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SWT3-31-HU-TR Quick Start Guide

This guide helps you install and use your **SWT3-31-HU-TR** for the first time.

Go to www.kramerav.com/downloads/SWT3-31-HU-TR to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ✓ **SWT3-31-HU-TR** 3x1 4K60 USB-C/HDMI Switcher Extender
- ✓ 1 Multi signal USB-C cable (1m)
- ✓ 1 Quick start guide
- ✓ 1 Power adapter and cord
- ✓ 4 Rubber feet

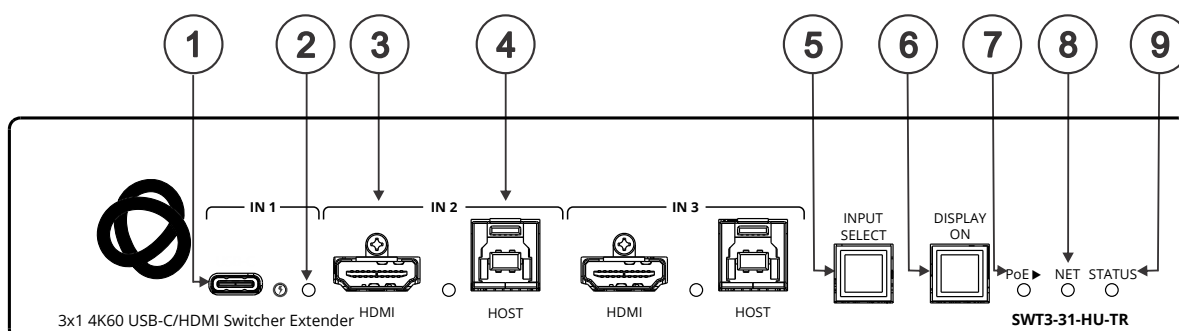
Step 2: Get to know your SWT3-31-HU-TR



SWT3-31-HU-TR may be configured as either a transmitter (Tx) or receiver (Rx).

To change Tx / Rx Mode:

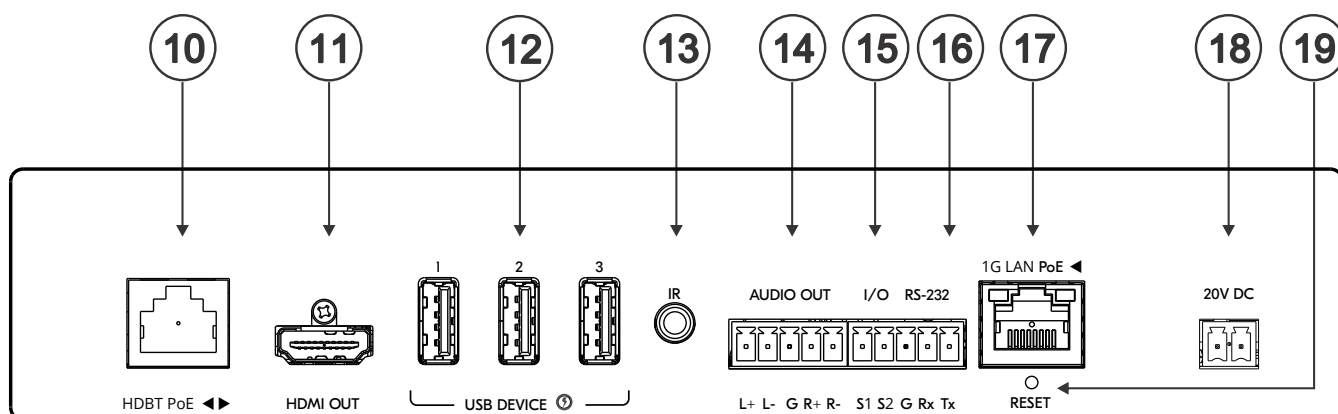
1. Press and hold the Input Select button.
2. After about 10 seconds, the LEDs will blink to show the current mode: Red for Rx, Blue for Tx.
3. Keep holding the button. The LEDs will change color to indicate the new mode (switching from Rx to Tx or vice versa).
4. Release the button only after the LEDs turn off (~15 seconds) to confirm and save the new mode.



