



# OREI UHD18-IPC230-K HDMI Splitter Extender Tansmitter User Manual

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**OREI UHD18-IPC230-K HDMI Splitter Extender Tansmitter**



### **Thank you for purchasing this product**

For optimum performance and safety, please read these instructions carefully 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 shocks, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

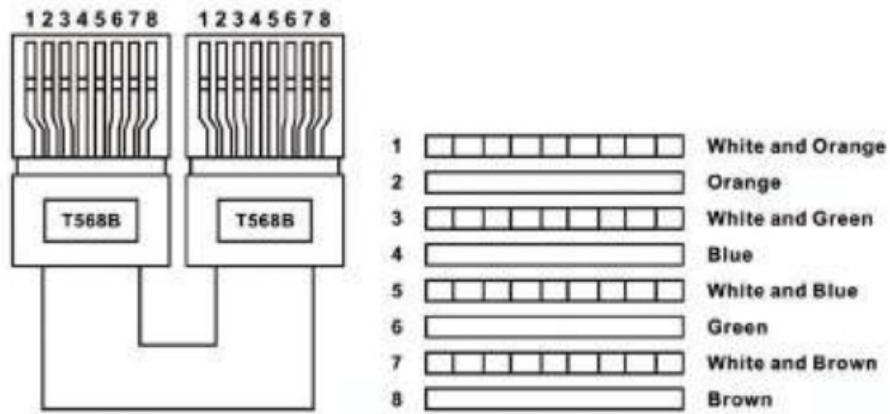
Please Activate your warranty by registering our product through the link below – [www.orei.com/register](http://www.orei.com/register)

## **Technical Support**

### **Need Help?**

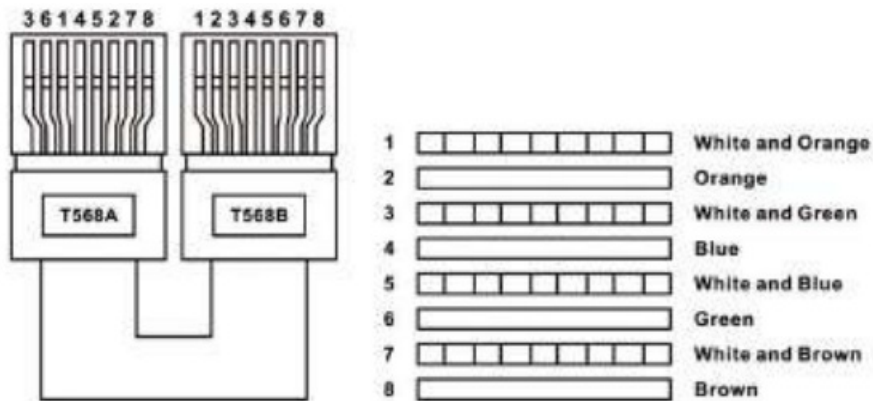
- Our experienced Technical Support Team is here to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and budget. Call, email, or chat with us now.
- OREi Live Technical Support Hours
- US team (US/Canada/Mexico): Monday-Friday, 9 a.m. – 6 p.m. Central Time Support Email – [info@orei.com](mailto:info@orei.com) | Support Number – 877-290-5530 Or
- Chat Live on [www.orei.com](http://www.orei.com)
- Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

**CAUTION:** The extender needs to follow the 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 IX8 Splitter Extender Over 70Meter Cat6 is al 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 an HDMI loop.
7. The receiver can output the digital audio of the TV or source device from the S/PDIF port.
8. Support DID passthrough or manually set the DID 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 Bx HDMI splitter extender RX
- 1 x User manual
- 1 x DC72V/3A
- Bx DCSV/2A
- 1 x Terminal block (RS-232)
- 7 x IR blaster extension cable Bx 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.

