



UHD-FOHD10-K

**4K@60Hz HDMI™ Extender
- 10km (Fiber-Optic)**

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USER MANUAL

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Important Safety Note – Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Registration Page

Activate your warranty by registering your product at:

→ www.orei.com/register

Need Technical Support? We're Here to Help.

Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

 Monday-Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:

 Email: info@orei.com

 Phone: 877-290-5530

 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The UHD-FOHD10-K HDMI over Fiber Optic Extender enables transmission of media signals up to 10KM over single-mode fiber optic cable with strong anti-interference. It also supports multi-mode fiber (OM4) extension via SFP modules up to 300m. The device is HDMI 2.0b and HDCP 2.2 compliant. It supports video resolutions up to 4K@60Hz and 2K@60Hz with a bandwidth of 18Gbps. It also supports any VESA resolution and passes through HDR10+, Dolby Vision, and HLG formats. It is compatible with LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio. It features a lightweight and compact design, ideal for flexible installation in both personal and commercial environments.



Features & Package Contents

Features

1. HDCP 2.2 compliant
2. Video resolutions up to 4K@60Hz and 2K@60Hz
3. Supports any VESA resolution
4. 18Gbps video bandwidth
5. Extend media signal up to 10Km using single-mode fiber optic cable
6. HDR10+, Dolby Vision, and HLG pass-through
7. LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio support
8. Compact design for easy and flexible installation

NOTE: Multi-mode (OM4) cable can be used as well but the transmission distance would drop to 300m/1000feet.

Package Contents

1.	UHD-FOHD10-K (Transmitter)	1 pcs
2.	UHD-FOHD10-K (Receiver)	1 pcs
3.	Power Adapter	2 pcs
4.	User Manual	1 pcs

Specifications

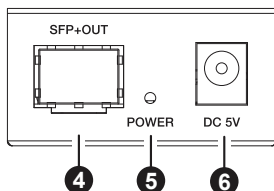
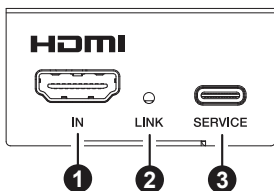
Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Input & Output Video Resolution	4096x2160p60, 4096x2160p50, 3840x2160p60, 3840x2160p50, 3840x2160p30, 3840x2160p25, 1920x1200p60RB, 1920x1080p60, 1920x1080p50, 1360x768p60, 1280x800p60, 1280x720p60, 1280x720p50, 1024x768p60 Any VESA resolution is supported.
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X
HDR	HDR10, HDR10+, Dolby Vision, HLG
Fiber Optic	10G SFP+ module
Transmission Distance	Up to 10km over single-mode fiber cable At least 300m over multi-mode OM4 fiber cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1x IN [HDMI Type A, 19-pin female] 1x SERVICE [USB-C, update port] Output: 1x SFP+ OUT [LC female]
Receiver	Input: 1x SFP+ IN [LC female] 1x SERVICE [USB-C, update port] Output: 1x OUT [HDMI Type A, 19-pin female]

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 81mm [W] x 49mm [D] x 25mm [H]
Weight	Transmitter/Receiver: 138g
Power Consumption	Transmitter: 3.05W (Max), Receiver: 2.25W (Max)
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Operating Temperature	32~104°F / 0~40°C
Storage Temperature	-4~140°F / -20~60°C
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

Operation Controls and Functions

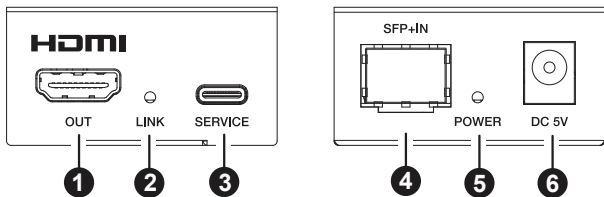
Transmitter



No.	Name	Function Description
1.	HDMI IN	Connect a media device such as DVD player, streaming device, etc.
2.	LINK indicator	A green LED that lights up when there is a proper connection between the transmitter and receiver via the fiber optic cable.
3.	SERVICE port	Used for firmware updates.
4.	SFP+OUT	Connect a fiber optic cable using an SFP module. The other end connects to the Receiver.
5.	POWER indicator	The Green LED will light up when the Transmitter is powered on.
6.	DC 5V	Connect the included power adapter.

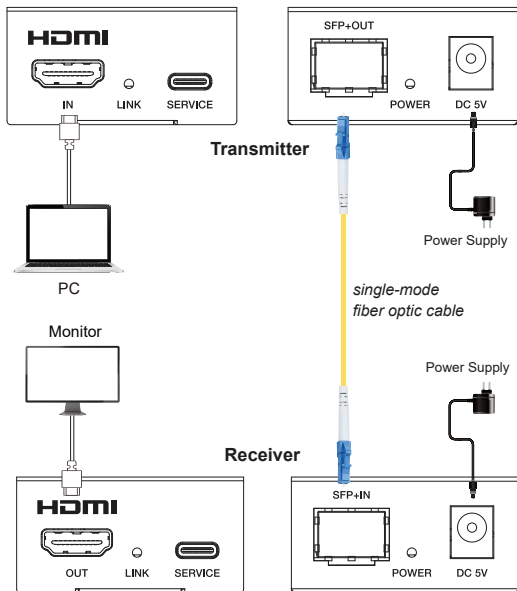
Operation Controls and Functions

Receiver



No.	Name	Function Description
1.	HDMI OUT	Connect a display device such as TV, Monitor, etc.
2.	LINK indicator	The Green LED will light up when there is a proper connection between the transmitter and receiver via the fiber optic cable.
3.	SERVICE port	Used for firmware updates.
4.	SFP+IN	Connect a fiber optic cable using an SFP module. The other end connects to the Transmitter.
5.	POWER indicator	The Green LED will light up when the Receiver is powered on.
6.	DC 5V	Connect the included power adapter.

Application Example



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

FAQ & Troubleshooting

1. Can I use a multi-mode fiber optic with this unit instead of single mode?

- Multi-mode (OM4) cable can be used as well but the transmission distance would drop to 300m/1000feet

2. No video output/display flickering.

- Try lowering the resolution from the media source.
- Try changing the DP cable or the fiber optic cable.
- Check if the LINK LED is lighting up on both ends.
- Make sure you are not using an DisplayPort to HDMI converters.

Still have some questions?

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.

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