PRODUCT

Transmitter and receiver modules

One channel, unidirection, video transmitter and receiver

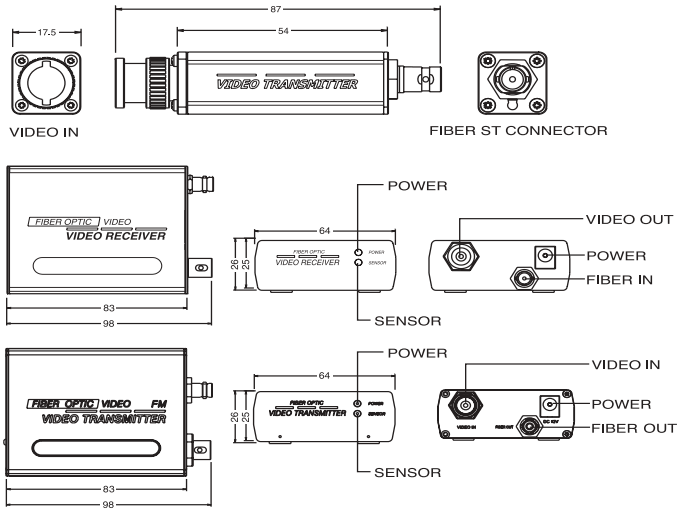
Feature

- Base band or FM transmission.
- AGC function.
- Typically, the maximum transmission distance 5 Km for multi mode optical fiber products and 65 Km for single mode fiber products. (Transmission distance is limited to fiber loss, connector loss etc.)
- Low noise
- MTBF>10^5 hr.

Description

The TRC TVX/RVX-M31XS series video transmitter/receiver provides transmission of one channel video signal utilizing FM modulation or baseband on one multi mode optical fiber. Plug and Play design ensures ease of installation without electrical or optical adjustments. The receiver incorporates a power and signal LED indicators for monitoring system operation. These modules are available in stand-alone or rack mount versions. The TRC TVX/RVX-S31XS, video transmitter/receiver on single mode optical fiber, are also available.

Structure



Order Information

Video Standalone Baseband Transmission

Channel	Model No.	Fiber	Single Mode / Multi Mode	Transmitter / Receiver	Description	Pack
V	TVX-M31XS-B	1	Multi-Mode	Transmitter	Video Transmitter, 1310nm, Baseband transmission, 1ch x 1 fiber, DC12V	standalone
V	SVX-M31XS-B	1	Multi-Mode	Transmitter Receiver	Video Transmitter & Receiver set, 1310nm, Baseband transmission, 1ch x 1 fiber, DC12V	standalone
V	RVX-M31XS-B	1	Multi-Mode	Receiver	Video Receiver, 1310nm, Baseband transmission, 1ch x 1 fiber, DC12V	standalone

Video Standalone-L FM Transmission

Channel	Model No.	Fiber	Single Mode / Multi Mode	Transmitter / Receiver	Description	Pack
V	TVX-M31XS	1	Multi-Mode	Transmitter	Video Transmitter, 1310nm, 1ch x 1 fiber, DC12V	standalone-L*
V	RVX-M31XS	1	Multi-Mode	Receiver	Video Receiver, 1310nm, 1ch x 1 fiber, DC12V	standalone-L*
V	SVX-M31XS	1	Multi-Mode	Transmitter Receiver	Video Transmitter & Receiver set, 1310nm, 1ch x 1 fiber, DC12V	standalone-L*
V	TVX-S31XS	1	Single Mode	Transmitter	Video Transmitter, 1310nm, 1ch x 1 fiber, DC12V	standalone-L*
V	RVX-S31XS	1	Single Mode	Receiver	Video Receiver, 1310nm, 1ch x 1 fiber, DC12V	standalone-L*
V	SVX-S31XS	1	Single Mode	Transmitter Receiver	Video Transmitter & Receiver set, 1310nm, 1ch x 1 fiber, DC12V	standalone-L*

* The transmitter and receiver module are same dimension 98mm (W) X 64mm (H) X 26mm (L)

Specification

■ Transmitter

Optical wavelength	1310nm
Optical Power	more than -15dBm for LED (Multi Mode)
	more than -3dBm for LD (Single Mode)
Fiber connector	ST type for multi mode fiber;
	FC/PC type for single mode fiber
Video input	NTSC/PAL/CCIR/EIA-RS
	170; BNC connector
Modulation	Base band or FM modulation
Bandwidth	10 MHz
Differential gain and phase	≤ 5%, 5°
S/N	50 db
Power supply	DC 12V
Operating temperature	-10°C~+65°C
Storage temperature	-20°C~+80°C
Dimension (WxHxL) mm	17.5x17.5x87 (Stand alone)
	98 x 64 x 26 (Stand alone-L)

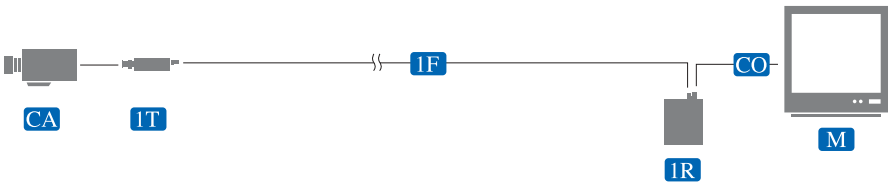
■ Receiver

Optical wavelength	1310nm
Responsibility	0.9 A/W for 1310nm
Fiber connector	ST type for multi mode fiber;
	FC/PC type for single mode fiber
Sensitivity	Better than -25 dbm
Bandwidth	10 MHz
Receiving type	Base-band or FM demodulation
S/N	50 db
AGC function	Yes
Differential gain and phase	≤ 5%, 5°
Video output	1Vp-p, 75 ohms
Power supply	DC 12V / AC 24V
Operating temperature	-10°C~+65°C
Storage temperature	-20°C~+80°C
Dimension (WxHxL) mm	98x64x26 mm
	(Stand-alone and Stand-alone-L)
	165x33.5x220 mm (Rack mount)

Application example

■ Example 1

One camera with simplex fiber cable transmission.



- CA camera
- 1T one channel video transmitter
- 1F simplex fiber cable
- 1R one channel video receiver
- CO coaxial cable
- M monitor
- PC patch cord
- 4F 4 cores fiber cable
- A.B splicing points
- Q or S quad or switcher

■ Example 2

Four cameras with 4 cores fiber cable transmission.