

备注

H21019 (ORE01) 说明书 : 0106020140175

材质: 100克书纸

尺寸: 111x146mm

装订方式: 骑马钉



© 2023



**ipcolor 4K @60Hz 18Gbps
4:4:4 HDR HDMI1X4 Splitter
Extender Over 70Meter Cat6**



USER MANUAL

www.orej.com

Table of Contents

Introduction	05
Features	06
Package Contents	06
Function setting	07
Specifications	11
Operation Controls and Functions	13
Connection Diagram	15

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 electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection 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

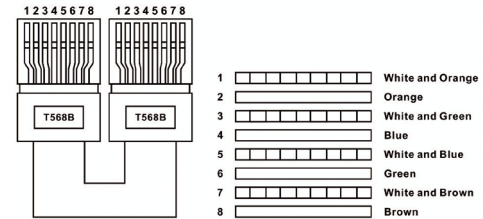
Or

Chat Live on www.orei.com

Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

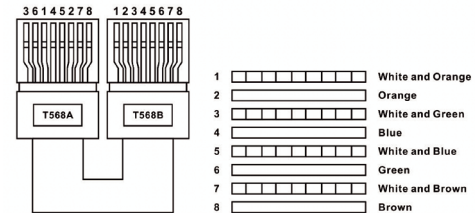
Caution

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

This UHD12-IPC230-K is a 4K@60Hz 18Gbps 4:4:4 HDR HDMI 1X4 Splitter Extender Over 70Meter Cat6 with two-way IR. It distributes 1 HDMI input to 4 identical outputs, extends up to 70meters over Cat6 cable. It supports two-way IR passback, RS-232 control, POC, etc. . It's suitable for studios, multimedia classrooms, rail transit applications, etc.



Features

1. Zero latency transmission.
2. Split and extend one HDMI input signal to four 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 IR passback (20KHz-60KHz).
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.
12. Support PoC, only the transmitter is required to supply power.

Package Contents

- 1 x HDMI splitter extender TX
- 4x HDMI splitter extender RX
- 1 x User manual
- 1 x DC12V/3A
- 1 x Terminal block (RS-232)
- 1 x IR blaster extension cable
- 4x IR Receiver extension cable
- 20x Mounting brackets
- 40x Screw

Function setting

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

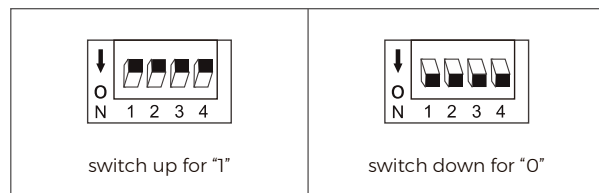
Function setting

Function Description	Trun on network signal output port 04	
Return Values	Received successfully	ES 04 On OK
	Receive failed	ES 04 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: 9600	
Return Values	Received successfully	Baud 19200 OK
	Receive failed	Baud 19200 FAIL

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".



Function setting

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

Specifications

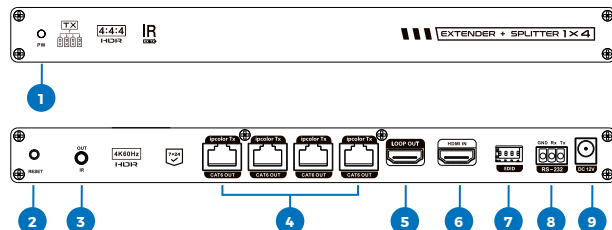
Technical Parameters

Item	Specification
Transmission protocol	ipcolor
Distribution mode	1 IN 2 OUT
Transmission distance	CAT6/6A/7s70m
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: Tx-D-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
Power consumption	TX<13W RX<4W
Material	Aluminum alloy material + crystal panel
Color	Black
Weight	TX: 640g RX: 210g
Dimension	TX: 264.00(L) x 104.00(W) x 23.50(H)mm RX: 106.0(L) x 99.0(W) x 26.2(H)mm

Operation controls and functions

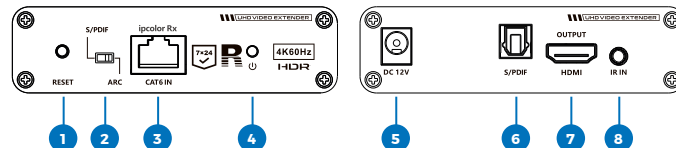
Transmitter



- 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

Operation controls and functions

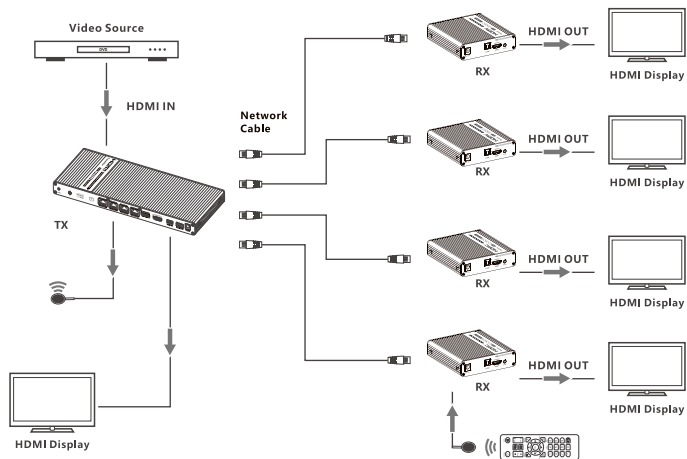
Receiver



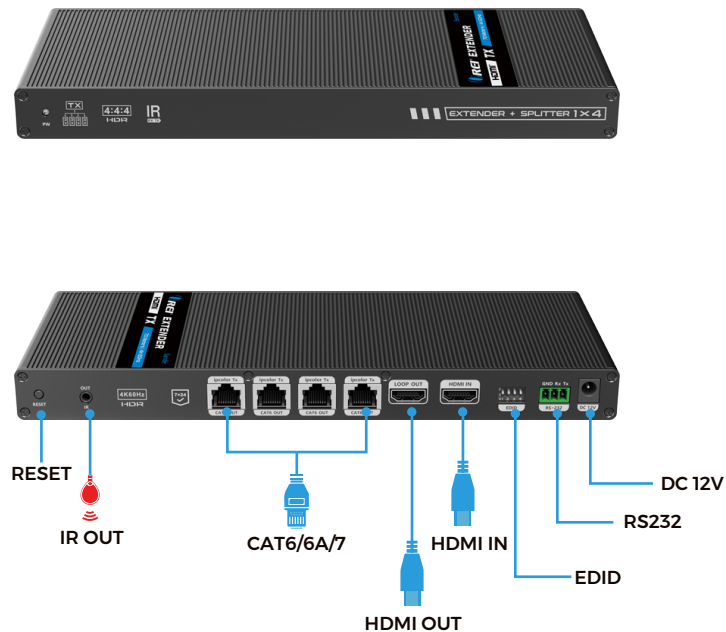
- 1 **Reset button**: Press to restart the device
- 2 **Audio switch**: Choose the audio source (output from the S/PDIF port)
S/PDIF: from the source device
ARC: from the TV (receiver end)
- 3 **RJ45 signal input**: Connect with Cat6/6A/7 network cables
- 4 **Power/Signal indicator**: When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid blue
- 5 **Power**: Connect with DC12V/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

Connection Diagram

Description



Connection Diagram



Connection Diagram

