



DigiView[™] Video Link

MT/MR-1DV-x Optical DVI Extender

User Manual

FEATURES

- Digital transmission of DVI Video over one multimode or singlemode fiber
- Supports VGA, SVGA, XGA, SXGA & UXGA (640x480x60Hz to 1920x1200x60Hz)
- 1080p HDTV resolution
- Uses all-digital processing & transmission for crystal-clear signals and no color skewing
- Real-time video transmission for exceptional quality & resolution – no video compression
- Requires no adjustments, equalization or de-skewing during setup
- Data throughput in excess of 6 Gbps (uncompressed)
- Most systems have 1.25 Gbps throughput with significant compression
- DDC (Data Display Channel) and HDCP optional
- Standard DVI-D video connector
- Wide optical dynamic range: Eliminates need for optical attenuators
- Singlemode Laser Based System
- Operation up to 25Km
- Diagnostic LEDs for Power and Link status

Package Includes

- MT-1DV-x TX
- MR-1DV-x RX
- 5V AC/DC Power Adapter (2 pcs.)
- Micro-USB cable (100 cm) (2 pcs.)
- User's Manual

Please verify all items are included in the box. If anything is missing, please contact vendor for replacement.

MT/MR-1DV-x LAYOUT

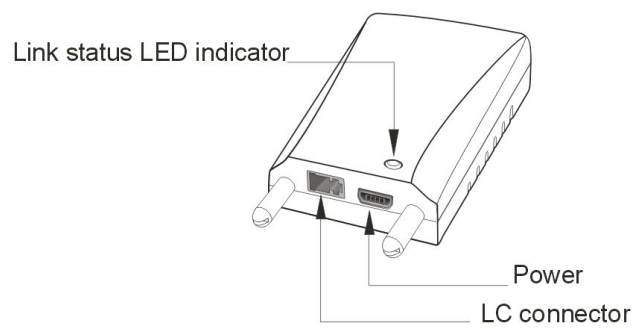


Figure 1 MT/MR-1DV-x Optical DVI transmitter and receiver

CONNECTING AND OPERATING MT/MR-1DV-x

MT/MR-1DV-x System Connections

Figure 2 shows MT/MR-1DV-x Connection Diagram.

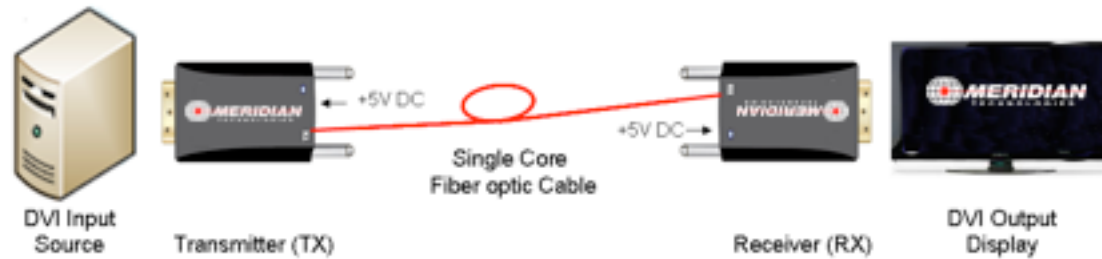


Figure 2. Connection of MT/MR-1DV-x Optical DVI Extender

1. Connect MT-1DV-x TX to DVI port of the video source device directly, if the video source is HDMI output, using DVI to HDMI converter to connect to HDMI port (MT/MR-1DV-x supports HDMI EDID, HDCP and embedded audio).
2. If DVI source device is able to provide enough +5V DC current (500mA), there is no need for external +5V DC power. If DVI source device does not provide enough power, connect external +5V power adapter.
3. Connect MR-1DV-x RX to the DVI port of the HD monitor directly, if the HD monitor is HDMI input, using DVI to HDMI converter to connect to HDMI port.
4. Connect +5V Power to MR-1DV-x RX using provided power adapter.
5. Connect MT-1DV-x TX and RX using LC to LC fiber optic cable.
6. When successful connection has been made, the blue LEDs on the transmitter and receiver will appear solid (not blinking)

TROUBLE SHOOTING

Trouble shooting

Q1: Where do the MT/MR-1DV-x TX and RX go?

A1: MT-1DV-x TX is the transmitter, and it is connected to video source devices (PC, DVD, etc).
MR-1DV-x RX is the receiver, and it is connected to HD display (TV, monitor, projector, etc).

Q2: What is the maximum distance between source device and HD monitor?

A2: MT/MR-1DV-x can support distances:

- Multimode fiber – in excess of 300 meters (1000 feet) at 1920x1200 video resolution.
- Single-mode fiber – up to 25 Km (15.5 miles) at 1920x1200 video resolution.

Q3: Can I use the HD monitor's USB power for MR-1DV-x RX?

A3: Yes, if the HD monitor's USB power output can provide +5V and 0.5A current.
Note that MR-1DV-x RX may not work during HD monitor's power-saving mode.

Q4: What does MT/MR-1DV-x LED light meaning?

A4: MT/MR-1DV-x LED Indicates three types of the link status:

Regular On/Off – The system failed to boot properly. Unplug and plug power supply.

Fast Blinks – The system is booting properly.

Gradually On/Off - No communication between TX and RX system.

Check for fiber connection between the systems.

Solid – Communication between TX and RX system is established.

Ready for proper operation.

Q5: I can't see the video image, and both status LEDs on MT/MR-1DV-x are solid. Why is that not working when both lights are solid?

A5: 1) Check the DVI connections to display and to source are securely connected.

2) Check both source and display supports HDCP. If one side does not support HDCP, then there will be no picture.

Q6: Does MT/MR-1DV-x support HDCP (High-bandwidth Digital Content Protection)?

A6: Yes, MT/MR-1DV-x supports HDCP.

LIMITED WARRANTY

Meridian Technologies warrants this product to be in good working order for a period of one year from the date of purchase. If this product is not in good working order as warranted above, or should this product fail to be in good working order at any time during the warranty period, Meridian Technologies shall provide repair or replacement.

This warranty does not cover incidental or consequential damages incurred by consumer misuse, or modification of said product. For limited warranty service during the warranty period, please contact the retailer/distributor or call (516) 285-1000 to obtain an RMA number and instructions for returning the product.

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