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4KSW41-KVM-Pro

4x1 HDMI 2.0 KVM Switcher with Hotkey Switch



User Manual

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Important Safety Instructions

- Do not expose this device to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the device.
- Do not install or place this unit in a bookcase, built-in cabinet, or in another confined space. Ensure the unit is well ventilated.
- To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, or similar items.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other device (including amplifiers) that produce heat.
- Do not place sources of naked flames, such as lighted candles, on the unit.
- Clean this device only with dry cloth.
- Unplug this device during lightning storms or when unused for long periods of time.
- Protect the power cord from being walked on or pinched, particularly at plugs.
- Only use attachments / accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel

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Introduction

Overview

4KSW41-KVM-Pro is a 4x1 HDMI KVM Switcher with Hotkey Switch. It supports HDMI 2.0 and HDCP 2.2 compatibility, and supports resolutions up to 4K@60Hz 4:4:4 8bit. The four USB port KVM switcher allows users controls four source devices/computers with only one set of USB devices (e.g., USB mouse, USB keyboard, USB flash and other USB2.0 compliant devices).

The switcher features virtual interaction function, which can reduce the switching time and does not need to frequently pull the HPD signal of the source device each time. It also supports direct switching through buttons on front panel, IR Remote switching, and hotkey switching through keyboard connected to the special USB port. It provides a wide compatibility choice for different operating systems, such as Windows, Mac OS and Linux, no driver required and simple plug and play.

Features

- 4 In 1 Out HDMI KVM switcher with HDMI2.0 and HDCP2.2 compliant.
- Full 18Gbps bandwidth supports 4K@60Hz 4:4:4 chroma sampling with HDR.
- Supports refreshing rate up to 1080P@120Hz.
- One USB 1.1 port for keyboard and two USB 2.0 ports for USB devices.
- Supports button switch, IR remote switch, and hotkey switch (Keyboard must be connected to USB1.1 port).
- Supports microphone input and headphone output for audio application.
- Compatible with Windows 10/8/7 XP, Mac OS and Linux.
- No driver required, plug and play.

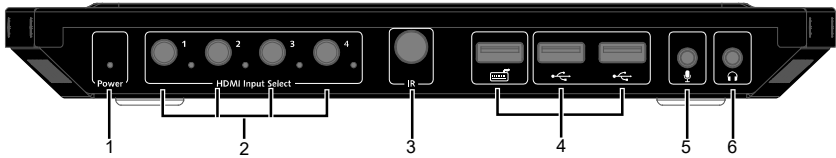
Package Contents


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


- Switcher x 1
- Power Adapter (DC 12V 1A) with US Pins x 1
- IR Remote x 1
- IR Receive Cable (L=1.2m) x 1
- USB 2.0 Type-B to Type-A Cable (L=1.5m) x 4
- User Manual x 1

Panel

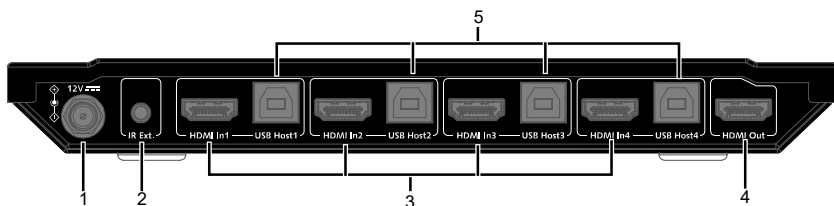
Front Panel



No.	Name	Description
1	Power LED	On: The device is powered on. Off: The device is powered off.
2	HDMI Input Selection Buttons (1~4) and LEDs (1~4)	HDMI Input Selection Button (1~4): Press the button to select HDMI In (1~4) as input. LED: LED is located on the right of the button. On: The corresponding HDMI In is selected. Off: The corresponding HDMI In is not selected.
3	IR Receive Window	Receive IR signal.
4	USB	 USB 1.1 type-A port, can be used to connect to a USB slave device (such as keyboard) for KVM

No.	Name	Description
		function. When connect a keyboard to it, the keyboard can be used for Hotkey function.  USB 2.0 type-A port, can be used to connect to USB 2.0 high-speed device for KVM function.
5	MIC In	Connect to a Microphone. The Microphone follows the HDMI Input source selected.
6	Line Out	Connect to an earphone. The earphone follows the HDMI Input source selected.

