

## 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)<br>100 mA (2-channel)              |
| Receiver Current Requirement    | 200 mA (1-channel)<br>400 mA (2-channel)             |
| Transmitter Power Consumption   | 0.75 W (1-channel)<br>1.5 W (2-channel)              |
| Receiver Power Consumption      | 3.0 W (1-channel)<br>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.<br>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)<br>S701V or<br>0.61 lb. (0.28 kg)<br>S701V2 |
| Construction, Standalone    | Polycarbonate  |
| Construction, Rack Unit     | Aluminum   |

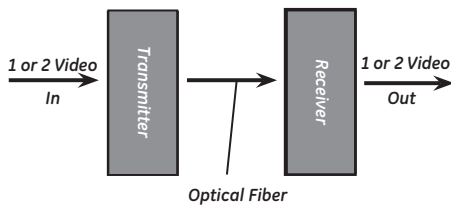
### AGENCY COMPLIANCE

**FCC** PART 15 COMPLIANT   US

### MADE IN THE USA

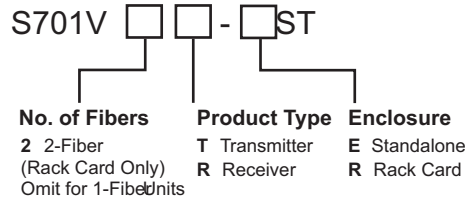
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

## 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.  
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