

Specification



LED / LCD

4K • Optical Fiber Extender Transmitter&Receiver

- 1 TX To 1 RX
- 4K@60Hz Input&Output
- Multi-mode: 300M
- Single-mode: 20KM

AMS - HTR4K

Safety

This Chapter Illustrates Safety Of The HTR4K Series HDMI Fiber Extender To ensure The Product's Storage, Transport, Installation And Use Safety. Safety Instructions Are Applicable To All Personnel Who Contact Or Use The Product. First Of all, Pay Attention To Following Points.

- Read Through The Instructions.
- Retain All Instructions.
- Comply With All Instructions

● Storage And Transport Safety

- Pay attention to dust and water prevention.
- Avoid long-term direct sunlight.
- Do not place the product at a position near fire and heat.
- Do not place the product in an area containing explosive materials and strong electromagnetic environment.
- Place the product at a stable position to prevent damage or personal injury caused by dropping.
- Save the packing box and materials which will come in handy if you ever have to store and ship the product. For maximum protection during storage and shipping, repack the product as it was originally packed at the factory.

● Installation And Use Safety

- Only trained professionals may install the product.
- Plugging and unplugging operations are prohibited when the power is on.
- Ensure safe grounding of the product.
- Always wear a wrist band and insulating gloves.
- Do not place the product in an area having frequent or strong shake.
- Perform dust removing regularly.
- Contact Amoonsky for maintenance at any time, rather than have the product disassembled and maintained by non-professionals without authorization.
- Replace faulty parts only with the spare parts supplied by Amoonsky.

Introduction

■ Overview

AMS-HTR4K Is An HDMI Optical Transceiver That Supports 4K Input&Output, Also Call 4K HDMI Fiber Extender; There Are Have Three Models In This Series, AMS-HTR4K_300M: Multi-mode_ Dual Fiber, The Maximum Transmission Distance Is 300M, AMS-HTR4K_10Km / 20Km: Single-mode_Single Fiber, The Maximum Transmission Distance Is 10Km/20KM;And The Device All Is LC Fiber Interface;Can Convert Your DVD, Player, Computer And Other Devices To HDMI Ultra High Definition Efficient Transmission Of Video&Audio Signals.

- Support 1TX To 1 RX, Including Transmitter & Receiver;
- Pure Hardware Design -- Plug And Play, Automatic Matching Of The Signal Source And Display Equipment; Strong compatibility;
- Support 3D, Support 10G Transmission,Support HDMI2.0 And HDCP 2.2;
- Support Audio& Video Synchronous Output, Have Audio Interface; The Transmitter Supports Local HDMI Loop Out For Monitoring;
- Built-in KVM Function, Supports Extended Control Of USB Mouse And USB Keyboard ;
- Built-in The Latest Digital Video Compression Technology And Automatic Equalization Algorithm Effectively Improve Transmission Efficiency, Ensure Smooth Playback, And Ensure Clear And Stable Image Quality.

■ Application



Video Conference



Education Teaching



Home Cinema



Security Monitoring



Commercial Premises



Outdoor Advertising

www.amoonsky.com

TX-Panel Introduction

LED Indicator Light

Power: Power Indicator, When Power On Will Lighting;
Status: Status Indicator, Flicker After Regular Work;
Link: Communication Indicator, Flicker After The Optical Fiber Communication Is Normal;

USB Interface

When Using KVM Function,
Need Through The Interface
To Connect The Computer ;

