Overview
Single-channel Video transmitters meet the challenge for a low cost, high performance fiber optic video transmission system. The series transmits one channel of baseband composite video up to 3.2 miles (5.2 km) over one multimode fiber.

Rack Mount, Standalone, or Kit
The S700V series consists of a transmitter and a receiver. It is available as a standalone unit and as a rack card for use in the S15R1/S17R1 rack mount card cages.

The S700VT-PKG includes a miniature transmitter (with an 18-inch coax cable assembly), an S700V standalone receiver, and two 610P AC power supplies.

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

Standard Features
• One-way video transmission over one multimode fiber
• Single video channel
• Supports NTSC and PAL video formats
• Works with all cameras
• Video SNR >50 dB
• 8 MHz video bandwidth
• Optical AGC
• 13 dB optical budget
• Operating distance up to 3.2 miles (5.2 km)
• Standalone or rack configurations
• >640 TV lines resolution
• Works with all cameras
• Rack Mount, Standalone, or Kit configurations available

Single-Channel Video
S700V and S700V-PKG
Specifications

### Video

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<th>S700V</th>
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<tr>
<td>Channels</td>
<td>1</td>
<td></td>
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<tr>
<td>Format</td>
<td>NTSC and PAL</td>
<td></td>
</tr>
<tr>
<td>Input/Output Signal</td>
<td>1.0 V p-p composite</td>
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<tr>
<td>Bandwidth</td>
<td>8 MHz</td>
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<tr>
<td>Signal-to-Noise Ratio</td>
<td>&gt;50 dB</td>
<td></td>
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<td>Video Resolution</td>
<td>&gt;640 TV lines</td>
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<td>Input/Output Impedance</td>
<td>75 ohms</td>
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<tr>
<td>Differential Phase</td>
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<tr>
<td>Differential Gain</td>
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</tr>
</tbody>
</table>

### 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: 12 - 14 VAC or 13.5 VDC regulated
- **Transmitter Current Requirement**: 50 mA
- **Receiver Current Requirement**: 200 mA
- **Transmitter Power Consumption**: 0.7 W
- **Receiver Power Consumption**: 2.8 W
- **Power Factor**: 1 (transmitter), 2 (receiver) (rack units only)
- **Protection**: Solid-state short circuit protection
- **Power Supply**: Optional Model 610P (AC) or Model 613P (DC) (2 supplied)

### Environmental

- **Operating Temperature**: -40 to 167 °F [-40 to 75 °C]
- **Maximum Humidity**: 95% relative, noncondensing

### Mechanical

- **Dimensions (LWD)**
  - Standalone Units: 5.0” x 2.8” x 1.5” (127 x 71 x 38 mm)
  - Transmitter: 2.67” x 1.05” x 0.95” (68 x 27 x 24 mm)
  - Rack Units: 1 slot (1.0”)
  - Standalone Receiver: 5.0” x 2.8” x 1.5” (127 x 71 x 38 mm)
- **Weight**
  - Standalone: 0.67 lbs (0.31 kg)
  - Transmitter: 0.09 lbs (0.04 kg)
  - Receiver: 0.67 lbs (0.31 kg)
  - Rack: 0.49 lbs (0.22 kg)
  - Receiver: 0.67 lbs (0.31 kg)
- **Construction**
  - Standalone: Polycarbonate
  - Transmitter: Polycarbonate
  - Rack: Aluminum
  - Receiver: Polycarbonate

**S700V-PKG** includes a miniature transmitter with an 18-inch (456 mm) coax cable assembly, an S700V standalone receiver, and two 610P AC power supplies.

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* 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 GE Security online at www.GESecurity.com or contact your GE Security sales representative.

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