



## DVI Extender via 2 Multimode Fibers with LC Duplex Connector

Extends DVI + RS232 + Audio Link up to 800 Meters



### DESCRIPTION

Our extender enables DVI, audio and RS232 extension up to 800 meters over duplex multi-mode fibers (OM3). Applicable for server room PC and client terminal connection, it provides a high quality and uncompressed DVI single link video transmission; also additional RS232 and audio extension are achievable. A built-in 2 ports USB 1.1 hub at remote side to allow more USB keyboard/mouse devices connection.

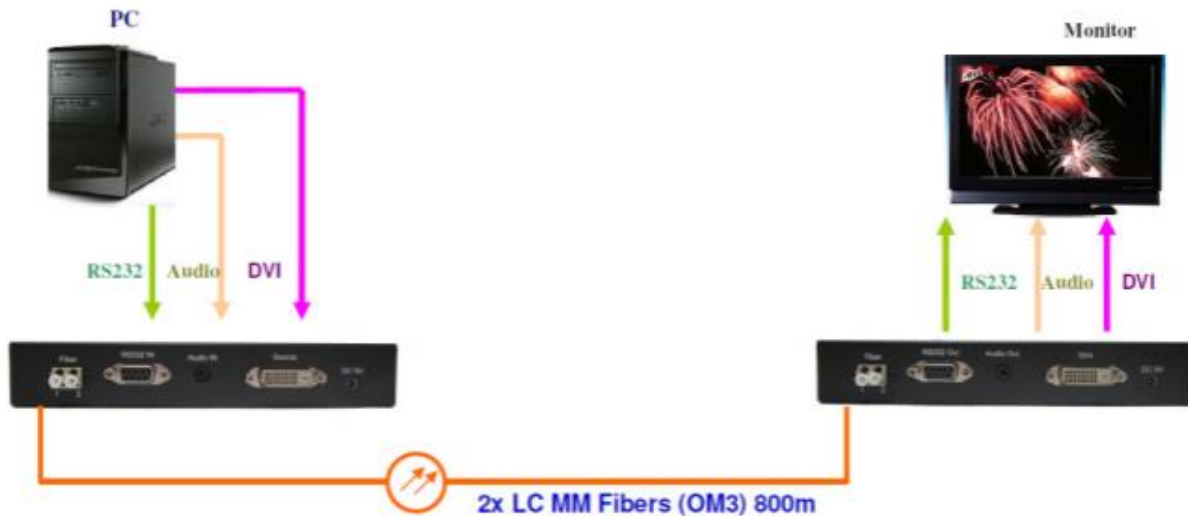
### FEATURES

- Long distance DVI, audio, and RS232 extension up to 800 meters (OM3 Multimode Fiber)
- External hardware installation, plug and play. No extra driver or software required
- No RF interference by optical fiber cable
- Class 1 laser product complies with EN 60825-1

### APPLICATIONS

- Remote monitor for medical, industrial, military control
- Far-end LCD monitor, projector, and plasma display connection
- Large video wall system
- Server room PC and client terminal connection

### APPLICATION NOTE



### ORDERING INFORMATION

PART NUMBER	PLUG FOR AC ADAPTER	Package includes:
DVIR-TXRX-2LC-800	US Plug	<ul style="list-style-type: none"><li>• DVIR-TX-2LC-80x (TX module) x 1</li><li>• DVIR-RX-2LC-80x (RX module) x 1</li><li>• 5V adapter x 2</li></ul> Optional: EU/BS/AU Plug change kit of 5V adapter
DVIR-TXRX-2LC-801	EU Plug	
DVIR-TXRX-2LC-802	BS Plug	
DVIU-TXRX-2LC-803	AU Plug	

\*\* This product does not include optical fibers.

