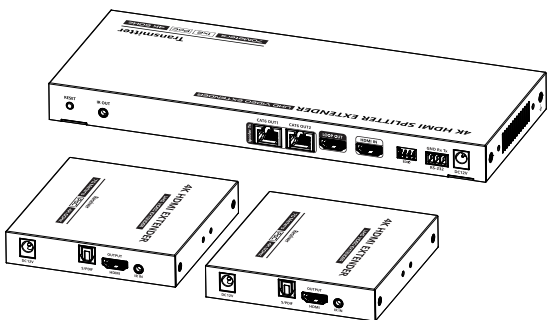


TrueReach HDMI™ SPLITTER & EXTENDER

1 to 2 4K@60Hz 229ft(70m) HDMI Splitter Extender
ipcolor image



User Manual
Y10G015-B1



Important safety notice

1. Do not expose this device to rain, moisture and liquid.
2. Do not put any stuff into the device.
3. Do not disassemble or repair this device without qualified service technician.
4. Make sure the specification matched if using 3rd party DC adapters.

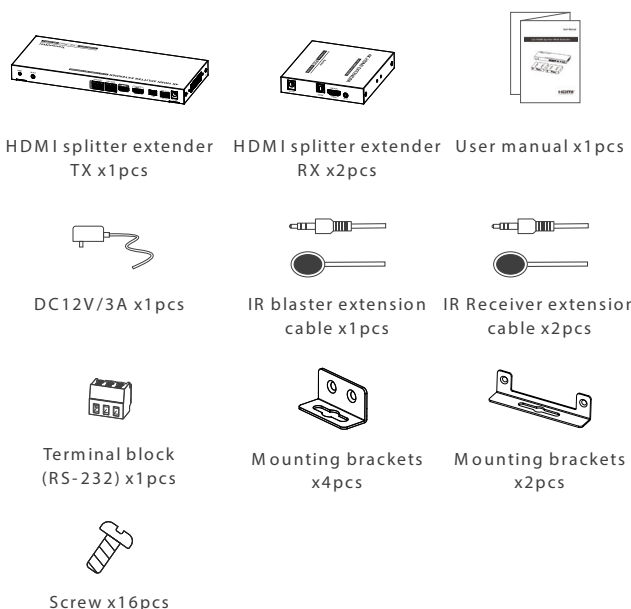
Introduction

The TrueReach HDMI Splitter & Extender serves as a 1-input, 2-output extender splitter kit, seamlessly combining distribution and extension functionalities. It efficiently distributes a single HDMI input signal to two identical outputs, extending these signals up to 70 meters while maintaining a pristine 4K60Hz resolution. Additionally, it offers support for IR passback, RS-232 control, and other essential functions. Ideal for various applications including studios, multimedia classrooms, and rail transit systems.

Features

- Enjoy zero-latency transmission.
- Easily split and extend a single HDMI input signal to two identical network output signals.
- Experience stunning 4K@60Hz resolution support.
- Transmit signals up to 70 meters using Cat6/6A/7 cables.
- Benefit from IR passback support (20KHz~60KHz).
- The transmitter features HDMI loop out capability.
- The receiver conveniently outputs digital audio from the TV or source device via the S/PDIF port.
- Choose between EDID passthrough or manual EDID settings.
- Take advantage of RS-232 command control.
- Stay protected with surge, lightning, and ESD protection features.
- Includes rack mount ears for easy installation.
- Supports PoC, requiring only the transmitter to supply power.

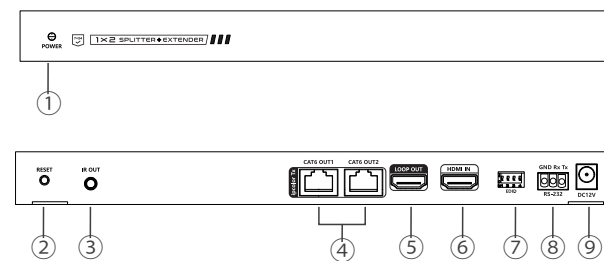
Package Contents



Installation Requirements

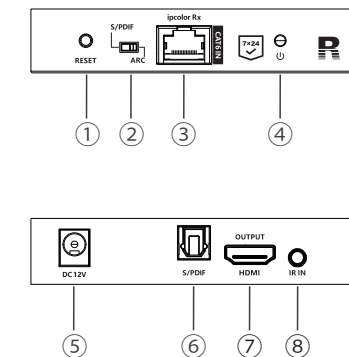
1. HDMI source device (PC, DVD, play station, etc.)
2. HDMI display device (TV, monitor, projector, etc.)
3. UTP/STP CAT6/CAT6A/CAT7 cable. Follow standard IEEE-568B. It is recommended to choose high-quality network cables.

