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4KSW51

4K HDMI Switcher 5 x 1 with HDCP 2.2



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

4KSW51 is a 5 to 1 4K HDMI switcher. It is HDCP 2.2 compliant and supports resolutions up to 4K@60Hz 4:2:0 8bit. It provides auto switch, remote control and button control on top panel.

Features

- Cost effective 5 to 1 4K HDMI switcher
- Supports up to 4K@60 Hz 4:2:0 8bit
- HDCP 2.2 compliant
- HDMI input and output transmission distance up to 16ft/5m +16ft/5m at 1080P@60Hz, and up to 10ft/3m +10ft/3m at 4K@60Hz 4:2:0 8bit
- Can be powered by HDMI source devices
- Multi-channel PCM, Dolby and DTS HD audio supported up to 7.1
- Supports manual and auto switch
- Compact size for hidden installation

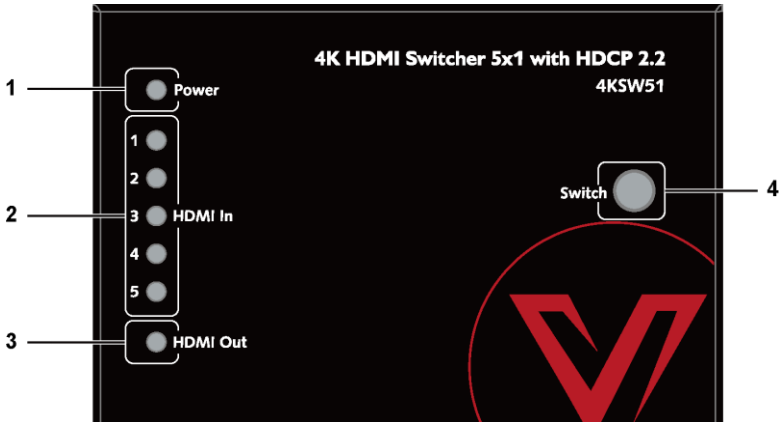
Package Contents

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

- 4KSW51 x1
- IR Remote x1
- IR Receiver x1
- User Manual x1

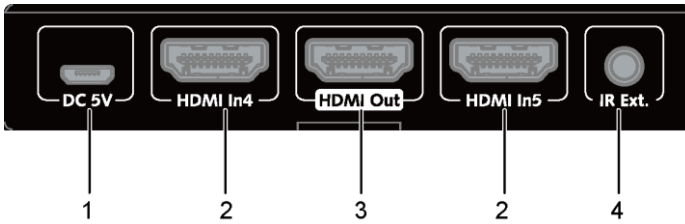
Panel

Top panel



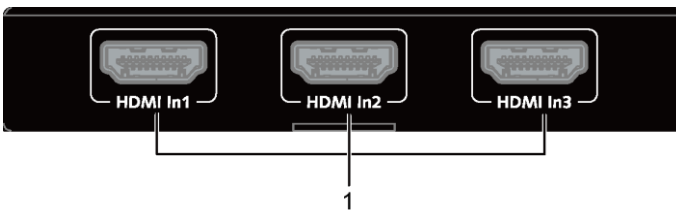
No.	Name	Description
1	Power LED	On: The device is powered on. Off: The device is powered off.
2	HDMI In LED	On: The source is selected. Off: The source is not selected.
3	HDMI Out LED	On: The device is connected to a sink. Off: The device is not connected to a sink.
4	Switch Button	Press to cycle through sources.

Front Panel



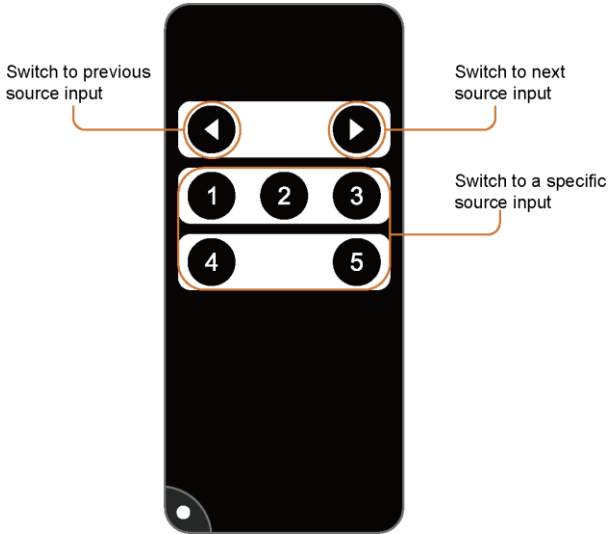
No.	Name	Description
1	DC 5V	DC 5V power supply input Note: When the switcher cannot be powered by HDMI source(s), it's required to connect to external power supply along a Micro-USB to USB-A cable, which is not included in the package.
2	HDMI In 4-5	Connect to HDMI sources.
3	HDMI Out	Connect to an HDMI display.
4	IR Ext.	IR extension port. Connect the IR receiver cable provided.