Rear Panel

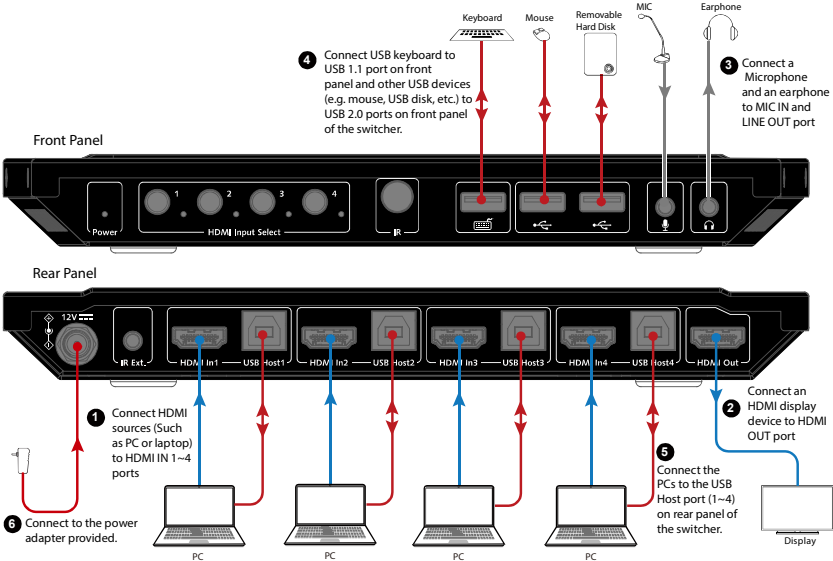


No.	Name	Description
1	DC 12V	Connect to the power adapter provided.
2	IR Ext.	Connect to the IR receive cable provided.
3	HDMI In (1~4)	Connect to HDMI sources.
4	HDMI Out	Connect to an HDMI display.
5	USB Host (1~4)	Connect to USB Host devices. The USB Host 1~4 is bound with HDMI In 1~4 respectively. When an HDMI input is selected, the corresponding host PC will be connected to the USB devices connected to the switcher.

Application

Warnings:

- Before wiring, disconnect the power from all devices.
- During wiring, connect and disconnect the cables gently.



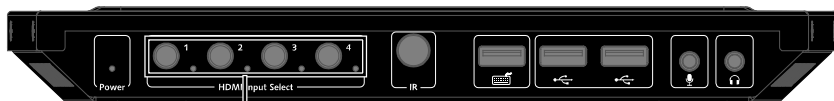
Control of the Switcher

You can choose to switch input sources at your convenience through front panel buttons, IR remote or Hotkey function.

Front Panel Control

Users can choose to use front panel buttons to do basic switching operations.

Connect the switcher as required and power on all the attached devices.



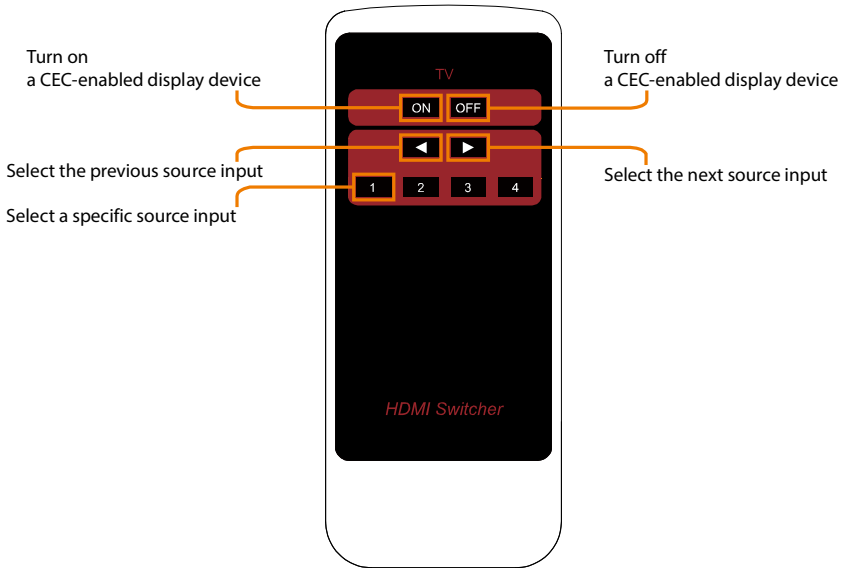
Press the corresponding button (Input1/2/3/4) to select HDMI In (1/2/3/4) as input source

IR Remote Control

The included remote handset can be used to turn on and off a CEC-enabled display device and to switch four HDMI sources to one display device.

