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## EXT3-XR-TR Quick Start Guide

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

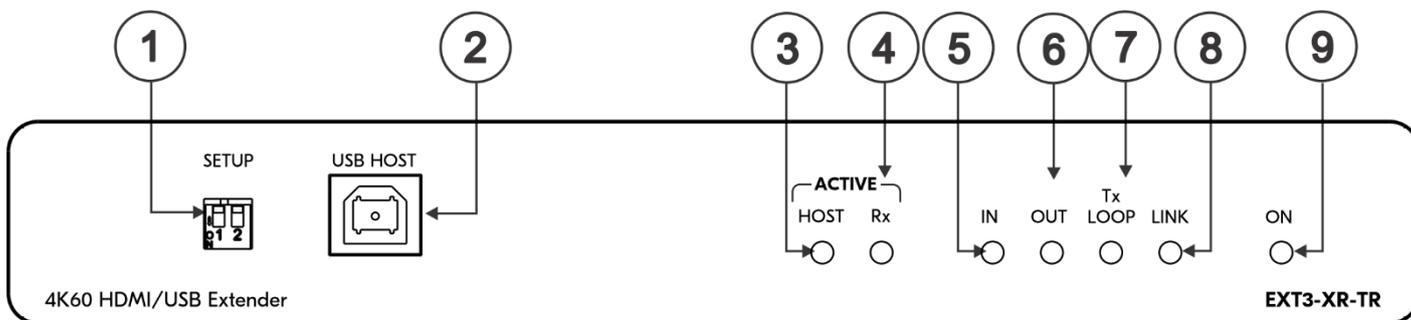
Go to [www.kramerav.com/downloads/EXT3-XR-TR](http://www.kramerav.com/downloads/EXT3-XR-TR) to download the latest user manual and check if firmware upgrades are available.

### Step 1: Check what's in the box

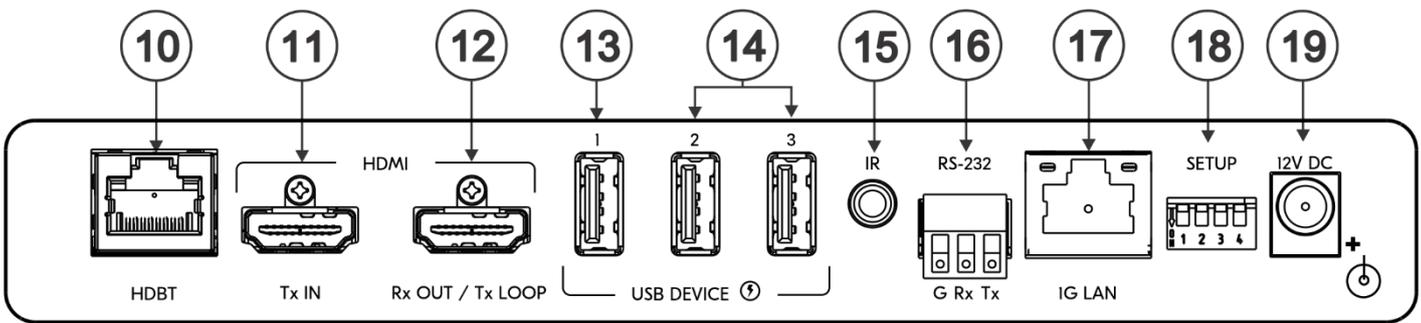
- ✓ EXT3-XR-TR 4K60 HDMI/USB Extender
- ✓ 1 Bracket set
- ✓ 1 Quick start guide
- ✓ 1 Power adapter and cord
- ✓ 4 Rubber feet

### Step 2: Get to know your EXT3-XR-TR

The extender device functions as a transmitter or a receiver side per DIP-switch setting (see [Step 4: Connect inputs and outputs](#)).