Rear Panel



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

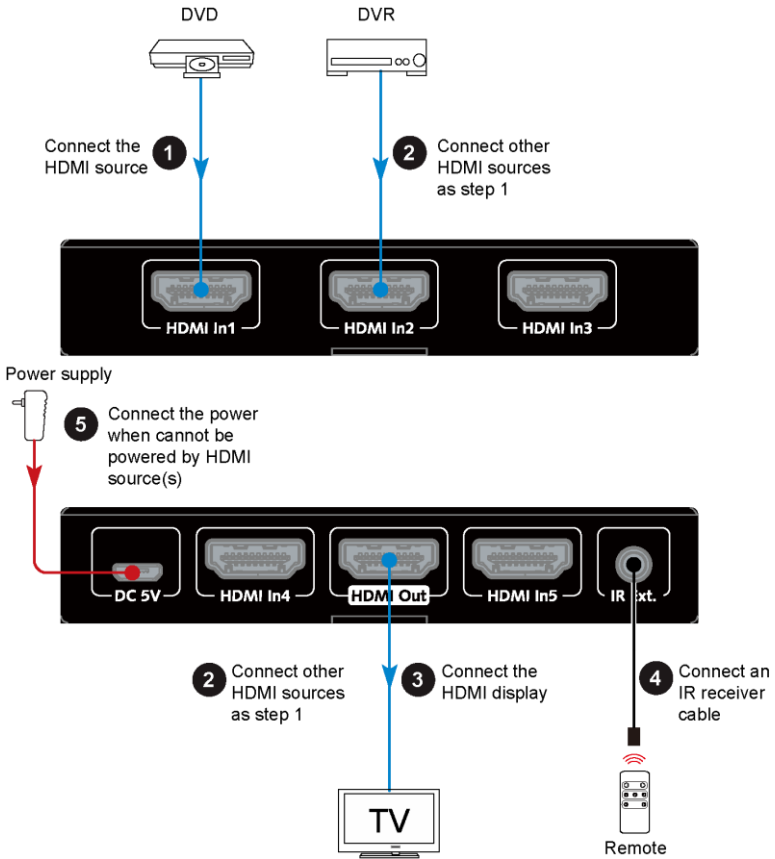
IR Remote Handset



Button	IR Codes	Description
▶	0x02 0x0a	Switch to next active source input (Cycle 1→5)
◀	0x02 0x08	Switch to previous active source input (Cycle 5→1)
1	0x02 0x04	Switch to source 1
2	0x02 0x05	Switch to source 2
3	0x02 0x06	Switch to source 3
4	0x02 0x0c	Switch to source 4
5	0x02 0x0e	Switch to source 5

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).

Installation Instructions



Installation Requirements

- The HDMI source may be any device such as Apple TV, STB, Xbox, Media player, DVD player, etc.
- The HDMI display may be any device such as TV, Monitor, Video wall, projector, etc.

- When the switcher cannot be powered by HDMI source(s), it's required to connect an external power supply via a USB cable as shown in step 5. USB cable is not included in the package.
- To ensure proper functionality, please set the resolution of the sources under 4K@60Hz 4:2:0 when the connected sources and sink support 4K@60Hz 4:4:4 8bit.

Auto-switch Function

With the auto-switch function, the switcher can switch to the last connected source input automatically without additional operations.

1. When a new HDMI source is inserted, the switcher will switch to it automatically.
2. When the selected HDMI source is removed, the switcher will switch to the first active source input automatically (Priority: 1>2>3>4>5).

Specification

Technical	
Video Signal type	HDMI with HDCP 2.2
Input/Output Resolution Supported	<p>SMPTE: 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>VESA: 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1400x1050⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸</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> <p>NOTE: 4096x2160/3840x2160@50Hz/60Hz is based on chroma sub-sampling 4:2:0 8-bit only.</p>
Audio Format	PCM 2.0/5.1/7.1, Dolby True HD and DTS HD Master Audio
TMDS Impedance	100Ω
Control Method	IR remote control, Top panel switch button control

General	
Power Consumption	0.25 W (Max)
Operating Temperature	32°F to 113°F (0°C to 45°C) 10% to 90%, non-condensing
Storage Temperature	-4°F to 158°F (-20°C to 70°C) 10% to 90%, non-condensing
Dimensions (W x D x H)	3.94" x 2.61" x 0.71" (100mm x 66.2mm x 18mm)
Weight	0.40lb (0.18kg)

Cable Specification:

Cable Type	Range	Supported Video
HDMI Cable	HDMI In: Up to 10ft (3m) HDMI Out: Up to 10ft (3m)	4K@60 Hz 4:2:0 8bit, 4K@30 Hz
	HDMI In: Up to 16ft (5m) HDMI Out: Up to 16ft (5m)	1080P@60Hz

Trouble Shooting

Steps of Regular Troubleshooting Routine

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

Typical Questions

1. **How to deal with video flash or cut off during the installation?**
 - Verify that all the indicators are solid on. If not, please check if the HDMI/USB cables are well connected.
 - Verify that the display device works properly and that the source devices have normal signal output. Also, make sure HDMI sources are under 4K@60Hz 4:2:0 8bit.
2. **How to deal with a weak or not working IR signal?**
 - Make sure the IR cable is correctly installed according to the diagram above.
 - Pay attention to the control angle and distance as below. The control signal will be better when the remote control is pointed at the IR receiver head directly.

Enabled Angle	0°	30°(Horizontal)	15°(Vertical)
Distance	26ft (Max)	16ft (Max)	10ft (Max)

3. Why all LED indicators are normal but the display cannot output signal?

- Since the switcher 4KSW51 supports up to 4K@60Hz 4:2:0 8bit, when the resolutions for both source and display devices are 4K@60Hz 4:4:4 8bit, the display device cannot output signal even if all LED indicators are normal.
- To fix this, please set the source devices' resolution to 4K@60Hz 4:2:0 8bit or lower.

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