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kramer EXT3-POE-XR-R HDBaseT 3.0 Receiver User Guide

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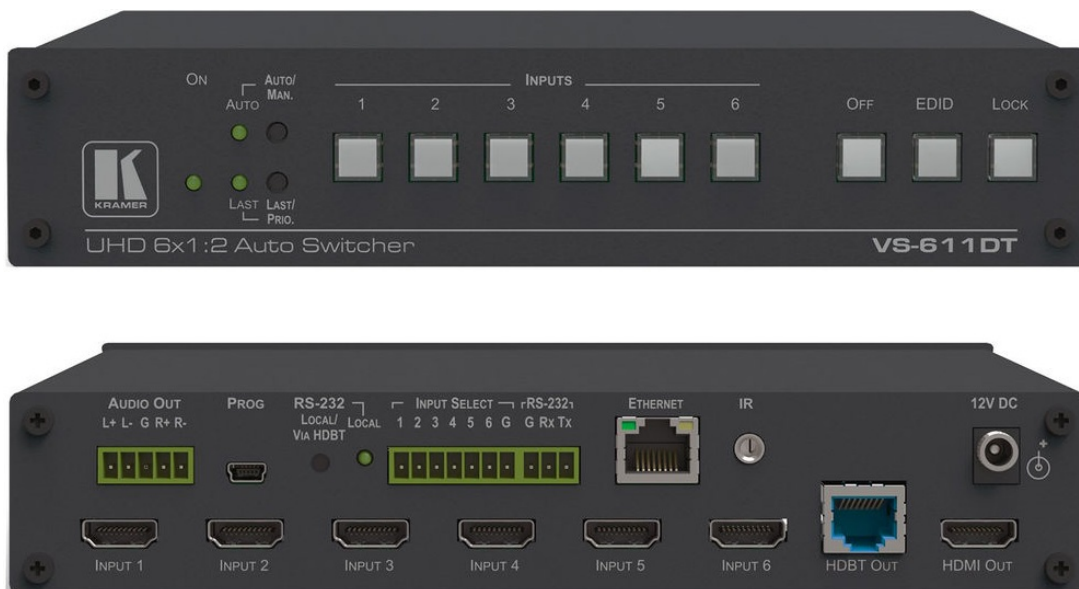
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kramer EXT3-POE-XR-R HDBaseT 3.0 Receiver



This guide helps you install and use your EXT3-POE-XR-R for the first time.

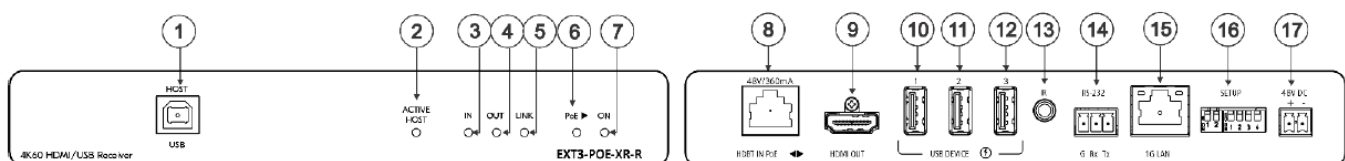
Go to www.kramerav.com/downloads/EXT3-POE-XR-R to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

