#### **RANCENT** TECHNOLOGIES

## VIDEO OVER FIBER

# RC-V1BD1A1C1ETR Series

1-CHANNEL DIGITALLY ENCODED VIDEO/ 1-CHANNEL BI-DIRECTIONAL DATA/ 1-CHANNEL BI-DIRECTIONAL AUDIO/ 1-CHANNEL BI-DIRECTIONAL CONTACT CLOSURE/ 1-CHANNEL 10/100M ETHERNET TRANSCEIVER





### OVERVIEW

RC-V1BD1A1C1ET/R Series transmitter and receiver transmit 1-channel 8-bit digitally encoded video,1-channel bi-directional data, 1-channel bi-directional audio, 1-channel bi-directional contact closure and 1-channel 10/100M Ethernet over one core single mode 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.

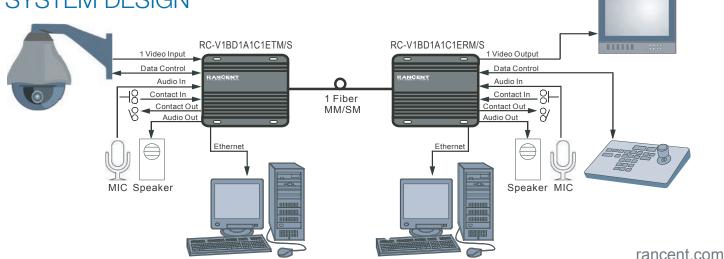
### **APPLICATIONS**

- 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 Vide, Data, Audio Contact Closure and Ethernet
- Simplex or Full-duplex RS485 or RS422 Operation
- 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-V1BD1A1C1ETR Series**

1-Channel Digital Encoded Video/1-Channel Bi-directional Data / 1-Channel Bi-directional Audio/1-Channel Bi-directional Contact Closure/1-Channel 10/100M Ethernet Transceiver

1 volt pk-pk (75 ohms)

0.6~2.0Vp-p

8-bit

1%

<1°

10

< 1%

0~300kps

600 Ohms

10Hz ~ 20KHz

2.0Vp-p

24-bit

5 Hz to 8 MHz

> 60dB (Weighted)

RS485/RS422/RS232

### SPECIFICATIONS

#### Video

Video Input Video Voltage Range Bandwidth 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

### Contact Closure

Relay

24VDC/0.5A (NO) 125VAC/0.1A(NO)

> 95dB (Weighted)

### Ethernet

Data Rate

Indicating LE Ds

#### 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 10/100Mbps

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	
	1 Video/1 Bi Data/1 Bi Audio/1 Bi Contact/1 Ethernet TX	SM	20dB	30KM
RC-V1BD1A1C1ERS	3 1 Video/1 Bi Data/1 Bi Audio1 Bi Contact/1 Ethernet RX	SM	20dB	30KM
RC-V1BD1A1C1ETM	1 1 Video/1 Bi Data/1 Bi Audio/1 Bi Contact/1 Ethernet TX	MM	14dB	ЗКМ
RC-V1BD1A1C1ERM	1 Video/1 Bi Data/1 Bi Audio1 Bi Contact/1 Ethernet RX	MM	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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