

RC-V1TR Series

1-CHANNEL DIGITALLY ENCODED
VIDEO TRANSCEIVER



OVERVIEW

RC-V1T/R Series video transmitter and receiver support highest quality of 8-bit digitally encoded video transmission over one core single mode or multimode fiber. Optimized optical modules 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.

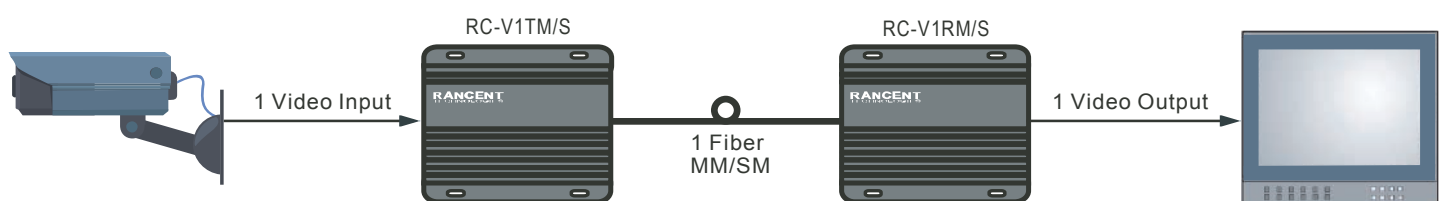
APPLICATIONS

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

FEATURES

- 8-Bit Digitally Encoded Uncompressed Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- 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

SYSTEM DESIGN



RC-V1TR Series

1-Channel Digital Encoded Video 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	5 Hz to 8 MHz
Bit Resolution	8-bit
Differential Gain	1%
Differential Phase	<1°
Tilt	< 1%
S/N Ratio	> 60dB (Weighted)

Optical

Wavelength	1310nm, Multimode 1310nm, Singlemode
Optical Emitter	Laser Diode
Number of Fibers	1

Indicating LEDs

Power Present
Video Present

Connectors

Optical	ST or SC
Video	BNC

General

Power Supply	DC5V 2A
Size	110 x 104 x 28mm
Construction:	Aluminum
Finish:	Paint
MTBF:	> 100,000 hours
Operating Temp	-35° C to + 65°C
Storage Temp	-40° C to +85°C



ORDERING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	Maximum Distance
RC-V1TS	1-Channel Video Transmitter	Singlemode	20dB	30KM
RC-V1RS	1-Channel Video Receiver	Singlemode	20dB	30KM
RC-V1TM	1-Channel Video Transmitter	Multimode	14dB	3KM
RC-V1RM	1-Channel Video Receiver	Multimode	14dB	3KM

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