#	Feature	Function
1	USB-C IN 1 Port	Connect to USB-C AV sources: • that support DisplayPort Alternate Mode, for example, a laptop) to share content. • to communicate with the USB devices (for example, a PTZ camera) that are connected to the device, • to connect to the LAN • to charge the connected sources (that supports USB Power Delivery 2.0).  Make sure to disconnect the USB-C cable from your host device before modifying the USB type, or before performing a factory reset.  After modifying the USB device type via the web, power cycle the unit after the webpage indicates that the process is complete.  While charging, the charging icon (to the right of the connector) becomes visible and lights orange.



#	Feature		Function	
2	IN Status LED 1 to 3 (per input port)		LED Status	Indicates
			Lights blue	An input is selected and connected with an active AV or AV+USB source.
			Flashes blue	An input is selected and has no active AV signal.
			Off	An input is not selected and has an active AV signal.
3	IN Ports (2 and 3)	HDMI	Connect to an HDMI source.	
4		HOST USB B 3.2 Connector	Connect to a USB host (for example, a room PC) to communicate with the USB devices (for example, a PTZ camera) connected on this device.	
5	INPUT SELECT Button		Press to select an input. Each press toggles to the next input.  1-3 inputs for Tx mode, 1-4 inputs for Rx mode.	
6	DISPLAY ON Button		Press to turn display On/Off. Button LED lights on sending Display On message. Button LED turns off on sending Display Off message.	
7	PoE LED		Lights green when the device provides PoE to a connected device.	
8	NET LED		LED Status	Indicates
			Lights green	A valid IP address has been acquired.
			Flashes green for 60 seconds	A means to identify the device in a system, using command #IDV.
			Flashes red/green	When the IP mode is set to DHCP but the unit fails to obtain an IP address through a DHCP server and is assigned a default IP address.
9	STATUS LED		LED Status	Indicates
			Not lit	No power detected.
			lights white	PoE powering is active.
			Lights blue	Power is on and a source is connected.
			Lights green	Power is on, and a source and an acceptor are connected.



#	Feature	Function
10	HDBT PoE RJ-45 Connector	Connect to the HDBT RJ-45 connector to a paired receiver (when set to OUT on Tx mode) or transmitter (when set to IN on Rx mode) device that receives or provides PoE (for example, EXT3-21-XR-TR).  HDBT provides PoE only when the device is PSU-powered. HDBT is IN 4 on Rx mode.
11	HDMI OUT Connector	Tx Mode: Connect to a local HDMI acceptor (for example, a monitor). Rx Mode: Connect to an HDMI acceptor.
12	USB DEVICE A 3.1 Port (1 to 3)	Connect to the USB local devices (for example, a USB camera, a soundbar, microphone and so on).
13	IR 3.5mm Mini Jack	Connect to an IR emitter or sensor cable for IR extension over HDBT, or IR emitter for IR signal output per command from LAN-connected controller (for example, from KC-VB1).
14	AUDIO OUT 5-pin Terminal Block Connector	Connect to a balanced stereo analog audio acceptor.
15	I/O 3-pin Terminal Block (S1 to S2) (GND is common for I/O and RS-232).	Connect to: - Input-triggering devices (for example, remote buttons or sensors), OR - Output-triggered devices (for example, remote alarm LED indication). Each of these GPIO ports may be configured as a digital input, digital output, or an analog input port.

#	Feature	Function
16	RS-232 3-pin Terminal Block	- Connect and control the SWT3-31-HU-TR unit (default). - Connect to an RS-232 controlled device (for example, the connected PTZ USB camera) to be controlled via an IP-connected controller (for example, SL-240C).
17	1G LAN PoE RJ-45 Connector	Connect to LAN. The device accepts power from the LAN port. ⚠ Make sure to connect only one HDBaseT endpoint (transmitter or receiver) to the network equipment (switch or router). Connecting both endpoints to the network can cause network loops and signal issues.
18	20V DC Power Connector	Use the included +20V 6A power supply for powering the unit and charging the source device connected to the USB-C port.
19	RESET Recessed Button	For restoring factory default settings, press the RESET button and connect power to device (keep pressing longer than 6sec after power connection).

