



# OREI UHD-IPC165-K HDR HDMI Extender Over Cat User Manual

[Home](#) » [OREI](#) » OREI UHD-IPC165-K HDR HDMI Extender Over Cat User Manual 

## Contents

- [1 OREI UHD-IPC165-K HDR HDMI Extender Over Cat](#)
- [2 REGISTRATION PAGE](#)
- [3 SPECIFICATIONS](#)
- [4 OPERATIONS CONTROL AND FUNCTIONS](#)
- [5 CONNECTION DIAGRAM](#)
- [6 Documents / Resources](#)
  - [6.1 References](#)
- [7 Related Posts](#)



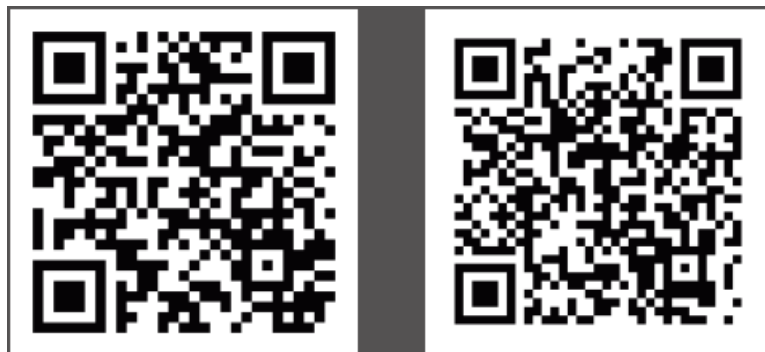
**OREI UHD-IPC165-K HDR HDMI Extender Over Cat**



ipcolor 4K @60Hz 18Gbps 4:4:4 HDR HDMI Extender Over 50Meter Cat6

## USER MANUAL

- Follow us on Youtube and Facebook



- [www.orei.com](http://www.orei.com)

