



EXT-F4K-TR



4K60 HDMI
over Fiber Extender (300m)

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1. Introduction

This 4K60 HDMI over Fiber Extender can extend HDMI signal up to 300m/ 984ft over an OM4 multimode single optical fiber cable. The resolution is up to 4K60 4:4:4. It supports HDMI HDP/DDC/CEC/ARC transmission. The transmitter features one HDMI input, one LC fiber optical output and one Micro USB power supply port (transmitter also can be powered by the connected HDMI source device). The receiver features one HDMI output, one LC fiber optical input and one Micro USB power supply port. 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.

2. Features

- HDCP 2.2 compliant
- Support 18Gbps video bandwidth
- Support video resolution up to 4K60 4:4:4, as specified in HDMI 2.0b
- Signal transmission distance can be extended up to 300m/984ft over an OM4 multimode single optical fiber cable
- Support HDMI HDP/DDC/CEC/ARC transmission
- HDMI Audio formats support LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD
- Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- Fiber module included (Embedded)
- Standard single Fiber LC connector
- Micro USB power supply
- 2x USB cables and 2x 15cm HDMI female to male cables included
- Compact design for easy and flexible installation

3. Package Contents

EXT-F4K-TR	
1x 4K60 HDMI over Fiber Extender (Transmitter)	2x USB Cable (USB A to Micro USB, 1m, shielded)
1x 4K60 HDMI over Fiber Extender (Receiver)	1x User Manual
2x HDMI Adapter Cable (male to female, 15cm)	

4. Warranty Information

Aberman warrants all units to be free from defects in workmanship and materials, under normal use and service, for a period of one (1) year from the date of purchasing from authorized reseller.

If a product does not work as it warranted during this period, Aberman will repair or replace the defective product or its part. Replacement products may be new or reconditioned.

Warranty ends if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or servicing other than by Aberman or its authorized centers, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

5. Best Practice

Aberman engineers design products at the highest quality standards. To get the best results from our products, please read this manual carefully. We recommend using the best quality connectors, cables, and adapters. Consider the points below when you choose accessories and position equipment.

For best results with HDMI/DVI, use good quality cables up to 5 meters long for 4K and up to 15 meters for 1080p, or shorter if you are using any connection adapters. If you need to place your equipment more than 15 meters apart, we recommend using a signal extender. See Aberman Smart Extension product line of signal extenders to find correct one. Use only graded Speed HDMI cables. In industrial environments, use shielded CAT cables (STP, FTP, F/UTP or S/FTP) with digital extenders. To achieve best performance and maximum distance use appropriate fiber optical cable type cores (MM or SM) with optical extenders.

6. Safety Instructions

WARNING: To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not use this device near water. Clean only with a dry cloth.

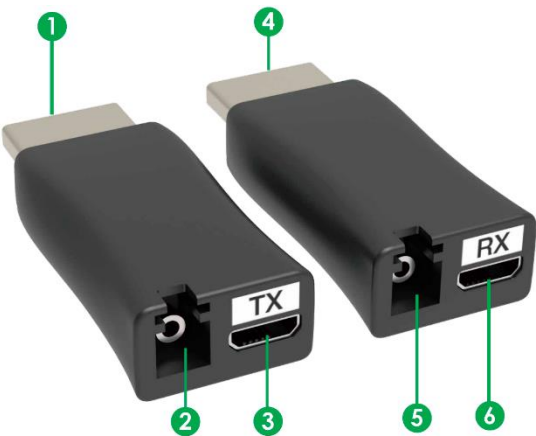
Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device. This unit must be connected to an earthed mains socket outlet with the supplied cable. The AC wall outlet should be installed near to the unit and be easily accessible.

If using extenders which run a long distance, the protective earth circuit of the socket should be verified by a skilled person to ensure equipotential earth bonding. Do not use unit on objects or installations where power lines have grounding and/or different phase issues.

Unplug units during lightning storms or when unused for long periods of time.

Do not install unit near any heat sources such as radiators, heat registers, stoves, or devices (including amplifiers) that produce heat. Do not block any ventilation openings. This unit uses active cooling with fans. Do not install unit in dusty and/or dirty places. Use professional equipment racks with air condition and filters.

7. Operation Controls and Functions



#	Name	Function Description
1	HDMI IN port	HDMI signal input port, connected to the HDMI source device such as PC, DVD or Blu-ray Player.
2	FIBER OUT port	Optical fiber signal output port, connected to the FIBER IN port of the Receiver.
3	POWER port	USB 5V power supply port.
4	HDMI OUT port	HDMI signal output port, connected to the HDMI display device such as TV, Projector or Monitor.
5	FIBER IN port	Optical fiber signal input port, connected to the FIBER OUT port of the Transmitter.
6	POWER port	USB 5V power supply port.

8. Application Example



9. Specification

SKU	EXT-F4K-TR
Type	4K HDMI over Fiber Extender
HDMI Compliance	HDMI 1.4/2.0
HDCP Compliance	HDCP 1.4, HDCP2.2
Video Bandwidth	18Gbps
Audio Latency	No latency
Video Latency	No latency
Video Resolution	Up to 4K60 4:4:4
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
Color Depth	8/10/12bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD
Transmission Distance	300m (over an OM4 multimode single optical fiber cable)
Cable Specification	850nm 50/125um OM4 LC-LC multimode optical fiber cable (single fiber)
Transmitter	Input: 1x HDMI IN [Type A, 19-pin male] 1x POWER [Micro USB, 5-pin female] Output: 1x FIBER OUT [LC, 1-pin female]
Receiver	Input: 1x FIBER IN [LC, 1-pin female] 1x POWER [Micro USB, 5-pin female] Output: 1x HDMI OUT [Type A, 19-pin male]
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Power Consumption	Transmitter: 0.9W (Max), Receiver: 0.2W (Max)
Dimensions	Transmitter / Receiver: 45.5mm [W] x 20.5mm [D] x 17.5 mm [H]
Housing / Color	Aluminum Enclosure / Grey
Weight	Transmitter: 22g, Receiver: 22g
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 70°C
Relative Humidity	10%~50% RH (no condensation)

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