# KRAMER

Scan for full manual
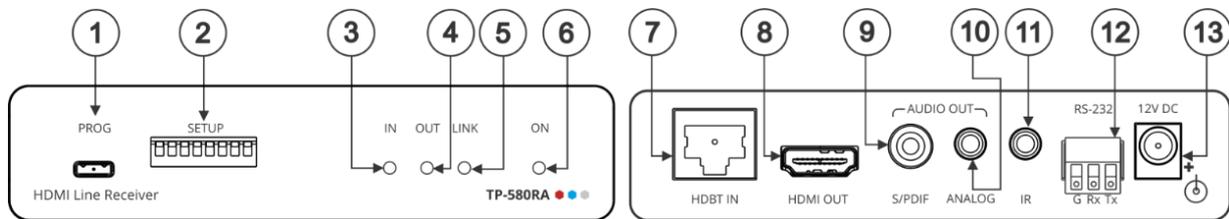
# TP-580RA Quick Start Guide

This guide helps you install and use your **TP-580RA** for the first time.

Go to www.kramerav.com/downloads/TP-580RA to download the latest user manual and check if firmware upgrades are available.

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

- ☑ **TP-580RA** HDMI Line Receiver
- ☑ 1 Power adapter and cord
- ☑ 4 Rubber feet
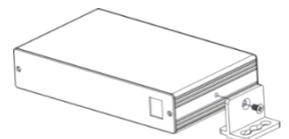- ☑ 1 Quick start guide

## Step 2:  Get to know your TP-580RA



| # | Feature | | Function |
|---|---------|---|----------|
| 1 | PROG Micro USB Port | | Connect to a PC to perform firmware upgrades (via K-Upload) and work with the EDID Designer. K-Upload and EDID Designer can be downloaded from our Web site at: www.kramerav.com/support. |
| 2 | SET UP DIP-switches | | Used to set the device behavior. |
| 3 | IN LED | | Lights green when an active far-end source HDMI™ input signal is detected via the HDBaseT link (an HDMI signal is detected from a source device connected to the HDBaseT transmitter that is connected to this input). |
| 4 | OUT LED | | Lights green when a signal is detected on the HDMI output from an active device. |
| 5 | LINK LED | | Lights green when a link is established between the **TP-580RA** and the HDBaseT transmitter. |
| 6 | ON LED | | Lights green when the device receives power. |
| 7 | HDBT IN RJ-45 Connector | | Connect to the RJ-45 OUT connector on a transmitter (for example, **TP-580T**). |
| 8 | HDMI OUT Connector | | Connect to an HDMI acceptor. |
| 9 | AUDIO OUT | S/PDIF RCA Connector | Connect to a digital stereo audio acceptor. |
| 10 | | ANALOG 3.5mm Mini Jack | Connect to an analog unbalanced stereo audio acceptor. |
| 11 | IR 3.5mm Mini Jack Connector | | Connect to an external infrared emitter / sensor. |
| 12 | RS-232 3-pin Terminal Block Connector | | Connect to a controlled device (so that it can be controlled from a remote serial controller); connect to a laptop to upgrade the firmware or to a control system to serially control the **TP-580RA**. |
| 13 | 12V DC Power Connector | | 12V DC connector for powering the unit. |

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 TP-580RA

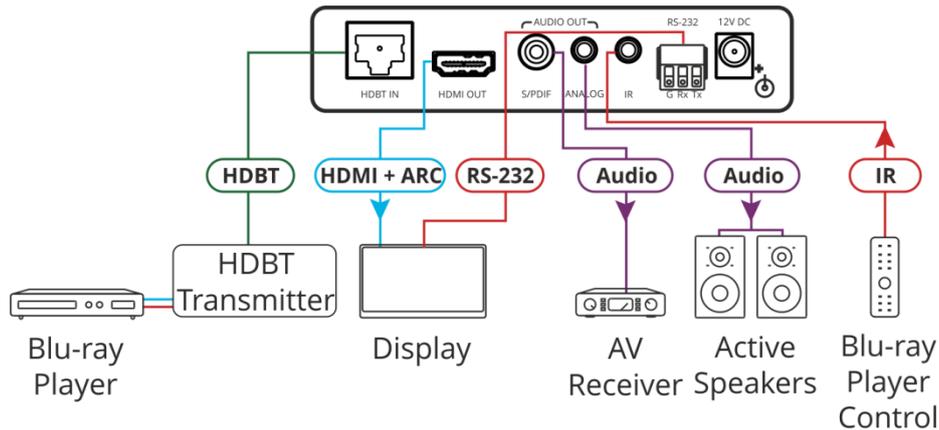Install **TP-580RA** using one of the following methods:

- Attach the rubber feet and place the unit on a flat surface.
- Fasten a bracket on each side of the unit and attach it to a flat surface (see www.kramerav.com/downloads/TP-580RA).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/TP-580RA).

⚠️
- 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.
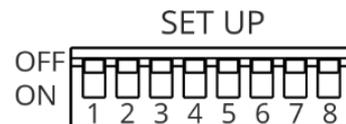- Reliable earthing of rack-mounted equipment should be maintained.

# Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your **TP-580RA**.



### SETUP DIP-switches

A DIP-switch that is down is on, up is off (by default, DIP-switch 3 is set to ON and all the other DIP-switches are set to OFF). Changes to DIP-switches 7 and 8 only take effect after power-cycling the device. Changes to DIP-switches 1 and 3 only take effect after unplugging and then replugging the input cable.



| # | Function | Status |
|---|----------|--------|
| 1 | EDID lock | Off (up) – EDID parameters are passed-through. |
| | | On (down) – EDID Locked.  When EDID is locked, the audio parameters are set as defined by |
| | | DIP-switch 3. In the pass-through mode, DIP-switch 3 setup is ignored. |
| 2 | Extracted audio | Off (up) – HDBT IN source audio is selected for extraction. |
| | | On (down) – HDMI OUT ARC sink audio is selected for extraction. |
| 3 | Audio pass-through | Off (up) – Passes the audio parameters. |
| | | On (down) – Limits the audio to 2-channel LPCM. |
| | | This setup is enabled after unlocking and relocking the EDID by setting DIP-switch 1 to On (EDID locked). |
| 4 | HDCP operation | Off (up) – Passes HDCP. |
| | | In this state, if the sink supports HDCP, the input declares HDCP support. It will then handle HDCP on the output and input actively. If the sink does not support HDCP then the input will declare HDCP is not supported. |
| | | On (down) – HDCP off. |
| | | In this state, the device does not support HDCP on its input, even if HDCP is detected on the output. |
| 5 | Color space | Off (up) – Color space parameters are passed-through. |
| | | On (down) – Forces RGB color space. |
| 6 | RS-232 mode | Off (up) – RS-232 control of device; RS-232 extension mode is disabled. |
| | | On (down) – RS-232 extension mode. |
| 7 | HDBT FW upgrade | Off (up) – Normal operation mode. |
| | | On (down) – HDBT FW upgrade mode, device normal operation is disabled. |
| | | This setup is enabled only after DIP-switch 6 is set to On (RS-232 extension mode). |
| 8 | CPU FW upgrade | Off (up) – Normal operation mode. |
| | | On (down) – CPU FW upgrade mode, device normal operation is disabled; DIP-switch 6 is set to Off. |

> To achieve specified extension distances, use the recommended Kramer cables available at www.kramerav.com/product/TP-580RA.
>
> Using third-party cables may cause damage!

# Step 5: Connect power

Connect the power cord to **TP-580RA** and plug it into the mains electricity.

Safety Instructions (See 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.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.