

## Overview

S733DV and S7733DV fiber links provide one-way video transmission combined with two-way, 2-channel multiprotocol data, and 2-channel contact closure over one or two fibers. S733DV models feature multimode operation, while S7733DV models feature single mode operation.

## Video Processing

The units utilize 9-bit video processing of the video component along with a signal-to-noise ratio >60 dB that assures clean, noise-free video at the receiver.

## Data Translation

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data formats are selected during installation and can be easily changed in the field via rotary switch.

## Superior Diagnostics

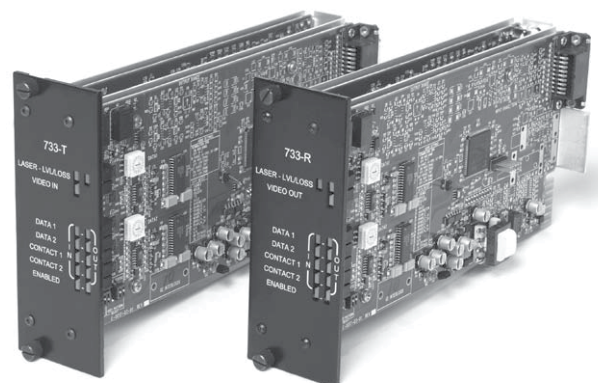
The SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including a video test pattern generator that allows failures to be diagnosed from the monitor. LED displays monitor the video, data, contact, and optical signals.

## Standard Features

- One-way video, two-way, 2-channel data transmission over one or two fibers
- Single and multimode models available
- 9-bit video processing
- 600 TV lines video resolution
- Unique data translation function
- Local or remote user-configurable data format
- Relay/contact closure - 2 duplex channels
- Supports multiprotocol data formats including RS-232, TTL, RS-422, RS-485, Manchester, Biphase, and SensorNet
- SMARTS™ diagnostics including on-screen monitor displays and built-in video test pattern generator

# Single-Channel Video, Two-Way 2-Channel Multiprotocol Data and Contact Closure

S733DV and S7733DV



# GE Security

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## Specifications

Video	S733DV (Multimode)	S7733DV (Single Mode)
Channels	1 simplex	
Format	All major formats	
Input/Output Signal	1.0 V pk - pk composite	
Bandwidth	8 MHz	
Video Resolution	600 TV lines	
Signal-to-Noise Ratio	>60 dB	
Input/Output Impedance	75 ohms	
Differential Phase	0.7°	
Differential Gain	2%	

Data		
Channels	2 duplex, format independent	
Formats	RS-232 (3-wire/5-wire), TTL, RS-422, RS-485 (2-wire/4-wire), Manchester, Biphase, SensorNet	
Baud Rate	250 kbps to 512 kbps (depending on data format)	
Relay/Contact Closures	2 duplex channels	
Relay/Contact Rating	1 A at 30 VDC	
Bit Error Rate	<1.0E-9	

Optical	Multimode	Single Mode
Mode	Multimode	Single Mode
Optical Budget*	13 dB	18 dB
Emitter	Laser	
Wavelength	850 nm and/or 1300 nm (depending on model)	1310 nm and/or 1550 nm (depending on model)
Operating Distance**	Up to 3.2 mi (5.2 km)	Up to 27 mi (43 km) (depending on model)
Gain Control	Optical Automatic Gain Control (OAGC)	

Electrical		
Input Power	13.5 VDC regulated	
Current Requirement	500 mA	
Power Consumption	7 W	
Power Factor	5	
Protection	Solid-state short circuit protection	
Power Supply	Model 613P (optional)	

Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	

Mechanical		
Dimensions	2 slots (2.0")	
Weight	0.8 lbs (0.36 kg)	
Construction	Aluminum	

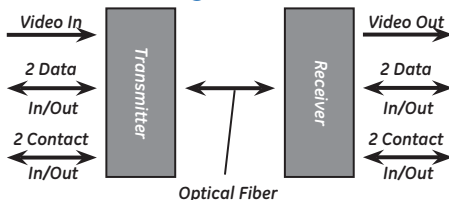
### AGENCY COMPLIANCE

**FCC** PART 15 COMPLIANT **CE** **UL** 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 Configurators below to select the options available for these products.

**S733DV**  - **RST**

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

**S7733DV**  - **R**

Product Type	Connector Type	No. of Fibers	Optical Wavelength
T Transmitter	FC FC Type	1 1 Fiber	Add L here only if ordering High Order Wavelength (2-Fiber units only)
R Receiver	ST ST Type	2 2 Fibers	

\* 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. S733DV-2006-09-2



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