EXT3-POE-XR-R 4K HDMI/USB Receiver

- 1 Power adapter and cord
- 1 Bracket set
- 4 Rubber feet
- 1 Quick start guide

Step 2: Get to know your EXT3-POE-XR-R

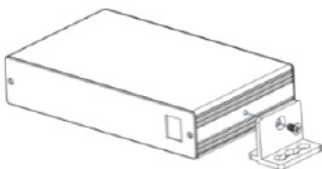


#	Feature	Function
1	HOST USB B 2.0 Connector	<p>When the device DIP-switch is set to active host as defined in Step 4:Connect inputs and outputs, connect a USB host (for example, a room PC) to communicate with the USB peripheral devices (for example, a smart board) connected to USB device ports on this device or the connected remote device.</p> <p>Note that an active host can be set only one device, either the transmitter or the receiver, not both.</p>
2	ACTIVE HOST LED	Lights orange when the USB host side is active.
3	IN LED	Lights blue when an active HDMI input signal is detected on HDMI IN.
4	OUT LED	Lights blue when an output acceptor device is connected.
5	LINK LED	Lights green when the HDBT active link connection is established.
6	PoE ► LED	Lights green when power-providing over HDBT is active.
7	ON LED	Lights green when the device receives power.
8	HDBT IN PoE ◀ ►	Connect to the HDBT connector on a paired PoE-accepting transmitter device (for example, a EXT3-C-XR-T device).
9	HDMI OUT	Connect to an HDMI acceptor.
10	USB A 2.0 Charging Connector 1	Connect to the USB local peripheral devices (for example, a USB PTZ camera). When the USB Host PC is disconnected, the USB signal and charging power for this port are inactive.
11		Connect to the USB local peripheral devices (for example, a USB camera, a soundbar, a microphone and so on). When the USB Host PC is disconnected, the
12	USB A 2.0 Charging Connectors 2-3	USB charging power for this port continues to be active.
13	IR 3.5mm Mini Jack Connector	<p>Bidirectional IR connection. Outputs a received IR signal (from the HDBT transmitter) to connected IR emitter or transmits an IR signal (from IR sensor) to the HDBT transmitter.</p> <p>Bidirectional RS-232 connection. Outputs a signal received from a controller device</p>
14	RS-232 3-pin Terminal Block	(for example, SL-240C) to control a remote device via serial connection (for example, the remotely connected PTZ USB camera).
15	1G LAN RJ-45 Connector	Connect to LAN for Ethernet extension to the transmitter.
16	SETUP 4-way DIP-switch	Sets the device behavior (see Step 4:Connect inputs and outputs).
17	48V DC	Connect to the power supply.

Step 3: Mount EXT3-POE-XR-R

Install EXT3-POE-XR-R using one of the following methods:

- Attach the rubber feet and place the unit on a flat surface.
- Fasten a bracket (included) on each side of the unit and attach it to a flat surface (see www.kramerav.com/downloads/EXT3-POE-XR-R).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/EXT3-POE-XR-R).

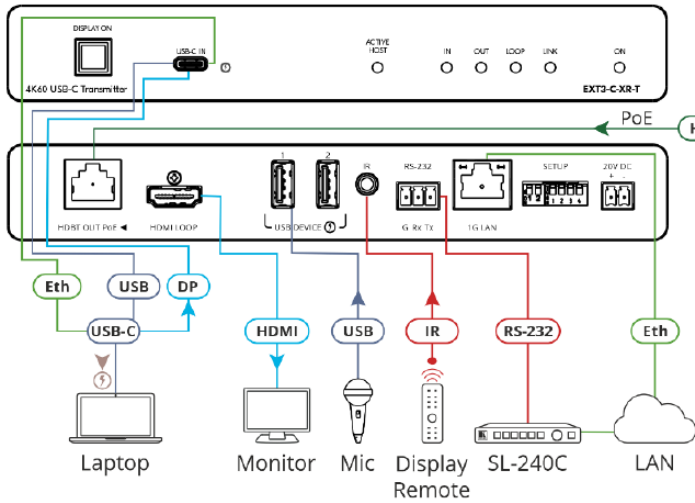


- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.
- Maximum mounting height for the device is 2 meters.