Panel Description - Transmitter (TX)



① Power indicator	The indicator will turn blue when the power is turned on
② Reset button	Restart the device
③ IR out	Connect with IR blaster extension cable
④ RJ45 output port	Connect with Cat6/6A/7 network cables
⑤ HDMI output port	Connect with local HDMI display device with HDMI cable
⑥ HDMI input port	Connect with HDMI source device with HDMI cable
⑦ EDID DIP switch	Set output resolution through EDID DIP switch
⑧ RS-232 Port	Connect with the external device to control the transmitter.
⑨ Power	Connect with DC 12V/3A power adapter

Panel Description - Receiver (RX)



① Reset button	Restart the device
② Audios switch	Choose the audio source (output from the S/PDIF port) S/PDIF: from the source device ARC: from the TV (receiver end)
③ RJ45 signal input	Connect with Cat6/6A/7 network cables
④ Power/Signal indicator	When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid blue
⑤ Power	Connect with DC 12V/2A power adapter
⑥ S/PDIF output	Connect with speaker or amplifier
⑦ HDMI output	Connect with HDMI display device
⑧ IR in	Connect with IR receiver extension cable

Installation Procedures

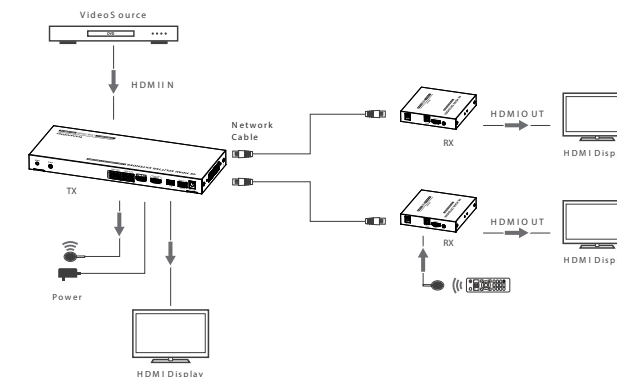
1. Network cable

Follow the standard of IEEE-568B:

- | | | |
|----------------|--------------|---------------|
| 1-Orange/white | 2-Orange | 3-Green/white |
| 4-Blue | 5-Blue/white | 6-Green |
| 7-Brown/white | 8-Brown | |



2. Connections



Installation Procedures

3. Connection instructions

- 1- Use an HDMI cable to connect the source device to the HDMI IN port of the transmitter.
- 2- Utilize network cables to connect the CAT6 OUT ports of the transmitter to the CAT6 IN ports of the receivers.
- 3- Connect the HDMI OUTPUT ports of the receivers to the display devices using HDMI cables.
- 4- If employing HDMI loop out, connect the LOOP OUT port of the transmitter directly to the display using an HDMI cable.
- 5- For RS-232 control, connect the RS-232 port of the transmitter to an external device.
- 6- Power up the devices to initiate operation.

4. IR User Guide

- 1- Connect the IR blaster extension cable to the IR OUT port of the transmitter, and the IR receiver extension cable to the IR IN port of the receivers.
- 2- Position the emitter of the IR blaster extension cable as close as possible to the IR receiving window of the source device.
- 3- Aim the remote control at the receiving head of the IR receiver extension cable to operate.