Point the remote directly at the IR windows on front panel or at the IR extension cable connected to the "IR Ext." on rear panel.

Control of the Switcher



Button	IR Codes	Description
ON	0x1D	Turn on the connected CEC-enabled display.
OFF	0x1F	Turn off the connected CEC-enabled display.
◀	0x1B	Switch to the previous source input (Cycle 4->1).
▶	0x11	Switch to the next source input (Cycle 1->4).
1	0x17	Switch to source input 1.
2	0x12	Switch to source input 2.
3	0x59	Switch to source input 3.
4	0x08	Switch to source input 4.

Hotkey Function

One USB 1.1 port on front panel of the switcher supports keyboard Hotkey function.

Supported Hotkey:

1. Tab (default)
2. Left Ctrl
3. Right Ctrl
4. Caps Lock

Key Operation	Function
Press the "Hotkey" twice quickly	Switch to this hotkey
Press "Hotkey" + "1"	Switch to input 1.
Press "Hotkey" + "2"	Switch to input 2.
Press "Hotkey" + "3"	Switch to input 3.
Press "Hotkey" + "4"	Switch to input 4.
Press "Hotkey" + "Left"	Switch to the previous input source (Cycle 4->1).
Press "Hotkey" + "Right"	Switch to the next input source (Cycle 1->4).

For example:

If you want to use the "Left Ctrl" as a hotkey, press the "Left Ctrl" key twice quickly to switch the hotkey to it, and other hotkeys are invalid. If you need to use other hotkeys, please repeat the above steps.

Specifications

Technical	
Video Signal	HDMI with 4K@60Hz 4:4:4, HDCP 2.2
Input/Output Resolution Support	<p>SMPTE: 1280x720P^{1,2,3,4,5,6,7,8}, 1920x1080I^{6,8}, 1920x1080P^{1,2,3,4,5,6,7,8,9}, 2560x1080⁹, 3840x1080⁹, 3840x2160^{2,3,5,6,8}, 4096x2160^{2,3,5,6,8}</p> <p>VESA: 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1400x1050⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸, 2560x1440¹⁰</p> <p>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</p>
Audio Format Supported	<p>HDMI: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X</p> <p>MIC IN: Mono</p> <p>LINE OUT: Stereo</p>
Max Data Rate	18 Gbps
General	
Operating Temperature	0°C to + 45°C (32 to + 113 °F)
Storage Temperature	-20 to +70°C (-4 to + 158 °F)
Humidity	20% to 90%, non-condensing
Power Consumption (Maximum)	5.27W
Device Dimensions (W x H x D)	230mm x 26.2mm x 142.6mm/ 9.06" x 1.03" x 5.61"
Product Weight	0.83kg/1.83lb

Transmission Distance

Cable	Range	Supported Video
HDMI	Input/Output: 15m/50ft	1080P@60Hz 24bpp
	Input: 10m/33ft Output: 15m/50ft	4K@30Hz 4:4:4 24bpp 4K@60Hz 4:2:0 24bpp
	Input/Output: 5m/16ft	4K@60Hz 4:4:4 24bpp

Trouble Shooting

- 1 Power:** Please make sure all devices are powered on. (Source, switcher, display devices).
- 2 Indicator:** Please make sure LED indicators are normal according to user manual.
- 3 Device:** Please make sure picture can be shown normally when connecting source to display devices directly.
- 4 Cable:** Plug in and out HDMI/USB cable or try another HDMI/USB cable.
- 5 Compatibility:** Please test other source and display devices to determine whether it is a compatibility issue.

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 that 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 promised by salesman only but not covered by normal contract.
6. AV Access Technology Limited preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

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