

H23044 (ORE01) 说明书: 0106020140178

备注

材质: 100克书纸

尺寸: 111x146mm

装订方式: 骑马钉



**4K@60Hz HDMI Over 1G IP Extender Over
40KM Single Mode Fiber Optical Cable**

UHD-FOM40-K

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Extender Over 40KM Single
Mode Fiber Optical Cable**

USER MANUAL

UHD-FOM40-K
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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 UHD-IPC230-WPE 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

Caution

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

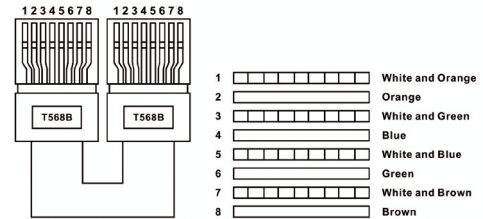
Support Email - info@orei.com | **Support Number** - 877-290-5530

Or

Chat Live on www.orei.com

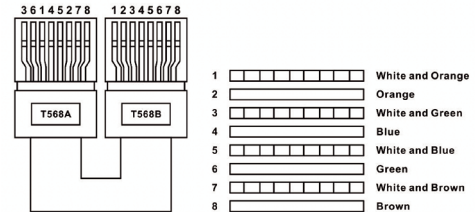
Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

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

UND-EXM500-K This product is a 4K@60Hz HDMI extender kit consisting of a transmitter and a receiver, using ipcolor STREAM technology for high-definition, low-latency transmission. The 4K@60Hz HDMI signal can be extended up to 120m via Category 6 and above network cables, supporting one-to-one connection, one-to-many connections via gigabit switch, or switch cascades. It also supports HDMI loop out, IR passback, and RS-232 passthrough functions, and can be widely used in meetings, home entertainment, educational presentations, and other fields.

此处需要提供新描述



Features

1. Adopting ipcolor STREAM technology can realize high-definition and low-latency transmission.
2. Support up to 3840 x 2160@60Hz resolution, backward compatible.
3. Support optical fiber transmission, the maximum transmission distance of 40 kilometers.
4. Support one-to-one or one-to-many connections through the gigabit switch.
5. Support RS-232 pass-through.
6. The transmitter supports HDMI loop out.
7. Support IR passback (20-60kHz).
8. Firmware can be upgraded through Micro USB.
9. The transmitter has a 3.5mm audio input for sound embedding, the receiver has an independent 3.5mm audio output.
10. Lightning protection, surge protection, ESD protection.
11. Support steady 24-hour operation.

Package Contents

- | | |
|--------------------------------|---|
| 1 x Transmitter | 4 x Mounting ear |
| 1 x Receiver | 2 x Grounding Screw |
| 1 x DC5V/2A Power adapter | 2 x Terminal block(RS-232) |
| 1 x User Manual | 1 x SFP optical module(Т1310nm/R1550nm) |
| 1 x IR receiver cable | 1 x SFP optical module(Т1550nm/R1310nm) |
| 1 x IR blaster extension cable | 10 x Screw |

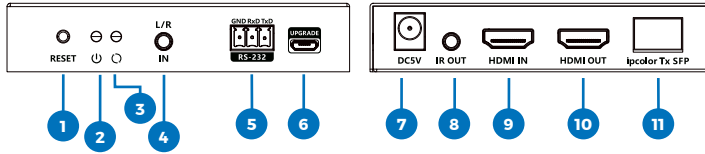
Specifications

Item	Transmitter	Receiver
Video		
Input interface	1x HDMI	1x SFP to LC
Output interface	1x HDMI 1x SFP to LC	1x HDMI
HDMI length	≤ 5m	≤ 5m
Maximum transfer rate	18Gbps	
Compatibility	HDMI 2.0	
	HDCP 1.4/HDCP 2.2	
Resolutions	3840x2160@24/30/50/60Hz, 1080p@50/60Hz, 720p@50/60Hz, 1920x1200@60Hz, 2560x1440@60Hz, 2560x1600@60Hz	
Connection types	One-to-one connection One-to-many connection Switch cascading	
Transmission distance	Single-mode Optical Fibers40km	
Transmission latency	70-180ms	
Audio Signal		
Input interface	1x HDMI 1x 3.5mm L/R	1x SFP to LC
Output interface	1x SFP to LC	1x HDMI 1x 3.5mm L/R
HDMI out	LPCM 2.0	
3.5mm L/R output	PCM	

Command Signal		
IR interface	1x 3.5mm IR out	1x 3.5mm IR in
IR receiving range	≤ 5m	
IR frequency	20kHz-60kHz	
RS-232 (GND/RXD/TXD)	Default baud rate: 115200 Supported: 2400, 4800, 9600, 19200, 38400, 57600, 115200	
Power		
Power Supply	DC 5V/2A	DC 5V/2A
Power Consumption	TX ≤ 7.5W	RX ≤ 7.5W
Operating Environment		
Working temperature	- 10°C-50°C	
Storage temperature	- 30°C-70°C	
Humidity	0-90%RH (no condensation)	
Physical Properties		
Housing	Iron	
Weight	TX: 290g	RX: 286g
Color	Black	
Dimensions	106.0(L)*103.0(W)*25(H)mm	
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

