



AV Access 4KSW21-KVM 2×1 HDMI KVM Switcher User Manual

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AV Access 4KSW21-KVM 2×1 HDMI KVM Switcher



Introduction

Overview

4KSW21-KVM is a 2x1 HDMI KVM Switcher. It supports resolutions up to 4K@60Hz 4:4:4, multi-channel audio, and automatic HDCP 2.2/1.4 compatibility. It allows users to control two USB host devices with only one set of USB devices (e.g. USB mouse, USB keyboard, USB flash, and other USB2.0 compliant devices). It supports HDMI input switching through the front panel button or IR remote and provides wide compatibility with different operating systems, such as Windows, Mac OS, and Linux, with no driver required, and simple plug-and-play.

Features

- 2 x 1 HDMI KVM switcher with HDMI and HDCP2.2 compliance.
- Full 18G bandwidth, up to 4K/UHD @60Hz with 4:4:4 chroma sampling.
- Provides three USB-A ports for USB keyboard, USB mouse, and other USB2.0 devices to control one of the two computers.
- Supports HDMI input and KVM switching by front panel button and IR remote.
- Supports one microphone input and one headphone output for audio applications.
- Wide compatibility with Windows 10/8/7 XP, Mac OS, and Linux.
- No driver is required and simple plug-and-play.

