



UHD-FOUC10-K

**4K@60Hz USB-C 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.

Warranty Registration

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

This fiber extender can extend video and audio signal up to 10km over a singlemode fiber cable. Video resolution up to 4K2K@50/60Hz RGB 4:4:4. This product has the advantages of strong anti-interference, high safety performance, small size and light weight, and has incomparable advantages in long-distance transmission.



1. **USB-C DisplayPort Alt Mode & HDCP 2.2/2.3 Compliant** – Ensures compatibility with USB Type-C video sources and content protection standards across all generations.
2. **Supports HBR3 (8.1Gbps/lane), Total 32.4Gbps Bandwidth** – Delivers ultra-high-speed data transfer for smooth, high-quality AV transmission.
3. **Supports Resolutions up to 4K@60Hz 4:4:4** – Maintains uncompressed Ultra HD videowith full-color depth and vivid clarity.
4. **HDR10, HDR10+, Dolby Vision & HLG Pass-Through** – Preserves high dynamic range formats for lifelike color and contrast.
5. **VESA Standard Resolution Support** – Fully compatible with all standard VESA video resolutions, including legacy modes.
6. **Full Audio Format Pass-Through** – Supports LPCM 7.1CH, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X.
7. **Extends Signals up to 10km over Single-Mode Fiber** – Enables ultra-long distance AV transmission using industry-standard fiber infrastructure.
8. **Supports Multi-Mode Fiber up to 300m via OM4** – Offers flexibility in fiber deployment with compatible SFP modules.

Package Contents & Specifications

Package Contents

1.	UHD-FOUC10-K (Transmitter)	1 pcs
2.	UHD-FOUC10-K (Receiver)	1 pcs
3.	Power Adapter	2 pcs
4.	User Manual	1 pcs

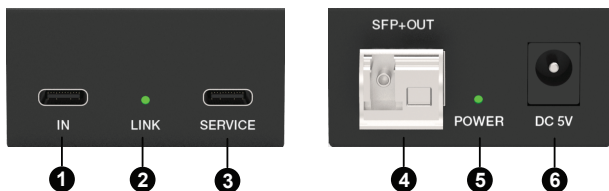
Specifications

Technical	
USB-C Compliance	USB Type-C 1.1 DisplayPort ALT Mode
HDCP Compliance	HDCP 2.3/2.2/1.x
Video Bandwidth	32.4Gbps (8.1/5.4/2.7/1.62Gbps)
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 Up to 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 [USB-C, 24-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 [USB-C, 24-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: 2.7W (Max), Receiver: 2.5W (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

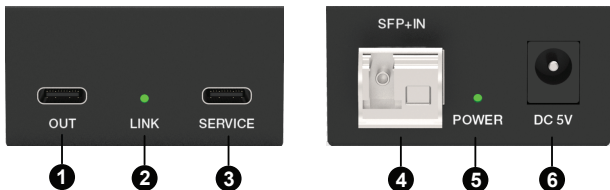
Transmitter



No.	Name	Function Description
1.	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.

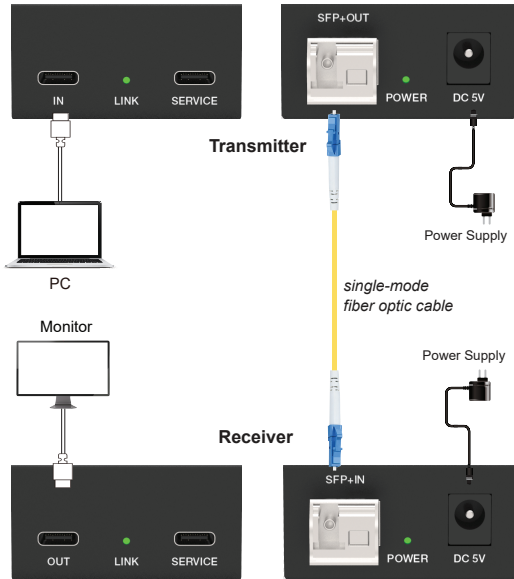
Operation Controls and Functions

Receiver



No.	Name	Function Description
1.	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



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?

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