

VigilLink VLSP-41H21E 48Gbps 4x1 HDMI Switcher



VigilLink VLSP-41H21E 48Gbps 4x1 HDMI Switcher User Manual

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VigilLink VLSP-41H21E 48Gbps 4x1 HDMI Switcher



Product Information

Specifications

- **Technical HDMI Compliance:** HDMI 2.1
- **HDCP Compliance:** HDCP 2.3
- **Video Bandwidth:** 48Gbps FRL and 18Gbps TMDS
- **Video Resolution:** Up to 8K@60Hz 4:2:0 12bit, 8K@30 4:4:4 12bit, 4K@120Hz 4:4:4 12bit
- **Color Depth:** 8/10/12bit
- **Color Space:** RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
- **HDMI Audio Formats:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, and more
- **Power Supply:** Input: AC 100~240V 50/60Hz, Output: DC 5V/1A
- **Power Consumption:** 3W (Max)
- **Operation Temperature:** Recommended 20-90% RH (non-condensing)
- **HDMI Cable Length:** 2m/6.6ft (IN/OUT), 5m/16ft (IN/OUT), 15m/49ft (IN/OUT)

Product Usage Instructions

Installation

1. Connect the HDMI input sources to the corresponding ports on the switcher.
2. Connect the HDMI output port of the switcher to your display device.
3. Connect the power supply to the switcher.

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended.

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Introduction

This 48Gbps 4×1 HDMI Switcher is an ultrathin auto switcher, with four HDMI video inputs and one HDMI output. The video resolutions is up to 8K@60Hz 4:2:0 12bit. It supports HDR 10, HDR 10+, Dolby Vision and multichannel

audio format. Built-in EDID DIP switch supports advanced EDID management. Furthermore, the firmware update at USB Type C port is supported.

Features

- HDMI 2.1 and HDCP 2.3 compliant
- Support 48Gbps FRL and 18Gbps TMDS video bandwidth
- 8K@60Hz 4:2:0 12bit, 8K@30 4:4:4 12bit, 4K@120Hz 4:4:4 12bit video support
- Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- HDMI 2.1 protocols: VRR, ALLM, QMS, QFT, SBTM are supported
- Support HDMI audio formats: LPCM 7.1CH, Dolby TrueHD, Atmos and DTS-HD Master Audio
- 4 x HDMI inputs routed to 1 x HDMI output
- Control via front panel button and IR remote
- Support auto input switching and manual input switching
- Advanced EDID management
- CEC control from TV at output to source at input

package Contents

1. 1 × 48Gbps 4×1 HDMI Switcher
2. 1 × IR Remote
3. 1 × 5V/1A Power Supply
4. 1 × User Manual

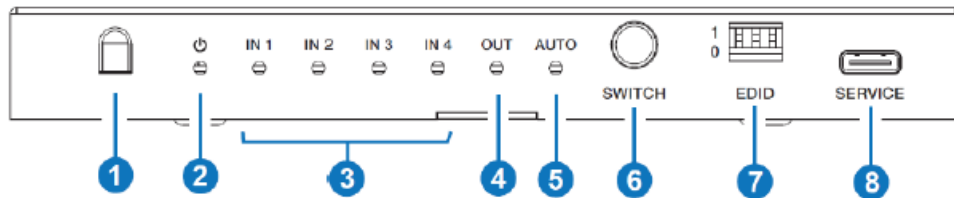
Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 8K@30 4:4:4 12bit, 4K@120Hz 4:4:4 12bit
Color Depth	8/10/12bit
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Connection	

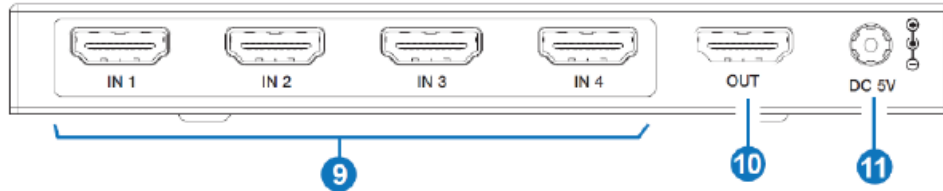
Input	4 × HDMI IN [Type A, 19-pin female]		
Output	1 × HDMI OUT [Type A, 19-pin female]		
Control	1 × SERVICE [USB Type C, Update port]		
Mechanical			
Housing	Metal		
Color	Black		
Dimensions	145mm (W) × 68mm (D) × 18mm (H)		
Weight	258g		
Power Supply	Input: AC 100~240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)		
Power Consumption	3W (Max)		
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F		
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F		
Relative Humidity	20~90% RH (non-condensing)		
Recommended HDMI Cable			
Video Resolution	8K60/8K30/4K120	4K60	1080P
HDMI Cable Length (HDMI IN / OUT)	2m/6.6ft	5m/16ft	15m/49ft
The use of “Premium High Speed HDMI” cable is highly recommended.			

