

4K HDMI USB 2.0 KVM Extender

4KEX120-KVM



User Manual



AV Access

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Introduction

Overview

This product is a 4K KVM Extender set. It extends 4K video and USB 2.0 signals along long distance with zero latency, ideal for the professional A/V scenarios where UHD displays and real-time interactions are required.

Features

- Transmits 4K video and USB 2.0 signals up to 120m (394ft) through a Cat 5e or above cable.
- Supports video resolutions up to 4K@30Hz.
- Zero latency.
- Supports HDCP 1.4.
- Built-in USB 2.0 hub.
- Supports limited EDID copy.
- Supports multichannel audio up to PCM 7.1ch, DTS-HD Master and Dolby TrueHD.
- Plug-and-play with zero configuration.

Package Contents

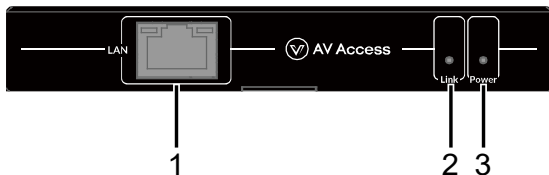
Before you start the installation of the product, please check the package contents:

- Transmitter x 1
- Receiver x 1
- Power Supply (DC 12 V 1A) x 2
- USB 2.0 Type-A to Type-B Cable (1.5m) x 1
- Mounting Brackets (with Mounting Screws) x 4
- User Manual x 1

Panel

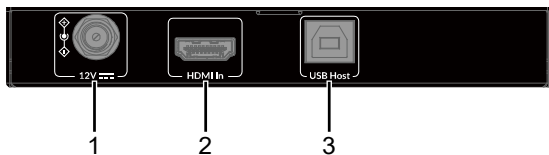
Transmitter

Front Panel



#	Name	Description
1	LAN	Connect to a receiver for outputting streams to the receiver.
2	Link LED	On: The transmitter is paired with a receiver successfully. Off: The transmitter is not paired with a receiver.
3	Power LED	On: The transmitter is powered on. Off: The transmitter is powered off.

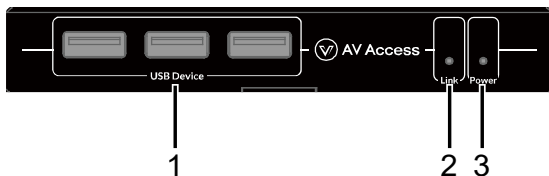
Rear Panel



#	Name	Description
1	12V	Connect to the DC 12V 1A power adapter provided.
2	HDMI In	Connect to an HDMI source.
3	USB Host	Connect the type-A to type-B USB cable between this port and the USB port of a desktop or a laptop. This port is USB 2.0 compliant.

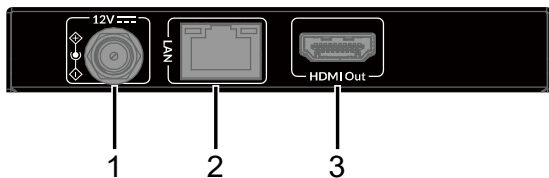
Receiver

Front Panel



#	Name	Description
1	USB Device	Connect to USB peripherals (e.g. a keyboard, a mouse and a USB flash drive, etc.).
2	Link LED	On: The receiver is paired with a transmitter successfully. Off: The receiver is not paired with a transmitter.
3	Power LED	On: The receiver is powered on. Off: The receiver is powered off.

Rear Panel



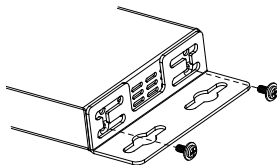
#	Name	Description
1	12V	Connect to the DC 12V 1A power adapter provided.
2	LAN	Connect to a transmitter for receiving streams from the transmitter.
3	HDMI Out	Connect to an HDMI display.

