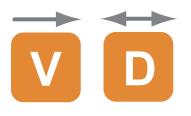
RANCENT TECHNOLOGIES

VIDEO OVER FIBER

RC-V1BD1TR-HD Series

1-CHANNEL DIGITALLY ENCODED HD-CVI/TVI/AHD VIDEO WITH 1-CHANNEL BI-DIRECTIONAL DATA TRANSCEIVER



OVERVIEW

RC-V1BD1T/R-HD Series video transmitter and receiver support highest quality of 10-bit digitally encoded HD-CVI, AHD or HD-TVI video and bi-directional data transmission over one core single mode or multimode fiber. Optimized optical modules which are compatible with 25/30/50/60F @720P and 25/30F@1080P ensure the highest performance for most demanding 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

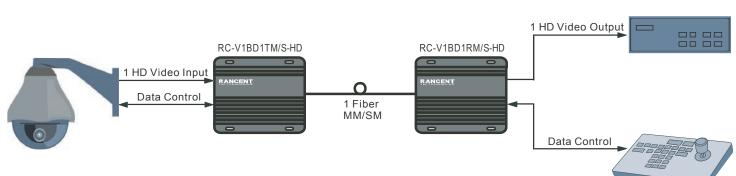
- Analog HD CCTV(PTZ Video)
- Intelligent transportation systems (ITS)
- Security and surveillance
- Access Control

SYSTEM DESIGN



FEATURES

- 10-Bit Digitally Encoded Uncompressed Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video and Data
- 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



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RC-V1BD1TR-HD Series

1-Channel Digital Encoded HD-CVI/TVI/AHD Video with 1-Channel Bi-Data Transceiver

SPECIFICATIONS

Video

Video Input 1 volt pk-pk (75 ohms) Video Voltage Range 0.6~2.0Vp-p Video Input/Output Channels 1 Bandwidth 60 MHz **Bit Resolution** 10-bit **Differential Gain** 1% **Differential Phase** <1° < 1% Tilt Up/down time <0.8ns Max. Shake <0.2 UI **Reflection Loss** >15dB S/N Ratio > 60dB (Weighted))

Data

Data Protocol Data Rate Data Channels Error Rate

RS485/RS422/RS232 0~300kps 1 (Bi-directional) 10

Indicating LEDs

Optical

Wavelength

Optical Emitter Number of Fibers

Connectors

Optical Video

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

DC5V 2A 110 x 104 x 28mm Aluminum Paint > 100,000 hours -35° C to + 65°C -40° C to +85°C

ORDING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	
RC-V1BD1TS-HD	1 HD Video/1 Bi Data Transmitter	SM	20dB	30KM
RC-V1BD1RS-HD	1 HD Video/1 Bi Data Receiver	SM	20dB	30KM
RC-V1BD1TM-HD	1 HD Video/1 Bi Data Transmitter	MM	14dB	3KM
RC-V1BD1RM-HD	1 HD Video/1 Bi Data Receiver	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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