备注

H20002说明书(ORE01)
物料编号:0106020147617

材质:100克书纸
尺寸:111x146mm
装订方式:骑马钉

**ipcolor 4K @60Hz 18Gbps 4:4:4
HDR HDMI 1X8 Splitter Extender
Over 70Meter Cat6**

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USER MANUAL

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Table of Contents

Thank you for purchasing this product

For optimum performance and safety, please read these instructions care-fully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electri¬cal components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protec - tion systems is highly recommended in order to protect and extend the life of your equipment.

Registration page

Please Activate your warranty by registering our product through the link below - **www.orei.com/register**

Technical Support
Need Help?
Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

OREI Live Technical Support Hours
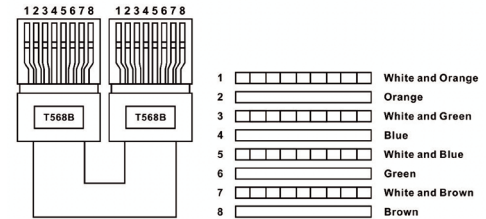US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 6 p.m. Central Time
Support Email - info@orei.com | **Support Number** - 877-290-5530

Or
Chat Live on www.orei.com
Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

Caution

The extender need to follow direct interconnection method CAT cable.

Direct interconnection method

The extender will go into protection mode automatically and no video out when using cross interconnection method CAT cable.
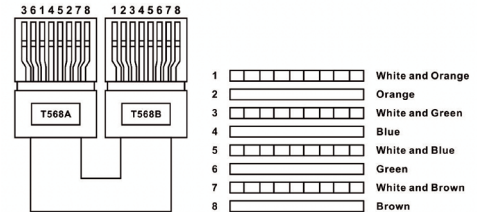
Cross interconnection method

Introduction

The ipcolor 4K @60Hz 18Gbps 4:4:4 HDR HDMI 1X8 Splitter Extender Over 70Meter Cat6 is a 1 input 8 outputs splitter extender kit, which integrates the functions of distribution and extension. It distributes 1 HDMI input signal to 8 identical signal outputs, extends these signals up to 70 meters, and supports 4K@60Hz resolution. It also supports bi-directional IR passback, RS-232 control and other functions. It is suitable for studios, multimedia classrooms, rail transit, etc.

Features

1. Zero latency transmission.
2. Split and extend one HDMI input signal to eight identical network output signals.
3. Support up to 4K@60Hz resolution.
4. Transmission distance up to 70 meters by using Cat6/6A/7 cables.
5. Support bi-directional IR passback.
6. The transmitter supports HDMI loop out.
7. The receiver can output the digital audio of the TV or source device from the S/PDIF port.
8. Support EDID passthrough or manually set the EDID of the product.
9. Support RS-232 command control.
10. Surge Protection, Lightning Protection, ESD Protection.
11. Equipped with rack mount ears.

Package Contents

1 x HDMI splitter extender TX
8x HDMI splitter extender RX
1 x User manual
1 x DC12V/3A
8x DC5V/2A
1 x Terminal block (RS-232)
1 x IR blaster extension cable
8x IR Receiver extension cable
36x Mounting brackets
72x Screw

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 Onf【Enter】	Turn on the network signal output port(s), choose from "01" to "08" (the network ports from right to left are: 01, 02, 03, 04, 05,06,07,08.);"All" means all four ports
ES XX Off【Enter】	Turn off the network signal output port(s), choose from "01" to "08" (the network ports from right to left are: 01, 02, 03, 04, 05,06,07,08.);"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 08 On【Enter】

| Function Description	Trun on network signal output port 08	
Return Values	Received successfully	ES 08 On OK
	Receive failed	ES 08 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

Note that you need to press the 'Enter' key to send the control command.

Function setting

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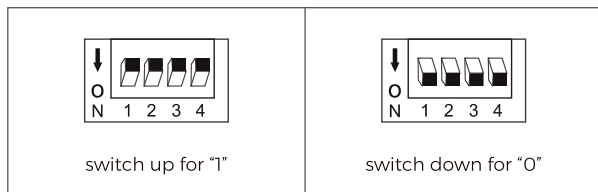
Switch Status				EDID Information
1	2	3	4	
0	0	0	0	4K@60Hz 2CH
1	0	0	0	4K@60Hz 5.1CH
0	1	0	0	4K@60Hz 7.1CH
0	0	1	0	4K@60Hz HDR 7.1CH
0	0	0	1	4K@30Hz 2CH
1	1	0	0	4K@30Hz 5.1CH
1	0	1	0	4K@30Hz 7.1CH
1	0	0	1	4K@30Hz HDR 7.1CH
0	1	1	0	1080p@60Hz 2CH
0	1	0	1	1080p@60Hz 5.1CH
0	0	1	1	1080p@60Hz 7.1CH
1	1	1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

Specifications

Technical Parameters

Item	Specification
Transmission protocol	ipcolor
Distribution mode	1 IN 8 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	Bi-directional IR passback (20-60khz)
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 3 1b Air discharge level 3 Implementation of the standard: IEC61000-4-2
	Lightning protection
	Surge protection

|	
Power supply	TX: DC12V/3A RX: DC5V/2A
Power consumption	TX<24W RX 4W
Material	Aluminum alloy material +crystal panel
Color	Black
Weight	TX: 724g RX: 210g
Dimension	TX: 260.00(L) x 120.00(W) x 23.50(H)mm RX:106.0(L) x 99.0(W) x26.2(H)mm

