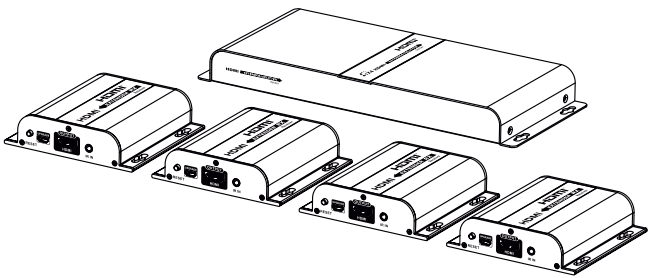
User Manual

HDbitT 1 to 4 HDMI Extender Splitter



HIGH-DEFINITION MULTIMEDIA INTERFACE

• Important Safety Notes:

1. Do not plug-in/out the network cables and IR cables when it is in using.
2. Use DC5V only. Make sure the specification matched if using 3rd party DC adapters.

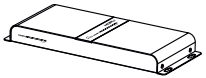
• Introduction

This product combines the extender and splitter function to split 1 HDMI signal to 4 identical HDMI signals via network cable and it is used as a sender to work with 4 receivers to transmit these 4 HDMI signals up to 120 meters. With the IR signal transmission to control the source device operation in long distance, it is widely applied in HD audio visual display room, HDTV, set top box, DVD etc exhibition center and digital monitoring system.

• Features

1. Based on HDbitT technology,more stable performance
2. Supports up to 1920x1200@60Hz resolution, backwards compatible
3. Distribute 1 HDMI source to 4 HDbitT outputs
4. Compatible with Cat5/5e/6 or above network cables, transmission distance of Cat6 cable is 120 meters
5. Plug-and-play,easy to use
6. Wall-mountable design
7. Lightning protection, surge protection, ESD protection
8. Supports stable 24/7 operation

• Package contents

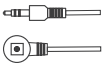


Transmitter x1

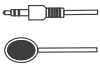
Receiver x4

DC5V/2A
power adapter x1

DC5V/1A
power adapter x4



IR receiver extension
cable x4



IR blaster extension
cable x1

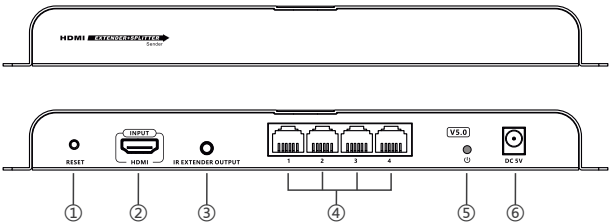
User manual x1

• Installation Requirements

Item	Description	Requirement
Signal source device	Computer graphics card, DVD, PS3, HD monitoring equipment, Set-top box etc	HDMI cable ≤ 5m
Cable	UTP/STP cat5/5e/6 cable IEEE-568B	CAT5 80m CAT5E 100m CAT6 120m
Display device	SDTV, HDTV, and projector with HDMI port	HDMI cable ≤ 5m

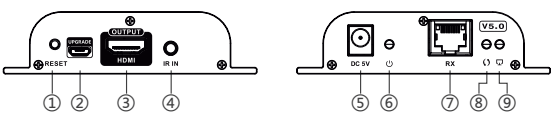
• Panel Description

1. Transmitter(TX)



① Reset
② HDMI signal input
③ IR signal output to connect with blaster extension cable
④ RJ45 signal output
⑤ Power Light
Indicator lights up when power is applied
⑥ Power input(DC 5V/2A)

2. Receiver(RX)



① Reset
② Firmware upgrading
③ HDMI signal output
④ IR signal input to connect with IR receiver extension cable
⑤ Power input(DC 5V/1A)
⑥ Power Light
Indicator lights up when power is applied
⑦ RJ45 signal input
⑧ Data transmission light
Light off: No data transmission
Steady on: The data is transmitting
⑨ Network link light
Light off: No Network connection
Steady on: Network connection is normal

