HDMI Extender Series

User Manual

Model : HE01F-4K

Compact 4K HDMI Fiber Extender

Introduction

HE01F-4K is an HDMI extender that uses a single fiber optic cable with LC connections to transmit uncompressed 4K 30Hz HDMI signals, with EDID and HDCP signals supported for both multi-mode and single-mode fibers. This small compact size allows you to easily finish installation for any audiovisual applications.

Features

- Resolution up to 4K@30Hz.
- Transmission distance up to 1KM over single-mode fibers, 300m over multi-mode fibers.
- Built-in LC Fiber Connector. (see Caution, page 3)
- Supports EDID bypass.
- Low latency.
- Plug & Play, USB powered.
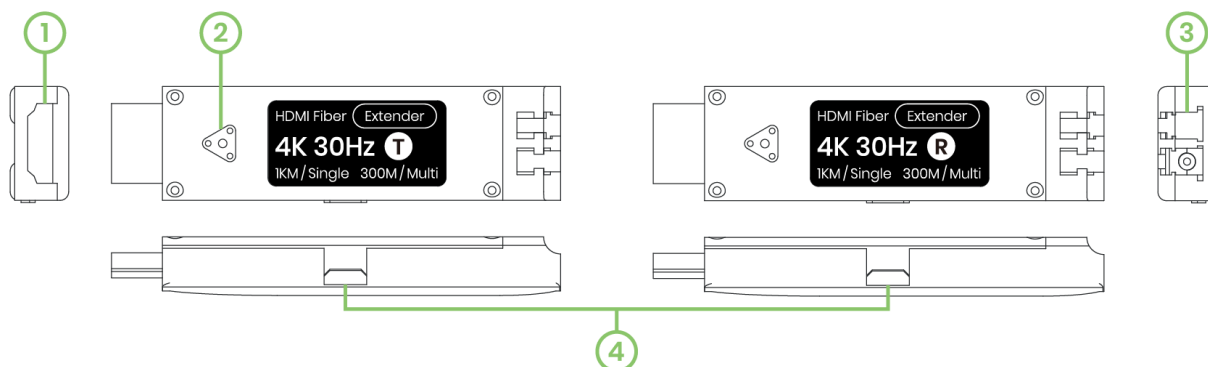
Installation view

Transmission Distance

Fiber Module	Max. Distance
Multi-mode	300 M (see Caution, page 3)
Single-mode	1 KM

Note: SC&T uses CommScope and Draka fiber optic cables for the verification.

Panel view

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No	Interface	Description
1	HDMI Type-A Connector	To connect an HDMI device
2	LED Indicator	To indicate power & Link status
3	LC Optical Connector	To connect a single/ multi-mode fiber cable
4	Micro USB Connector	To input 5V 2A power

Installation Guide

1. Connect HE01FT-4K (The transmitter) to an HDMI source.
2. Connect the optical fiber cable to HE01FT-4K.
3. Power on HE01FT-4K from the micro-USB port.
4. Connect HE01FR-4K (The receiver) to an HDMI device.
5. Connect the optical fiber cable to HE01FR-4K.
6. Power on HE01FR-4K from the micro-USB port.

LED Indication

Transmitter/Receiver	LED Status	Status
HE01FT-4K (Transmitter)	Off	Not powered
	Red	Powered, but no HDMI input
	Purple	Powered and HDMI input detected
HE01FR-4K (Receiver)	Off	Not powered
	Red	Powered, but no data transferred from transmitter
	Purple	Powered and data received from transmitter

Caution

- We strongly recommend using single-mode fiber optic cables due to better performance than multi-mode fiber optic cables. If you choose to use multi-mode cables, kindly use high-quality OM3 fiber optic cable or upgrade to OM4 fiber optic cable to reach 300m transmission distance, or the signal would probably degrade causing abnormal images. Do not put anything on the power and system cables, place them where they cannot be stepped on. Please be sure there is nothing resting on any cables.
- The product **DOES NOT** support CEC due to EDID pass-through. To support CEC, please contact us for customization.
- This product is designed for indoor applications. If it is desired for outdoor use, please install additional equipment for waterproof protection and surge protectors to prevent damages caused by lighting.
- Both transmitter and receiver have to be powered through a micro-USB port.
- Do not put anything on the power and system cables, place them where they cannot be stepped on. Please be sure there is nothing resting on any cables.
- Avoid using this product close to water places, or near high temperature devices such as radiators, stoves, etc.
- Using standard and certified optical fiber cables to transfer high-resolution video is recommended.
- Shut down the power supply and unplugged all equipment immediately if:
  - water or any kind of liquid has been spilled into the product;
  - the product has been damaged by external force
  - the product does not operate normally as this manual indicates
  - Please contact us for further repair if above conditions happen

What's In the Package

No	Item	Qty
1	HE01FT-4K	x 1
2	HE01FR-4K	x 1
3	5V 2A Power Adapter	x 2
4	Micro USB to USB cable 1M	x 2

Specification

Model	HE01FT-4K	HE01FR-4K
Compliance		
Standard	HDCP 1.4, 3D, DDC	
Video Resolution	4K@30Hz 4:4:4	
Data Rate	10Gbps	
Transmission Distance	1 KM over single-mode fiber 300M over multi-mode fiber	
Wavelength	1310nm	1550nm
Ports & Interfaces		
Video Input	1 x HDMI Type-A	1 x LC Fiber Connector
Video Output	1 x LC Fiber Connector	1 x HDMI Type-A
Power Input	1 x Micro USB	1 x Micro USB
Power		
Power Supply	5V 2A	5V 2A
Power Consumption	< 1.5W	< 1.5W
Ambient Temperature		
Operation	0 to 45℃	
Storage	-40 to 80℃	
Operating Altitude	2000m	
Humidity	Up to 95%	
Physical Characteristics		
Dimension	79 x 20 x 10mm	79 x 20 x 10mm
Weight	52g	52g

RoHS CE