

8V

# Eight channels, unidirection, video transmitter and receiver



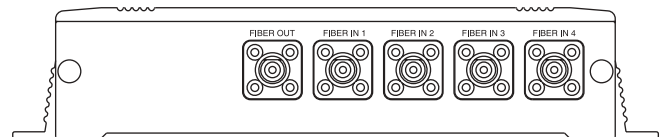
## Feature

- FM-FDM and WDM.
- AGC function.
- Typically, the maximum transmission distance 50 Km for single mode fiber products. (Transmission distance is limited to fiber loss, connector loss etc.)
- Low noise; low cross-talk.
- MTBF>10<sup>5</sup> hr.

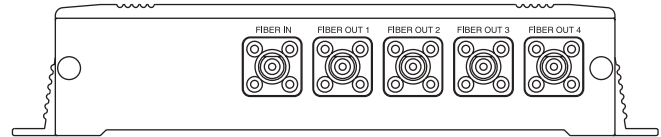
## Description

The TRC TVX/RVX-SB8XR video modules may transmit/receive eight video signals over one single mode fiber. The modules utilize FM modulation and demodulation to reduce ghosting, jitter and cross talk between channels, thereby providing superior image. The modules incorporate power and video detect status indicating LEDs to monitor proper system operation.

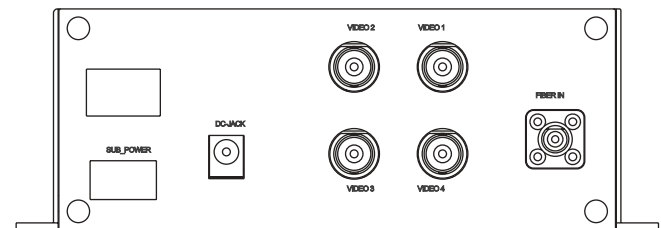
## Structure



WDM TRANSMITTER



WDM RECEIVER



8V TRANSMITTER & RECEIVER

## Order Information

8 Video		Channel	Model No.	Fiber	Single Mode Multi Mode	Transmitter Receiver	Description	Pack
8V	TVX-SB8XR	1	Single mode	Transmitter	Video Transmitter, 1310nm + 1550nm, 8ch x 1 fiber, DC12V	Rack mount		
8V	RVX-SB8XR	1	Single mode	Receiver	Video Receiver, 1310nm + 1550nm, 8ch x 1 fiber, DC12V	Rack mount		



## Specification

### ■ Transmitter

Optical wavelength	1310nm / 1550nm
Optical Power	More than -3dbm (LD)
Fiber connector	FC/PC type for single mode fiber
Video input	NTSC/PAL/CCIR/EIA
Transmission type	FM-FDM and WDM
Bandwidth	8 MHz
Differential gain and phase	≤ 8%, 8°
Channel	8
Cross talk	Better than 30 db
S/N	50db
Power supply	DC 12V
Operating temperature	-10°C~+65°C
Storage temperature	-20°C~+80°C
Dimension (WxHxL) mm	165x57x202 (8V Rack mount) 165x33.5x200 (WDM Rack mount)

### ■ Receiver

Optical wavelength	1310nm /1550nm
PIN	InGaAs (0.9 A/W at 1310nm / 1550nm)
Fiber connector	FC/PC type for single mode fiber
Transmission type	FM-FDM and WDM
Bandwidth	8 MHz
Cross talk	Better than -25dbm
Differential gain and phase	≤ 8%, 8°
Channel	8
Cross talk	Better than 30 db
S/N	50db
AGC function	Yes
Video output	1 V <sub>p-p</sub> , 75Ω
Power supply	DC 12V
Operating temperature	-10°C~+65°C
Storage temperature	-20°C~+80°C
Dimension (WxHxL) mm	165x57x202 (8V Rack mount) 165x33.5x200 (WDM Rack mount)

## Application example

■ **Example:** 8 cameras using simplex fiber cable to transmit video signals.

- CA** camera
- CO** coaxial cable
- 8T** 8 channel transmitter
- 8R** 8 channel receiver
- IF** simplex fiber cable
- OC** octal
- S** switch
- M** monitor

