GE
Security

Fiber Optic
Video Transmitters and Receivers

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 515R1/517R1 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

S700V

S700V-PKG

GE
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U.S.
T (561) 998-6100
T 888-GE-SECURITY
888-(437-3287)
F 561 998 6224

Canada
T 519 376 2430
F 519 376 7258

Asia
T 852-2907-8108
F 852-2142-5063

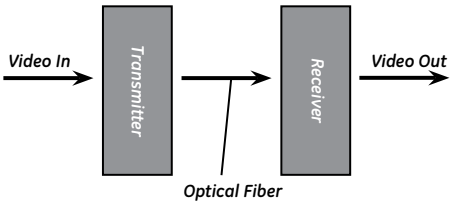
Australia
T 61-3-9676-1300
F 61-3-9646-7005

Europe
T 44-113-238-1668
F 44-113-253-8121

Latin America
T 305-593-4301
F 305-593-4300

www.gesecurity.com

Related Diagram



Ordering Information

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

S700V ☐ - ☐ ST

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

Specifications

Video	S700V	S700V-PKG
Channels	1	
Format	NTSC and PAL	
Input/Output Signal	1.0 V p-p composite	
Bandwidth	8 MHz	
Signal-to-Noise Ratio	>50 dB	
Video Resolution	>640 TV lines	
Input/Output Impedance	75 ohms	
Differential Phase	4°	
Differential Gain	10%	
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 Rack Units: 13.5 VDC regulated	S700V-MST: 12 - 14 VAC or 13.5 VDC regulated S700V: 12 - 14 VAC or 13.5 VDC regulated
Transmitter Current Requirement	50 mA	
Receiver Current Requirement	200 mA	
Transmitter Power Consumption	0.70 W	0.75 W
Receiver Power Consumption	2.8 W	3 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)	Model 610P (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) Rack Units: 1 slot (1.0")	Transmitter: 2.67" x 1.05" x 0.95" (68 x 27 x 24 mm) Standalone Receiver: 5.0" x 2.8" x 1.5" (127 x 71 x 38 mm)
Weight	Standalone: 0.67 lbs (0.31 kg) Rack: 0.49 lbs (0.22 kg)	Transmitter: 0.09 lbs (0.04 kg) Receiver: 0.67 lbs (0.31 kg)
Construction	Standalone: Polycarbonate Rack: Aluminum	Receiver: Polycarbonate Transmitter: Aluminum

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT CE c UL us

MADE IN THE USA

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

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.

* 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

S700V-2006-09-2

imagination at work