

S734DVR-EST1

4-Ch Digital Video, MPD Data Rx, MM, Can

Overview

The S734DV and the S7734DV video multiplexers transmit four channels of video combined with two-way multiprotocol data and four contact closure channels over one single mode or multimode fiber. The S734DV and the S7734DV links convert four channels of baseband composite video to digital format for transmission. Digital transmission of the video assures clean, noise-free video at the receiver.

Multiple Data Formats

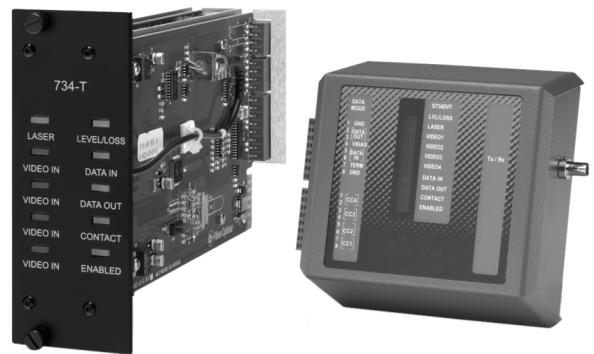
Two-way data permits remote control of a PTZ and response from the receiver/driver to the control center. The unique multiprotocol data design accepts all major formats. Four relay/contact closure channels in the forward direction permit transmission of switch closures.

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 builtin diagnostic tools including LEDs that monitor the operating status of the video and optical signals.



Details

- Four video channels, two-way data and four one-way contact closure channels transmitted over one single mode or multimode fiber
- 8-10-bit video processing depending on channels used
- 500 TVL video resolution
- Unique data translation function
- Local or remote user-configurable data format
- Relay/contact closure - 4 forward channels
- Supports multiprotocol data formats including RS-232, TTL, RS-422, RS-485, Manchester, Biphase, and SensorNet
- SMARTS™ diagnostics including extensive LEDs and on-screen monitor displays

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Technical specifications

Video

Video channels	4
Channels	4
Format	NTSC and PAL
Input/Output Signal	1.0 V pp composite
Bandwidth	6.2 MHz
Video Resolution	500 TVL
Signal-to-Noise Ratio	>55 dB
Input/Output Impedance	75 ohms
Differential Phase	0.7°
Differential Gain	<2%

Data

Data channels	1
Channels	1 duplex
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	4 simplex channel (TX to RX)
Relay/Contact Rating	0.5 A at 30 VDC
Bit Error Rate	<1.0E-9

Optical

Fiber type	Multi Mode (MM)
No. of fibers	1
Fiber connector type	ST
Mode	Multimode or Single Mode
Optical Budget	Multimode 13 dB; Single Mode 18 dB
Emitter	Laser
Wavelength	Multimode 850nm and 1300 nm; Single Mode Laser 1310 nm and 1550 nm (Depending on model)
Operating Distance	Multimode 3.2 mi (5.2 km); Single Mode 20 mi (32 km) (depending on model)
Launch Power	-9 dBm
Receiver Sensitivity	-22 dBm
Gain Control	Optical Automatic Gain Control (OAGC)

General

Transmit/receive	Receiver
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Electrical

Input Power, Standalone Units	24 VAC or 13.5 VDC regulated (transmitter)
Input Power, Rack Units	13.5 VDC regulated
Current Requirement	400 mA (standalone transmitter), 650 mA (rack units)/standalone Rx
Power Consumption	5.6 W (standalone transmitter), 9 W (rack units)/standalone Rx
Power Factor	5 (rack units only)
Protection	Solid-state short circuit protection
Power Supply	Model 613P (optional)

Physical

Form factor	Stand Alone
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Environmental

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

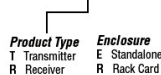
Standards

Emmissions	FCC Part 15, ICES-003, AS/NZS 3548, EN55022
Immunity	ENV50130-4
Safety	UL 1950, CAN/CSA 22.2, NO. 950-95
Laser Safety	21CFR1040, EN60825-1, -2

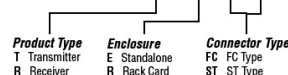
Mechanical

Dimensions (LWD), Standalone Units	5.0" x 4.8" x 2.2" (127 x 122 x 56 mm)
Dimensions, Rack Units	2 slots (2.0")
Weight, Rack Units	1.2 lbs (0.56 kg)
Weight, Standalone Units	1.7 lbs (0.77 kg)
Construction	Steel (standalone); Aluminum (rack)

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