KRAMER





Scan for full manual

TP-789R Quick Start Guide

This guide helps you install and use your TP-789R for the first time.

Go to www.kramerav.com/downloads/TP-789R to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

▼ TP-789R HDMI Line Receiver

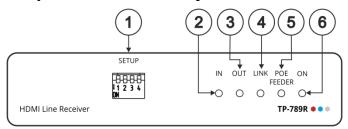
4 Rubber feet

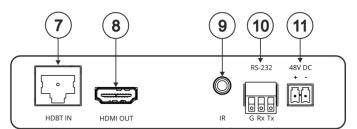
1 Quick start guide

1 Power adapter and cord

1 Bracket set

Step 2: Get to know your TP-789R





| # | Feature | Function |
|----|---|---|
| 1 | SETUP DIP-switches | Set the operation DIP-switches. |
| 2 | IN LED | Lights green when an active far-end source device input signal is detected. |
| 3 | OUT LED | Lights green when an active sink (acceptor) output signal is detected via the HDBT link. |
| 4 | LINK LED | Lights green when an HDBT link is established with the HDBaseT transmitter. |
| 5 | POE FEEDER LED | Lights green when the device is feeding PoE power to the HDBT connected transmitter. |
| 6 | ON LED | Lights green when the device receives power either from the power supply unit or by PoE. |
| 7 | HDBT IN RJ-45 Connector | Connect to the RJ-45 HDBT OUT connector on a transmitter (for example, WP-20, TP-780T). |
| 8 | HDMI® OUT Connector | Connect to an HDMI acceptor. |
| 9 | IR 3.5mm Mini Jack Connector | Connect to an external infrared emitter / sensor. |
| 10 | RS-232 (G, Rx, Tx) 3-pin Terminal Block Connector | Connects to an RS-232 port for serial link extension to a transmitter. |
| 11 | 48V DC Power Terminal Block Connector | If TP-789R provides PoE, connect it to the Kramer power adapter. If it accepts PoE, no power connection is needed. |

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

TP-789R Quick Start (P/N: 2900-300966QS REV 1)

Rev:

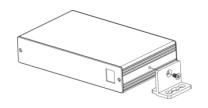
Step 3: Install TP-789R

Install TP-789R 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. For more information go to

www.kramerav.com/downloads/TP-789R.

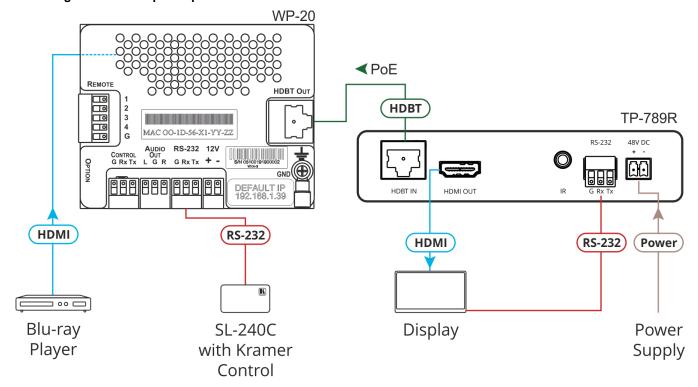
Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/TP-789R).



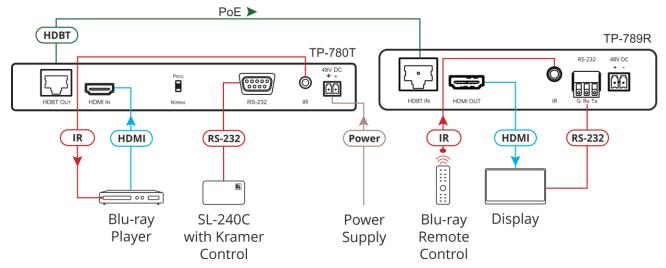
Step 4: Connect the inputs and outputs

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

Connecting TP-789R as a power provider:

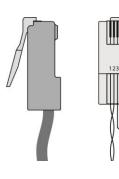


Connecting TP-789R as a power acceptor:



RJ-45 Pinout:

For the Ethernet connector, see the wiring diagram below:





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

DIP-Switch Settings

All DIP-switches are set to OFF (up) by default. Changes to DIP-switch 4 only take effect after rebooting the device.



SETUP

| # | Feature | Dip-switch Settings | |
|---|-----------------|--|--|
| 1 | Reserved | For future use. | |
| 2 | Reserved | For future use. Set to OFF (up). | |
| 3 | IR Frequency | OFF (up) – IR frequency is 38kHz. ON (down) – Wide-range modulated IR frequency. Set to OFF for backward compatibility with 38kHz IR extension. | |
| 4 | FW Upgrade | OFF – Normal operation mode. ON – HDBT FW upgrade mode. When set to ON device operation is disabled. | |

Step 5: Connect the power

When used as a PoE provider, connect the 48V DC power supply to **TP-789R** and plug it into the mains electricity (to also provide power to a transmitter).

When accepting power from an HDBT transmitter via PoE there is no need to connect the 48V DC power supply.

Safety Instructions



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

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

See www.KramerAV.com for updated safety information.

Step 6: Upgrade the firmware

Upgrade the firmware by:

- · Setting the DIP-switches.
- Loading the new firmware via the RS-232 port on the TP-789R.

| RS-232 Pass-through Data | | |
|--------------------------|---------|--|
| Baud Rate: | 115,200 | |
| Data Bits: | 8 | |
| Stop Bits: | 1 | |
| Parity: | None | |
| Command Format: | ASCII | |

Technical Specifications

| Output Ports Video | HDMI RS-232 | On a female HDMI connector |
|--------------------------|--------------------------------|---|
| | RS-232 | |
| Video | 110 202 | On a 3-pin terminal block connector for serial link extension |
| Video | IR | On a 3.5mm mini-jack connector for IR link extension |
| VIUCU | Max Bandwidth | 10.2Gbps |
| | Max Resolution | 4K@60 (4:2:0) |
| | Compliance | HDMI 2.0 and HDCP 2.2 |
| 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 | 20kHz to 100kHz |
| | Direction | Bidirectional (IR sensor or emitter) |
| Controls | Front Panel | IN, OUT, LINK, POE FEEDER and ON LED indicators |
| | Rear Panel | DIP-switches |
| Power | Consumption | 48V DC, 350mA |
| | Source | 48V DC, 1.36A |
| 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 | Size | Tool |
| | Туре | Aluminum |
| | Cooling | Convection ventilation |
| General | Net Dimensions (W, D, H), each | 12cm x 7.2cm x 2.4cm (4.7" x 2.8" x 0.94") |
| | Shipping Dimensions (W, D, H) | 15.7cm x 12cm x 8.7cm (6.2" x 4.7" x 3.4") |
| | Net Weight, each | 0.2kg (0.44bs) approx. |
| | Shipping Weight | 0.72kg (1.6lbs) approx. |
| Accessories | Included | 1 Power adapter, 1 power cord and 1 bracket set per device |

 ϵ

