KRAMER

TP-583T/TP-583R Quick Start Guide

This guide helps you install and use your **TP-583T/TP-583R** for the first time.

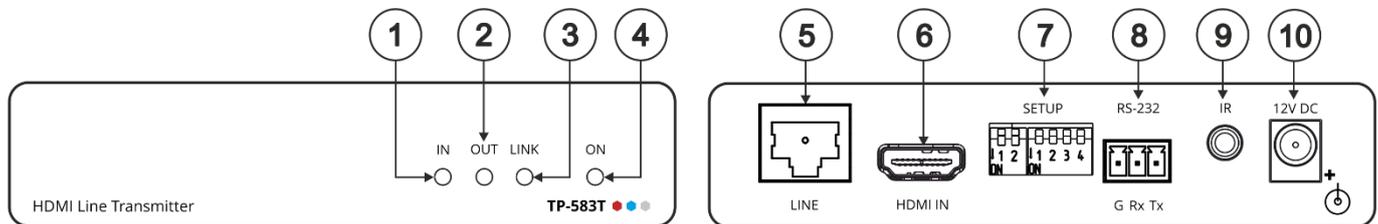Go to www.kramerav.com/downloads/TP-583T, TP-583R to download the latest user manual and check if firmware upgrades are available.

Step 1:   Check what's in the box

- ☑ **TP-583T** HDMI Line Transmitter **or**
- ☑ **TP-583R** HDMI Line Receiver
- ☑ 1 Power adapter and cord
- ☑ 4 Rubber feet
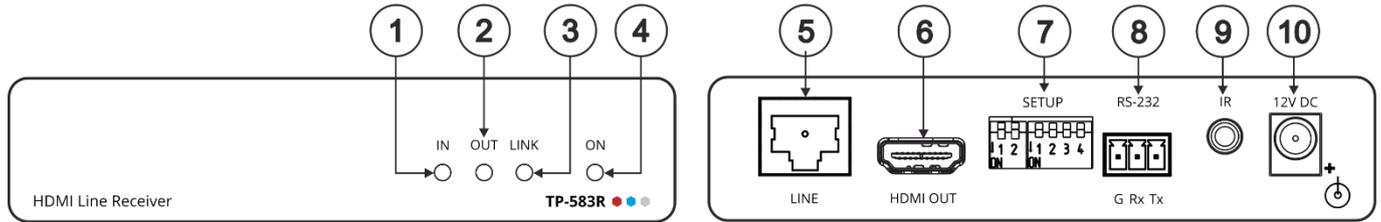- ☑ 1 Quick start guide
- ☑ 1 Bracket set

Step 2:   Get to know your TP-583T and TP-583R

TP-583T

#	Feature	Function
1	IN LED	Lights green when an active source device input signal is detected.
2	OUT LED	Lights green when an active, far-end sink (acceptor) connection is detected via the HDBT link.
3	LINK LED	Lights green when an HDBT link is established with the HDBaseT receiver.
4	ON LED	Lights green when the device receives power.
5	LINE RJ-45 Connector	Connect to the RJ-45 HDBT LINE connector on a receiver (for example, **TP-583R**, **TP-780R** and so on).
6	HDMI™ IN Connector	Connect to an HDMI source.
7	SETUP DIP-switches	Set the operation DIP-switches.
8	RS-232 (G, Rx, Tx) 3-pin Terminal Block Connector	Connect to a laptop to control the receiver or perform firmware upgrade. Connect to a controller device (for example, **SL-240C**) to serially control a remote device (for example, the HDMI OUT acceptor) that is connected to **TP-583R**.
9	IR 3.5mm Mini Jack Connector	Connect to an external infrared emitter / sensor.
10	12V DC Power Connector	12V DC connector for powering the unit.

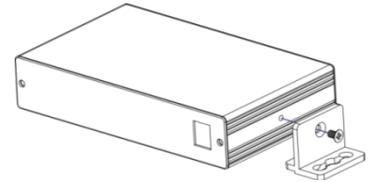| #	Feature	Function
1	IN LED	Lights green when an active, far-end source device input signal is detected via the HDBT link.
2	OUT LED	Lights green when an active sink (acceptor) connection is detected.
3	LINK LED	Lights green when an HDBT link is established with the HDBaseT transmitter.
4	ON LED	Lights green when the device receives power.
5	LINE RJ-45 Connector	Connect to the RJ-45 HDBT LINE connector on a transmitter (for example, **TP-583T**, **TP-780T** and so on).
6	HDMI® OUT Connector	Connect to an HDMI acceptor.
7	SETUP DIP-switches	Set the operation DIP-switches.
8	RS-232 (G, Rx, Tx) 3-pin Terminal Block Connector	Connect to a laptop to control the receiver or perform firmware upgrade. Connect to a serially controlled device (for example, the HDMI OUT acceptor) to enable its control by a remote controller device (for example, **SL-240C**) that is connected to **TP-583T**.
9	IR 3.5mm Mini Jack Connector	Connect to an external infrared emitter / sensor.
10	12V DC Power Connector	12V DC connector for powering the unit.

