KRAMER





WP-789T Quick Start Guide

This guide helps you install and use your WP-789T for the first time.

Go to <u>www.kramerav.com/downloads/WP-789T</u> to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ☑ WP-789T HDMI 4K Wall-Plate Line Transmitter
- ✓ 1 Quick start guide
- ☑ Installation accessories

- ☑ 1 Power adapter (with open DC head) and cord
- Frame (or frame set) and faceplate

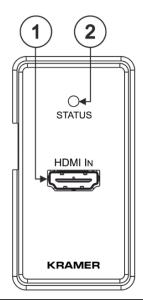
Step 2: Get to know your WP-789T

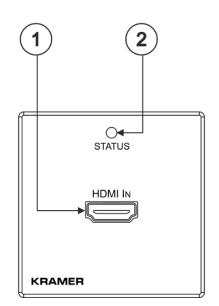
WP-789T

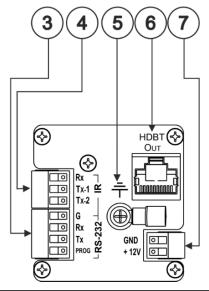
US-D Version Front

EU/UK Version Front

US-D/EU/UK Version Rear







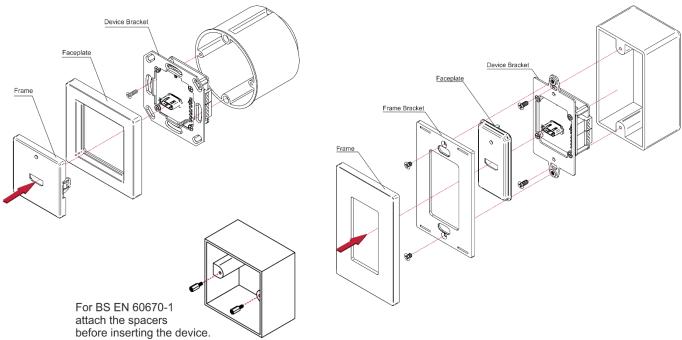
#	Feature	Function			
1	HDMI™ IN Connector	Connects to an HDMI source.			
2	STATUS LED	LED Color	HDBT Connected	Source Detected	Acceptor Detected
		Blue	Yes	Yes	Yes
		Green	Yes	Yes	No
		Yellow	Yes	No	N/A
Wr		White Device is powered with no detected connections.			
		STATUS LED is off only when the device does not receive power.			r.
3	RS-232 (G, Rx, Tx, PROG) 4-pin Terminal Block Connector	Connects to an RS-232 port (see Step 5: Configure the WP-789T).			
4	IR (Rx, Tx-1, Tx-2), 3-pin Terminal Block Connectors	Connect to an external IR infrared emitter (see <u>Step 5: Configure the WP-789T</u>).			
5	Ring Tongue Terminal Grounding Screw	Connect to grounding wire (optional).			
6	HDBT OUT RJ-45 Connector	Connect to the HDBT IN connector on a receiver (for example, TP-789R).			
7	Power Supply 2-pin Terminal Block Connector	Connect to a power supply (if required). Connect GND to GND, +12V to +12V.			



Step 3: Install the WP-789T

Insert the device into the in-wall box (note that first you need to connect the HDBT cable and power) and connect the parts as shown in the illustrations below:

EU/UK Version US-D Version





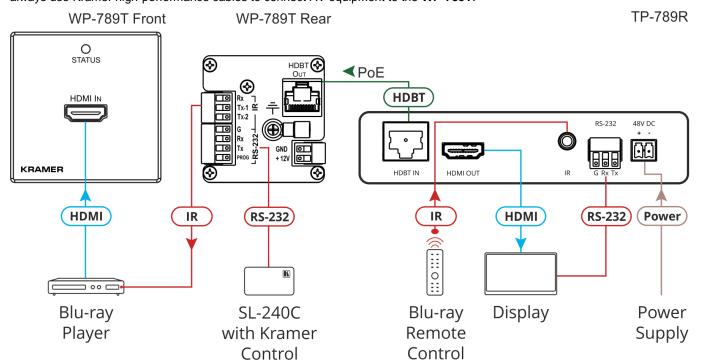
DECORA® design frames are included in US-D models.

We recommend that you use any of the following standard 1 Gang in-wall junction boxes (or their equivalent):

- US-D: 1 Gang US electrical junction boxes.
- **EU**: 1 Gang in-wall junction box, with a cut-hole diameter of 68mm and depth that can fit in both the device and the connected cables (DIN 49073).
- **UK**: 1 Gang in-wall junction box, 75x75mm (W, H) and depth that can fit in both the device and the connected cables (BS 4662 or BS EN 60670-1 used with supplied spacers and screws).

Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **WP-789T**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **WP-789T**.



Step 5: Configure the WP-789T

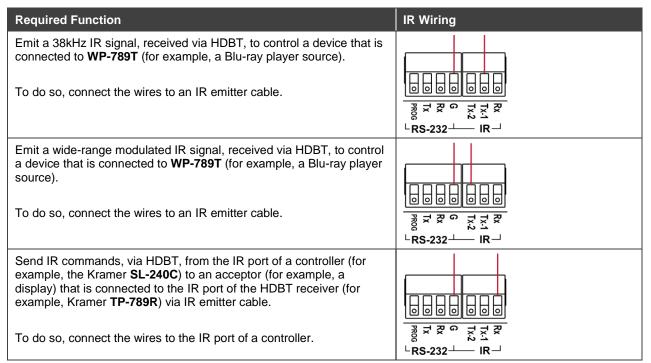
RS-232 Configuration

Required Function	RS-232 Wiring
Extend 2-way RS-232 communication, via HDBT, between an RS-232 controller (for example, Kramer SL-240C) and an acceptor (for example, a display) that is connected to the RS-232 port of the HDBT receiver (for example, Kramer TP-789R).	
To do so, connect the wires to the RS-232 port of a controller.	
Perform device firmware upgrade using a laptop.	
To do so, connect the wires to the RS-232 port of a laptop.	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	ਲੋਲ ਕੋਲ ਕੇਲ ਲੋਲ ਲੋਲ □RS-232 — IR —

IR Configuration



Both the transmitter and receiver need to have identical IR frequency settings.



RJ-45 Pinout

For the HDBT connector, see the wiring diagram below:





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

FW Programming RS-232 Configuration

RS-232 FW Programming				
115,200				
8				
1				
None				
ASCII				

For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/WP-789T.

Step 6: Connect the power

When accepting power over HDBaseT from a PoE provider (for example, the **TP-789R**), there is no need to connect the 12V DC power supply.

Otherwise, connect the 12V power adapter to the device and plug the power supply into the mains electricity.

Safety Instructions



Caution: There are no operator serviceable parts inside the unit.

Warning: Use only the Kramer Electronics power supply that is provided with the unit.Warning: Disconnect the power and unplug the unit from the wall before installing.

See <u>www.KramerAV.com</u> for updated safety information.

Technical Specifications

Inputs	HDMI	On a female HDMI connector	
	IR	On 2-pin terminal block connectors (Tx-1 or Tx-2 and G) for signal extension over HDBT line	
Outputs	HDBT	On a female RJ-45 connector	
	IR	On 2-pin (Rx (on IR), G) terminal block connectors for emitting signal received from HDBT line	
Ports	RS-232	On 3-pin terminal block connectors (G, Rx, Tx) for signal extension over HDBT line	
		On 3-pin terminal block connectors (G, Rx, PROG) for upgrading the FW	
Video	Max Bandwidth	10.2Gbps	
	Max Resolution	4K@60 (4:2:0)	
	Compliance	HDMI 2.0, HDCP 1.4 and 2.2 pass-through, EDID and CEC pass-through	
Extension Range	4k@60 (4:2:0)	Up to 40m (130ft)	
	Full HD (1080p@60Hz)	Up to 70m (230ft)	
Extended RS-232	Baud Rate	300 to 115200 baud	
Extended IR	Frequency	Wide-range modulated: 20kHz to 100kHz Fixed: 38kHz	
Power	Consumption with Power Adapter	12V DC, 250mA	
	Source	12V DC, 2A with DC head open	
Environmental	Operating Temperature	0° to +40°C (32° to 104°F)	
Conditions	Storage Temperature	-40° to +70°C (-40° to 158°F)	
	Humidity	10% to 90%, RHL non-condensing	
Regulatory	Safety	CE	
Compliance	Environmental	RoHs, WEEE	
Enclosure	Net Dimensions (W, D, H)	US-D: 7cm x 3.1cm x 11.4cm (2.8" x 1.2" x 4.5)	
		EU: 8cm x 3.1cm x 8cm (3.1" x 1.2" x 3.1)	
		UK: 8.6cm x 3.1cm x 8.6cm (3.4" x 1.2" x 3.4")	
	Shipping Dimensions (W, D, H)	23.2cm x 13.6cm x 10cm (9.1" x 5.4" x 3.9")	
	Net Weight	0.17kg (0.4lbs)	
	Shipping Weight	0.56kg (1.2lbs) approx.	
	Туре	Aluminum	
	Cooling	Convection ventilation	
Accessories	Included	1 Power adapter, 1 power cord, installation accessories For the US version: 2 US-D frame sets and faceplates (in black and in white) For the European version: 1 EU white frame, 1 UK white frame, 1 EU/UK white faceplate	

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