

HDMI Extender via Single Multimode Fiber with LC Simplex Connector

Extends HDMI Link up to 200 Meters



DESCRIPTION

Our optical extender provides a high quality and uncompressed HDMI data link between PC and monitor. With the optical fiber technology, it enables HDMI transmission up to 200 meters in single multimode fiber, where radio frequency interference phenomenon is literally ruled out, which shows the advantage of high performance and good signal quality as well as low cost.

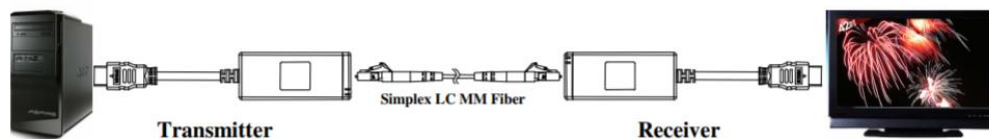
FEATURES

- Extend digital HDTV data with HDCP up to 200 meters (660 feet).
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1
- CE/FCC certifications for EMI/RFI

APPLICATIONS

- Remote surveillance for traffic, industrial and military control
- Far-end LCD monitor, projector, and plasma display connection
- Large video wall system
- Multi-monitors for advertising

APPLICATION NOTE



ORDERING INFORMATION

PART NUMBER	DESCRIPTION	PLUG FOR AC ADAPTER
HDMI-TXRX-1LC-200	Transmitter + Receiver	US Plug
HDMI-TXRX-1LC-201	Transmitter + Receiver	EU Plug
HDMI-TXRX-1LC-202	Transmitter + Receiver	BS Plug
HDMI-TXRX-1LC-203	Transmitter + Receiver	AU Plug

** This product does not include optical fibers.

SPECIFICATION

PARAMETER	SPECIFICATION	NOTE
Max transmission distance	200 meters	50/125 um multimode fiber
Max resolution	1920 x 1080	1080p
EDID support	Yes	
HDCP compliant	Yes	
Operating voltage	DC 5V	
Supply current	311mA 260mA	TX module RX module
Optical connector	1 LC connector	
Recommended fiber	50/125 um multimode fiber	Use of 62.5/125 um multimode fiber may impact maximum transmission distance.
Operating temperature	0°C to 50°C	
Storage temperature	-20°C to 85°C	
Dimensions	TX unit: 210 x 34 x 15 RX unit: 210 x 34 x 15	L x W x H (mm)
Weight	TX unit: 97.5 g RX unit: 97.5 g	

REQUIREMENTS

- HDMI Source (PC/NB/MAC/DVD)
- HDMI Sink (HDMI monitor or projector)
- 100-240VAC 50-60Hz 0.2A electricity

ADAPTER SPECIFICATION

PARAMETER	SPECIFICATION	NOTE
Input	100-240VAC, 50-60Hz	US/EU/BS/AU plug is optional.
Output	DC 5V, 2A	2.0A
DC Jack	Inside 5V / Outside ground	



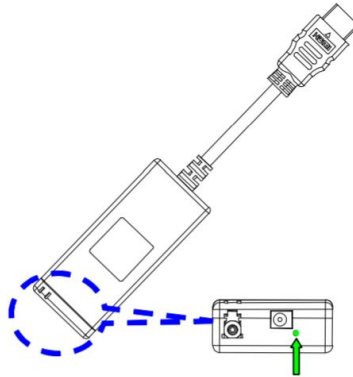
INSTALLATION

Step 1: Unpack the box and check the contents. You should have the following items:

- TX module × 1
- RX module × 1
- AC-to-DC Adaptor × 2

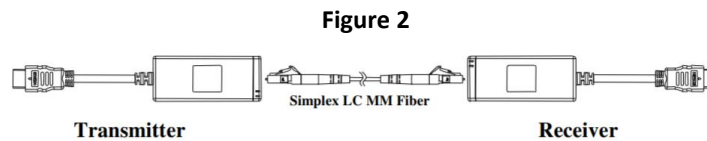
Step 2: Apply 5V power adaptor to TX module. Ensure the green LED beside the power jack is turned on. (See figure 1).

Figure 1 – LED specified by arrow will be turned on in transmitter



Step 3: Apply 5V power adaptor to RX module. Ensure the green LED beside the power jack is turned on same as Step 2.

Step 4: Connect TX module and RX module through optical fiber cable. (See Figure 2)



Note: The maximum transmitting distance in multimode fiber is 200 meters.

Step 5: Plug TX module to the HDMI source such as DVD or PC.

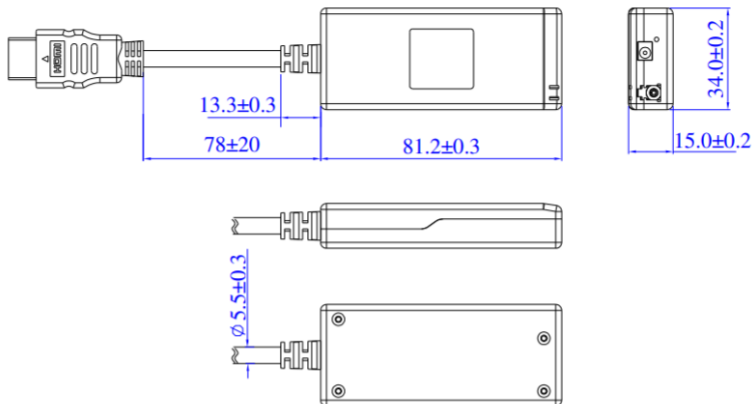
Step 6: Plug RX module to the display.

Note: Any additional intermediated cable using between transmitter and HDMI source might bring undesirable performance degradation.

Step 7: Turn on the display then you will see the video pictures.

DIMENSIONS (unit: mm)

All dimensions are all in $\pm 0.3\text{mm}$ tolerance if not specified.

**SAFETY REGULATION**

CE and FCC approved.



Note: The specifications subject to change without notice.



Lasermate Group, Inc.
19608 Camino De Rosa
Walnut, CA 91789 USA
Tel: (909)718-0999
Fax: (909)718-0998
sales@lasermate.com
www.lasermate.com