

## Overview

The S701V series provides high performance video over one or two multimode fibers. The S701V system provides greater than 54 dB signal-to-noise ratio with a 10 MHz bandwidth and an optical budget of 13 dB. The high bandwidth is ideally suited for handling video feeds with embedded audio carriers.

## Rack or Standalone Models

The S701V series consists of a transmitter and a receiver. The S701V is available as a standalone unit and as a rack card for use in the 515R1/517R1 rack mount card cages. For multiple video signal distribution, a two-channel version is available.

## 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 or two video channels
- One-way video transmission over one or two multimode fibers
- Video SNR >54 dB
- 10 MHz video bandwidth
- Supports NTSC and PAL video formats
- Optical AGC
- 13 dB optical budget
- Operating distance up to 3.2 miles (5.2 km)
- Standalone or rack configurations

# One or Two- Channel Video

S701V  
S701V2



# GE Security

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## Specifications

Video	
Channels	1 or 2
Format	NTSC and PAL
Input/Output Signal	1.0 V p-p composite
Bandwidth	10 MHz
Signal-to-Noise Ratio	> 54 dB
Video Resolution	> 800 TVL
Input/Output Impedance	75 ohms
Differential Phase	3°
Differential Gain	3%

Optical	
Mode	Multimode
Optical Budget*	13 dB
Emitter	LED
Wavelength	850 nm
Operating Distance**	3.2 mi. (5.2 km)
Gain Control	Optical Automatic Gain Control (OAGC)

Electrical	
Input Power, Standalone Units	13.5 VDC regulated
Input Power, Rack Units	13.5 VDC regulated
Transmitter Current Requirement	50 mA (1-channel) 100 mA (2-channel)
Receiver Current Requirement	200 mA (1-channel) 400 mA (2-channel)
Transmitter Power Consumption	0.75 W (1-channel) 1.5 W (2-channel)
Receiver Power Consumption	3.0 W (1-channel) 6 W (2-channel)
Power Factor	2 or 4 (receiver), 1 (transmitter) (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	5.0 in. x 2.8 in. x 1.5 in. 127 x 71 x 38 mm
Dimensions, Rack Unit	1 slot (1 in.)
Weight, Standalone	0.28 lb. (0.13 kg)
Weight, Rack Unit	0.49 lb. (0.22 kg) S701V or 0.61 lb. (0.28 kg) S701V2
Construction, Standalone	Polycarbonate
Construction, Rack Unit	Aluminum

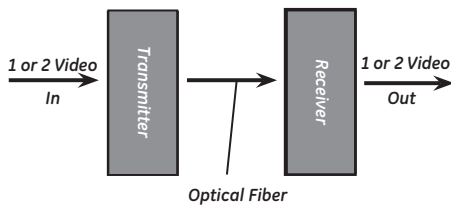
### AGENCY COMPLIANCE

**FCC** PART 15 COMPLIANT   US

### MADE IN THE USA

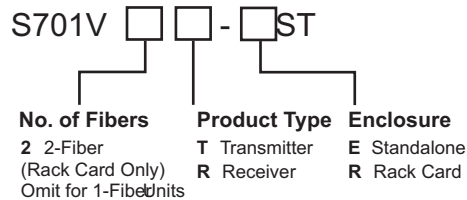
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

## Related Diagram



## Ordering Information

Use the Configurator below to select the options available for this product.



\* 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](http://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](http://www.GESecurity.com) or contact your GE Security sales representative. S701V-2006-09-2



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