

Overview

4-Channel Video Multiplexers transmit four channels of full-frame, real-time video over a single fiber. They accept monochrome and color signals in NTSC and PAL formats. The multiplexers consist of a four-channel transmitter and receiver, with both units available in standalone and rack configurations. S704V models feature multimode operation, while S7704V models operate over one single mode fiber.

Exceptional Performance

Full-frame, real-time video transmission delivers all the video captured by the camera. A bandwidth of 8 MHz enable the multiplexers to transmit extremely clear, high-resolution images. FM modulation assures that the image quality remains high over the full operating distance.

Superior Diagnostics

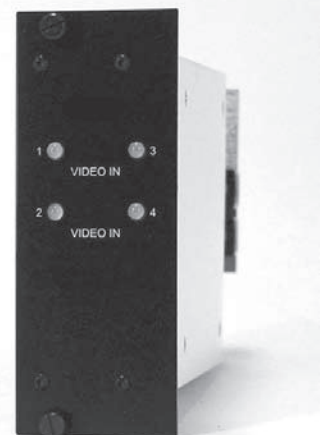
The SMARTSM diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.

Standard Features

- One-way transmission of four real-time, full frame video channels over one fiber
- Single and multimode models available
- Supports all major video formats
- 640 TV lines resolution
- 60 dB Video SNR
- 8 MHz video bandwidth
- Optical AGC
- 13 dB optical budget
- Operating distance up to 20 miles (32 km), depending on the model
- Standalone or rack configurations

4-Channel Video Multiplexer

S704V and S7704V



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Specifications

Video	S704V (Multimode)	S7704V (Single Mode)
Channels	4	
Format	NTSC, PAL, SECAM, EIA, CCIR	
Input/Output Signal	1.0 V p-p composite	
Bandwidth	8 MHz	
Signal-to-Noise Ratio	60 dB	
Video Resolution	640 TV lines	
Input/Output Impedance	75 ohms	
Differential Phase	4°	
Differential Gain	7%	

Optical	Multimode	Single Mode
Mode	Multimode	Single Mode
Optical Budget*	13 dB	
Emitter	Laser	
Wavelength	850 and 1300 nm	1310 and 1550 nm
Operating Distance**	3.2 mi (5.2 km)	20 mi (32 km)
Modulation Type	Frequency modulation	
Gain Control	Optical Automatic Gain Control (OAGC)	

Electrical		
Input Power, Standalone Units	12 - 14 VAC or 13.5 VDC regulated (transmitter) 13.5 VDC regulated (receiver)	
Input Power, Rack Units	13.5 VDC regulated	
Current Requirement	350 mA	
Power Consumption	5 W	
Power Factor	3 (rack units only)	
Protection	Solid-state short circuit protection	
Optional Power Supply	Model 610P (AC) or Model 613P (DC)	

Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	

Mechanical		
Dimensions (LWD), Standalone Units	Transmitter: 5.0" x 4.8" x 2.2" (127 x 122 x 56 mm) Receiver: 9.3" x 6.33" x 2.15" (236 x 161 x 55 mm)	
Dimensions, Rack Units	2 slots (2.0")	2 slots (2.0")
Weight	Standalone transmitter 2.8 lbs (1.27 kg) Standalone receiver: 1.86 lbs (0.84 kg) Rack: 1.86 lbs (0.84 kg)	
Construction	Steel (standalone Tx); Aluminum (rack & standalone Rx)	

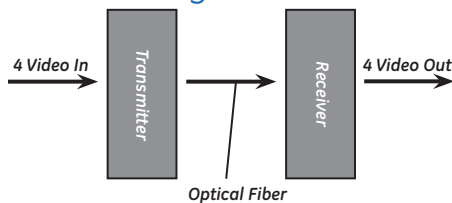
AGENCY COMPLIANCE



MADE IN THE USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

Related Diagram



Ordering Information

Use the Configurators below to select the options available for these products.

S704V - **ST**

Product Type	Enclosure
T Transmitter	E Standalone
R Receiver	R Rack Card

S7704V -

Product Type	Enclosure	Connector Type
T Transmitter	E Standalone	FC FC Type
R Receiver	R Rack Card	ST ST Type

* Optical Budget based on 62.5 μm fiber, for 50/125 μm fiber subtract 3 dB.

** Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update No. TB00-005, which can be found at www.gesecurity.com

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.
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imagination at work