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## SWT3-21-HU-TR Quick Start Guide

This guide helps you install and use your **SWT3-21-HU-TR** for the first time.

Go to [link to the user manual](#) to download the latest user manual and check if firmware upgrades are available.

Keep your firmware up-to-date by going to [link to the Resources Tab](#). See the user manual for firmware download and error recovery information.

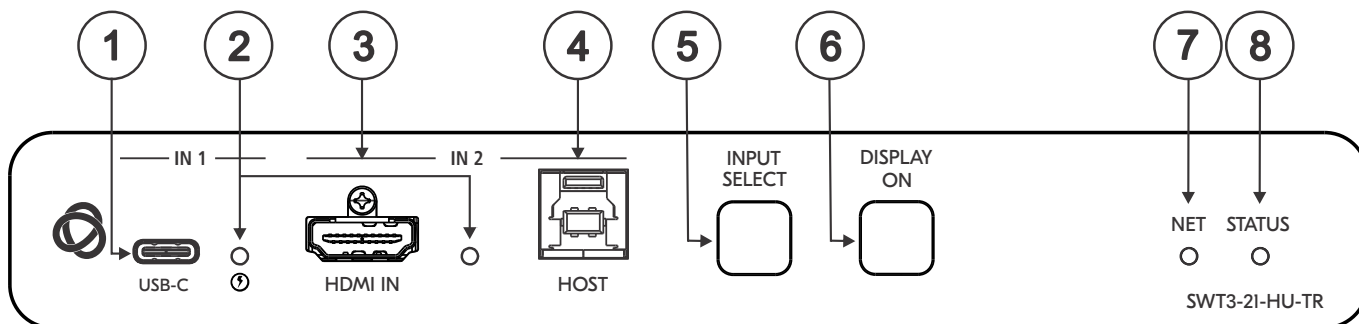
### Step 1: Check what's in the box




- ✓ **SWT3-21-HU-TR** 2x1 4K60 HDMI Switcher Extender
- ✓ 1 Multi signal USB-C cable (1m)
- ✓ 1 Quick start guide
- ✓ 2 Power cords and adapter
- ✓ Set bracket & 4 Rubber feet

### Step 2: Get to know your SWT3-21-HU-TR




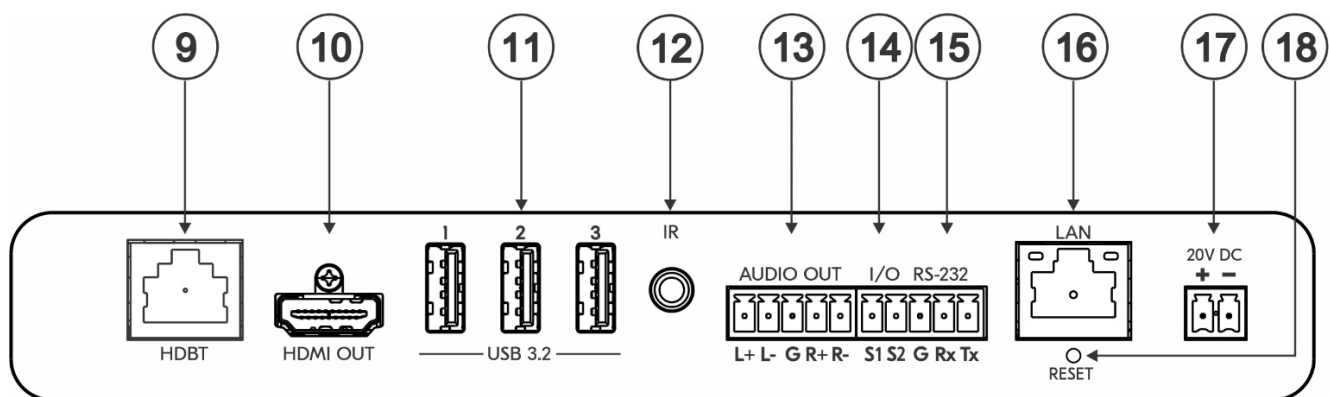
Configuring the device as transmitter (Tx) or receiver (Rx, default) is done via the embedded webpages settings.




