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.

Scan for full manual

Step 1: Check what's in the box

▼ TP-583T HDMI Line Transmitter or
▼ 1 Power adapter and cord

1 Quick start guide

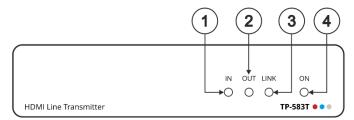
▼ TP-583R HDMI Line Receiver

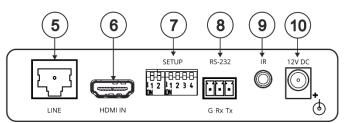
4 Rubber feet

1 Bracket set

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

TP-583T

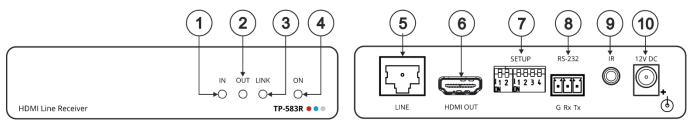




#	Feature	Function	
1	IN LED	Lights green when an active source device input signal is detected.	
2	OUT LED	Lights green when an active, far-end sink (acceptor) connection is detected via the HDBT link.	
3	LINK LED	Lights green when an HDBT link is established with the HDBaseT receiver.	
4	ON LED	Lights 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.	

TP-583T/TP-583R Quick Start (P/N: 2900-300962QS REV 1)

Rev:



#	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

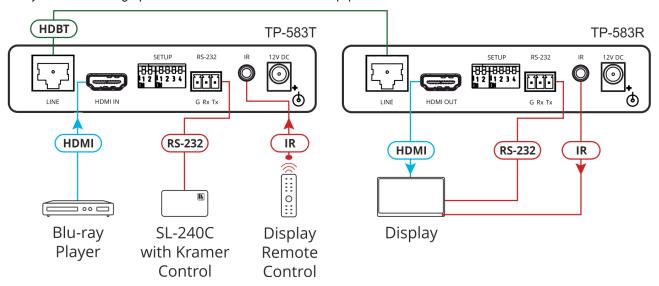
www.kramerav.com/downloads/TP-583T, TP-583R.

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



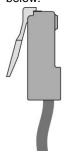
Step 4: Connect the inputs and outputs

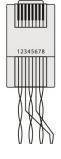
Always switch OFF the power on each device before connecting it to your **TP-583T/TP-583R**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to **TP-583T/TP-583R**.



RJ-45 Pinout:

For the Ethernet connector, see the wiring diagram below:

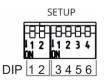




PIN EIA /TIA 568B			
PIN	Wire Color		
1	Orange / White		
2	Orange		
3	Green / White Blue Blue / White Green		
4			
5			
6			
7	Brown / White		
8	Brown		

DIP-Switch Settings

All DIP-switches are set to Off (up) by default. Changes to DIP-switches 4 and 5, only take effect after power cycling the device.



#	Feature	Dip-switch Settings	
1	Reserved	Set to OFF.	
2	Compression Level	OFF – Low compression level is applied. ON – High compression level is applied to gain better extension reach performance.	
3	Compressed Signals	OFF – Compression is applied only to signal resolutions higher than 1080p. ON – Compression is applied to all signal resolutions. Compression can be applied for a TP-583T/TP-583R paired-connection only, thus preserving backward compatibility with standard-HDBT extenders.	
4, 5	FW Upgrade	OFF, OFF – Normal operation mode. ON, OFF – HDBT FW upgrade mode. ON, ON – Compression FW upgrade mode. When either DIP-switch is set to ON, the device extension operation is disabled.	
6	IR Frequency Mode	OFF (up) – Frequency is 38kHz. ON (down) – Wide-range modulated IR frequency.	

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

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

Step 6: Operate TP-583T/TP-583R

Operate **TP-583T/TP-583R** remotely, by RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller

RS-232 Control	
Baud Rate:	57,600
Data Bits:	8
Stop Bits:	1
Parity:	None
Command Format:	ASCII

Technical Specifications

TP-583T

Input	1 HDMI	On a female HDMI connector		
Output	HDBT	On an RJ-45 connector		
Port	RS-232	On a 3-pin terminal block connector for serial link extension		
	IR	On a 3.5mm mini jack connector		
TP-583R		-		
Input	HDBT	On an RJ-45 connector		
Output	1 HDMI	On a female HDMI connector		
Port	RS-232	On a 3-pin terminal block connector for serial link extension		
	IR	On a 3.5mm mini jack connector		
General		·		
Video	Transmitted Data Bandwidth	Up to 18Gbps (6Gbps per graphic c	channel)	
	Max Resolution	Standard compression level	4096x2160@60Hz (4:4:4) 24bpp	
		High compression level	3840x2160@60Hz (4:4:4) 24bpp	
	Compliance	HDMI 2.0, HDCP 2.2, HDR 10		
Reach Extension	We recommend that you use Kramer	shielded cables to achieve optimum extension ranges.		
	Standard Compression Level	Up to 40m (130ft) at 4K@60Hz (4:4:4)		
		Up to 70m (230ft) at 4K@60Hz (4:2:0) or full HD (1080p @60Hz 36bpp)		
	High Compression Level Up to 70m (230ft) at 4K@60Hz (4:4:4), 4K@60Hz (4:2:0) and full HI		:4), 4K@60Hz (4:2:0) and full HD	
		(1080p @60Hz 36bpp)		
Extended RS-232	Baud Rate	300 to 115200		
Controls	Front Panel	IN, OUT, LINK and ON LED indicators		
	Rear Panel	DIP-switches		
Power	Consumption	12V DC, TP-583T 480mA; TP-583R 680mA		
	Source	12V DC, 2A		
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 Compliance	Safety	CE, UL		
	Environmental	RoHs, WEEE		
Enclosure	Size	Tool		
	Type	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.		
	Chinaina NA/aimht	0.70kg (4.6lba) approx		

0.72kg (1.6lbs) approx.

1 Power adapter, 1 power cord and 1bracket set per device

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

Shipping Weight

Specifications are subject to change without notice at www.kramerav.com

Included

 $C \in$



Accessories