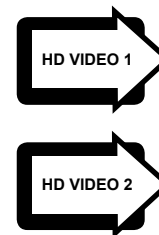




Two Uni-directional Channels of Multi-rate SDI / HDSDI Video



FEATURES:

- Uni-directional transmission of Multi-Rate SDI / HD-SDI (19 Mbps to 1.5Gbps) over one fiber
- Real-Time, Uncompressed Video Transmission
- Supports Both Singlemode And Multimode Fiber
- Supports The Following Formats :
 - 19.4 Mbps (SMPTE 310M)
 - 143 To 540 Mbps SMPTE 259M/344M
 - 1.485 Gbps SMPTE 292M HDTV
 - DVB-ASI at 270 Mbps
 - SMPTE 305M SDTI Rates
- Error Free Pathological Pattern Performance
- Rack Mounted Card Units
- Supports Embedded Audio and Metadata
- Distances in Excess of 40 km
- Led Indicators for :
 - Power
 - Rx Optical Power
 - Tx Video Signal Present
 - Laser Over Current
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Available with ST or FC Optical Connectors
- Requires No User Adjustments

DESCRIPTION:

The ST/SR-2HD-x system is a part of Meridian's DigiView product family and will transmit two uni-directional channels of real-time SDI/HDSDI video over one multimode or singlemode fiber.

Tx side:
ST-2HD-x

Two channels SDI/HDSDI Video:

1. Tx @ 1310nm
2. Tx @ 1550nm

Rx side:
SR-2HD-x

Two channels SDI/HDSDI Video:

1. Rx @ 1310nm
2. Rx @ 1550nm

These serial digital video transmitters & receivers provide broadcast quality transmission of the industry standard range of digital video data rates. The entire electrical and optical subsystems are housed in a standard Meridian 1-slot card design for mounting in any venue, particularly those with space constraints. No user adjustments are needed thus ensuring fast deployment and setup with broadcast quality results. Other signal options are available such as bi-directional transmission of SDI/HDSDI as well as 3G video over one singlemode fiber.

CONFIGURATIONS:

The ST/SR-2HD-x system is available either as modules or rack mount cards that can be installed in either Meridian desk/shelf mount chassis or in 19", 3RU racking frames.

MARKETS:

- ✓ Remote broadcast camera links
- ✓ Sporting events, concerts, etc.
- ✓ Media feeds
- ✓ Video production
- ✓ Studio to studio & head end feeds
- ✓ Military information displays

SPECIFICATIONS:

Video

Formats	19.4 Mbps (SMPTE 310M) 143 To 540 Mbps SMPTE 259M/344M 1.485 Gbps SMPTE 292M HDTV DVB-ASI at 270 Mbps SMPTE 305M SDTI Rates
Nominal Level	0.8 Vp-p, 1.0 Vp-p max.
Data Rate	19 Mb/s - 1.5 Gb/s
Impedance	75 Ohm
Gain	Unity
Input Coupling	AC
Return Loss	>15 dB
Jitter (Pattological Data Pattern) ..	< 0.2 UI
Cable Equalization	Automatic 0-70 m @ 1.5 Gb/s
Bit-Error Rate (0 to -20dBm).....	10 ⁻¹²

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	Singlemode - FC (default), Multimode - ST (default)

Power

Card	4W
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Indicators (LEDs)

1 - Green	Power On (TX & RX)
1 - Red	Laser Over Current (TX)
4 - Green	Signal Power Level (RX)
1 - Green	Signal Present (TX)
1 - Green	Signal Lock (TX)
1 - Green	SDI Present (TX)
1 - Green	HD-SDI Present (TX)

Physical

Dimensions (Card)	160 mm (6.3") L, 127 mm (5") W 20mm (0.80") W
Weight (Card)	450 gms (16 Oz)
No. of Slots	1
Module	See SR-500 Brochure

Environmental

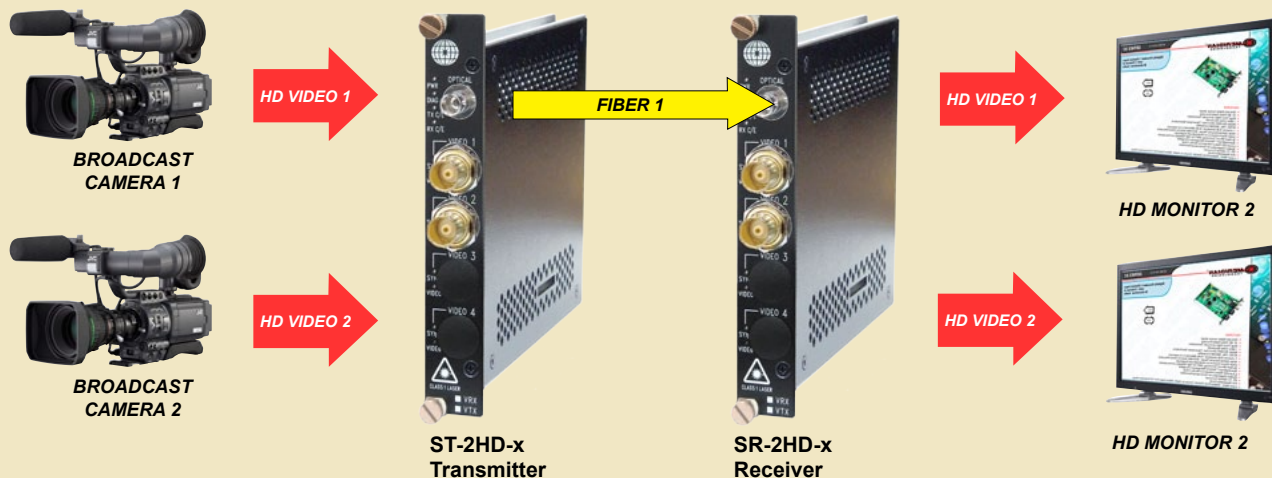
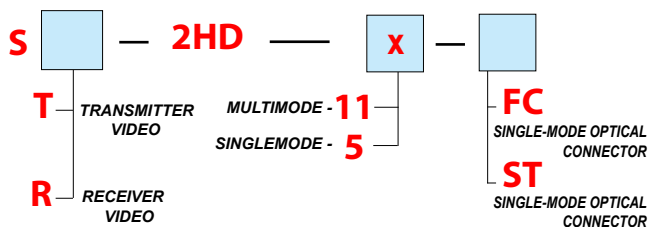
Operating Temperature	-25°C to +60°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>200,000 hours @ Ground Fix on Single channel 35°C per MIL217F
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Part Numbers:

ST-2HD-11	Transmitter, card, multimode Tx @ 1310nm, Tx @ 1550nm
SR-2HD-11	Receiver, card, multimode Rx @ 1310nm, Rx @ 1550nm
ST-2HD-5	Transmitter, card, singlemode Tx @ 1310nm, Tx @ 1550nm
SR-2HD-5	Receiver, card, singlemode Rx @ 1310nm, Rx @ 1550nm



OPTICAL:

* Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
11	Multimode (FP Laser) 62.5 / 125	-8 (per channel)	-22	14	1310, 1550	ST	22	1.3
5	Singlemode (FP Laser) 9 / 125	-3 (per channel)	-21	18	1310, 1550	ST, FC	21	50

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