

Overview

S739DV and S7739DV Video and Control Data Systems represent a major advance in fiber-optic links for up-the-coax control systems. In up-the-coax systems, electrical signals are transmitted over coaxial cable. S739DV models feature multimode operation, while S7739DV models operate over single mode fiber. S739DV-PKG kits include a standalone multimode transmitter, a standalone multimode receiver, and two power supplies.

Multiple System Compatibility

In addition to video and control, these fiber links transmit response signals from the camera station to the control station. They can also transmit embedded genlock sync signals if the control system uses this feature. S739DV and S7739DV links work with most major brands of up-the-coax systems.

Superior Diagnostics

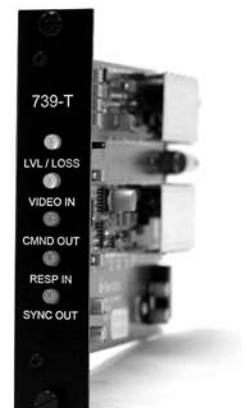
The SMARTS™ diagnostic technology provides input/output LEDs for video, command, response, Genlock sync, and optical signal strength.

Standard Features

- One-way video and two-way control, response and Genlock transmission over one or two fibers
- Single and multimode models available
- Compatible with most major up-the-coax control systems
- 800 TV lines video resolution
- Operates up to 31 miles (50 km), control system dependent
- Modern, heavy-duty housing design
- SMARTS™ diagnostics
- Standalone package includes a multimode transmitter, a multimode receiver, and two power supplies

Single-Channel Video, Universal Up-The-Coax Data

S739DV, S7739DV and S739DV-PKG



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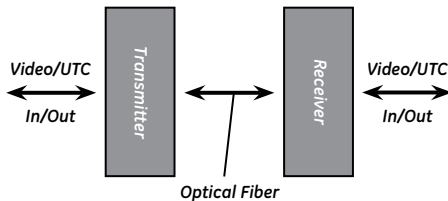
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Latin America
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Related Diagram



UTC = Up the Coax Control, Response and Genlock Signals

613P Power Supply (2 included with S739DV-PKG)

Input Power	100 - 240 VAC, 60/50 Hz
Output Voltage	13.5 VDC regulated
Output Current	1.3 A maximum
Power Consumption	18 W
AC Connection	Connects to standard wall outlet
Dimensions	1.27" x 2.3" x 4.35"
Weight	0.79 lbs (0.36 kg)

Ordering Information

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

S739DV - **ST**

Product Type	Enclosure	No. of Fibers	Optical Wavelength
T Transmitter	E Standalone	1 1 Fiber	Add L here only if ordering High Order Wavelength for (2-Fiber units only)
R Receiver	R Rack Card	2 2 Fibers	

S7739DV - **ST1**

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

♦Check with control system manufacturer for distance limits.

* 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. T800-005, 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.
S739DV-2006-09-2

Specifications

Video	S739DV (Multimode)	S7739DV (Single Mode)
Channels	1	
Format	EIA, CCIR, NTSC and PAL	
Input/Output Signal	1.0 V p-p composite	
Bandwidth	10 MHz	
Video Resolution	800 TVL	
Signal-to-Noise Ratio	> 54 dB	
Input/Output Impedance	75 ohms	
Differential Phase	< 3°	
Differential Gain	< 3%	
Data		
Formats♦	American Dynamics, Baxall Burle, Elbex (sync and control), Panasonic (PTZ and VD2), Pelco, Robot, Sensormatic, VCS, Vicon, Videoalarm, and others	
Location in vertical Interval	Control signal imposed on lines 8-19 (even fields) and lines 9-20 (odd fields)	
Pulse Amplitude	50 mV to 2 V	
Genlock Sync		
Detection Area	Can be imposed on all lines outside the control area	
Sync Amplitude	Up to 6 V	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB	
Emitter	LED or Laser (depending on wavelength)	LED
Wavelength	850 nm and/or 1300 nm	1310 nm and 1550 nm
Operating Distance♦**	Up to 11 mi. (18 km)	31 mi. (50 km)
Gain Control	Optical Automatic Gain Control (OAGC)	
Launch Power	-15 dBm minimum	
Receiver Sensitivity	-28 dBm minimum	
Electrical		
Input Power, standalone units	13.5 VDC regulated	
Input Power, rack units	13.5 VDC regulated	
Current Requirement	400 mA (transmitter); 380 mA (receiver)	
Power Consumption	5.4 W (transmitter); 5.1 W (receiver)	
Power Factor	4 (rack units only)	
Protection	Solid-state short circuit protection	
Optional Power Supply	Model 613P (DC)	
Environmental		
Operating Temperature	-40 to 167°F (-40 to 75°C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions (LWD), standalone units	5.0 in. x 4.8 in. x 1.5 in. (127 mm x 122 mm x 38 mm)	
Dimensions, rack units	1 slot (1.0 in.)	
Weight	Standalone 1.21 lb. (0.55 kg); rack 0.7 lb. (0.32 kg)	
Construction	Polycarbonate (standalone); Aluminum (rack)	

AGENCY COMPLIANCE

MADE IN THE USA



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

S739DV-PKG

Includes a standalone multimode transmitter, a standalone multimode receiver, and two power supplies.