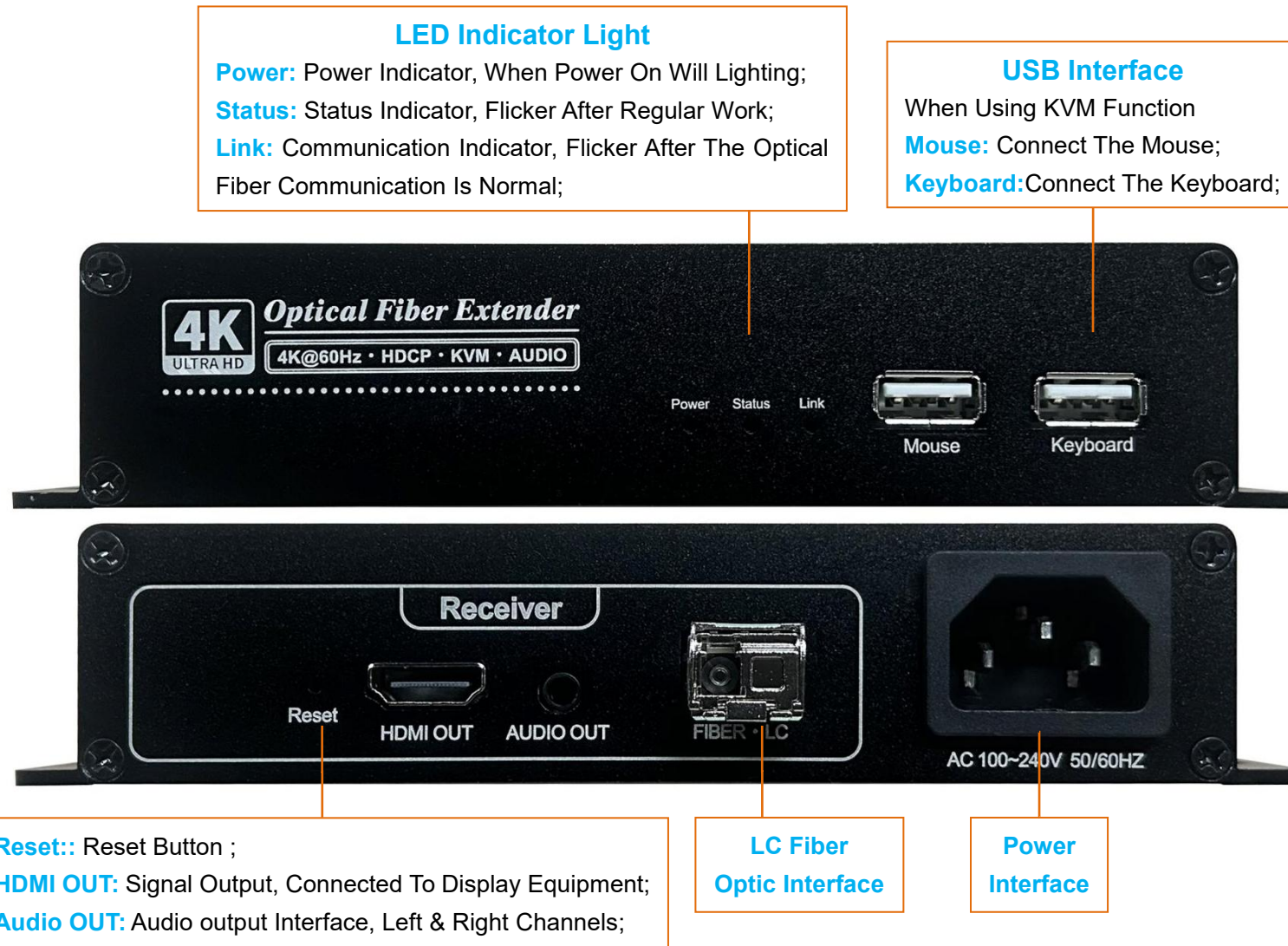


HDMI IN: Signal Input, Connected To Signal Source;
Reset: Reset Button ;
HDMI LOOP: Signal Loop Out, Connected To Monitor;
Audio In: Audio Input Interface, Left & Right Channels;