**Lasermate Group, Inc.**

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## SPECIFICATION

PARAMETER	SPECIFICATION	NOTE
Max length	800 meters 600 meters	For OM3 fiber For OM2 fiber
Max resolution	1920 x 1080, 1920 x 1200	60Hz, DVI single link
EDID support	Pseudo EDID + Clone EDID	
Audio interface	3.5mm, Sampling rate >44.1 Kbps	
RS-232 Baud Rate	9600, 19200, 115200	
Operating voltage	TX: DC 5V / 970mA; RX: DC 5V / 970mA	
Optical connector	Duplex LC connector	
Recommended fiber	50/125 um multimode fiber	OM3
Operating temperature	0°C to 50°C	
Storage temperature	-20°C to 75°C	
Dimensions	TX: 180 x 120 x 30; RX: 180 x 120 x 30	L x W x H (mm)
Weight	TX: 600g; RX: 600g	

## REQUIREMENTS

- DVI PC or DVI signal source (Transmitter)
- DVI monitor or projector (Receiver)
- 100-240VAC 50-60Hz 0.6A electricity

## ADAPTER SPECIFICATION

PARAMETER	SPECIFICATION	NOTE
Input	100-240VAC	US/EU/BS/AU plug
Output	DC 5V	3.0A
DC Jack	Inside 5V / Outside ground	

## INSTALLATION

**Step 1.** Install TX box close to DVI source, such as PC or NB.

**Step 2.** Install RX box close to DVI sink, such as DVI monitor.

**Step 3.** Connect DVI cable from TX box to Source, and RX box to Sink.

**Step 4.** Connect TX box and RX box through optical fiber cable (2LC).

**Step 5.** Apply 5V adapter power to TX box and RX box.

### Notes:

- (1) Clean fiber connector before plugging in. The dust will impact fiber communication performance.
- (2) The length of DVI cable should be NOT longer than 2 meters.

## SELF-EDID PROGRAMMING PROCEDURE

To avoid abnormal operation of self-EDID button, please follow the below steps:

**Step 1.** Connect TX to monitor with DVI cable.

**Step 2.** Power on monitor and DO NOT power on TX.

**Step 3.** Press self-EDID button then power on TX, you will see LED quick flash 10 times to indicate enter EDID setting mode.

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**Step 4.** LED off 3 seconds then enter instruction sample mode.

**Step 5.** LED will flash 5 times (on 1 second, off 1 second) to sample "button press count", button press time will decide next instruction.

**Step 6.** LED quick flash 10 times to indicate instruction sample mode ending.

**Step 7.** If button press count = 3, TX will perform clone EDID from monitor.

**Step 8.** If button press count = 5, TX will perform reset to default EDID.

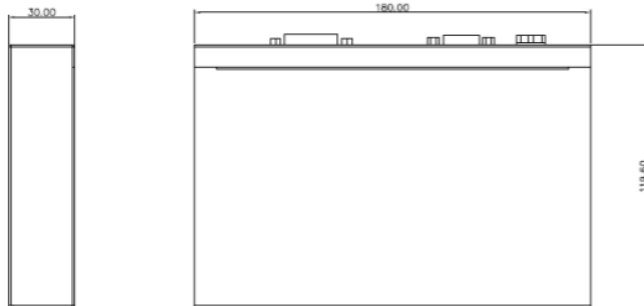
**Notes:**

- (1) In case you want to "reset to default EDID", press self-EDID button all time until (6).
- (2) In case you want to clone EDID, ensure (5) button press count = 3 then release button.

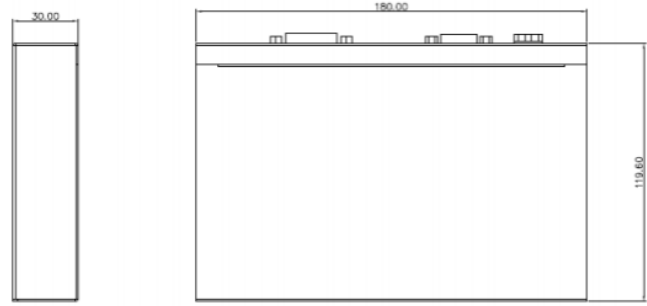
**DIMENSIONS (unit: mm)**

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

**Part No. DVIR-TX-2LC-80x (Transmitter)**



**Part No. DVIR-RX-2LC-80x (Receiver)**



**SAFETY REGULATION**

CE and FCC approved.



**Note:** The specifications subject to change without notice.