**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](http://www.orei.com/register)

## Technical Support

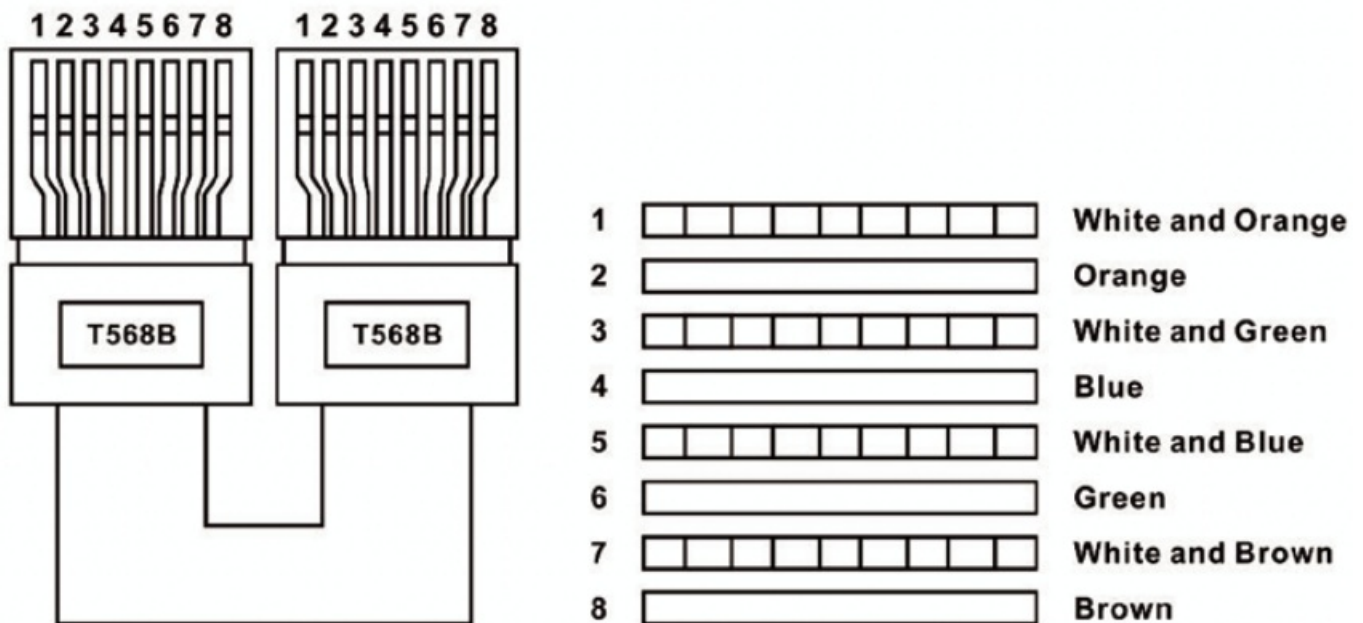
- **Need Help?**

- 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

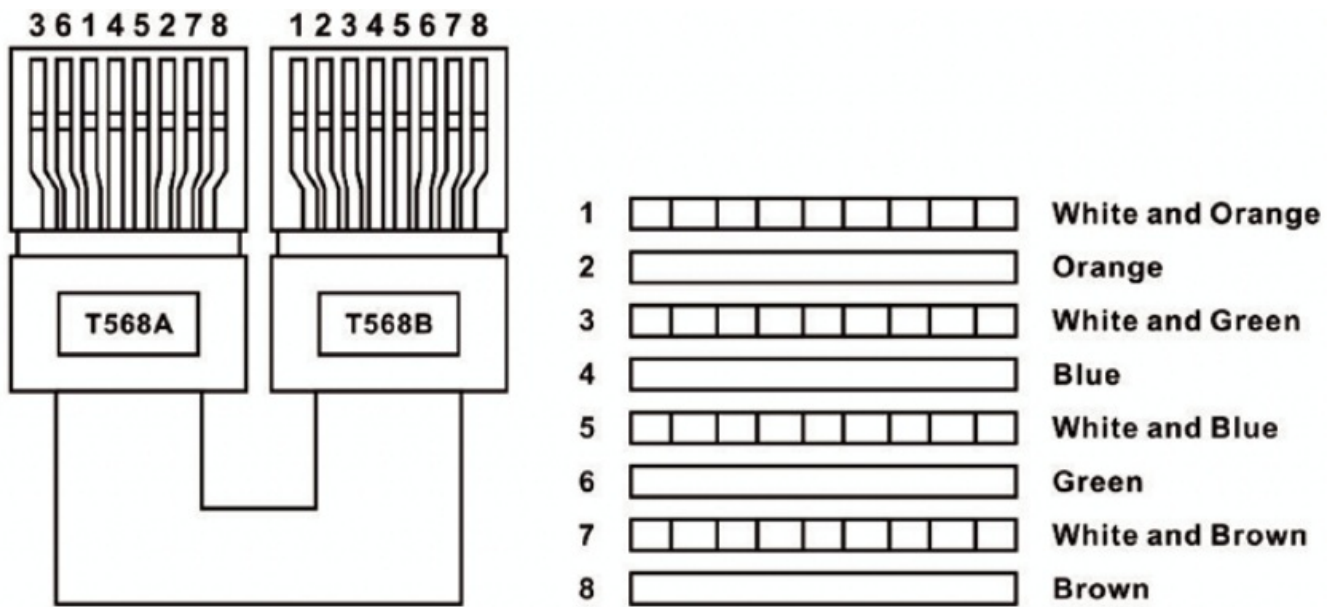
- **US team (US/Canada/Mexico):** Monday-Friday, 9 a.m. – 6 p.m. Central Time Support Email – [info@orei.com](mailto:info@orei.com)  
I Support Number – 877-290-5530  
Or
- Chat Live on [www.orei.com](http://www.orei.com)
- Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

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 HDMI Extender with Loopout can extend 4K@60Hz 78Gbps 4:4:4 HDMI signal over 765 feet/50 meters to an HDMI compatible display via single 6 cable (The maximum distance could be 70meter when the Cat6 cable quality is good). It supports EDID passthrough and auto downscaling. It also supports Infrared control signal and allow you to easily control your DVD player at TV side when using this extender. Besides, this extender has dedicate L/R audio output on receiver and allows you to connect a separate speaker.



