4K USB 1.1 KVM Extender 70m

4KEX70-USB-L



User Manual

AV Access

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Introduction

Overview

This product is a slim and cost-effective extender kit with HDMI 1.4 & HDCP 1.4 compatibility. It supports resolutions up to 4K@30Hz 4:4:4 8bit, and transmits UHD video and USB signals up to 230ft (70m) over a Cat 6 or higher cable. It also supports bidirectional PoC.

Features

- Supports video resolutions up to 4K@30Hz 4:4:4 8-bit and HDCP 1.4.
- Transmits HDMI signals up to 230ft (70m) via a Cat 6/6A/7 cable.
- Supports multichannel audio up to PCM 7.1, Dolby Atmos and DTS:X.
- Supports USB 1.1 KVM (keyboard & mouse) extension.
- Includes a 2-pin switch for EDID management.
- Supports bidirectional PoC, one power adapter at either the transmitter or receiver can power both units.
- Slim profile and easy installation.

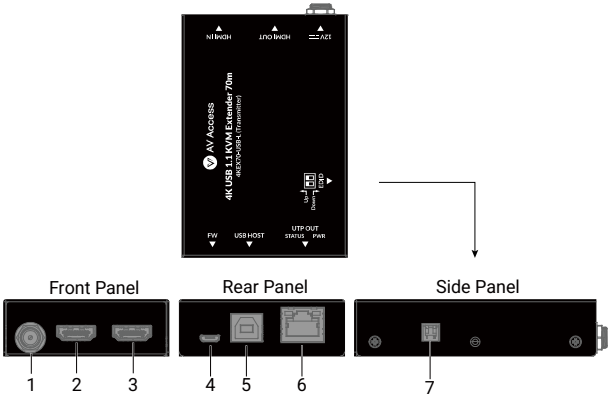
Package Contents

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

- Transmitter and Receiver Kit × 1
- Power Adapter (DC 12V 1A) × 1
- USB 2.0 Type-A to Type-B Cable (1.5m) × 1
- Mounting Brackets (with Screws) × 4
- User Manual × 1

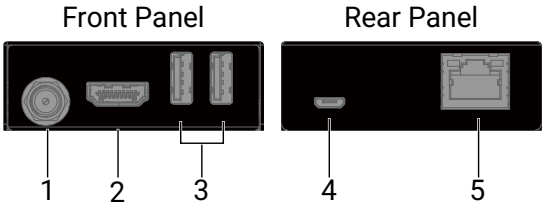
Panel

Transmitter



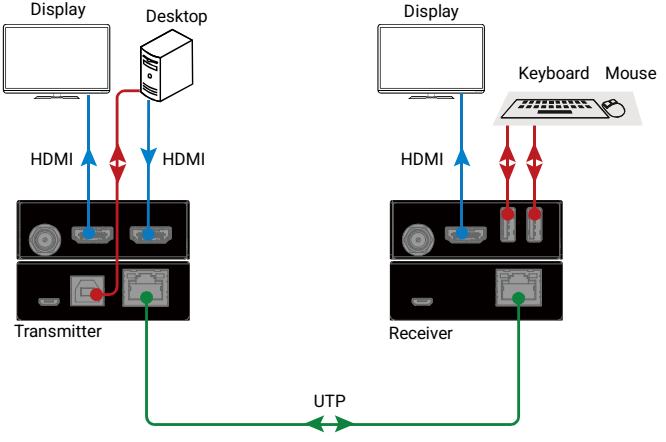
#	Name	Description
1	12V	Connect to the included power adapter. With bidirectional PoC support, one power adapter connected to either the transmitter or receiver can power both units.
2	HDMI OUT	Connect to an HDMI display.
3	HDMI IN	Connect to an HDMI source.
4	FW	Micro USB port. Connect to a PC for firmware upgrades.
5	USB HOST	Connect to a USB host (e.g. a PC).
6	UTP OUT	RJ-45 port with LED indicators. Connect to the UTP IN port of the receiver via a Cat 6/6a/7 cable. • **STATUS** LED (Green): On when an HDMI signal is transmitted. • **PWR** LED (Orange): On when the device is powered on.
7	EDID	2-pin switch for EDID management (0 = up, 1 = down): • **00**: Copy EDID from TX. • **01**: Use fixed 1080P@60 as input EDID. • **10**: Use fixed 4K@30 as input EDID. • **11**: Copy EDID from RX (default).

Receiver



#	Name	Description
1	12V	Connect to the included power adapter. With bi-directional PoC support, one power adapter connected to either the transmitter or receiver can power both units.
2	HDMI OUT	Connect to an HDMI display.
3	USB DEVICE	2 x USB 1.1 Type-A ports. Connect to a mouse and/or a keyboard for KVM extension.
4	FW	Micro USB port. Connect to a PC for firmware upgrades.
5	UTP IN	RJ-45 port with LED indicators. Connect to the UTP OUT port of the transmitter via a Cat 6/6a/7 cable. • **STATUS** LED (Green): On when an HDMI signal is transmitted. • **PWR** LED (Orange): On when the device is powered on.

Application



Specifications

Technical	
Input/Output Signal Type	HDMI 1.4, HDCP 1.4
Input/Output Resolutions	Supports VESA and SMPTE resolutions up to 4K@30Hz (4:4:4), including 3840 × 2160@30Hz, 3840 × 1080@60Hz, 3440 × 1440@60Hz, 2560 × 1600@60Hz, 2560 × 1440@60Hz, 2560 × 1440@50Hz, 1080P@120Hz, 1080P@100Hz, 1080P@75Hz, 1080P@60Hz, 720P@60Hz
Maximum Data Rate	9Gbps
Maximum Pixel Clock	300MHz
Audio Formats	Supports multichannel audio up to PCM 7.1, including PCM 2.0/5.1/7.1ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio and DTS:X

General	
Operating Temperature & RH	0–45°C (32–113°F), 10%–90% RH, non-condensing
Storage Temperature & RH	-20–70°C (-4–158°F), 10%–90% RH, non- condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Power Supply	DC 12V 1A
Power (Max)	4.2W per pair (via PoC)
Dimensions (W × H × D)	2.56" × 0.87" × 3.74" (65mm × 22mm × 95mm) per unit
Net Weight	0.37lb (0.17kg) per unit

Transmission Distance

Note: A T568B straight-through Category cable is recommended.

Cable Type	Range	Supported Video
Cat 6/6A/7	230ft (70m)	1080P@60Hz 4K@30Hz
HDMI	Input/Output: 49ft (15m)	1080P@60Hz
	Input/Output: 33ft (10m)	4K@30Hz

Troubleshooting

1. **Why is there no power to the device?**
   - Use the power adapter included in the package.
   - Ensure the power adapter is securely connected to both the device and the power outlet.

2. **Why is there no picture, or is the video flickering?**
   - Make sure all devices are powered on and all cables are properly connected and of good quality.
   - Check that cable lengths are within the recommended range (see the *Specifications* chapter).
   - Verify that all LED indicators are functioning normally.
   - Connect the source directly to the display to verify that both are functioning properly.
   - Confirm that the input resolution is supported by the device.

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: sales@avaccess.com
Customer/Technical Support: support@avaccess.com



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