Function setting

1. RS232 settings

The default configuration is as follows:

Baud rate: 9600
Data bits: 8
Stop bits: 1
Parity: 0

Control Commands	Function Descriptions
ES XX On [Enter]	Turn on the network signal output port(s), choose from " 01" to " 02" (the network ports from left to right are: 01, 02.); " All" means all four ports
ES XX Off [Enter]	Turn off the network signal output port(s), choose from " 01" to " 02" (the network ports from left to right are: 01, 02.); " All" means all four ports
Reset [Enter]	Restart the device
Recover [Enter]	Restore device factory settings
Baud XX [Enter]	Set the baud rate value: 9600 (default), 19200, 38400, 57600, 115200
Examples of control commands are shown below:	
Control Command	ES 02 On [Enter]
Function Description	Trun on network signal output port 02
Return Values	Received successfully ES 02 On OK Receive failed ES 02 On FAIL
Control Command	ES All Off [Enter]
Function Description	Turn off all the network signal output ports
Return Values	Received successfully ES All Off OK Receive failed ES All Off FAIL
Control Command	Reset [Enter]
Function Description	Restart the device
Return Values	Received successfully Reset OK Receive failed Reset FAIL
Control Command	Baud 19200 [Enter]
Function Description	Set the baud rate value: 19200

Return Values	Received successfully	Baud 19200 OK
	Receive failed	Baud 19200 FAIL

2. EDID settings:

There are 16 built-in EDIDs in the product, which can be switched through the DIP switch. The upward DIP switch indicates "1", and the downward DIP switch indicates "0".



Switch up for "1"



Switch down for "0"

Switch Status				EDID Information
1	2	3	4	
0	0	0	0	4K@ 60Hz 2CH
1	0	0	0	4K@ 60Hz 5.1CH
0	1	0	0	4K@ 60Hz 7.1CH
0	0	1	0	4K@ 60Hz HDR 7.1CH
0	0	0	1	4K@ 30Hz 2CH
1	1	0	0	4K@ 30Hz 5.1CH
1	0	1	0	4K@ 30Hz 7.1CH
1	0	0	1	4K@ 30Hz HDR 7.1CH
0	1	1	0	1080p@ 60Hz 2CH
0	1	0	1	1080p@ 60Hz 5.1CH
0	0	1	1	1080p@ 60Hz 7.1CH
1	1	1	0	1080i@ 60Hz 2CH
1	1	0	1	1080i@ 60Hz 5.1CH
1	0	1	1	1080i@ 60Hz 7.1CH

0	1	1	1	1080p@ 60Hz HDR 7.1CH
1	1	1	1	Auto

Auto output at a resolution compatible with all displays.

FAQ

- Q: Why there is no image output on the display device?
A: 1) Please check the power supply and all the cables are well-connected.
2) Please check whether there is an HDMI signal input.
3) Please make sure that the corresponding network port output is not turned off by the RS-232 command.

- Q: Why is the output image unstable?
A: 1) Please check whether the length of the network cable is within 70 meters.
2) Press the "reset" button on TX and RX panels to restart and reconnect.

- Q: Why does the TV have a snowy/fuzzy screen?
A: 1) Please change the HDMI cable or use a shorter HDMI cable.
2) The recommended length of the HDMI cable connected to the transmitter is ≤3 meters, and the recommended length of the HDMI cable connected to the receiver is ≤5 meters.

Technical Parameters

Item	Specification
Transmission protocol	ipcolor
Distribution mode	1 IN 2 OUT
Transmission distance	CAT6/6A/7≤70m
HDMI signal	HDMI 2.0, HDCP 2.2
HDMI Resolution	480i@ 60Hz, 480p@ 60Hz, 576i@ 50Hz, 576p@ 50Hz, 720p@ 50/60Hz, 1080i@ 50/60Hz, 1080p@ 50/60Hz, 1280x960, 1280x800, 1280x768, 1680x1050, 1360x768, 1366x768, 1600x900, 1024x768, 800x600, 3840x2160@ 24/25/30/50/60Hz, 4096x2160@ 24/25Hz
Audio formats	LPCM/DTS-HD/DTS-Audio/Dolby Digital 5.1
IR	Support IR passback function (20KHz~60KHz)
RS-232	3 pin: TxD-RxD-GND, follows RS-232 levels
Working temperature	-20~60
Storage temperature	-30~70
Humidity (no condensation)	0~90% RH
Protection	ESD protection 1a Contact discharge level 2 1b Air discharge level 3 Implementation of the standard: IEC61000-4-2 Lightning protection Surge protection
Power supply	TX:DC12V/3A
Power consumption	TX<13W RX<4W
Material	Iron
Color	Black
Weight	TX:650g RX:243g
Dimension	TX:265.0(L) x 104.0(W) x 23.0(H)mm RX:105.5(L) x 102.5(W) x 20.0(H)mm

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