Step 3: Mount SWT3-31-HU-TR

Install **SWT3-31-HU-TR** using one of the following methods:

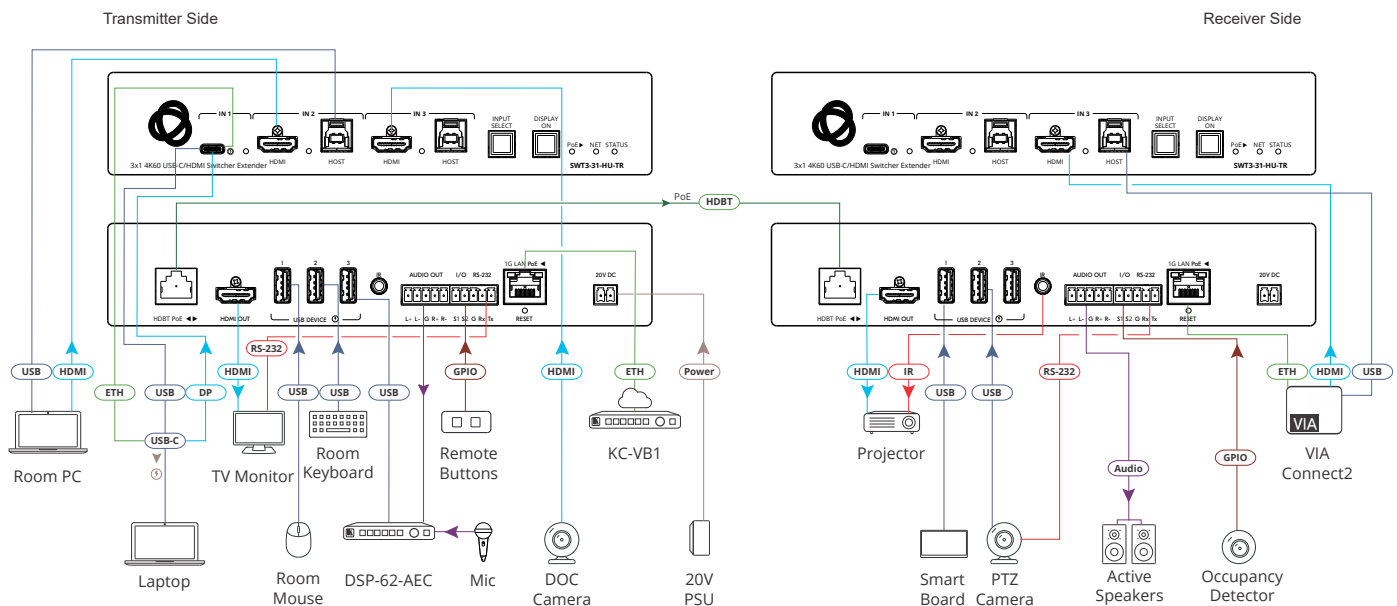
- Mount device with its optional RK-19N <https://www1.kramerav.com/uk/product/RK-19N> to the underside of the table and secure.
- Attach the rubber feet and place the unit on a flat surface.
- Mount the unit in a rack using the recommended rack adapter <https://www1.kramerav.com/Product/RK-1>



- 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

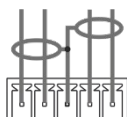
Always switch OFF the power on each device before connecting it to your **SWT3-31-HU-TR**.



Regarding power options, see next section.

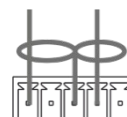
Connecting the audio output

To a balanced stereo audio acceptor:



L+ L- G R+ R-

To an unbalanced stereo audio acceptor:



L+ L- G R+ R-

Step 5: Connect power

Power the device via the LAN or HDBT port. Use the supplied 20V power adapter to power the device and enable the USB-C port to charge its connected devices.



Safety Instructions (See 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.

Step 6: Operate SWT3-31-HU-TR

Operate **SWT3-31-HU-TR** via:

- Front panel buttons.
- Remotely, by IP or RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller.
- Device web pages via the IP client connection.

RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII
Stop Bits:	1		
Example: (flash LEDs on the front panel for 60 seconds): #IDV<CR>			
Default IP Parameters – DHCP ON			
Fallback IP Address:	192.168.1.39	UDP Port #:	50000
Subnet mask:	255.255.255.0	TCP Port #:	5000
Gateway:	192.168.0.1	User/Password	Admin/Admin
Factory Reset			
Protocol 3000:	"#FACTORY" command. After receiving "FACTORY OK" perform one of the following to restart the device and complete the procedure: • Power cycle • Send command "#RESET"		
Web Pages:	In the Settings page, click Factory Reset.		

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