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AV Access

4KSW41-H2

HDMI 2.0 Switcher 4 x 1



User Manual

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Contact Us

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Important Safety Instructions

- Do not expose this apparatus to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.
- 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 apparatus (including amplifiers) that produce heat.
- Do not place sources of naked flames, such as lighted candles, on the unit.
- Clean this apparatus only with dry cloth.
- Unplug this apparatus 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-H2 Switcher features HDMI 2.0 and HDCP 2.2 compatibility and supports resolutions up to 4K@60Hz 4:4:4 8bit, enabling four Ultra HD sources to be switched to one Ultra HD display. It also allows control through top panel button, IR remote and automatic switch.

Designed for simple installation and compact size, 4KSW41-H2 offers the convenience of future-ready Ultra HD AV switching, and the reliability of cutting-edge HDMI 2.0 and HDCP 2.2 compatibility.

Features

- Cost effective 4 to 1 HDMI switcher
- Fully compliant with HDMI 2.0 and HDCP 2.2
- HDMI inputs and output support up to 4K@60Hz 4:4:4 8bit
- HDMI input and output cable length up to 49ft/15m + 49ft/15m for 1080P, and up to 10ft/3m + 16ft/5m for 4K@60Hz 4:4:4
- Supports top panel button, IR remote and automatic switch control options
- Compact size and easy-to-install

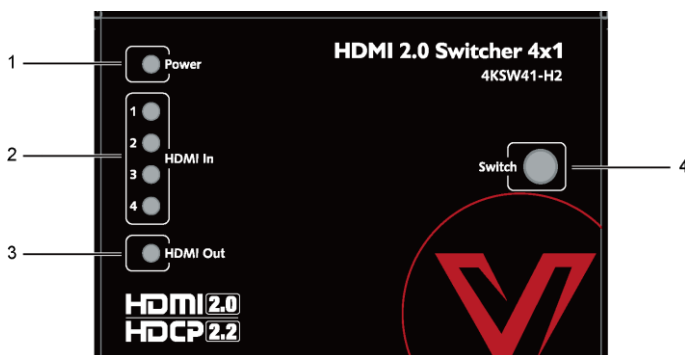
Package Contents

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

- 4KSW41-H2 Switcher x 1
- DC 5V Power Supply x 1
- Switcher IR Remote x 1
- IR Extension Cable (38KHz) x 1
- User Manual x1

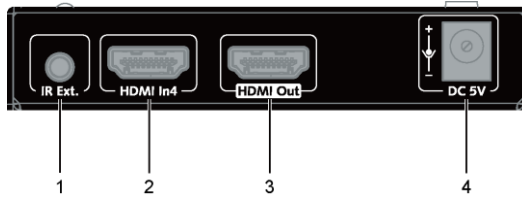
Panel

Top Panel



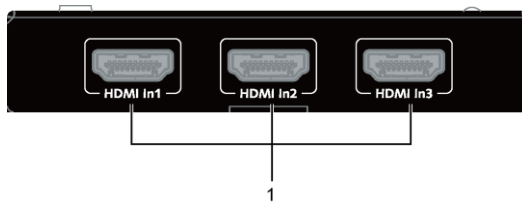
No.	Name	Description
1	Power LED (Red)	On: The switcher is powered on. Off: The switcher is powered off.
2	HDMI In 1-4 LED (Red)	On: The HDMI source is selected. Off: The HDMI source is not selected.
3	HDMI Out LED (Red)	On: An HDMI display is connected to the switcher. Off: No HDMI display is connected to the switcher.
4	Switch Button	Press to cycle through sources.

Front Panel



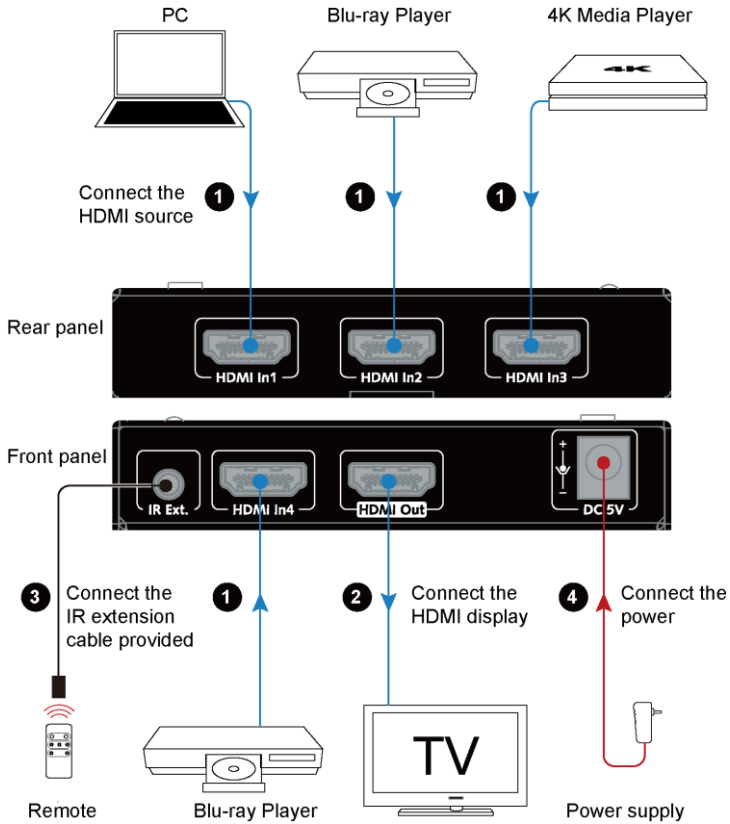
No.	Name	Description
1	IR Ext.	IR extension port. Connect to the IR extension cable provided.
2	HDMI In 4	Connect to an HDMI source.
3	HDMI Out	Connect to an HDMI display.
4	DC 5V	Connect to the power supply provided for DC 5V power input.