**LC Fiber
Optic Interface**

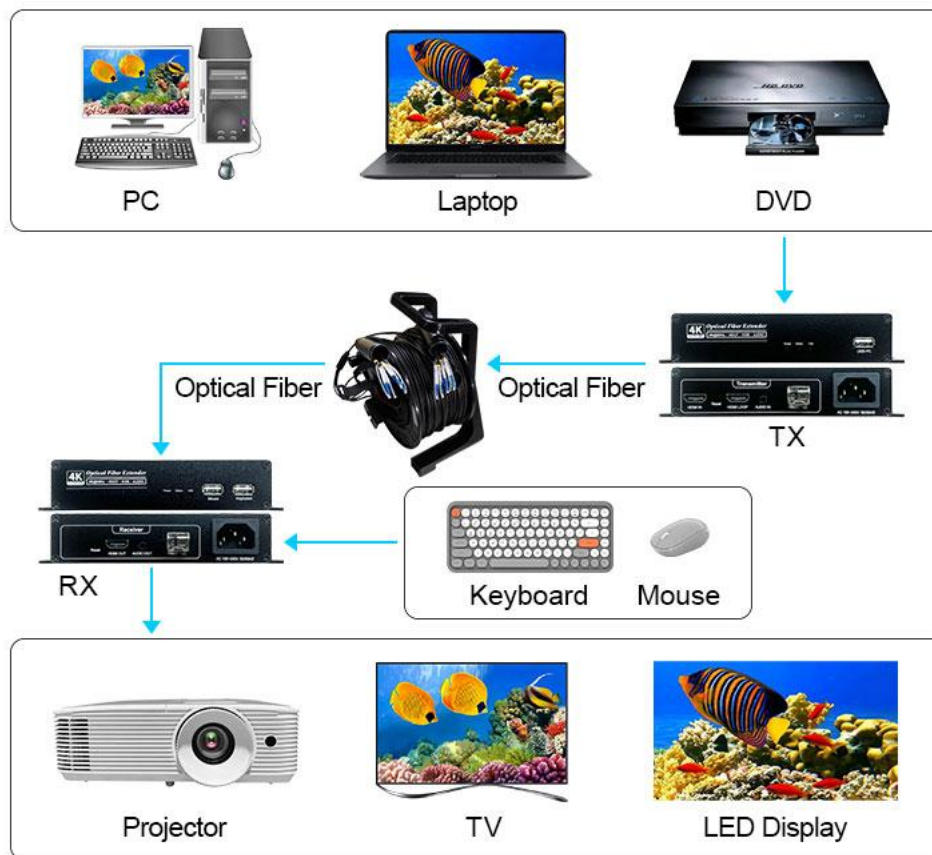
**Power
Interface**

RX-Panel Introduction



Applications

- **Topography**



- **Screen Display Mode**

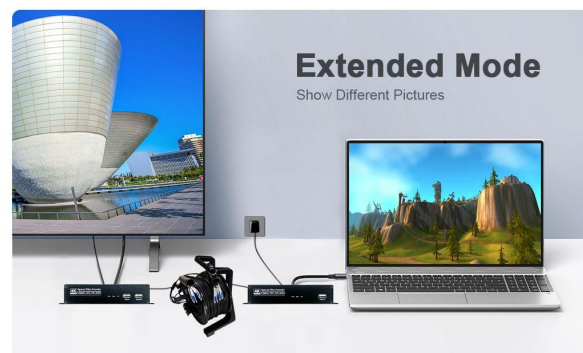


- **Mirror Mode**

Set On The Computer,
(Win+P) Keyboard Operation;
Show Same On The Screen;

- **Extended Mode**

Set On The Computer,
(Win+P) Keyboard Operation;
Show Difference On The Screen;



