

# Specification



LED / LCD

## 4K 120M HDMI Extender

Transmitter&Receiver

- 1 TX To 1 RX
- Support 4K
- Transmit 120m Through **CAT6** Net Cable

**AMS-HE120/HE120\_K**

## Safety

This chapter illustrates safety of the HE120 Series 4K HDMI 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-HE120 Is A 120M 4K HDMI(Audio&Video) Extender, That Can Transmit High-Definition Audio&Video Simultaneously Through CAT5e/6 Network Cable, Such As Audio&Video Signals Of DVD, Player, Computer And Other Devices, The Maximum Transmission Distance Can Be 120 Meters.

- Support 1TX To 1 RX, Supporting 4K Input And Output;
- Pure Hardware Design -- Plug And Play, Automatic Matching Of The Signal Source And Display Equipment; No Need Software To Configure;
- Support HDMI1.4 And HDCP1.1 / 1.2;
- 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



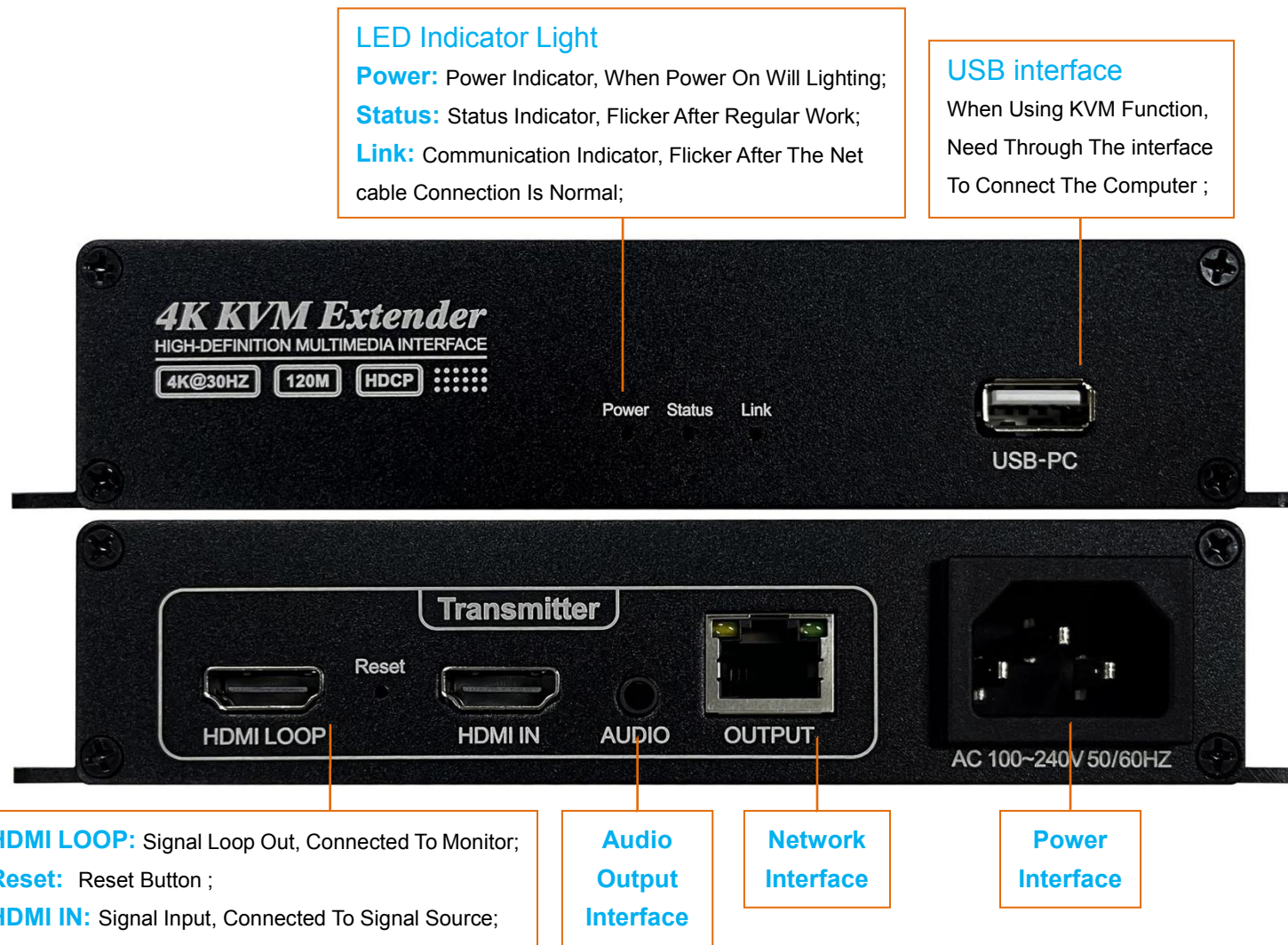
Commercial Premises



Outdoor Advertising



# TX-Panel Introduction

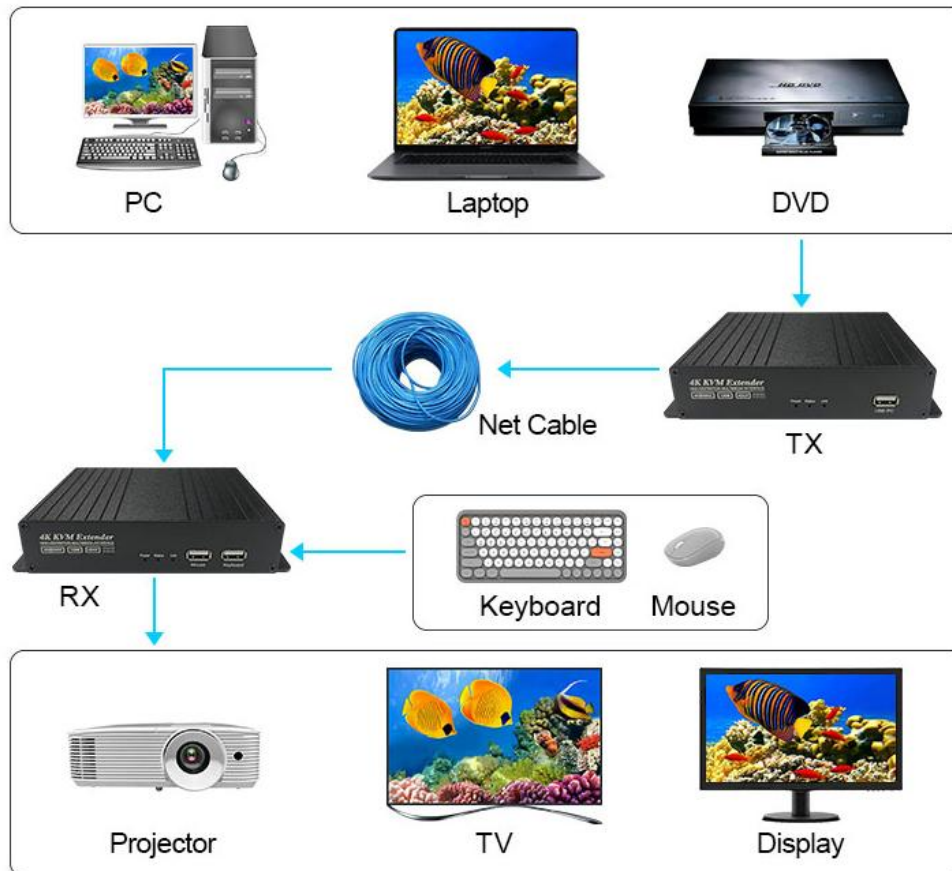


# RX-Panel Introduction



# 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: HDMI1.4 Backward compatible; Resolution: VESA Standard, ≤3840×2160@30Hz;	
AUDIO OUT	3.5mm Audio Output Interface, Dual Track;	
General Specifications		
Power Supply	Internal 100～240V AC, 50～60Hz ;	
Temperature	Storage: T: -40℃ ~ +80 °C 、 H: 10% ~ 90%, Non-condensing; Working: T: 0 °C ~ +60 °C 、 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-HE120	Standard Model	PN202208004
AMS-HE120_K	Expand KVM Function	PN202208005

## ● Packing List (AMS-HE120\_K)



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 (Computer, Player, Set-top box, etc.) To The Transmitter Input Port (HDMI IN) ;
2. Used HDMI Cable Connect The Display Device (TV, Monitor, Projector, etc.) To The Transmitter Output Port (HDMI LOOP) , To Realize The Local Loop-out Function;
3. Connect The Display Device To The Receiver Output Port (HDMI OUT) With HDMI Cable;
4. Connect The Transmitter Network Port (OUTPUT) To The Receiver Network Port (INPUT) With CAT5e/6 Network Cable( Maximum 120M );
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; (Only AMS-HE120\_K)
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@30Hz And Below. The Maximum Resolution Can Only Support 4K(3840\*2160@30Hz) 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 Wireless 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 Network Cable Is Connected Normal. IF The Link Indicator Light Is Off, Please Check The Network Cable Connection.