Rear Panel



No.	Name	Description
1	HDMI In 1-3	Connect to HDMI sources.

Installation Instructions



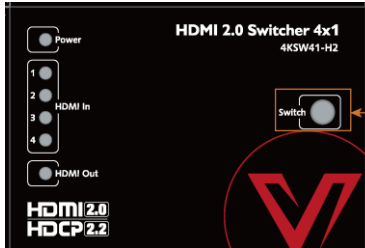
Note:

- The source may be any HDMI source device such as an Apple TV, Blu-ray player, STB, Xbox, etc.
- The display may be any HDMI display device such as a TV, projector, LED/LCD display, video wall, etc.

Control of the Switcher

You can choose to control 4KSW41-H2 at your convenience through top panel button, IR remote or automatic switch function.

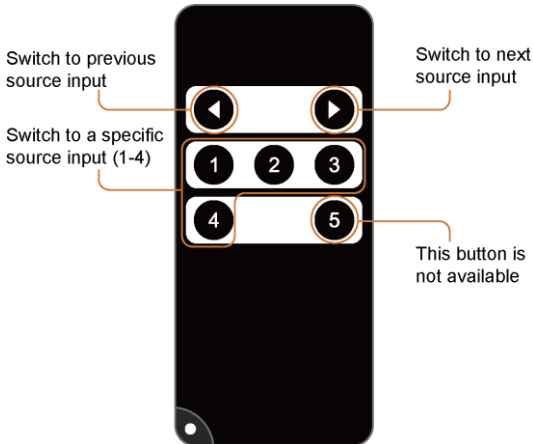
Top Panel Button Control










Press the Switch button to cycle through multiple sources.

IR Remote Control

4KSW41-H2 Switcher can be controlled by the IR remote provided. Point the remote directly at the IR extension cable connected to the "IR Ext." port and switch to the desired input source.



Button	IR Codes	Description
	0x02 0x0a	Switch to next active source input (Cycle 1→4).
	0x02 0x08	Switch to previous active source input (Cycle 4→1).
	0x02 0x04	Switch to source input 1.
	0x02 0x05	Switch to source input 2.
	0x02 0x06	Switch to source input 3.
	0x02 0x0c	Switch to source input 4.
	N/A	Not available.

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

Automatic Switch Control

4KSW41-H2 supports automatic switching and allows you to control it without staying near it or using the IR remote.

When the switcher is powered on, automatic switching will function as follows:

1. When HDMI sources are inserted, the switcher will switch to the latest connected source for output display.
2. When the HDMI source selected is removed, the switcher will switch to the active source with top priority for output display (Priority: input 1 > input 2 > input 3 > input 4).

Specification

Technical	
Video Signal Type	HDMI 2.0, HDCP 2.2
Input/Output Resolution Supported	<p>VESA:</p> <p>640x480⁸, 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1400x1050⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸</p> <p>SMPTE:</p> <p>720x480P⁸, 720x576P⁸, 1280x720P^{1,2,3,4,5,6,7,8}, 1920x1080I^{6,8}, 1920x1080P^{1,2,3,4,5,6,7,8}, 3840x2160^{2,3,5,6,8}, 4096x2160^{2,3,5,6,8}</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</p>
Audio Format Supported	PCM 2.0/5.1/7.1, Dolby True HD and DTS HD Master Audio
Maximum Data Rate	18Gbps
Control Method	IR control; Switch button control

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	±8kV(Air-gap discharge)/ ±4kV(Contact discharge)
Surge Protection	Voltage: ±1 kV
Power Consumption (Maximum)	1.735W
Device Dimension (W x H x D)	3.93" x 0.77" x 2.61"/ 100mm x 19.5mm x 66.2mm
Product Weight	0.49lb/0.22kg

Cable Specifications:

Cable Type	Range	Supported Video
HDMI	Input/Output: 49ft/15m	1080P@60Hz
	Input/Output: 33ft/10m	4K@60Hz 4:2:0 8bit
	Input: 10ft/3m Output: 16ft/5m	4K@60Hz 4:4:4 8bit

Trouble Shooting

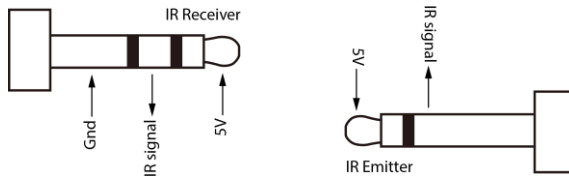
Steps of Regular Troubleshooting Routine

- 1 **Power:** Please make sure the source, display devices and switcher are powered on.
- 2 **Indicator:** Please make sure all LED indicators of the switcher are normal according to user manual.
- 3 **Devices:** Please make sure picture can be shown normally when connecting source to display device directly.
- 4 **Cable:** Plug in and out HDMI cable or try another HDMI cable. Ensure the specific cable length is within the available transmission range according to the Specification section.
- 5 **Compatibility:** Please test other source and display devices to determine if it is a compatibility issue.

Typical questions

1. How can I make the IR work with third party control devices?

- Please make sure the third party device follows our pin definition as below:



- You can purchase an AV Access universal IR cable that will be compliant with any third party device (Amazon ASIN: "B01MYX461C").

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.
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