Parameters

Port Specifications		
HDMI Video Input 1*HDMI INPUT 2*HDMI OUPUT	Interface Type: HDMI-A Socket Signal Standard: HDMI2.0 Backward Compatible; Resolution: VESA Standard, ≤3840×2160@60Hz;	
AUDIO OUT	3.5mm Audio Output Interface, Dual Track;	
General Specifications		
Power Supply	Internal 100～240V AC, 50～60Hz ;	
Temperature	Storage: T: -40℃ ~ +80℃、 H: 10% ~ 90%, Non-condensing; Working: T: 0℃ ~ +60℃、 H: 10% ~ 90%, Non-condensing;	
Machine Size	170mm (Length) x 140 mm (Width) x 35mm (Height) <Including Ear Hook>	
Packing Size	300mm (Length) x 255 mm (Width) x 155mm (Height)	
Product Weight	Gross Weight : 2.0Kg ;	
Package Weight	Volume Weight : 3.0Kg ;	
Warranty	1 Year; Note: All Rated Voltages Are On Average ±10%;	
Model	Description	P/N
AMS-HTR4K_20Km	Single-mode&Single Fiber • 20Km	PN202409004
AMS-HTR4K_10Km	Single-mode&Single Fiber • 10Km	PN202409005
AMS-HTR4K_300M	Multi-mode&Dual Fiber • 300M	PN202409006

● Packing List



TX * 1



RX * 1



Power Cable 1.5M * 2



USB-A Cable 1.5M * 1



3.5mm Cable 1.5M * 1



HDMI Cable 1.5M * 2

● Connection Description And Use Method

1. Used The HDMI Cable Connect The Signal Source (Ex. Computer, Player, Set-top box, etc.) To The Transmitter Input Port (HDMI IN) ;
2. Used HDMI Cable Connect The Display Device (Ex. TV, Monitor, Projector, etc.) To The Transmitter Output Port (HDMI LOOP) , To Realize The Local Loop-Output Function;
3. Connect The Display Device To The Receiver Output Port (HDMI OUT) With HDMI Cable;
4. Connect The Fiber Optic Interface (FIBER · LC) At The Transmitting End And The Fiber Optic Interface (FIBER · LC) At The Receiving End Of The Optical Transceiver Using Optical Fibers, According To Different Models The Maximum Transmission Distance Respectively Is 300M / 10Km / 20Km;
5. If Need KVM Function,Connect The Mouse And Keyboard Into The Receiver USB Ports , And Connect The Computer USB Port To The Transmitter With The USB Cable;
6. Connect The Power Cable Of HDMI Transmitter And HDMI Receiver, And The Product Starts To Work. At The Same time, The Power Indicator Light (Power) Will Be On, (Status&Link) Indicator Light Are Will Flicker That The Device Starts Normally;

Note: If The Display Device Has Multiple HDMI Ports, Please Check And Select The Corresponding HDMI Port.

● Failure Phenomena And Troubleshooting Methods

Phenomenon 1: HDMI Transmitter Has No Display In Local Loop ;

1. Please Check That The Video Resolution Of The Signal Source (For Example: Computer/DVD/Set-top Box/Player etc.) is 4K@60Hz And Below. The Device Maximum Input&Output Resolution Can Only Support 4K (3840*2160@60Hz) Backward Compatibility;
2. Please Check Whether The HDMI Input Cable From The Signal Source To The Transmitter End Of The HDMI Transmitter Is Normal. Due To The Uneven Quality Of The HDMI Cable In The Market, It Is Recommended To Use A Cable With A Length Of 3-5 Meters Or Less;
3. Please Check Whether The HDMI Cable Between The HDMI Out Of The HDMI Transmitter And the Display Device Is Normal.

Phenomenon 2: HDMI Receiver HDMI Out No Display ;

1. Please Check The HDMI Cable Between The Receiver (HDMI OUT) And The Display Device Is Normal;
2. If The Display Device (TV/Display/Projector/Screen,etc.) is connected, Please Check Whether The Corresponding Connection Port Is Correct ; (Selected By The TV Remote Controller Or Other Devices);
3. When The Transmitter&Receiver Normal Work Normally, The Receiver Connection Status Indicator Light (Link) Will Fast Flicker, Indicating That The Optical Fiber Communication Normal. IF The Link Indicator Light Is Off, Please Check The Optical Fiber Communication .