Installation and Application

Installation

Note:

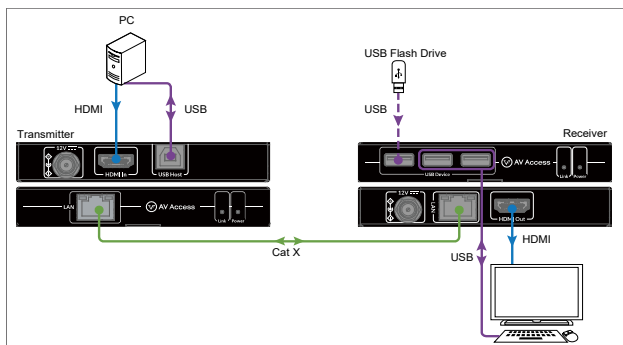
- Before installation, make sure both devices are disconnected from the power source.
 - Recommended installation height is not more than 2m from the ground.
1. Attach the mounting brackets to the panels of both sides using the screws (2 pcs for each side) provided in the package.



2. Screw the brackets to the position as required (screws in this step are not included in the package).

Application

The transmitter and receiver are connected directly with a Cat 5e or above cable, extending HDMI and USB signals over a long distance up to 120m/394ft.



Specification

Transmitter

Technical	
Input/Output	1 x HDMI IN (19-pin female HDMI Type-A), 1 x USB HOST (female USB Type-B), 1 x DC 12V connector, 1 x LAN (RJ45)
Input Signal Type	HDMI 1.4b
Input Resolutions Supported	640x480 ^{8,10} , 800x600 ^{8,10} , 1024x768 ^{8,10} , 1280x720 ^{6,7,8,9,10} , 1280x768 ^{8,10} , 1280x800 ^{8,10} , 1280x960 ^{8,10} , 1280x1024 ^{8,10} , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ^{8,10} , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ^{8,10} , 1920x1080 ^{1,2,3,4,5,6,7,8,9,10} , 1920x1200 ⁸ , 3840x2160P ^{2,3,5} , 4096x2160P ^{2,3,5} 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz, 9 = at 100 Hz, 10 = at 120 Hz
Input Audio Format Supported	PCM 2.0/2.1/5.1/7.1, Dolby Digital 5.1ch, Dolby Digital Plus, Dolby TrueHD, DTS 5.1ch, DTS-HD High Resolution Audio, DTS-HD Master Audio
Maximum Transmission Distance	Cat 5e or above: 120m/394ft HDMI: 15m/49ft
General	
Operating Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Humidity	10% to 90%, non-condensing

General	
ESD Protection	Human Body Model: ±8kV (air-gap discharge) / ±4kV (contact discharge)
Power Supply	DC 12V 1A
Power Consumption	< 2.5W
Unit Dimensions (W x H x D)	112mm x 17.8mm x 65.2mm / 4.41" x 0.70" x 2.57"
Unit Net Weight (without accessories)	0.18kg/0.40lb

Receiver

Technical	
Input/Output	1 x LAN (RJ45), 1 x HDMI OUT (19-pin female HDMI Type-A), 3 x USB DEVICE (female USB Type-A), 1 x DC 12V connector
Output Signal Type	HDMI 1.4b
Output Resolutions Supported	640x480 ⁸ , 800x600 ^{8,10} , 1024x768 ^{8,10} , 1280x720 ^{6,7,8,9,10} , 1280x768 ^{8,10} , 1280x800 ^{8,10} , 1280x960 ^{8,10} , 1280x1024 ^{8,10} , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ^{8,10} , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ^{8,10} , 1920x1080 ^{1,2,3,4,5,6,7,8,9,10} , 1920x1200 ⁸ , 3840x2160P ^{2,3,5} , 4096x2160P ^{2,3,5} 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz, 9 = at 100 Hz, 10 = at 120 Hz
Output Audio Format Supported	PCM 2.0/2.1/5.1/7.1, Dolby Digital 5.1ch, Dolby Digital Plus, Dolby TrueHD, DTS 5.1ch, DTS-HD High Resolution Audio, DTS-HD Master Audio
Maximum Transmission Distance	Cat 5e or above: 120m/394ft HDMI: 15m/49ft
USB Current	Not more than 0.5A per USB port is recommended

