data / 1-Channel Bi-directional Audio Transceiver

## **SPECIFICATIONS**

#### Video

Video Input 1 volt pk-pk (75 ohms) Video Voltage Range 0.6~2.0Vp-p Video Input/Output Channels 2 Bandwidth 5 Hz to 8 MHz Bit Resolution **Differential Gain Differential Phase** Tilt S/N Ratio

#### Data

Data Protocol Data Rate Error Rate

#### Audio

Audio Impedance Max Input/Output Voltage Frequency Response Bit Resolution S/N Ratio

8-bit 1% <1° < 1% > 60dB (Weighted) RS485/RS422/RS232

0~300kps 10

600 Ohms 2.0Vp-p 10Hz ~ 20KHz 24-bit > 95dB (Weighted)

### Indicating LEDs

### Optical

Wavelength

**Optical Emitter** Number of Fibers

#### Connectors

Optical Video Data/Audio/Contact Ethernet

#### General

Power Supply Size Construction: Finish: MTBF: **Operating Temp** Storage Temp

Power Present Video Present

850/1310nm, MM 1310/1550nm, SM Laser Diode 1

ST or SC BNC **Terminal Screws** Shielded RJ45

DC5V 2A 152 ×130 ×28.8mm Aluminum Paint > 100,000 hours -35° C to + 65°C -40° C to +85°C

## **ORDERING INFORMATION**

Part Number	Description	Fiber	Optical PWR Budget	
	2 Video/1 Bi Data/1 Bi Audio TX		20dB	30KM
RC-V2BD1A1RS	2 Video/1 Bi Data/1 Bi Audio RX	Singlemode	20dB	30KM
RC-V2BD1A1TM	2 Video/1 Bi Data/1 Bi Audio TX	Multimode	14dB	3KM
RC-V2BD1A1RM	2 Video/1 Bi Data/1 Bi Audio RX	Multimode	14dB	3KM

\*Optical transmission distance is limited to optical loss of the fiber and any additional lossintroduced by connectors, splices and patch panels.



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