Operation Controls and Functions

Front Panel



Rear Panel



No.	Name	Function Description
1	IR Window	IR signal receiving window.
2	POWER LED	When the device is powered on, the red power LED is on.
3	IN 1/2/3/4 LED	When the IN 1/2/3/4 port is selected as the signal source input channel, the corresponding green LED will be on.
4	OUT LED	When the displayer is connected, the green LED will be on.
5	AUTO LED	When the auto switching mode is enabled, the green LED will be on.
6	SWITCH button	Input signals switching button. - Short press this button to switch to the next input port. - Long press this button for 3 seconds to disable the auto switching mode.
7	EDID DIP switch	Use for EDID setting. 111-Copy OUT port sink EDID (as factory default) 110-4K@60Hz 4:4:4, Audio 2ch PCM 101-FRL 12G_8K_HDR, Audio 2ch PCM 100-FRL 12G_8K_HDR, Audio 5.1ch PCM/DTS/DOLBY

		011-FRL 12G_8K_HDR, Audio 7.1ch PCM/DTS/DOLBY/HD 010-FRL 10G_8K_HDR, Audio 2ch PCM 001-FRL 10G_8K_HDR, Audio 5.1ch PCM/DTS/DOLBY 000-FRL 10G_8K_HDR, Audio 7.1ch PCM/DTS/DOLBY/HD
8	SERVICE	USB Type C port, used to update MCU firmware.
9	IN 1/2/3/4 port	HDMI signal input ports, connected to HDMI source device such as DVD or PS5 with an HDMI cable.
10	OUT port	HDMI signal output port, connected to HDMI display device such as TV or Monitor with an HDMI cable.
11	DC 5V	DC 5V/1A power input port.

IR Remote

Auto

Press this button to enable or disable auto-switching for input signal sources.

1/2/3/4 :

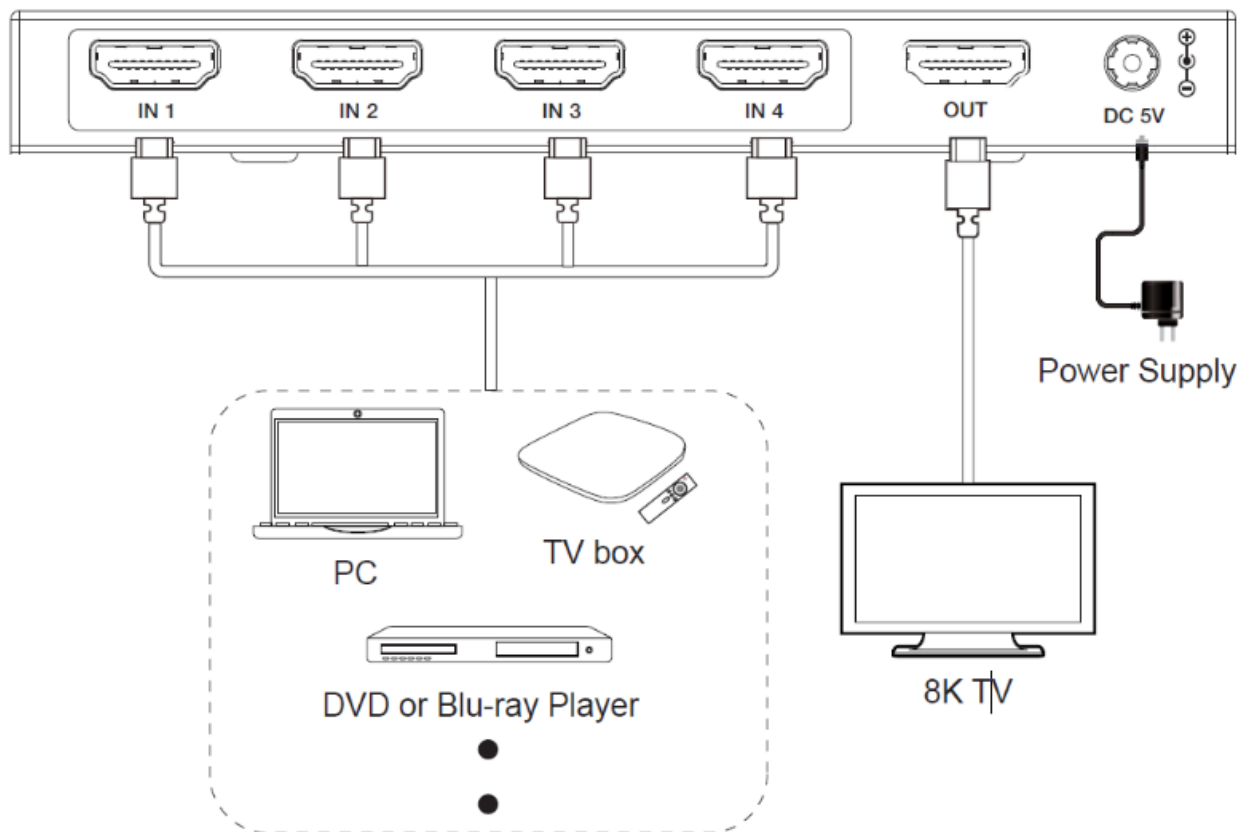
Press 1/2/3/4 button to select the corresponding signal input channel.



Press this button to circularly switch HDMI signal source IN 1/2/3/4 to the OUT port.



Application Diagram



The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Documents / Resources

 VigilLink 48Gbps 4x1 HDMI Switcher VLSP-41H21E	VigilLink VLSP-41H21E 48Gbps 4x1 HDMI Switcher [pdf] User Manual VLSP-41H21E 48Gbps 4x1 HDMI Switcher, VLSP-41H21E, 48Gbps 4x1 HDMI Switcher, 4x1 H DMI Switcher, HDMI Switcher, Switcher
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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