#	Feature	Function										
1	USB-C IN 1 Port	<p>Connect to a USB-C host (AV + USB + LAN):</p> <ul style="list-style-type: none"><li>• that supports DisplayPort Alternate Mode, (for example, a laptop) to share content.</li><li>• to communicate with the USB devices (for example, a PTZ camera) that are connected to the unit,</li><li>• to connect to the LAN</li><li>• to charge the connected sources (that supports USB Power Delivery 2.0).</li></ul> <p> Make sure to disconnect the USB-C cable from your host device before modifying the USB type, or before performing a factory reset.</p> <p> After modifying the USB device type via the web, power cycle the unit after the webpage indicates that the process is complete.</p> <p> While charging, the charging icon (to the right of the connector) becomes visible and lights orange.</p>										
2	IN 1 / IN 2 Status LED (per input port)	<table><tr><th>LED Status</th><th>Indicates</th></tr><tr><td>Lights blue</td><td>An input is selected and connected with an active AV or AV+USB source.</td></tr><tr><td>Flashes blue</td><td>An input is selected and has no active AV signal.</td></tr><tr><td>Lights magenta</td><td>An input is selected and connected with an active USB host only (no AV).</td></tr><tr><td>Off</td><td>No input is selected.</td></tr></table>	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.	Lights magenta	An input is selected and connected with an active USB host only (no AV).	Off	No input is selected.
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#	Feature		Function
3	IN 2 Ports	HDMI IN	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 switches to the next input, cycling through all the available inputs.  1-2 inputs for Tx mode, 1-3 inputs for Rx mode.
6	DISPLAY ON Button		Press to turn display On/Off. Button LED lights on after sending Display On message. Button LED turns off after sending Display Off message.
7	NET LED	<b>LED Status</b>	<b>Indicates</b>
		Not lit	No IP address acquired.
		Flashes red/yellow	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.
		Lights green	A valid IP address has been acquired.
		Flashes green for 60 seconds	A means to identify the device in a system, using the #IDV command or the webpage "FLAG ME" button.
8	STATUS LED	<b>LED Status</b>	<b>Indicates</b>
		Not lit	No power detected
		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
9	HDBT 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).
10	HDMI OUT Connector	Tx Mode: Connect to a local HDMI acceptor (for example, a monitor).
		Rx Mode: Connect to an HDMI acceptor.
11	USB 3.2 Port (1 to 3)	Connect to the USB local devices (for example, a USB camera, a soundbar, microphone and so on).
12	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 <b>KC-VB1/5</b> ).
13	AUDIO OUT 5-pin Terminal Block Connector	Connect to a balanced stereo analog audio acceptor.
14	I/O 3-pin Terminal Block (S1 to S2) (GND is common for I/O and RS-232).	Connect to: <ul style="list-style-type: none"> <li>Input-triggering devices (for example, remote buttons or sensors), <b>OR</b></li> <li>Output-triggered devices (for example, remote alarm LED indication).</li> </ul> Each of these GPIO ports may be configured as a digital input, digital output, or an analog input port.
15	RS-232 3-pin Terminal Block	<ul style="list-style-type: none"> <li>Connect and control the SWT3-21-HU-TR unit (default), OR</li> <li>Connect to an RS-232 controlled device (for example, the connected PTZ USB camera) to be controlled via an IP-connected controller (for example, <b>KC-VB1/5</b>).</li> </ul>
16	1G LAN RJ-45 Connector	Connect to LAN.  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.
17	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.
18	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 SWT3-21-HU-TR

Install **SWT3-21-HU-TR** using one of the following methods:

