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## EXT3-TR Quick Start Guide

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

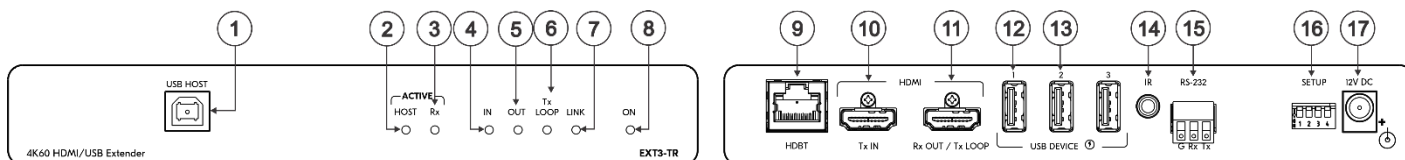
Go to [www.kramerav.com/downloads/EXT3-TR](http://www.kramerav.com/downloads/EXT3-TR) to download the latest user manual and check if firmware upgrades are available.

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

- ✓ EXT3-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-TR

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



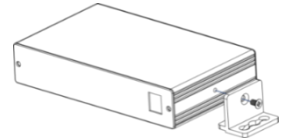
#	Feature	Function				
1	USB HOST USB B 2.0 Connector	Connect to the USB host (for example, a laptop) to communicate with the USB peripheral devices (for example, a smart board) connected to USB device ports on either the transmitter or the receiver sides of the extender (see <a href="#">Step 4: Connect inputs and outputs</a> ).				
2	ACTIVE HOST LED	Lights orange when the USB host side is active				
3	ACTIVE Rx LED	Lights green when the extender receiver function is active				
4	IN LED	Lights blue when an active HDMI input signal is detected on HDMI IN.				
5	OUT LED	Lights blue when an output acceptor device is connected.				
6	TX LOOP	<table border="1" style="width: 100%;"> <tr> <td>Transmitter mode</td> <td>Lights blue an active signal is transmitted on the Tx LOOP port.</td> </tr> <tr> <td>Receiver mode</td> <td>N/A</td> </tr> </table>	Transmitter mode	Lights blue an active signal is transmitted on the Tx LOOP port.	Receiver mode	N/A
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Receiver mode	N/A					
7	LINK LED	Lights green when the HDBT active link connection is established.				
8	ON LED	Lights green when the device receives power.				
9	HDBT RJ-45 Connector	Connect to the HDBT RJ-45 connector on a paired receiver/transmitter device (for example, a second EXT3-TR device).				
10	HDMI TX IN Connector	<table border="1" style="width: 100%;"> <tr> <td>Transmitter mode</td> <td>Connect to an HDMI source.</td> </tr> <tr> <td>Receiver Mode</td> <td>N/A</td> </tr> </table>	Transmitter mode	Connect to an HDMI source.	Receiver Mode	N/A
Transmitter mode	Connect to an HDMI source.					
Receiver Mode	N/A					
11	HDMI Rx OUT/Tx LOOP Connector	<table border="1" style="width: 100%;"> <tr> <td>Transmitter mode</td> <td>Connect to a local acceptor.</td> </tr> <tr> <td>Receiver mode</td> <td>Connect to an HDMI acceptor.</td> </tr> </table>	Transmitter mode	Connect to a local acceptor.	Receiver mode	Connect to an HDMI acceptor.
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Receiver mode	Connect to an HDMI acceptor.					
12	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.				
13	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.				
14	IR 3.5mm Mini Jack Connector	<p>Connect to an external IR emitter to control a local IR-controlled device from the remote extender (for example, EXT3-TR).</p> <p>Connect to an IR sensor to control a remote IR-controlled device connected to the remote extender side (for example, EXT3-TR).</p>				
15	RS-232 3-pin Terminal Block	Connect to a controller device (for example, SL-240C) to control a remote device via serial connection (for example, the remotely connected PTZ USB camera).				
16	ETHERNET RJ-45 Connector	Connect to LAN.				
17	SETUP 4-way DIP-switch	Sets the device behavior (see <a href="#">Step 4: Connect inputs and outputs</a> ).				
18	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-TR

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



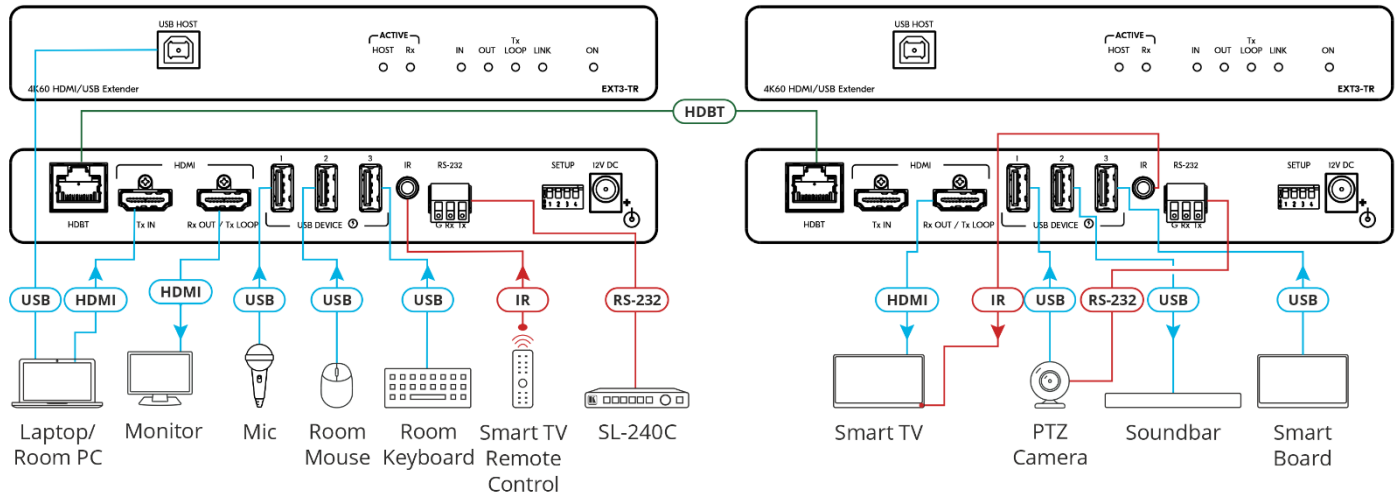
- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment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

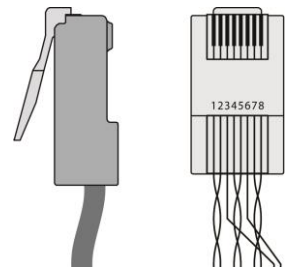


For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield.



To achieve specified extension distances, use the recommended Kramer cables available at [www.kramerav.com/product/EXT3-TR](http://www.kramerav.com/product/EXT3-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.	

## Step 5: Connect power

Connect the power cord to **EXT3-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.