1. Zero-latency transmission
2. Extend 4K@60Hz HDMI signal up to 50m/230ft over Cat6/6A/7 cable (Maximum 70Meter when use high quality Cat6 cable)
3. The receiver supports 3.5mm stereo output
4. Support HDRIO
5. Support EDID passthrough and auto downscaling
6. The transmitter supports HDMI loop out
7. Support IR passthrough
8. Lightning protection, surge protection, ESD protection

## Package Contents

- 7 x Transmitter
- 7 x Receiver
- 2 x DCSV/IA
- 7 x User manual
- 7 x IR receiver extension cable 7 x IR blaster extension cable 4 x Mounting ear
- 70 x Screw

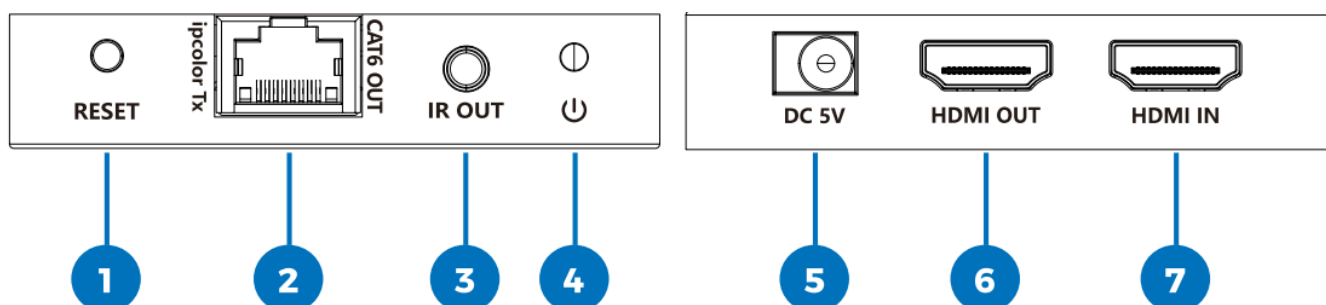
## SPECIFICATIONS

Items	Transmitter	Receiver
Video		
Input interface	1x HDMI Type A Female	1x RJ45 Female
Output interface	1x HDMI Type A Female 1x RJ45 Female	1x HDMI Type A Female
HDMI Length		
Maximum transfer rate	18Gbps	
Maximum transmission bandwidth	600MHz	
EDID passthrough	Yes	
Compatibility	HDMI 2.0 (Deep color, 4K, HDR, YUV4A4)	
	HDCP 2.2	
Resolutions	<ul style="list-style-type: none"><li>• 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz,</li><li>• 720p@S0/60Hz, 1080i@S0/60Hz, 1080p@S0/60Hz,</li><li>• 3840×2160@24/25/30/50/60Hz, 4096×2160@24/25Hz,</li><li>• 1280×960, 1280×800, 1280×768, 1680x1050,</li><li>• 1360×768, 1366×768, 1600×900, 1024×768, 800×600</li></ul>	
Transmission distance	CAT6/6A/7<50m{Maximum 70Meter when use high quality Cat6 cable)	
Audio		
Input interface	1x HDMI Type A Female	N/A
Output interface	1x HDMI Type A Female	1x HDMI Type A Female 1x 3.5mm L/R Female
Audio formats	LPCM/DTS-HD/DTS-Audio/Dolby Digital 5.1CH/Dolby Atmos	
Command Signal		