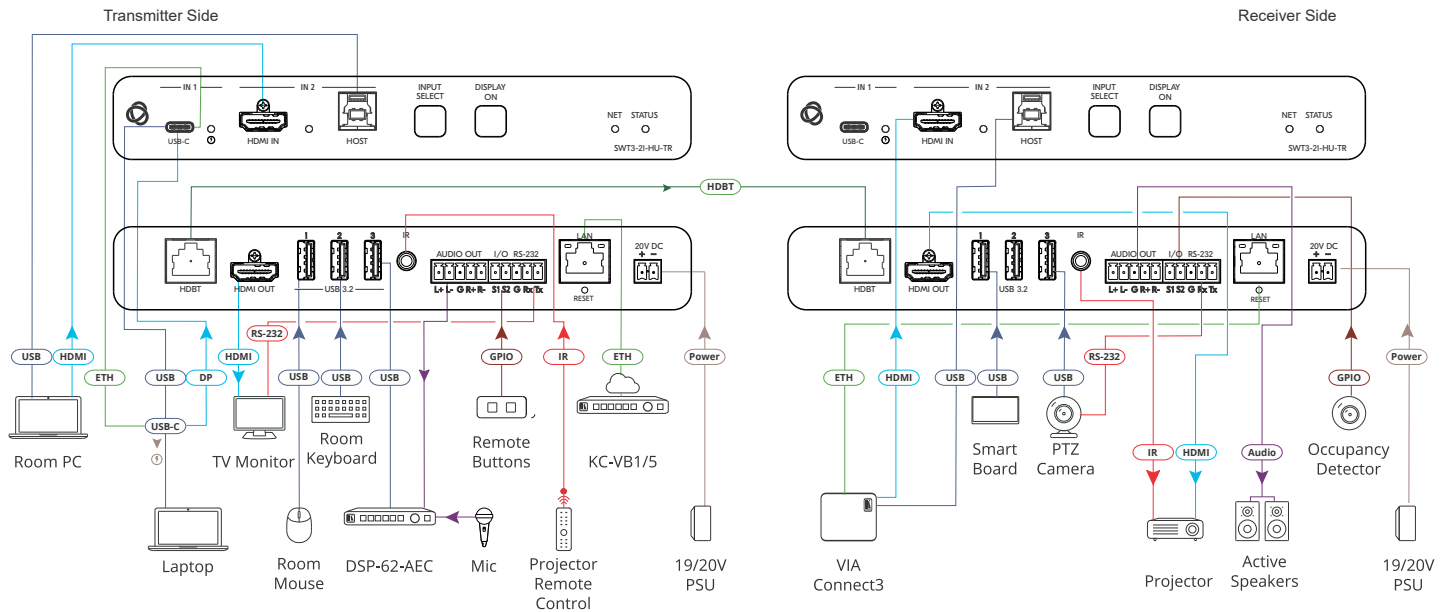
- Mount device with its recommended mounting accessory to the underside of the table and secure.
- Mount the unit in a rack using the recommended rack adapter (see <https://www.kramerav.com/SWT3-21-HU-TR>).
- Attach the rubber feet and place the unit on a flat surface.



- 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.

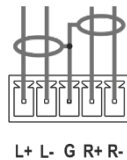
## Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your **SWT3-21-HU-TR**.

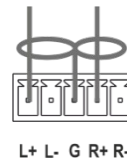


### Connecting the audio output

To a balanced stereo audio acceptor:



To an unbalanced stereo audio acceptor:



## Step 5: Connect power

Power the device via the LAN or HDBT port. Use the supplied 19V power adapter to power the device and enable the USB-C port to charge its connected devices.



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

#### Caution:

- For products with relay terminals and GPI/O 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 SWT3-21-HU-TR

Operate **SWT3-21-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:	<p>"#FACTORY" command.</p> <p>After receiving "FACTORY OK" perform one of the following to restart the device and complete the procedure:</p> <ul style="list-style-type: none"><li>• Power cycle</li><li>• Send command "#RESET"</li></ul>		
Web Pages:	In the Settings page, click Factory Reset.		

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