General	
Operating Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human Body Model: ±8kV (air-gap discharge)/±4kV (contact discharge)
Power Supply	DC 12V 1A
Power Consumption	< 4W (USB Consumption not included)
Unit Dimensions (W x H x D)	112mm x 17.8mm x 65.2mm / 4.41" x 0.70" x 2.57"
Unit Net Weight (without accessories)	0.18kg/0.40lb

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. AV Access preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

Thank you for choosing products from AV Access.

If you have any question, please contact us via the following emails:

General Enquiry: info@avaccess.com

Customer/Technical Support: support@avaccess.com

4K HDMI USB 2.0 KVM 延长器

4KEX120-KVM



用户手册



视连捷
AV Access

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简介

概述

本产品是一套 4K KVM 延长器套装，支持远距离、零延时传输 4K 视频和 USB 2.0 信号，非常适合用于需要超高清展示和实时交互的专业视音频应用场景。

特性

- 通过 Cat 5e 或以上规格的网线可传输 4K 视频和 USB 2.0 信号至最远 120 米。
- 支持高达 4K@30Hz 的视频分辨率。
- 零延时。
- 支持 HDCP 1.4。
- 内置 USB 2.0 集线器。
- 支持特定选项的 EDID 拷贝。
- 支持高达 PCM 7.1ch、DTS-HD Master 和 Dolby TrueHD 的多通道音频。
- 无需配置、即插即用。

包装明细

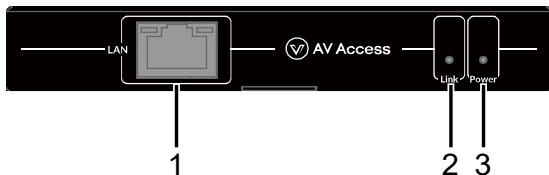
在开始使用本产品前，请通过下列明细检查包装配件：

- 发射端 x 1
- 接收端 x 1
- 电源适配器 (DC 12V 1A) x 2
- USB 2.0 Type-A 转 Type-B 线 (1.5 米) x 1
- 固定耳 (带螺丝) x 4
- 用户手册 x 1

面板

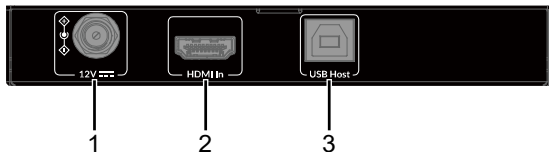
发射端

前面板



#	名称	描述
1	LAN	连接至接收端以输出码流至接收端。
2	Link LED	- 长亮：发射端与接收端配对成功。 - 不亮：发射端未与接收端配对。
3	Power LED	- 长亮：设备已通电。 - 不亮：设备未通电。

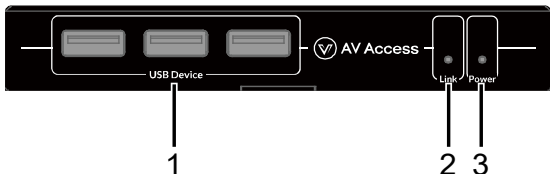
后面板



#	名称	描述
1	DC 12V	连接至随附的 DC 12V 1A 电源适配器。
2	HDMI In	连接至 HDMI 视频源。
3	USB Host	使用 USB Type-A 转 Type-B 线连接此端口至电脑的 USB 端口。此端口支持 USB 2.0。