Step 3: Install TP-583T/TP-583R

Install **TP-583T**/**TP-583R** using one of the following methods:

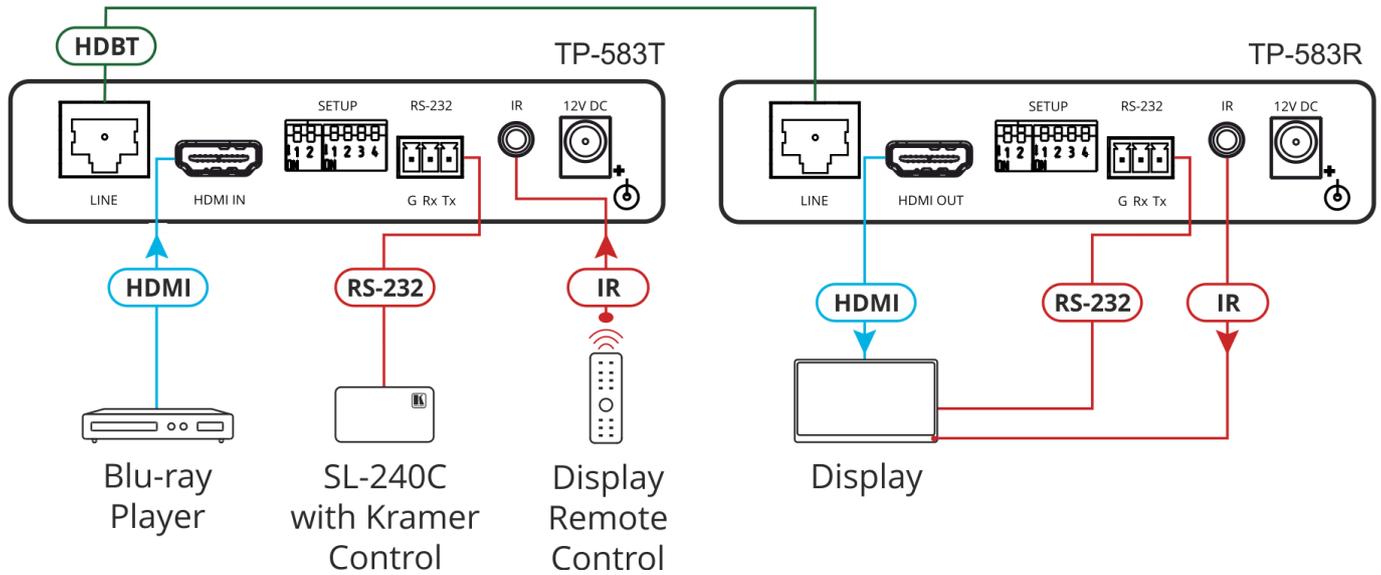Attach the rubber feet and place the unit on a flat surface.

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-583T, TP-583R.

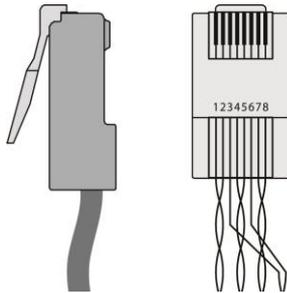Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/TP-583T, TP-583R).

Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **TP-583T/TP-583R**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to **TP-583T/TP-583R**.

RJ-45 Pinout:

For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield:

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

For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/TP-583T, TP-583R.
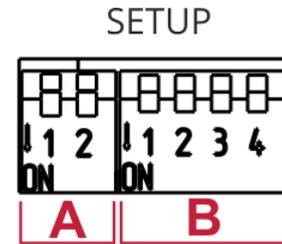
DIP-Switch Settings

The DIP-switches are used to:

- Set the compression levels and resolutions.
- Enable RS-232 signal extension.
- Upgrade the firmware.
- Determine IR signal pass-through.

SETUP

(i) All the DIP-switches are set to **OFF** (up) by default.

(i) To use your **TP-583T** or **TP-583R** with any other standard HDBaseT

extender (**without compression**), verify that DIP-switch 1B is **OFF** (up).

A – DIP-switch Settings

#	Feature	DIP-switch Settings
1A	Reserved	Set to OFF (up).
2A	Set the Compression Level (for extended range)	OFF (up) – Standard compression level. ON (down) – High compression level for additional extension.

B – DIP-switch Settings
Changes to DIP-switches 2B and 3B only take effect after power cycling the device.

#	Feature	DIP-switch Settings
1B	Define Compressed Resolutions	OFF (up) – Compress signal resolutions higher than 1080p. ON (down) – Compress all signal resolutions to enable extended reach.
2B, 3B	Define RS-232 Function	OFF (up), OFF (up) – Embed RS-232 data and control signals over the extension line. (i) Other DIP-switch settings are reserved for firmware upgrade. For further details, contact support@kramerav.com.
4B	Define IR Pass-through	OFF (up) – Pass-through the IR signal to the IR port via IR cable. ON (down) – Add IR modulation to the IR output signal (applies only when the IR port is connected to an IR emitter cable). (i) The IR Pass-through DIP-switch setup depends on the IR control configuration. We recommend that you test which position best suits your application.

Step 5: Connect the power

Connect the 12V DC power adapter to **TP-583T/TP-583R** and plug it into the mains electricity.

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.

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