adertech

EXT-FU4H-TR

4K60 HDMI over Fiber Extender (300m)



User Manual

VER 1.0

Thank you for purchasing this product

We have done everything possible to ensure that our equipment pleases our consumers. When solving any problems in the operation and connection of ADERTECH equipment, it is best to contact authorized companies and specialists who work with our equipment. Our equipment is intended for professional use, so you have professional skills in using such equipment. ADERTECH is a manufac-turer of a wide range of multimedia solutions.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction.....1
2. Features.....1
3. Package Contents.....1
4. Specifications.....2
5. Operation Controls and Functions.....4
6. Application Example.....5

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

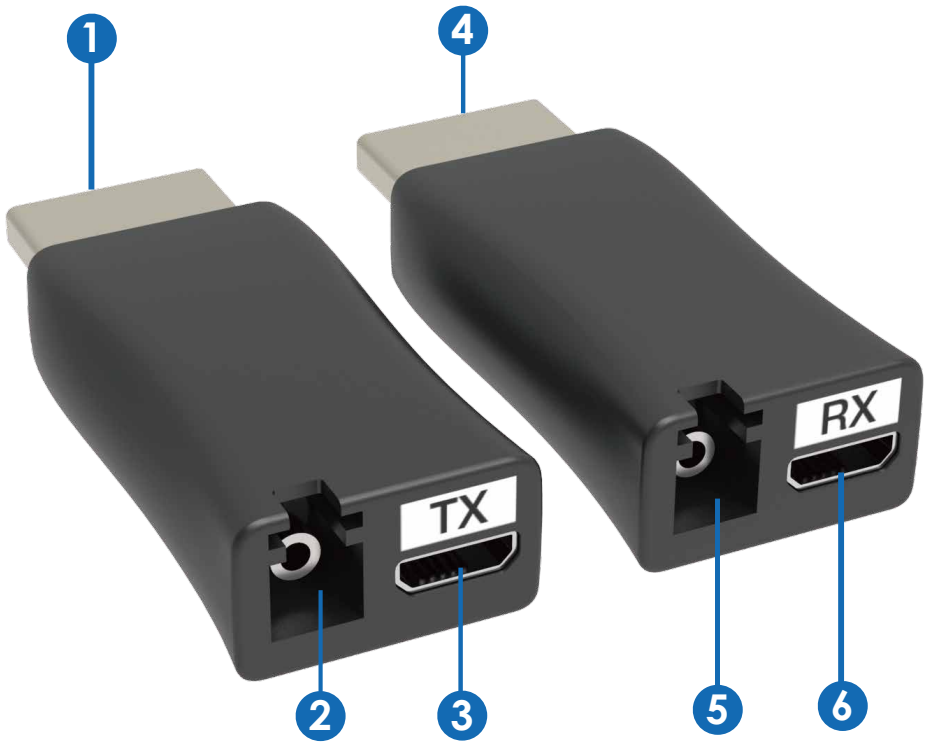
① 1 × 4K60 HDMI over Fiber Extender (Transmitter)
② 1 × 4K60 HDMI over Fiber Extender (Receiver)
③ 2 × HDMI Adapter Cable (male to female, 15cm)
④ 2 × USB Cable (USB A to Micro USB, 1m, shielded)
⑤ 1 × User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
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/984ft (over an OM4 multimode single optical fiber cable)
Cable Specification	850nm 50/125um OM4 LC-LC multimode optical fiber cable (single fiber)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
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]

