



# GE Interlogix Fiber Options

# S735DV

## 8-Channel Video, Two-Way MPD Data, and 4 Contact Closures



## Product Specification

### Features

- ✓ 8 video channels on a single fiber
- ✓ 10-Bit digital encoding
- ✓ All in one data: Multi-protocol data: RS-232, RS-422, RS-485, Manchester, Biphase, TTL and Sensornet™
- ✓ Uses Coarse Wavelength Division Multiplexing (CWDM) technology
- ✓ User-configurable data format and unique data translation function
- ✓ Relay/contact closures - 4 forward channels
- ✓ SMARTS™ diagnostics, including on-screen monitor displays
- ✓ Forever Warranty™

### Description

The S735DV fiber link converts analog video to digital video and supports two-way transmission of all major data formats and one-way transmission of four forward relay/contact closure channels.

Digital transmission of the video component along assures clean, noise-free video at the receiver.

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 format is controlled by a simple rotary switch allowing this link to be retained if the control system is changed.

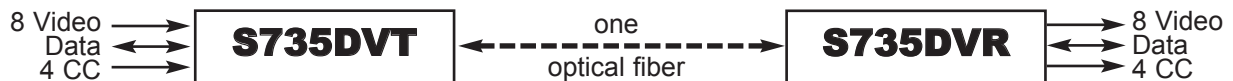
Fiber Options' unique SMARTS™ diagnostic technology provides an extensive set of built-in tools including channel diagnostic LEDs and on-screen monitor displays.

### Basic Model Description

**S735DV**

1-Fiber link, 850/1310/1330 nm

### SYSTEM DIAGRAM



### VIDEO

Number of Channels: 8  
 Standards Supported: EIA, CCIR, NTSC, PAL  
 Video Input/Output Signal: 1.0 V p-p composite  
 Input/Output Impedance: 75 Ω

Signal-to-Noise Ratio: >55 dB  
 Video Bandwidth: 6 MHz  
 Video Resolution: >480 TV lines  
 Differential Phase: 0.7°  
 Differential Gain: 2%

## SERIES S735DV

### DATA

Number of Channels: 1  
I/O Data Formats: RS-232 (3-wire and 5-wire), TTL, RS-422, Manchester, Biphase, Sensornet™, RS-485 (2-wire and 4-wire) with 200 mV, 1 and 2 V offsets and 4 forward relay/contact closures

Baud Rate:  
RS-232: 250 kbps  
Manchester: 250 kbps  
Biphase: 250 kbps  
RS-422: 512 kbps  
RS-485: 512 kbps  
TTL: 512 kbps

Relay/Contact Closures: 4 forward channels (TX to RX)

Relay/Contact Rating: 0.5 A @ 30 VDC

Maximum Distance: The maximum distance from the CCTV control system components to the fiber units is governed by the control system.

### ELECTRICAL

Input Voltage: 13.5 VDC, regulated  
Current Requirement: 1.43 A  
Rack Module  
Power Factor: 12  
Power Consumption: 20 W  
Protection: Solid-state short circuit protection (no fuse required)

Card Replacement: Cards are hot swappable

### OPTICAL

Optical Mode: Multimode  
Wavelength: 850/1310/1330 nm  
Optical Budget\*: 13 dB standard  
Operating Distance\*\*: 3.2 mi (5.2 km)  
Emitter Type: Laser  
Fiber Type: 62.5 μm  
Gain Control: Optical automatic (OAGC)  
Transmitter Launch Power: -15 dBm  
Receiver Sensitivity: -28 dBm

### ENVIRONMENTAL

Temperature Range  
in Operation: -40° to +167° F (-40° to +75° C)  
in Storage: -40° to +185° F (-40° to +85° C)  
Humidity Range in Operation and Storage:  
0 to 95% relative, noncondensing

### MECHANICAL

#### Rack Modules

Module Width: 4 slots, 4.0 in. (102 mm)  
Weight: 2.55 lb (1.16 kg)  
Construction: Aluminum  
Finish: Black semigloss paint

### SMARTS™ INDICATORS

Level/Loss™, Laser, Video, Data Input, Data Output, Contact, Enable Configuration

### CONTROLS

Data Format, Alarm Disable, Test Pattern Select

### AGENCY COMPLIANCE AND MTBF

Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022  
Immunity: EN50130-4, EN61000-3-2, -3  
Safety: UL1950, CAN/CSA 22.2, NO.950-95  
Laser Safety: 21CFR1040, EN60825  
MTBF: >100,000 hours

\*Optical Budget based on 62.5/125 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.fiberoptions.com](http://www.fiberoptions.com).

FCC PART 15  
COMPLIANT



For additional information about this product, refer to the Fiber Options Web site at [www.fiberoptions.com](http://www.fiberoptions.com).