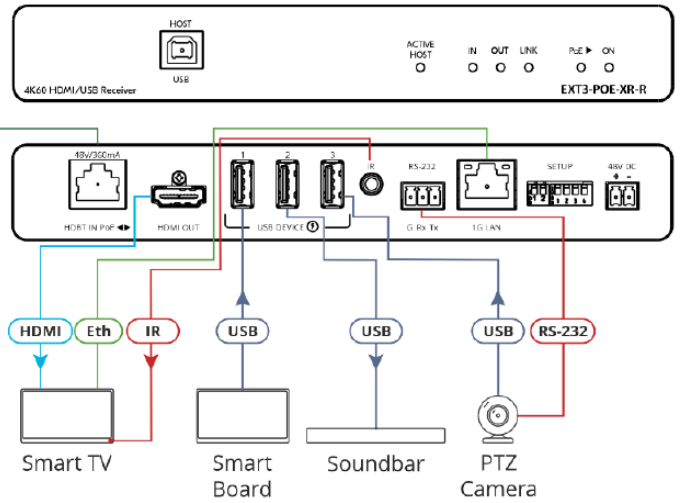
Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your EXT3-POE-XR-R.

Transmitter Side



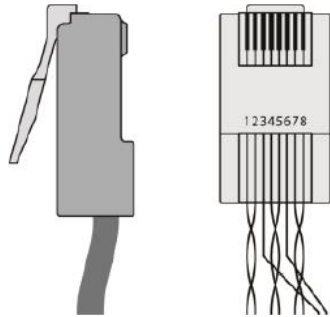
Receiver Side



Wiring the RJ-45 Connectors

This section defines the HDBT pinout, using a STRAIGHT pin-to-pin cable with RJ-45 connectors.

EIA /TIA 568B	
PIN	Wire Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown



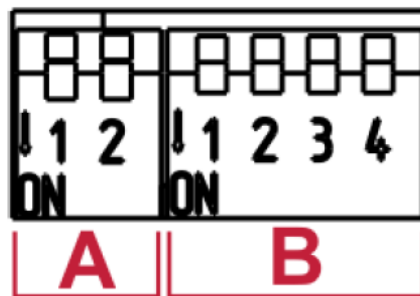
It is recommended that the cable ground shielding be connected/soldered to the connector shield.

To achieve specified extension distances, use the recommended Kramer cables available at www.kramerav.com/product/EXT3-POE-XR-R. Using third-party cables may cause damage!

DIP-Switch Settings

The DIP-switches are used to set the HDBT range, upgrade the firmware, Determine IR signal pass-through.

SETUP



All the DIP-switches are set to OFF (up) by default.

A – DIP-switch Settings

1A, 2A	HDBT Range Mode	Off	Off	Standard range mode.
		Off	On	Ultra-long range mode.
		On	Off	TBD
		On	On	TBD

B – DIP-switch Settings

Changes to DIP-switches 2B and 3B only take effect after power cycling the device.

DIP #	Feature	DIP-switch Settings
1B	TBD	
2B	Active USB Host	Off (default) – The device is configured as the host for connected USB devices. On – USB are configured as slaves to the remote connection.
3B	IR Modulation	Off (default) – IR pass-thru is enabled. On – IR pass-thru is disabled (add a 38KHz modulation to the IR output signal).
4B	RS-232 operation Mode	Off (default) – RS-232 FW programming is inactive (Normal operation mode is enabled). On – RS-232 FW programming is active.

Step 5: Connect power

- Connect the power adaptor to the EXT3-POE-XR-R and the power cord and plug it into the mains electricity. Alternatively, receive PoE via HDBT.
- Safety Instructions (See www.kramerav.com for updated safety information)

Caution:

- There are no operator serviceable parts inside the unit.

Warning:

- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.



kramerav.com.

Documents / Resources



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EXT3-POE-XR-R HDBaseT 3.0 Receiver, EXT3-POE-XR-R, HDBaseT 3.0 Receiver, 3.0 Receiver, Receiver

References

- [Kramer | Audio Visual Solutions - Kramer](#)
- [Kramer | Audio Visual Solutions - Kramer](#)
- [Application Diagrams - Kramer Electronics](#)
- [Kramer Pro AV manufacturer - Product Categories](#)
- kramerav.com/product/EXT3-POE-XR-R

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