IR interface	1x 3.5mm IR OUT Female	1x 3.5mm JR IN Female
Receiving range	100m	
Infrared frequency	20KHz-60KHz	
Power		
Power Supply	DC5V/1A	DC5V/1A
Power Consumption	<3W	<3W
Operating Environment		
Working temperature		
Storage temperature		
Humidity	0-90%RH (No condensation)	
Physical Properties		
Housing	Metal	
Weight	140g	140g
Color	Black	
Dimensions	<ul style="list-style-type: none"><li>• 850mm (L)</li><li>• 75.5mm (W)</li><li>• 16.5mm (H)</li></ul>	
Protection	<ul style="list-style-type: none"><li>• ESD protection</li><li>• 1a Contact discharge level 2 (±4KV)</li><li>• 1b Air discharge level 3 (±BKV)</li><li>• Implementation of the standard, IEC61000-4-2</li></ul>	
	Lightning protection, Surge protection	
Certifications	FCC/CE/RoHSZ.0	

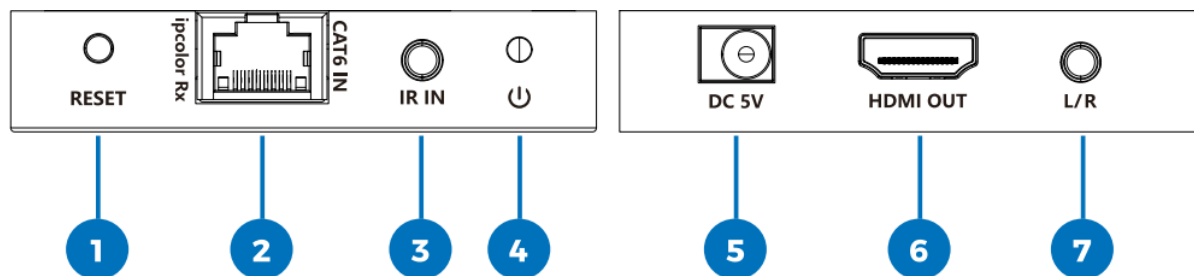
## OPERATIONS CONTROL AND FUNCTIONS

### Transmitter



1. **Reset button** : Press to restart the device
2. **RJ45 output**: Connect with CAT6/6A/7 network cable
3. **IR out**: Connect with IR blaster extension cable
4. **Power indicator**: When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid
5. **DCSV**: Connect with DC SV/IA power adapter
6. **DCSV**: Connect with local HDMI display device with HDMI cable
7. **HDMI input**: Connect with HDMI source device with HDMI cable