#	Feature	Function		
1	SETUP 2-way DIP-switch	Set the HDBT Range Mode.		
		<b>DIP 1</b>	<b>DIP 2</b>	<b>State Description</b>
		Off (up)	Off (up)	Standard range mode.
		Off (up)	On (down)	Ultra-long range mode.
		On (down)	Off (up)	TBD
On (down)	On (down)	TBD		
2	HOST USB B 2.0 Connector	Connect to the USB host (for example, a laptop) to communicate with the USB peripheral devices (for example, a smart board) connected to USB device ports on either the transmitter or the receiver sides of the extender (see <a href="#">Step 4: Connect inputs and outputs</a> ).		
3	ACTIVE HOST LED	Lights orange when the USB host side is active		
4	ACTIVE Rx LED	Lights green when the extender receiver function is active		
5	IN LED	Lights blue when an active HDMI input signal is detected on HDMI IN.		
6	OUT LED	Lights blue when an output acceptor device is connected.		
7	TX LOOP	Transmitter mode	Lights blue an active signal is transmitted on the Tx LOOP port.	
		Receiver mode	N/A	
8	LINK LED	Lights green when the HDBT active link connection is established.		
9	ON LED	Lights green when the device receives power.		



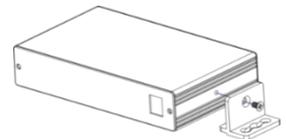
#	Feature	Function	
10	HDBT RJ-45 Connector	Connect to the HDBT RJ-45 connector on a paired receiver/transmitter device (for example, a second <b>EXT3-XR-TR</b> device).	
11	HDMI TX IN Connector	Transmitter mode	Connect to an HDMI source.
		Receiver Mode	N/A
12	HDMI Rx OUT/Tx LOOP Connector	Transmitter mode	Connect to a local acceptor.
		Receiver mode	Connect to an HDMI acceptor.
13	USB A 2.0 Connector 1	Connect to the USB local peripheral devices (for example, a USB PTZ camera). When USB Host PC is disconnected, the USB signal and charging power for this port are inactive.	
14	USB A 2.0 Connectors 2-3	Connect to the USB local peripheral devices (for example, a USB camera, a soundbar, microphone and so on). When USB Host PC is disconnected, the USB charging power for this port continues to be active.	
15	IR 3.5mm Mini Jack Connector	Connect to an external IR emitter to control a local IR-controlled device from the remote extender (for example, <b>EXT3-XR-TR</b> ).	
		Connect to an IR sensor to control a remote IR-controlled device connected to the remote extender side (for example, <b>EXT3-XR-TR</b> ).	
16	RS-232 3-pin Terminal Block	Connect to a controller device (for example, <b>SL-240C</b> ) to control a remote device via serial connection (for example, the remotely connected PTZ USB camera).	
17	ETHERNET RJ-45 Connector	Connect to LAN.	
18	SETUP 4-way DIP-switch	Sets the device behavior (see <a href="#">Step 4:Connect inputs and outputs</a> ).	
19	12V DC Power Connector	Connect to the power supply.	

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

## Step 3: Mount EXT3-XR-TR

Install **EXT3-XR-TR** 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\\_XR\\_TR](http://www.kramerav.com/downloads/EXT3_XR_TR)).
- Mount the unit in a rack using the recommended rack adapter (see [www.kramerav.com/product/EXT3\\_XR\\_TR](http://www.kramerav.com/product/EXT3_XR_TR)).