### EDID settings:

There are 76 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 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

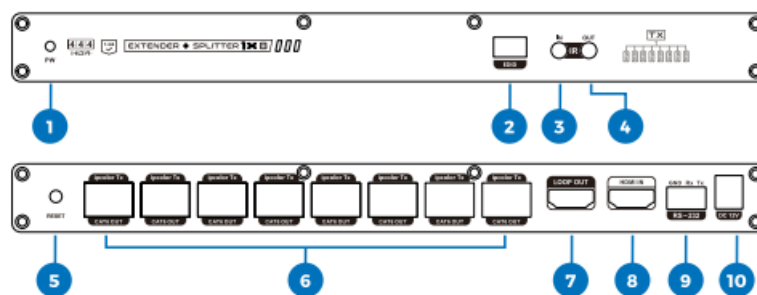
Auto output at a resolution compatible with all displays

### 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: Tx-D-RxD-GND, follows RS-232 levels
Working temperature	-20~60°C
Storage temperature	-30~70°C
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)x120.00(W)x23.50(H)mm RX: 106.0(L)x99.0(W)x26.2(H)mm

## Operation controls and functions

### Transmitter

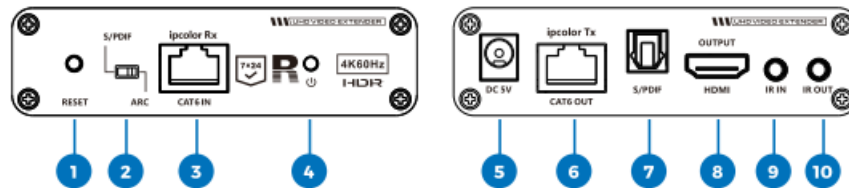


- **Power indicator:** The indicator will turn blue when the power is turned on
- **EDID DIP switch:** Set output resolution through the EDID DIP switch
- **IR in:** Connect with IR receiver extension cable
- **IR out:** Connect with IR blaster extension cable
- **RESET:** Restart the device
- **R345 output port:** Connect with Cat6/6A/7 network cables
- **HDMI output port:** Connect with HDMI display device with HDMI cable
- **HDMI input port:** Connect with HDMI source device with HDMI cable

- **9 RS-232 Port:** Connect with the external device to control the transmitter
- **Power:** Connect with DC 12V/3A power adapter

## Receiver

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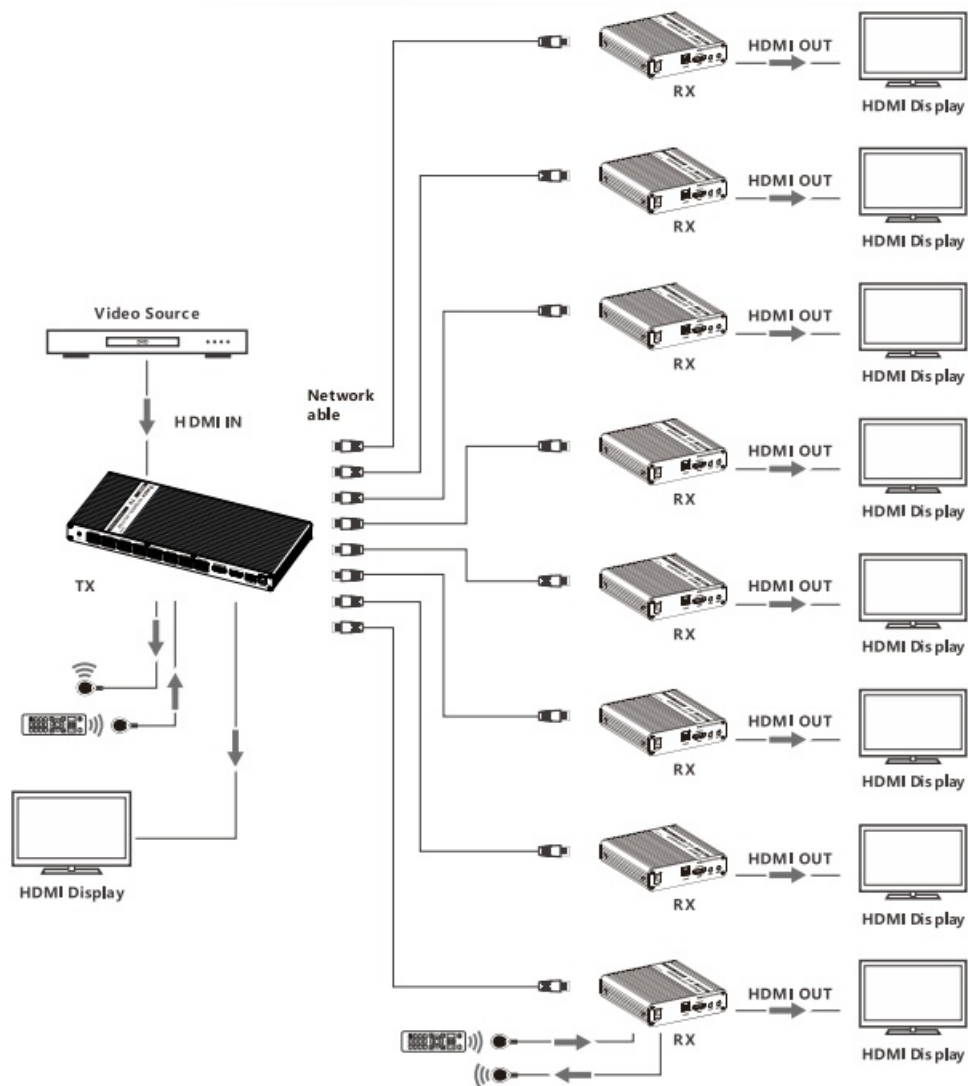
**Reset button:** Press to restart the device

