

User Manual

LR-EX1

150m Extender with IR&RS232



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Version: LR-EX1_2017V1.0

150m Extender with IR&RS232

Statement

Read this user manual carefully before using the product. Pictures are shown in this manual for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till December, 2017. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- Do not twist or pull by force ends of the CAT5e/CAT6a cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Refer all servicing to qualified service personnel.

Customer Service

We provide limited warranty for the product within three years. Please contact your distributor for more details.

Introduction

The LR-EX1 is an HDBaseT Extender set consists of a transmitter (Tx) and a receiver (Rx). It distributes 1080p HDMI signal via CATx cable at 150m, and enables IR and RS232 pass-through to control local source device and remote third-party device. It supports bi-directional 12V PoC and only one AC to DC power adaptor is needed.

150m Extender with IR&RS232

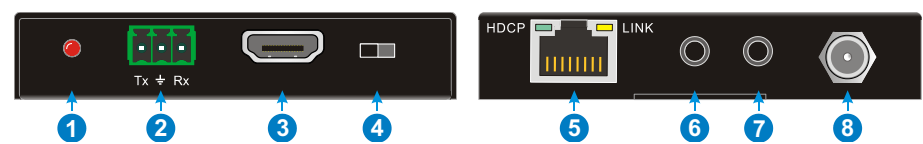
Features

- Supports HDMI1.4 & HDCP2.2.
- Maximum transmission distance is up to 492 feet (150 meters) for 1080p.
- Supports bi-directional IR and RS232 pass-through.
- Supports bi-directional 12V PoC.
- 4-pin DIP switch for choosing RS232 control and firmware update.

Package List

- 1 x Transmitter (Tx)
- 2 x Tx Mounting Ears with 2 Screws
- 4 x Tx Plastic Cushions
- 1 x 3-pin Phoenix Connector
- 1 x Power Adaptor (12VDC, 1A)
- 1 x Receiver (Rx)
- 2 x Rx Mounting Ears with 2 Screws
- 4 x Rx Plastic Cushions
- 1 x 3-pin Phoenix Connector
- 1 x User Manual

Panel Description



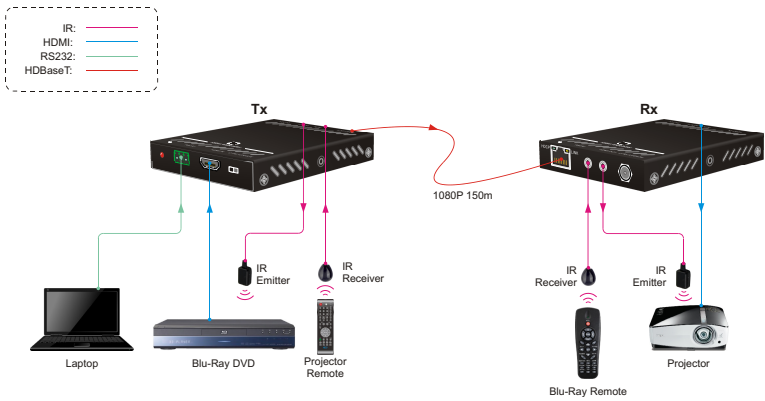
No.	Name	Description
①	Power LED	Illuminates red when power is applied.
②	RS232	Euroblock/Phoenix connector for connecting the RS232 data device.
③	HDMI IN (Tx)	HDMI port for connecting the video source device (e.g. Blu-ray DVD).
	HDMI OUT (Rx)	HDMI port for connecting the display.
④	CTRL/UPDATE	<ul style="list-style-type: none">• Switch to the CTRL position, it serves as an RS232 serial extender.• Switch to the UPDATE position, it allows to update the Valens IC program by connecting to a PC and running the batch file.
⑤	HDBT OUT (Tx)	RJ45 jack for connecting the CATx cable to the Receiver.
	HDBT IN (Rx)	RJ45 jack for connecting the CATx cable to the Transmitter.
⑥	IR IN	3.5mm jack for connecting an IR receiver (not included).
⑦	IR OUT	3.5mm jack for connecting an IR emitter (not included).
⑧	DC 12V	Connects the AC power adaptor to the power port of transmitter or receiver.

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Specification

Model Spec	Transmitter (Tx)	Receiver (Rx)
Input	HDMI IN	HDBT IN
Output	HDBT OUT	HDMI OUT
Control	IR IN, IR OUT and RS232	IR IN, IR OUT and RS232
General		
Resolution Range	Up to 1080p@60Hz	
Transmission Mode	HDBaseT	
Transmission Distance	1080p ≤ 492 feet (150 meters)	
Bandwidth	10.2Gbps	
Video Standard	HDMI1.4 with HDCP2.2	
Power Consumption	9.5W (Max)	
Operating Temperature	0 ~ +40°C	
Storage Temperature	-10 ~ +55°C	
Operating Humidity	0% ~ 90%	
Power Supply	Input Power: 12VDC 1A or Power over Cable (PoC); AC Adaptor Input Power: 100~240VAC, 50/60Hz	
Dimension (W*H*D)	84mm x 16mm x 104mm	
Net Weight (g)	Tx:135g; Rx:140g	

System Diagram

150m Extender with IR&RS232



Note: This picture is for reference only, the specific scheme is subject to real devices.