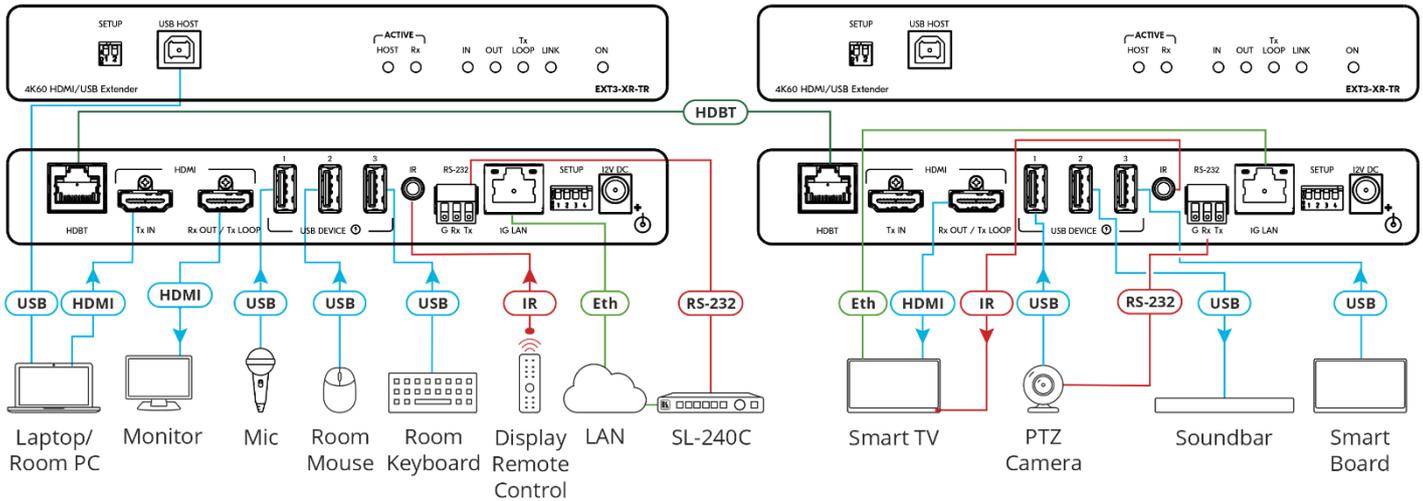
- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment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

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.

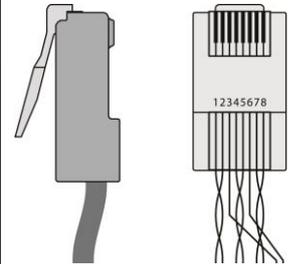


For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield.



To achieve specified extension distances, use the recommended Kramer cables available at [www.kramerav.com/product/EXT3\\_XR\\_TR](http://www.kramerav.com/product/EXT3_XR_TR). Using third-party cables may cause damage!

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



## Setting the DIP Switches

- All DIP-switches are set to OFF (up) by default
- All changes in DIP-Switches apply immediately, on-the-fly (no need to power cycle the device), except for DIP-switches 1 and 2.

#	Feature	DIP-switch Settings	SETUP
1	Device Operation Mode	OFF (up) – Receiver mode is active. ON (down) – Transmitter mode is active.	
2	Active USB Host port	OFF (up) – Host is active. ON (down) – Host is inactive (active on remote paired device).	
3	Define IR Pass-through	OFF (up) – Pass-through the IR signal to or from the IR cable. ON (down) – Add IR modulation (38kHz) to the IR output signal (applies only when the IR port is connected to an IR emitter cable).	
4	Programing RS-232	Off (up) – Normal operation mode is enabled (FW programming RS-232 is inactive). On (down) – FW programming RS-232 is active.	

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## Step 5: Connect power

Connect the power cord to **EXT3-XR-TR** and plug it into the mains electricity.

Safety Instructions (See [www.kramerav.com](http://www.kramerav.com) for updated safety information)



**Caution:**

- For products with relay terminals and GPIO ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- 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.

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## Step 6: Operate EXT3-XR-TR

When connecting USB devices to the USB ports, note that

- The recommended connected USB hub capacity is  $\leq 6$ .
- The maximum connected USB hub capacity is  $\leq 15$ .

We recommend that you use USB host PC tools, such as USB TreeView tool, to verify connected USB hubs (internal and externals) and endpoints capacity.