## Receiver

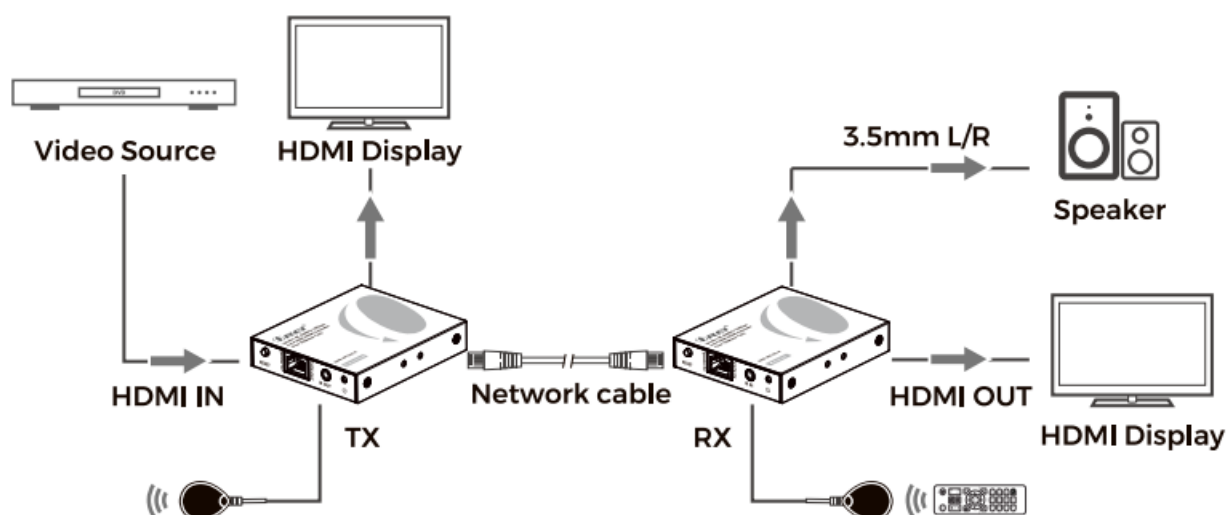


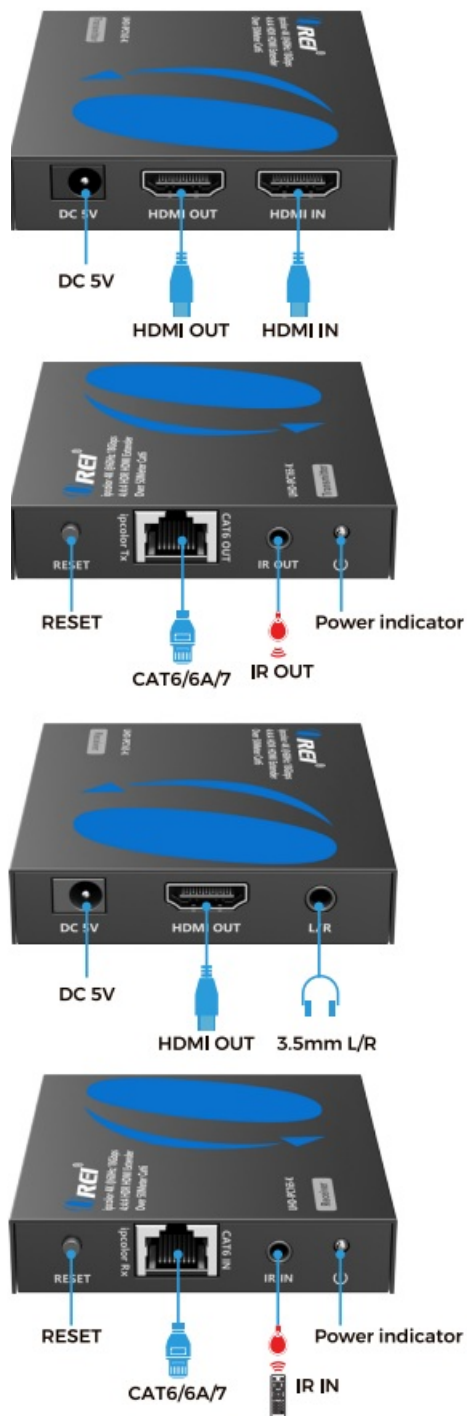
1. **Reset button**: Press to restart the device
2. **RJ45 input**: Connect with CAT6/6A/7 network cable
3. **IR in**: Connect with IR receiver extension cable
4. **Power indicator**: When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid
5. **DCSV**: Connect with DC SV/IA power adapter
6. **HDMI output**: Connect with HDMI display device with HDMI cable
7. **3.5mm stereo output**: Connect with earphone or speaker

## CONNECTION DIAGRAM

### Description

- Connection Diagrams





## Documents / Resources



**[OREI UHD-IPC165-K HDR HDMI Extender Over Cat \[pdf\] User Manual](#)**  
 UHD-IPC165-K HDR HDMI Extender Over Cat, UHD-IPC165-K, HDR HDMI Extender Over Cat , HDMI Extender Over Cat, Extender Over Cat, Over Cat, Cat

## References

- [User Manual](#)



