



S732DV



S7732DV



Video and Two-Way Multiprotocol Data

Product Specification

Features

- ✓ 8-bit digital video transmission
- ✓ 480 TV lines resolution
- ✓ SMARTS™ Diagnostics
- ✓ Multiprotocol data: RS-232, RS-422, RS-485, Manchester, Biphase, TTL, SensorNet
- ✓ Unique data translation function
- ✓ User-configurable data format
- ✓ 24 VAC/12-16 VDC transmitter power
- ✓ Forever Warranty™

Description

The S732DV/S7732D fiber link converts analog video to digital video and supports two-way transmission of all major data formats. It is not necessary to order or stock different models to support different data formats.

Digital transmission of the video component along with a signal-to-noise ratio of >55 dB assures clean, noise-free video at the receiver. Moreover, this link supports all major video formats.

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.

Fiber Options' unique SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools.

Basic Multimode Models

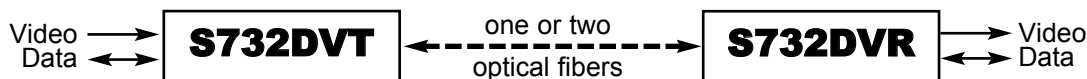
S732DV-1	1-Fiber link, 850/1300 nm
S732DV-2	2-Fiber link, 850 nm
S732DV-2L	2-Fiber link, 1300 nm

Basic Single-Mode Models

S7732DV-1	1-Fiber link, 1310/1550 nm
S7732DV-2	2-Fiber link, 1310 nm
S7732DV-2L	2-Fiber link, 1550 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:	1	Video Bandwidth:	6 MHz
Standards Supported:	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 S732DV AND S7732DV

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 off sets & forward relay option
Baud Rate: RS-232, Manchester, Biphase = 250 kbps
RS-422, RS-485, TTL = 512 kbps
Bit Error Rate: <10⁻⁹
Maximum Distance: The maximum distance from the CCTV control system components to the fiber units is governed by the control system.

ELECTRICAL

Input Voltage:
Standalone Transmitter: 24 VAC ± 10%
12 - 16 VDC
Standalone Receiver: 13.5 - 16 VDC
Rack Modules: 13.5 - 16 VDC
Current Requirement: 450 mA
Rack Module Power Factor: 4
Power Consumption: 6 W
Protection: Solid-state short circuit protection (no fuse required)
Card Replacement: Cards are hot swappable

OPTICAL

Optical Mode: S732DV: Multimode
S7732DV: Single Mode
Wavelength: S732DV: 850, 1300 nm
S7732DV: 1310, 1550 nm
Optical Budget: S732DV: 13 dB
S7732DV: 18 dB
Operating Distance*:
S732DV-1, -2: 3.2 mi (5.2 km)
S732DV-2L: 11 mi (18 km)
S7732DV-1, -2: 28 mi (45 km)
S7732DV-2L: 37 mi (60 km)

*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.

Emitter Type: Multimode: LED and/or Laser
Single Mode: Laser
Fiber Type: Multimode: 62.5 μm
Single Mode: 8.3 μm
Gain Control: Optical automatic (OAGC)
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

Standalone Modules

Dimensions: Height: 5.0 in (127 mm)
Width: 4.84 in (123 mm)
Depth: 1.63 in (57 mm)
Weight: 0.75 lb (0.34 kg)
Construction: Steel
Finish: Gray textured paint
Mounting Method: 4 No. 6 (3 mm) screws

Rack Modules

Module Width: 1 slot, 1.0 in. (25.4 mm)
Weight: 0.55 lb (0.25 kg)
Finish: Black semigloss paint

SMARTS™ INDICATORS

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

AGENCY COMPLIANCE AND MTBF

Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity: ENV50204, EN61000-4-2,3,4,5,6,11
Safety: UL1950, CAN/CSA 22.2, NO.950-95
Laser Safety: 21CFR1040; EN 60825-1,2
MTBF: >100,000 hours

FCC PART 15
COMPLIANT



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