

User Manual

TPUH620

HDBaseT Extender Set

230ft/70m 4K UHD HDMI2.0



All Rights Reserved

Statement

Read this user manual carefully before using the product. Pictures shown in this manual is for reference only, different model and specifications are subject to real product. This manual is only for operation instruction only, not for any maintenance usage. The functions described in this version are updated till September 11, 2017. In the constant effort to improve our product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Refer all servicing to qualified service personnel.

After-Sales Service

AV-BOX provide limited warranty for the product within **two years** counting from the first day you buy this product (The purchase invoice shall prevail).

For more details, contact AV-BOX:

Tel: 8 804 333-18-83

Email: i@av-box.ru

Website: www.av-box.ru

Introduction

TPUH620 is an HDMI2.0 HDBaseT Extender set consist of transmitter (TPUH620T) and receiver (TPUH620R). It extends 1080p HDMI signal via CAT5e/6a cable at 100m/PoC, and enables IR and RS232 pass-through to control local source device from remote or far-end display. It also features 4 Ethernet ports for network extension.

Features

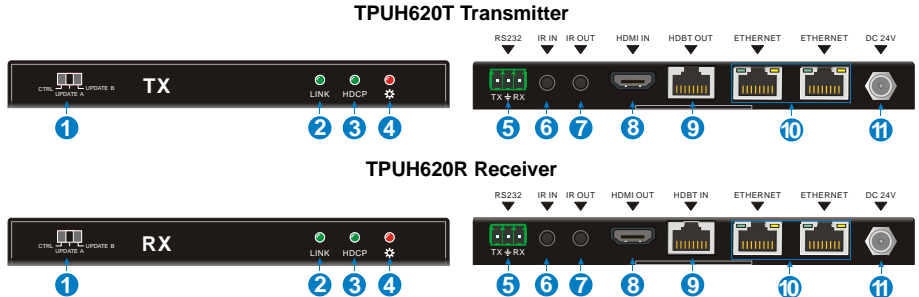
- Supports HDMI2.0 & HDCP2.2, and is backward compatible to the previous version.
- Maximum transmission distance is up to 70m for 4Kx2K, and 100m for 1080p.
- Supports bi-directional IR and RS232 pass-through for long-distance control.
- Supports bi-directional PoC for simplified wiring.
- Supports HDR.
- Features DIP switcher for choosing RS232 mode: Control or Update.

HDBaseT Extender Set

Package List

- 1 x TPUH620T Transmitter
- 4 x Mounting Ears & 4 x Screws
- 2 x 3-pin Phoenix Connector
- 1 x User Manual
- 1 x TPUH620R Receiver
- 8 x Plastic Cushions
- 1 x Power Adaptor (24VDC,1.25A)

Panel Description



No.	Name	Description
①	RS232 MODE switcher	CTRL: RS232 pass-through control mode; UPDATE A: Update Valens IC program, connect a PC to the RS232 port, and then double-click the update file (.bat). UPDATE B: Update compression IC program, the upgrade method is the same as the above UPDATE A.
②	Link status LED	OFF: No Link; GREEN:Link successful.
③	HDCP compliant LED	OFF: No HDMI traffic (no image); GREEN: Traffic with HDCP; Blinking: Traffic without HDCP.
④	Power LED	OFF: No power; RED: DC power present.
⑤	RS232 connectors	If one is connected with control device (e.g. PC), and the other should be connected with the third-party that need to be controlled.
⑥	IR IN	Work with far-end IR OUT port, connect with IR Receiver (with carrier) to collect IR signal to control far-end display device from local.
⑦	IR OUT	Work with far-end IR IN port, connect with IR Emitter to send IR signal to control input source device from remote.
⑧	HDMI IN (TPUH620T)	Connect with HDMI source.
	HDMI OUT(TPUH620R)	Connect with HDMI display.
⑨	HDBT OUT(TPUH620T)	Connect to the HDBT IN socket on TPUH620R via CAT5e/6a/7 cable.
	HDBT IN (TPUH620R)	Connect to the HDBT OUT socket on TPUH620T CAT5e/6a/7 cable.
⑩	ETHERNET	Total 4 100M Ethernet ports, one of these ports should be used for internet access, and the others can be connected with computers. If connect successfully and work normally, the yellow LED will keep blink and the green one will keep on.

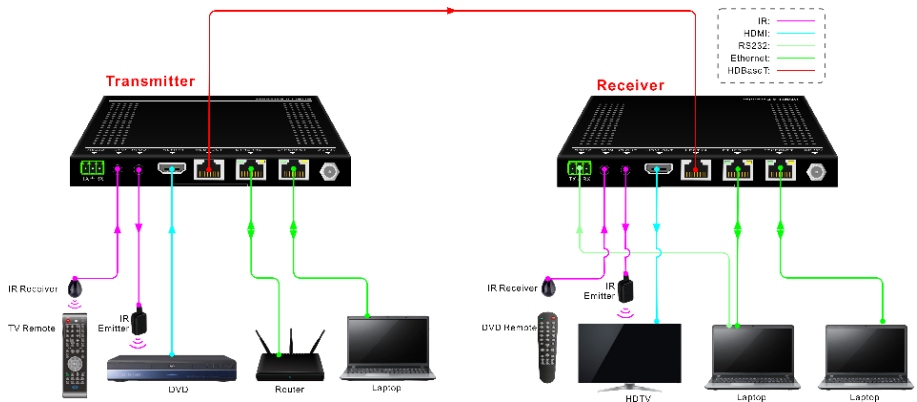
HDBaseT Extender Set

①	DC 24V power ports	Support bi-directional PoC, one of ports should be connected with DC24V 1.25A power adaptor.
---	--------------------	--

Specification

Spec \ Model	TPUH620T Transmitter	TPUH620R Receiver
Input	HDMI IN	HDBT IN
Output	HDBT OUT	HDMI OUT
Control Ports	IR IN, IR OUT, RS232	IR IN, IR OUT, RS232
Ethernet Ports	2 RJ45 connectors	2 RJ45 connectors
General		
Transmission Mode & Distance	HDBaseT; 1080p ≤ 100m; 4Kx2K ≤ 70m	
Ethernet Transmission Speed	Adaptive 10M/100M (max), full duplex or half duplex.	
Resolution	Up to 4Kx2K@60Hz 4:4:4	
Bandwidth	18Gbps	
HDMI Standard	HDMI2.0 & HDCP2.2	
Power Consumption	17W (max)	
Temperature	-10 °C~ 50°C	
Humidity	0% ~ 90%	
Power Supply	Input: 100VAC~240VAC, 50/60Hz; Output: 24VDC 1.25A	
Dimension (W*H*D)	152mmx16.2mmx104mm	152mmx16.2mmx104mm
Net Weight (g)	240g	240g

System Diagram



Note: This picture is for reference only, the specific scheme is subject to real devices.