Operation controls and functions

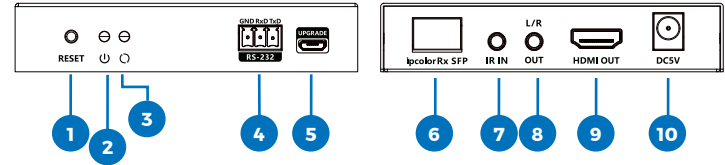
Transmitter



- 1 **Reset** : Press to restart the device
- 2 **Power indicator (blue)** : The indicator will turn on when the power is turned on
- 3 **Status indicator(orange)** :
 - 1) **Light off**. The transmitter and the receiver have not established a connection
 - 2) **Slow flash**. The transmitter and the receiver are connected but no video data transmission (gigabit Ethernet)
 - 3) **Quick flash**. The transmitter and the receiver are connected but no video data transmission (100M Ethernet)
 - 4) **Steady on**. The video data is transmitting
- 4 **L/R IN** : Connect to the audio source device with 3.5mm stereo audio cable
- 5 **RS-232(GND/RXD/TXD)** : Used for RS-232 passthrough
- 6 **Micro USB interface** : Used for firmware upgrade
- 7 **Power** : Connect with DC5V/2A power adapter
- 8 **IR output** : Connect with IR blaster extension cable
- 9 **HDMI input** : Connect with HDMI source device
- 10 **HDMI out** : Connect with local HDMI display device
- 11 **SFP signal out** : Insert the SFP optical module(T1310nm/R1550nm)

Operation controls and functions

Receiver



- 1 **Reset** : Press to restart the device
- 2 **Power indicator (blue)** : The indicator will turn on when the power is turned on
- 3 **Status indicator(orange)** :
 - 1) **Light off**. The transmitter and the receiver have not established a connection
 - 2) **Slow flash**. The transmitter and the receiver are connected but no video data transmission (gigabit Ethernet)
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 - 4) **Steady on**. The video data is transmitting
- 4 **RS-232(GND/RXD/TXD)** : Used for RS-232 passthrough
- 5 **Micro USB interface** : Used for firmware upgrade
- 6 **SFP signal input** : Insert the SFP optical module (T1550nm/R1310nm)
- 7 **IR input** : Connect with IR receiver extension cable
- 8 **L/R OUT** : Connect to the audio device with 3.5mm stereo audio cable
- 9 **HDMI output** : Connect with HDMI display device
- 10 **Power** : Connect with DC5V/2A power adapter

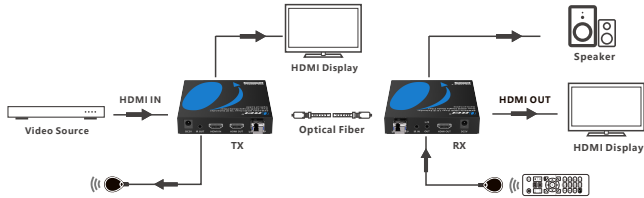
Connection Diagram

Connection Diagram

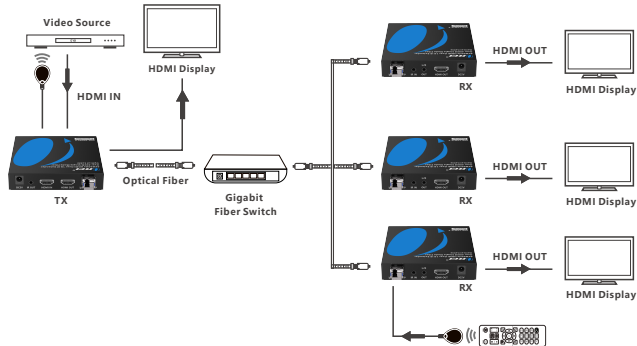
Description

Connection Diagrams

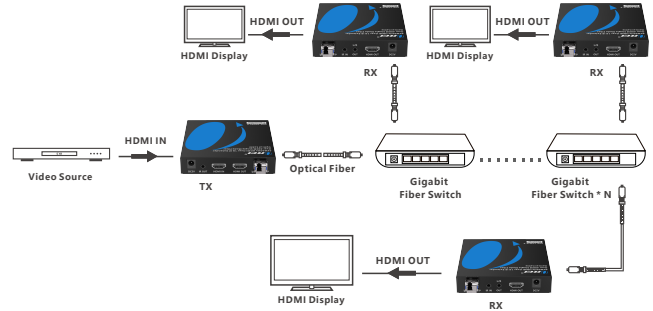
1.1 One-to-one connection



2.2 One-to-many connection



2.3 switch cascading

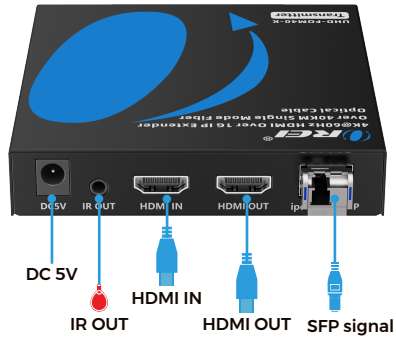
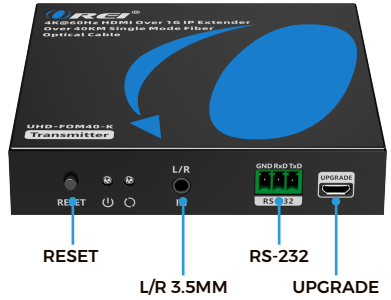


Note: It is suggested to use gigabit (1000 Mbps) switches in LAN transmission, and 100Mbps switches should not be mixed with gigabit switches when cascading.

Connection Diagram

Connection Diagram

Transmitter



Receiver