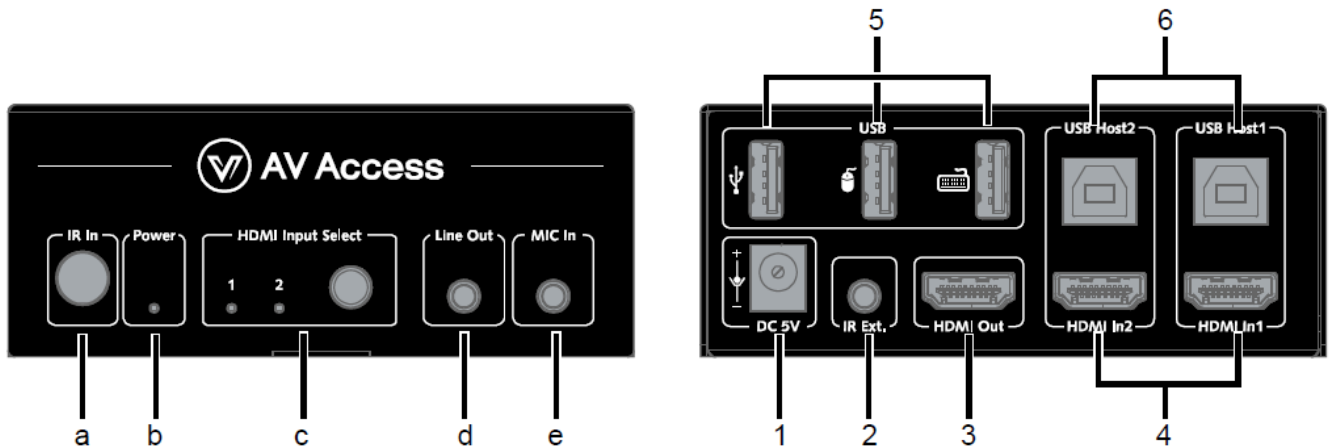
Package Contents

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

- Switcher x 1
- Power Adapter (DC 5V) x 1
- IR Remote x 1
- IR Receiver x 1

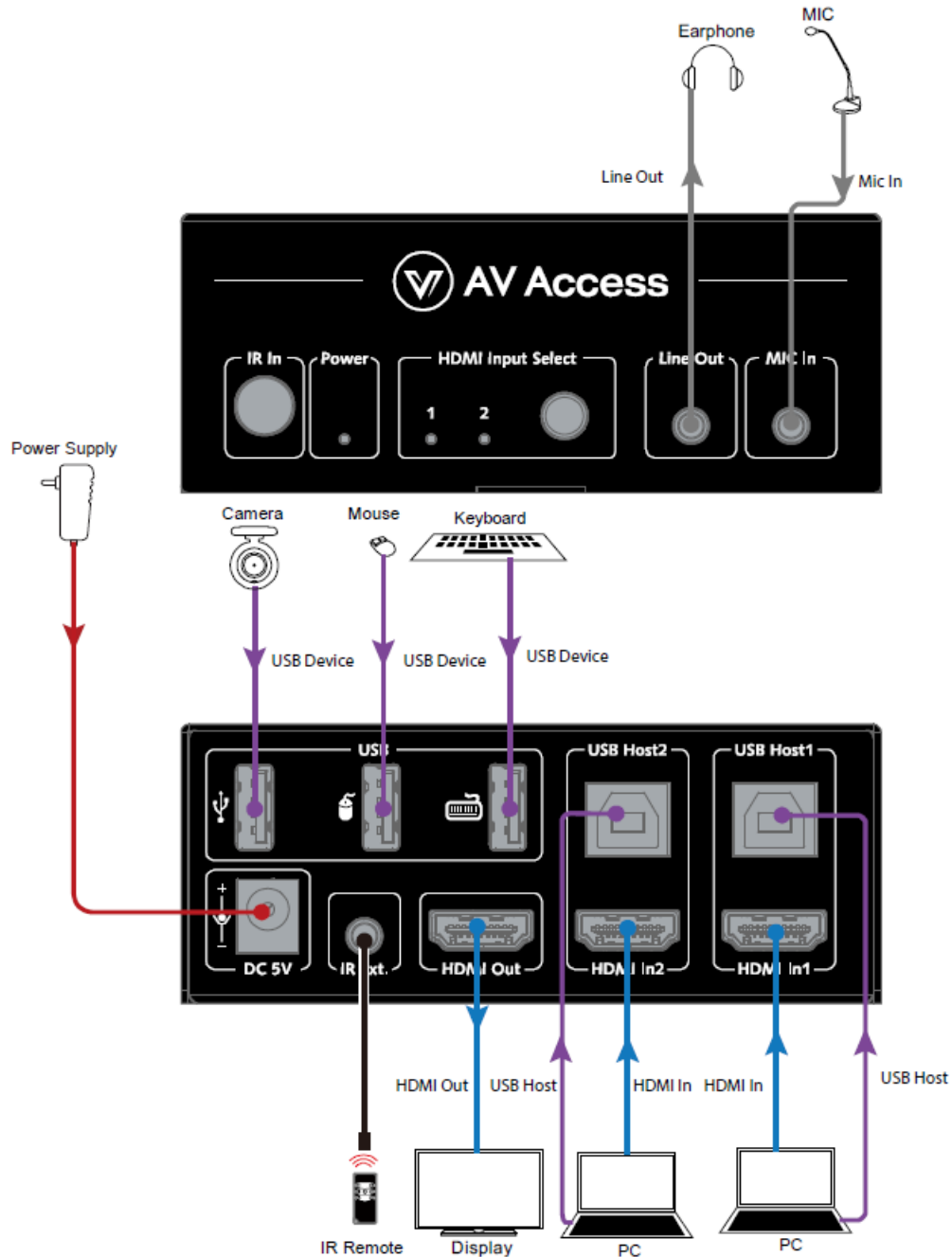
- USB-A to USB-B Cable (1.5m) x 2
- Mounting Brackets (with Screws) x 2
- User Manual x 1

