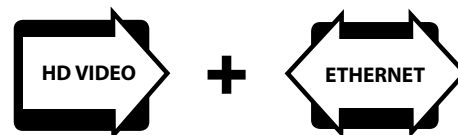


One Unidirectional Multi-rate SDI / HDSDI Video and
 One Full Duplex Ethernet Channel
 over One Fiber, enclosed in stand-alone chassis



FEATURES:

- Multi-Rate SDI / HD-SDI (19 Mbps to 1.5Gbps) over one fiber
- Real-Time, uncompressed Video Transmission over One Single-mode Optical Fiber utilizing CWDM wavelength technology
- 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
- Supports Embedded Audio and Metadata
- 10/100 Base-T IEEE 802.3 Compliant Ethernet
- Ethernet Full Duplex or Half-duplex Supported
- Laser Based Single-mode System
- Wide Dynamic Range: Eliminates Need for Optical Attenuators
- Available with ST or FC Optical Connectors
- Requires No User Adjustments

DESCRIPTION:

The MT/MR-1HD1R/1R-12 system is a part of Meridian's DigiView product family and transmits one Unidirectional Multi-rate SDI / HDSDI Video and one Bi-directional Ethernet Channel over single-mode fiber.

Using Coarse Wavelength Division Multiplexing (CWDM) technology, the content details of each video channel are preserved by real-time transmission of each video channel in a compact module format.

These serial digital transmitters & receivers provide broadcast quality transmission. No user adjustments are needed, ensuring fast deployment and setup with broadcast quality results.

Other signal options are available, including 3G video over one single-mode fiber.

CONFIGURATIONS:

The MT/MR-1HD1R/1R-12 system is inclosed in 2 slot stand-alone chassis (SR-1002) with AC power supply (87 VAC - 164 VAC) and can be mounted on any flat surface.

MARKETS:

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

SPECIFICATIONS:

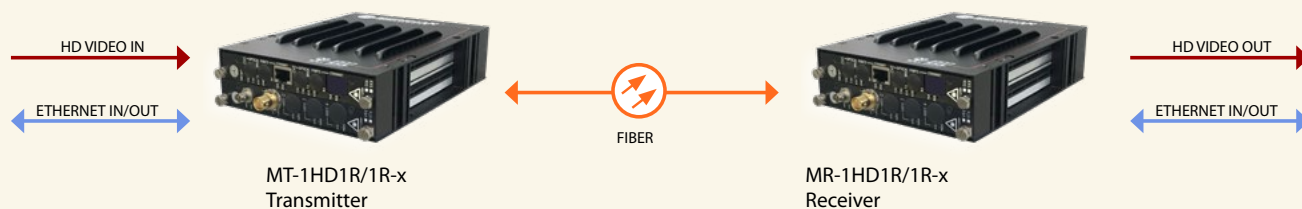
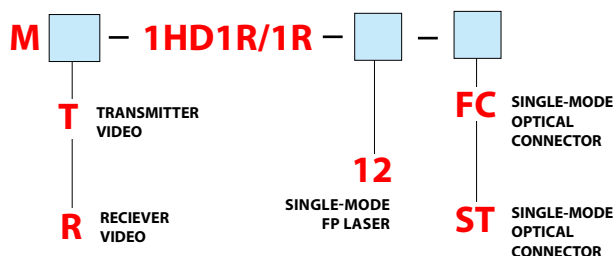
HD-SDI Video	
Formats	19.4 Mbps (SMPTE 310M)
	143 To 540 Mbps SMPTE
	259M/344M1.485 Gbps SMPTE
	292M HDTV DVB-ASI at 270 MbpsSMPTE 305M SDTI Rates
Nominal Level	0.8 Vp-p, 1.0 Vp-p max.
Data Rate	19Mb/s - 1.5Gb/s
Impedance	75 Ohm
Gain	Unity
Input Coupling	AC
Return Loss	>15 dB
Jitter (Pathological Data Pattern)	< 0.2 UI
Cable Equalisation	Automatic 0-70m @ 1.5Gb/s
Bit-Error Rate (0 to -20dBm)	10 ⁻¹²

10/100 Base-T Ethernet	
Ethernet Standards	IEEE 802.3 CSMA/CD
	IEEE 802.3i 10Base-T
	IEEE 802.3u 100Base-T
Data Rate	10/100 Mb/s
Bit Error	10 ⁻⁹ *
Optical	
Wavelengths Band	1310nm/1490nm/1550nm
Fiber Data Rate	1.5 Gb/s
Connectors	
HD-SDI Video	75 Ohm BNC (Gold Center Pin)
Optical	FC, ST (Single-mode)
Ethernet	Shielded RJ-45
Power (module)	2-pin Screw Terminal
Power	
Input Power	24VAC/DC
Power Consumption	5 W

Physical	
Dimensions	186 (L) x 51 (H) x 135 (W) mm (7.31 x 2.0 x 5.31 inch)
Weight	1950 gms (4.3 lb.)
Environmental	
Operating Temperature	-40°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing
Quality	
MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F

Part Numbers:

Unit	Description	Wavelength
MT-1HD1R/1R-12	Video Transmitter, Ethernet Transceiver, Single-mode	1310/1490/1550nm
MR-1HD1R/1R-12	Video Receiver, Ethernet Transceiver, Single-mode	1310/1490/1550nm



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)
12	Single-mode (DFB Laser) 9 / 125	-5	-25	20	1310/1490/1550nm	FC, ST	25	55