- **Audio switch:** Choose to decode audio from HDMI or ARC output from fiber optic interface
- **RJ45 signal input:** Connect with network cable
- **Power/Signal indicator:** When there is power and no HDMI signal, the indicator will flash, when there is an HDMI signal, the indicator will light solid blue
- **DCSV input:** Connect with DCSV/ZA power adapter
- **RJ45 signal output:** Connect with network cable
- **S/PDIF out:** Output digital audio signal
- **HDMI output:** Connect with HDMI display device
- **IR in:** Connect with the IR receiver extension cable, please make sure the remote control used is within the effective range
- **IR out:** Connect with the IR blaster extension cable, please get closer to the source device while using

## Connection Diagram

### Description





EDID

IR OUT

IR IN



CAT6/6A/7

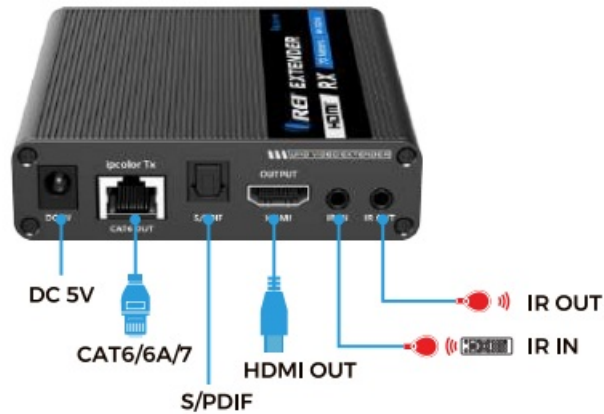
HDMI OUT

HDMI IN

DC 12V

RS232





## QR SCAN

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## Documents / Resources

<p>OREI UHD18-IPC230-K HDMI Splitter Extender Transmitter</p>	<p><a href="#">OREI UHD18-IPC230-K HDMI Splitter Extender Transmitter</a> [pdf] User Manual UHD18-IPC230-K HDMI Splitter Extender Transmitter, UHD18-IPC230-K, HDMI Splitter Extender Transmitter, Splitter Extender Transmitter, Extender Transmitter, Transmitter, Transmitter UHD18-IPC230-K</p>
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## References

- [User Manual](#)

Manuals+.