Panel



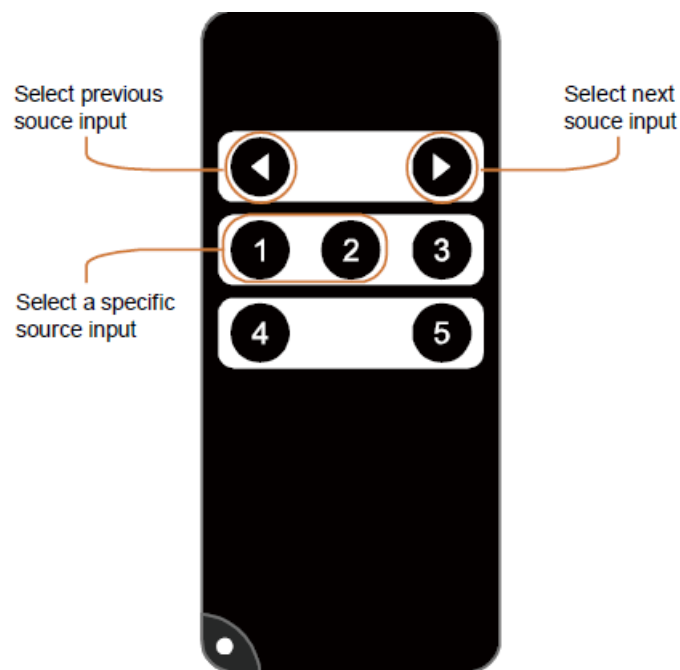
No.	Name	Description
a	IR In	Receives control signal from the IR remote.
b	Power	☐ On: The device is powered on. ☐ Off: The device is powered off.
c	HDMI Input Select	☐ HDMI Input Selection Button: Press to switch between two input sources. ☐ LED (1-2): LED indicates that the corresponding input source is selected.
d	Line Out	Connect to an earphone.
e	MIC In	Connect to a microphone.
1	DC 5V	Connect to the power adapter provided.
2	IR Ext.	Connect to the IR receiver cable provided.
3	HDMI Out	Connect to an HDMI display.
4	HDMI IN 1-2	Connect to HDMI sources.
5	USB	Connect to USB devices (e.g. mouse, keyboard, USB flash drive, etc.).
6	USB Host 1-2	Connect to USB host devices (e.g. computers). Note: USB Host 1 and 2 are bound with HDMI IN 1-2 respectively, when either HDMI input source (HDMI IN 1/2) is selected, the corresponding USB host device will connect to USB peripheral devices at USB ports simultaneously.

Application



IR Remote Handset

This switcher can be controlled by the IR remote provided. Point the IR remote directly at the IR receive cable connected to the "IR Ext." port or point the remote directly at "IR In" window on front panel, you can easily select the desired input source.



Button	IR Codes	Description
	0x02 0x0a	Switch to next active source input (Cycle 1→2)
	0x02 0x08	Switch to previous active source input (Cycle 2→1)
	0x02 0x04	Switch to source 1
	0x02 0x05	Switch to source 2
	N/A	Not available
	N/A	Not available
	N/A	Not available

Note: Since the encoding format for IR codes above is NEC (38KHz), please ensure any third-party device (e.g. control box) used to IR control the switcher supports NEC (38KHz).

Specification

Video	
Input/Output Signal Type	Ȳ HDMI with 4K@60Hz 4:4:4, HDCP 2.2; Ȳ USB: USB2.0
	SMPTE:
	1280x720P1,2,3,4,5,6,7,8, 1920x1080I6,8,
	1920x1080P1,2,3,4,5,6,7,8,9, 2560x10809, 3840x10809,
	3840x21602,3,5,6,8, 4096x21602,3,5,6,8

Input/Output Resolutions Supported	VESA: 800×6008, 1024×7688, 1280×7688, 1280×8008, 1280×9608, 1280×10248, 1360×7688, 1366×7688,
	1400×10508, 1440×9008, 1600×9008, 1600×12008,
	1680×10508, 1920×12008, 2560×144010
	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 = 120Hz, 10 = 144Hz
Maximum Data Rate	HDMI: 18Gbps; USB: 480Mbps
Maximum Pixel Clock	600MHz
Control Method	Front Panel, IR Remote
Audio	
Audio format	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
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)
Product Supply	DC 5V 1A
Power Consumption (Max)	6.5W
Dimensions (W x H x D)	105mm × 42mm × 65.2mm / 4.13" × 1.65" × 2.57"
Product Weight	0.40kg/0.88lb

Transmission Distance

Cable Type	Range	Supported Video
HDMI	Input/Output: 49ft/15m	1080P@60Hz

Cable Type	Range	Supported Video
	Input/Output: 33ft/10m	4K@30Hz
	Input/Output: 16ft/5m	4K@60Hz 4:4:4

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access Technology Limited 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 Technology Limited) 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 who is not from an AV Access Technology Limited 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 are promised by the salesman only but are not covered by a normal contract.
6. AV Access Technology Limited reserves the right to interpret these cases above and to make changes to them at any time without notice.

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- www.avaccess.com.
- info@avaccess.com.

Documents / Resources

  	<p>AV Access 4KSW21-KVM 2x1 HDMI KVM Switcher [pdf] User Manual</p> <p>4KSW21-KVM 2x1 HDMI KVM Switcher, 4KSW21-KVM, 2x1 HDMI KVM Switcher, KVM Switcher, Switcher</p>
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