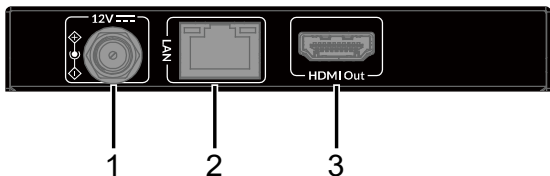
接收端

前面板



#	名称	描述
1	USB Device	连接至 USB 外设 (如键盘、鼠标、U 盘等)。
2	Link LED	- 长亮: 接收端与发射端配对成功。 - 不亮: 接收端未与发射端配对。
3	Power LED	- 长亮: 接收端已通电。 - 不亮: 接收端未通电。

后面板



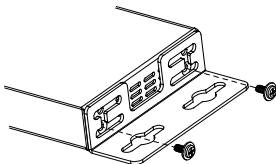
#	名称	描述
1	12V	连接至 DC 12V 1A 电源适配器。
2	LAN	连接至发射端以接收来自发射端的码流。
3	HDMI Out	连接至 HDMI 显示器。

安装与应用

安装

注意：

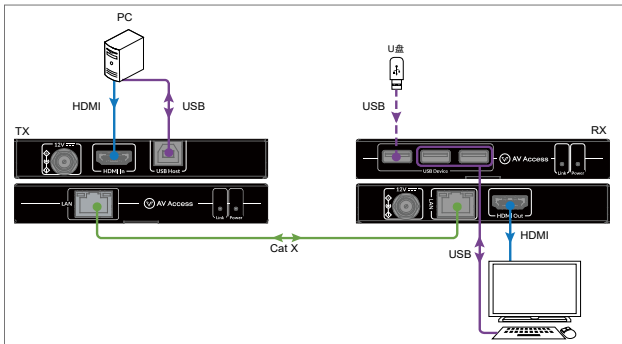
- 安装前，请确保设备已断开电源。
 - 建议安装高度距离地面不超过 2 米。
1. 使用随附的螺钉将固定耳安装至设备的侧面板上（每侧各 2 颗螺钉）。



2. 将固定耳固定至所需位置（此步骤中的螺钉需自行准备）。

应用

发射端和接收端通过 Cat 5e 或更高规格的网线直连可传输 HDMI 和 USB 信号至最远 120 米。



规格

发射端

技术参数	
输入/输出	1 x HDMI IN (19-pin HDMI Type-A), 1 x USB HOST (USB Type-B), 1 x DC 12V, 1 x LAN (RJ45)
输入信号类型	HDMI 1.4b
输入分辨率	640x480 ⁸ , 800x600 ^{8,10} , 1024x768 ^{8,10} , 1280x720 ^{6,7,8,9,10} , 1280x768 ^{8,10} , 1280x800 ^{8,10} , 1280x960 ^{8,10} , 1280x1024 ^{8,10} , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ^{8,10} , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ^{8,10} , 1920x1080 ^{1,2,3,4,5,6,7,8,9,10} , 1920x1200 ⁸ , 3840x2160P ^{2,3,5} , 4096x2160P ^{2,3,5} 1 = 23.98 Hz, 2 = 24 Hz, 3 = 25 Hz, 4 = 29.97 Hz, 5 = 30 Hz, 6 = 50 Hz, 7 = 59.94 Hz, 8 = 60 Hz, 9 = 100 Hz, 10 = 120 Hz
输入音频格式	PCM 2.0/2.1/5.1/7.1, Dolby Digital 5.1ch, Dolby Digital Plus, Dolby TrueHD, DTS 5.1ch, DTS-HD High Resolution Audio, DTS-HD Master Audio
最大传输距离	Cat 5e 或以上: 120 米 HDMI: 15 米

通用参数	
操作温度	0 ~ 45°C (32 ~ 113 °F), 10%~90%, 无冷凝
贮存温度	-20 ~ 70°C (-4 ~ 158 °F), 10%~90%, 无冷凝
静电防护	人体放电模式: ±8kV (气隙放电)/±4kV (接触放电)
电源	DC 12V 1A
功耗	小于 2.5W
设备尺寸 (宽 x 高 x 深)	112mm x 17.8mm x 65.2mm
设备净重 (不含配件)	0.18kg

