

S737DV



**16-Channel Video and
Two-Way
Multiprotocol Data**



Product Specification

Features

- ✓ 16 video channels on a single fiber
- ✓ 10-Bit digital encoding
- ✓ All in one data: Multiprotocol data: RS-232, RS-422, RS-485, Manchester, Biphase, TTL and Sensornet™
- ✓ Uses Coarse Wavelength Division Multiplexer (CWDM) technology
- ✓ User-configurable data format and unique data translation function
- ✓ SMARTS™ diagnostics, including on-screen monitor displays
- ✓ Forever Warranty™

Description

The S737DV fiber link converts analog video to digital video and supports two-way transmission of all major data formats.

Digital transmission of the video component along assures clean, noise-free video at the receiver. Moreover, this link uses CWDM technology for maximum distance capabilities.

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.

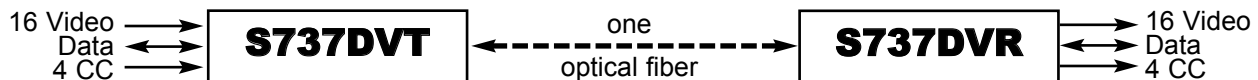
Fiber Options' unique SMARTS™ diagnostic technology provides an extensive set of built-in tools including channel diagnostic LEDs and on-screen monitor displays.

Basic Model Description

S737DV 1-Fiber link, 850/1310/1330/1350/1370 nm

For a complete list of models, see the Fiber Finder™ or price list at the back of this book.

SYSTEM DIAGRAM



VIDEO

Number of Channels:	16	Video Bandwidth:	6 MHz
Standards Supported:	EIA, CCIR, NTSC, PAL	Video Resolution:	>480 TV lines
Video Input/Output Signal:	1.0 V p-p composite	Differential Phase:	0.7°
Input/Output Impedance:	75 Ω	Differential Gain:	2%
Signal-to-Noise Ratio:	>55 dB		

SERIES S737DV

DATA

Number of Channels: 1
I/O Data Formats: RS-232 (3-wire and 5-wire), TTL, RS-422, Manchester, Biphase, Sensonet™, 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
RS-422 = 512 kbps
RS-485 = 512 kbps
Manchester = 250 kbps
Biphase = 250 kbps
TTL = 512 kbps
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 - 16 VDC
Current Requirement: 2.73 A
Rack Module Power Factor: 22
Power Consumption: 38 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 and 1370 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: 6 slots, 6.0 in. (152 mm)
Weight: 3.83 lb (1.74 kg)
Construction: Aluminum
Finish: Black semigloss paint

SMARTS™ INDICATORS

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

CONTROLS

Data Format, Alarm Disable, Test Pattern Select

AGENCY COMPLIANCE AND MTBF

Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity: ENV50130-4, EN61000-3-2, -3
Safety: UL1950, CAN/CSA 22.2, NO.950-95
Laser Safety: 21CFR1040, EN60825
MTBF: >100,000 hours

*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.