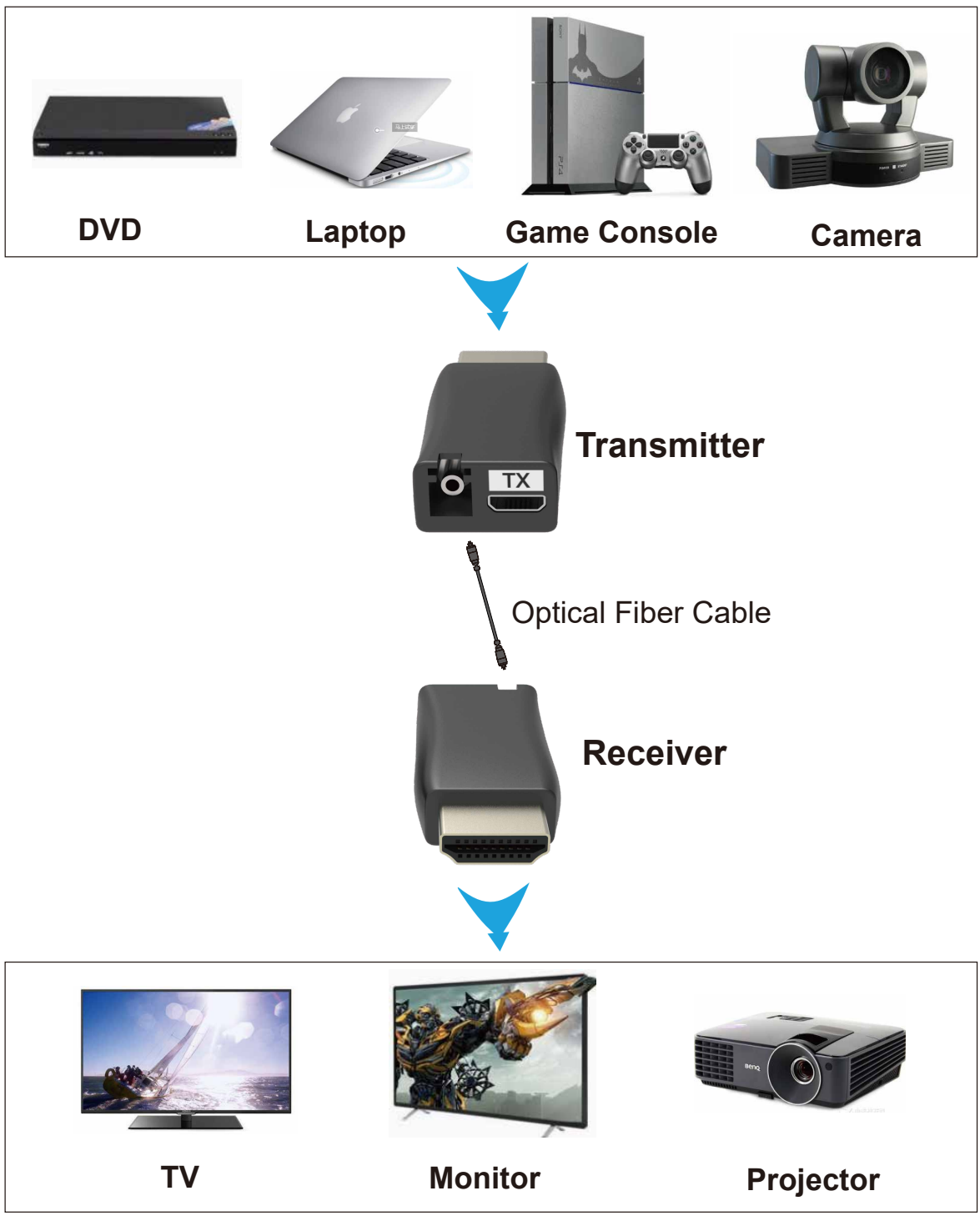
Mechanical	
Housing	Aluminum Enclosure
Color	Grey
Dimensions	Transmitter / Receiver: 45.5mm [W] x 20.5mm [D] x 17.5 mm [H]
Weight	Transmitter: 22g, Receiver: 22g
Power Supply	Transmitter: 5V USB power supply or HDMI signal source power supply Receiver: 5V USB power supply
Power Consumption	Transmitter: 0.9W (Max), Receiver: 0.2W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions



No.	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.

6. 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.

Quality Assurance

We have developed a strict quality assurance process and built a full-fledged testing laboratory. First-class high and low temperature laboratories, reliability and compatibility ensure that every product undergoes rigorous testing from design to delivery and is delivered free of defects.

After-sales service

We have established a complete after-sales warranty service system to respond to customer requirements in real time and quickly solve customer problems.

All trademarks are the property of their respective owners. ADERTECH is not responsible for any errors that may appear in this document publication. Product, pricing and feature information contained herein is subject to change without notice.

© 2023 ADERTECH Co Ltd.
The ADERTECH logo and associated visual identity are trademarks or registered trademarks of ADERTECH and/or its affiliates.