接收端

技术参数	
输入/输出	1 x LAN (RJ45), 1 x HDMI OUT (19-pin HDMI Type-A), 3 x USB DEVICE (USB Type-A), 1 x DC 12V
输出信号类型	HDMI 1.4b
输出分辨率	640x480 ⁸ , 800x600 ^{8,10} , 1024x768 ^{8,10} , 1280x720 ^{6,7,8,9,10} , 1280x768 ^{8,10} , 1280x800 ^{8,10} , 1280x960 ^{8,10} , 1280x1024 ^{8,10} , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ^{8,10} , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ^{8,10}

技术参数	
	1920x1080 ^{1,2,3,4,5,6,7,8,9,10} , 1920x1200 ⁸ , 3840x2160P ^{2,3,5} , 4096x2160P ^{2,3,5} 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz, 9 = at 100 Hz, 10 = at 120 Hz
输出音频格式	PCM 2.0/2.1/5.1/7.1, Dolby Digital 5.1ch, Dolby Digital Plus, Dolby TrueHD, DTS 5.1ch, DTS-HD High Resolution Audio, DTS-HD Master Audio
最大传输距离	Cat 5e 或以上: 120 米 HDMI: 15 米
USB 输出电流	建议每个 USB 端口电流输出不超过 0.5A

通用参数	
操作温度	0 ~ 45°C (32 ~ 113 °F), 10%~90%, 无冷凝
贮存温度	-20 ~ 70°C (-4 ~ 158 °F), 10%~90%, 无冷凝
静电防护	人体放电模式: ±8kV (气隙放电)/±4kV (接触放电)
电源	DC 12V 1A
功耗	小于 4W (不含 USB 功耗)
设备尺寸 (宽 x 高 x 深)	112mm × 17.8mm × 65.2mm
设备净重 (不含配件)	0.18kg

产品质保

本产品提供一年的保修和人工保障服务。在下列情况中，如果设备仍可以维修但保修卡已不能使用或者不适用，我们将对维修行为进行收费。

1. 产品上标注的源序列号（由视连捷提供）被撕毁，抹除，替换，污损或难以辨认。
2. 超过保修期限。
3. 由非视连捷授权的服务合作商进行修理、拆卸或者更换配件造成的缺陷，或者未严格按照产品的用户指南使用或者操作不当造成的产品缺陷。
4. 由不可抗力造成的缺陷。包括但不限于事故、火灾、地震、雷电、海啸和战争。
5. 销售人员承诺的配置和礼品，但不包括在正常合同范围内。
6. 视连捷保留对上述条款的解释权，并随时更改，恕不另行通知。

感谢您选择视连捷的产品。



如有任何问题，请通过以下邮箱联系我们：

普通咨询：info@avaccess.com

售后/技术支持：support@avaccess.com

注意事项

1. 不得打开、拆解或修理本产品。
2. 不要在炎热、寒冷、尘土飞扬或潮湿的环境下使用；请用干布擦拭该设备。
3. 尽可能地避免抛掷，大力抛掷可能会造成机械损坏、故障或划伤表面。

有害物质声明

根据中国《电子信息产品污染控制管理办法》

部件名称	有害物质									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr +6)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸二异丁酯 (DIBP)	邻苯二甲酸二(2-乙基己基)酯 (DEHP)	邻苯二甲酸二丁基酯 (DBP)	邻苯二甲酸甲苯基丁酯 (BBP)
电缆	○	○	○	○	○	○	○	○	○	○
电路板组件	○	○	○	○	○	○	○	○	○	○
塑料部件	○	○	○	○	○	○	○	○	○	○
金属部件	○	○	○	○	○	○	○	○	○	○
橡胶部件	○	○	○	○	○	○	○	○	○	○

本表格根据SJ/T 11364的规定编制
 ○ = 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

产品保修

保修期限	
购买日期	
购买地点	
产品序列号	
商品编号	
盖章	

日期	维修情况

