GE Interlogix
Fiber Options

S736DV

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

Product Specification

Features

- **12 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 S736DV fiber link converts analog video to digital video and supports two-way transmission of all major data formats and one-way transmission of four relay/contact closure channels.

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

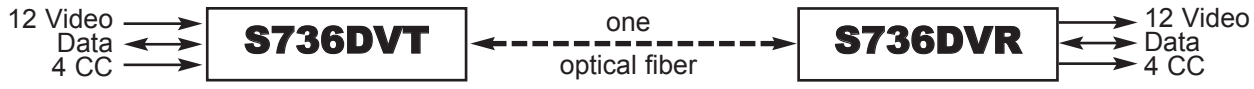
The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data format is controlled by a simple rotary switch allowing this link to be retained if the control system is changed.

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

S736DV	1-Fiber link, 850/1310/1330/1350 nm

SYSTEM DIAGRAM



VIDEO

Number of Channels:	12	Signal-to-Noise Ratio:	>55 dB
Standards Supported:	EIA, CCIR, NTSC, PAL	Video Bandwidth:	6 MHz
Video Input/Output Signal:	1.0 V p-p composite	Video Resolution:	>480 TV lines
Input/Output Impedance:	75 Ω	Differential Phase:	0.7°
		Differential Gain:	2%

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:	2.08 A
Rack Module	
Power Factor:	17
Power Consumption:	29 W
Protection:	Solid-state short circuit protection (no fuse required)
Card Replacement:	Cards are hot swappable

OPTICAL

Optical Mode:	Multimode
Wavelength:	850/1310/1330/1350 nm
Optical Budget*:	13 dB standard
Operating Distance**:	3.2 mi (5.2 km)
Emitter Type:	Laser
Fiber Type:	62.5 µm
Gain Control: (OAGC)	Optical automatic
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:	5 slots, 5.0 in. (127 mm)
Weight:	3.19 lb (1.47 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, EN 60825
MTBF:	>100,000 hours

*Optical Budget based on 62.5/125 um fiber, for 50/125 um 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.

FCC PART 15 COMPLIANT

For additional information about this product, refer to the Fiber Options Web site at www.fiberoptions.com.