Transmitter
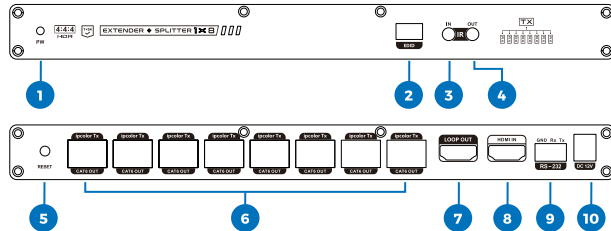
1   **Power indicator :** The indicator will turn blue when the power is turned on

2   **EDID DIP switch :** Set output resolution through EDID DIP switch

3   **IR in :** Connect with IR receiver extension cable

4   **IR out :** Connect with IR blaster extension cable

5   **RESET :** Restart the device

6   **RJ45 output port :** Connect with Cat6/6A/7 network cables

7   **HDMI output port :** Connect with HDMI display device with HDMI cable

8   **HDMI input port :** Connect with HDMI source device with HDMI cable

9   **RS-232 Port :** Connect with the external device to control the transmitter

10   **Power :** Connect with DC 12V/3A power adapter
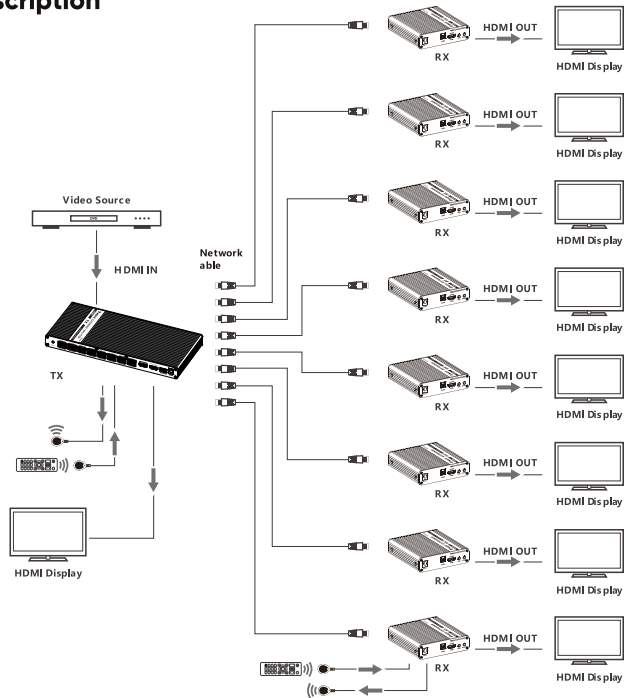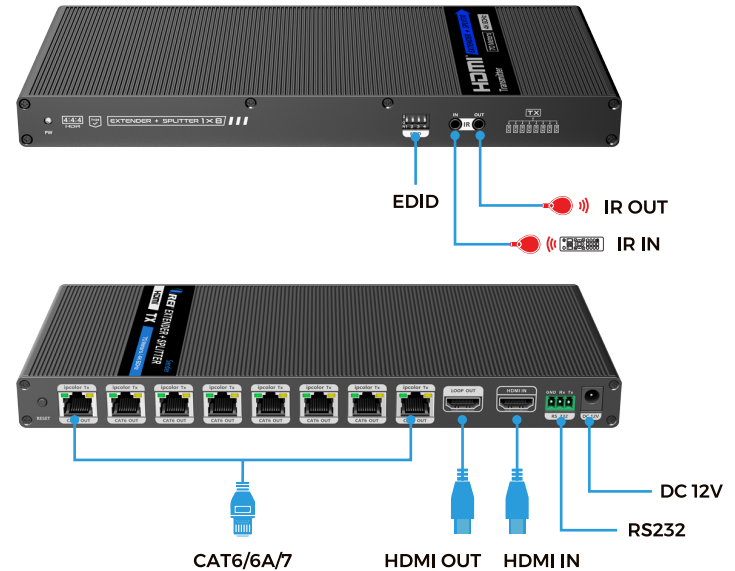
Receiver
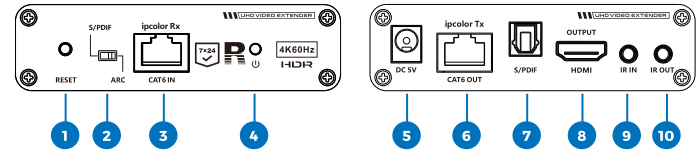
1   **Reset button:** Press to restart the device

2   **Audio switch:** Choose to decode audio from HDMI or ARC output from fiber optic interface

3   **RJ45 signal input:** Connect with network cable

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   **DC5V input:** Connect with DC5V/2A power adapter

6   **RJ45 signal output:** Connect with network cable

7   **S/PDIF out:** Output digital audio signal

8   **HDMI output:** Connect with HDMI display device

9   **IR in:** Connect with IR receiver extension cable, please make sure the remote control used is within the effective range

10   **IR out:** Connect with IR blaster extension cable, please get closer to the source device while using

Connection Diagram

Description

Connection Diagram

EDID

IR OUT

IR IN

CAT6/6A/7

HDMI OUT

HDMI IN

DC 12V

RS232

Connection Diagram

RESET

Audio switch

CAT6/6A/7

Power indicator

DC 5V

CAT6/6A/7

S/PDIF

HDMI OUT

IR OUT

IR IN