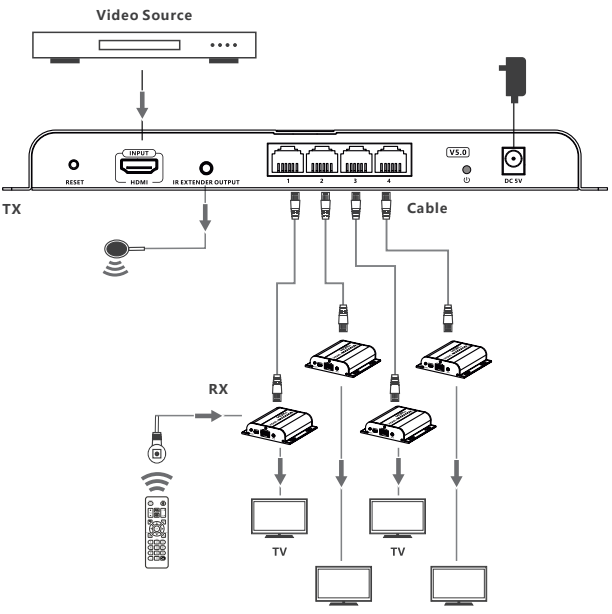
• Installation Procedures

1. How to make a network cable

Follow the standard of IEEE-568B:

1-white and orange 2-orange 3-white and green 4-blue
5-white and blue 6-green 7-white and brown 8-brown

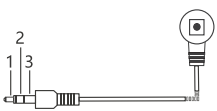
2. Connection



3. Connection instruction:

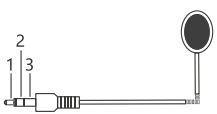
1) Connect TX HDMI input with HDMI output of source device.
2) Connect TX RJ45 port with RJ45 input port of HDMI extender RX.
3) Connect HDMI output of HDMI extender RX to HDMI input of HDTV and set the TV source input to correct HDMI input channel.
4) Power on the device(power indicator lights up) and it works.

4. IR User Guide



IR blaster

1. Power
2. IR Signal
3. Null



IR receiver

1. Power
2. IR Signal
3. Grounding

1) IR blaster extension cable should plug in the IR OUT port of the TX, and the IR receiver extension cable should plug in the IR IN port of the RX.
2) The emitter of the IR blaster extension cable should be as close as possible to the IR receiving window of the source device.
3) Point the remote control at the receiving head of the IR receiver extension cable to operate.

• FAQ

Q: TV display "Waiting for connection ..." on the bottom right corner?

A: 1) Please check if the power supply of TX and RX is well connected and the power indicator led lights on.

2) Make sure all cables are firmly connected.

Q: TV display "Please check the TX input signal"?

A: 1) Please check if there is an HDMI signal input of TX.

2) Try to connect the signal source directly to display device to see if there is signal output from source device or change the signal source, HDMI cables and try again.

Q: Display not fluent and stable?

A: 1) Please check the cable length between TX and RX is within the required range.

2) Press "reset" button on the TX/RX panel, reset and reconnect.

• Specification

Item	Transmitter	Receiver
Video		
Input interface	1x HDMI	4x RJ45
Output interface	1x RJ45	4x HDMI
HDMI length	≤ 5m	≤ 5m
Maximum transfer rate	4.96Gbps	
Compatibility	HDMI 1.3	
	HDCP 1.4	
Resolutions	1080P@24/25/30/50/60Hz, 720P@50/60Hz, 576P@60Hz, 480P@60Hz, 1920x1200, 1680x1050, 1600x900, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600	
Transmission distance	CAT5 80m / CAT5E 100m / CAT6 120m	
Transmission latency	80~130ms	
Audio signal		
Input interface	1×HDMI	4×RJ45
Output interface	1×RJ45	4×HDMI
HDMI output	PCM	
Command Signal		
IR interface	1x 3.5mm IR OUT	4x 3.5mm IR IN
IR receiving range	≤ 5m	
IR frequency	20kHz~60kHz	
Power		
Power Supply	DC 5V/2A	DC 5V/1A
Power Consumption	TX ≤ 5W	RX ≤ 2.5W

Operating Environment		
Working temperature	- 20℃~60℃	
Storage temperature	- 30℃~70℃	
Humidity	0~90%RH (no condensation)	
Physical Properties		
Housing	Iron	Aluminium
Weight	597g	145g
Color	Black	
Dimensions	252(L)*100(W)*25(H)mm	96.8(L)*94(W)*23.7(H)mm
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

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