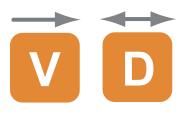


VIDEO OVER FIBER

RC-V1BD1HDTR-C Series

1-CHANNEL DIGITALLY ENCODED HD-CVI/TVI/AHD VIDEO WITH 1-CHANNEL **BI-DIRECTIONAL DATA TRANSMITTER AND RECEIVER MODULE**



OVERVIEW

RC-V1BD1HDTR-C Series video transmitter and receiver card module incorporates an all-digital encoding technology that transmits 10-bit digitally encoded HD-CVI/TVI/AHD video and bi-directional data over one core singlemode or multimode fiber. Simplex or Full-duplex RS485 or RS422 Operation The model is available as rack mountable cards that can be installed in Rancent's RC-300C 19" rack mount chassis. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations for different transmission applications. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation.

APPLICATIONS

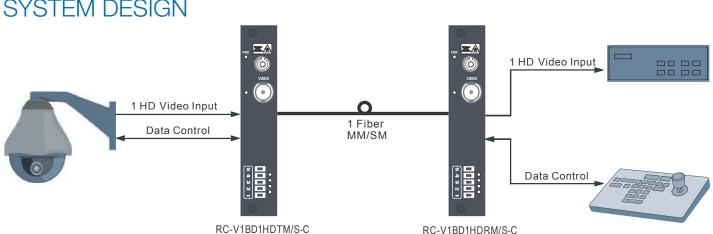
- Analog HD CCTV(PTZ Video)
- Intelligent transportation systems (ITS)
- Security and surveillance
- Access Control

SYSTEM DESIGN



FEATURES

- 10-Bit Digitally Encoded Uncompressed Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video and Data
- 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-V1BD1HDTR-C Series

1-Channel Digital Encoded HD-CVI/TVI/AHD Video with 1-Channel Bi-Data Transmitter and Receiver Module

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 170 x 129 x 20.5mm Aluminum Paint > 100,000 hours -35° C to + 65°C -40° C to +85°C

ORDING INFORMATION

Part Number	Description		Optical PWR Budget	
	1 HD Video/1 Bi Data Transmitter Module	SM	20dB	30KM
RC-V1BD1HDRS-C	1 HD Video/1 Bi Data Receiver Module	SM	20dB	30KM
RC-V1BD1HDTM-C	1 HD Video/1 Bi Data Transmitter Module	MM	14dB	3KM
RC-V1BD1HDRM-C	1 HD Video/1 Bi Data Receiver Module	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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