



QUICK START GUIDE

HDMI 2.1 8K Bi-Directional Switch

UHD-2180

Switch Mode : 2 in 1 out
Splitter Mode : 1 in 2 out

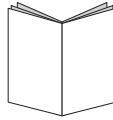


PACKAGE CONTENTS

1. Bi-directional Switch



2. Quick Start Guide

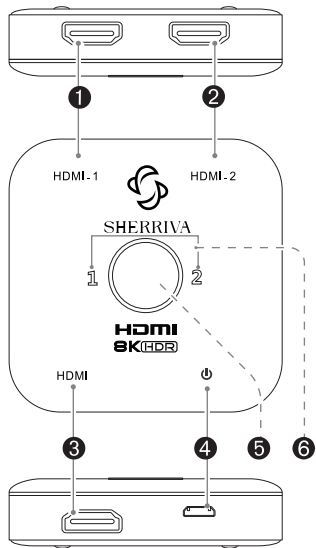


FEATURES

- HDMI 2.1 8K@60Hz
- HDMI 2.1 4K@165, 144, 120, 60 Hz
- Bi-Directional function
 - Switch mode: 2 to 1
 - Splitter mode: 1 to 2
- Supports HDR
- Support Video Data Rate 48Gbps
- Power by HDMI
- HDCP 2.3 compliant

SWITCH MODE-

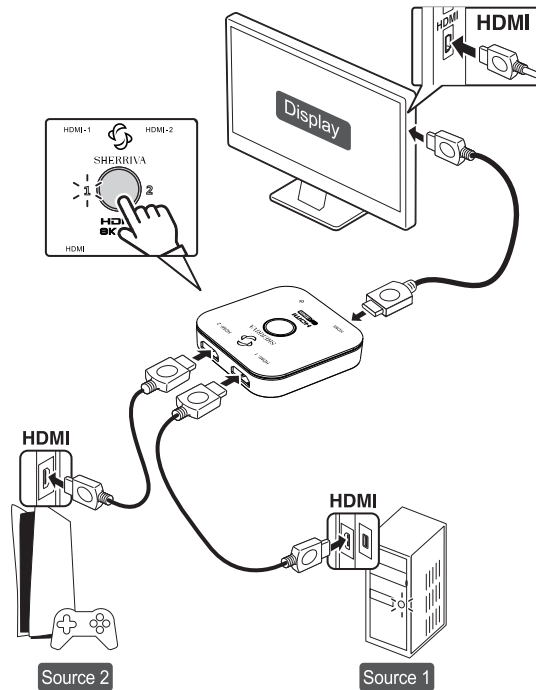
PRODUCT OVERVIEW



NO.	Name	Description
1	HDMI Input 1	HDMI signal input port. Connect HDMI source devices like PS5, Xbox, etc.
2	HDMI Input 2	
3	HDMI output	HDMI signal output port. Connect to display devices like monitors, TV, etc.
4	DC 5V (Micro- USB)	When the HDMI cable power from your source is low, you can supplement it with Micro USB power.
5	Select Button	Press this button to switch between two input sources.
6	Indication LED	When the LED is lit, it shows the input source is in the corresponding port.

SWITCH MODE- 2 TO 1

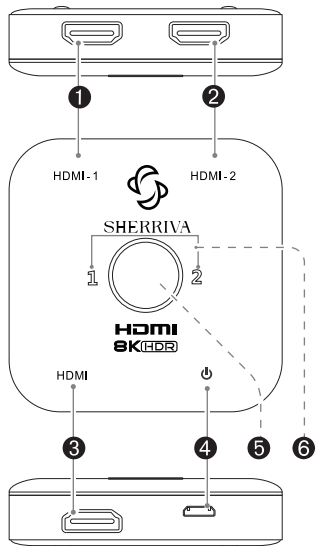
CONNECTION



- 1 Connect with the sources
- 2 Connect with the display device
- 3 Press the select button to switch between two input sources

SPLITTER MODE-

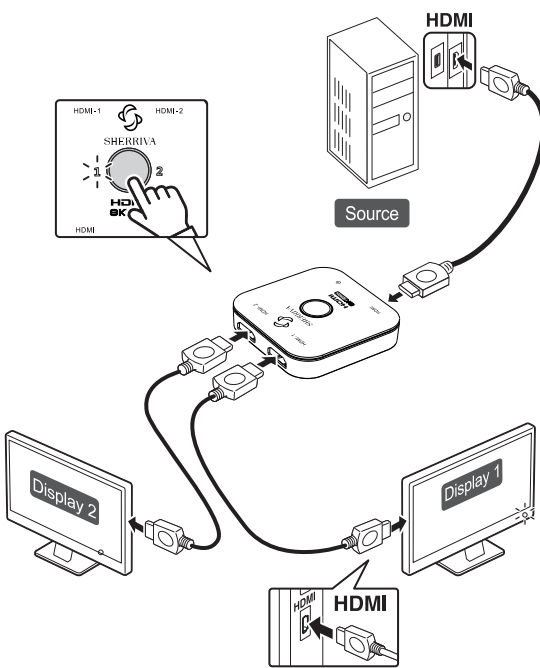
PRODUCT OVERVIEW



NO.	Name	Description
1	HDMI output 1	HDMI signal output port. Connect to display devices like monitors, TV, etc *Both displays cannot be active simultaneously.*
2	HDMI output 2	
3	HDMI input	HDMI signal input port. Connect HDMI source devices like PS5, Xbox, etc.
4	DC 5V (Micro- USB)	When the HDMI cable power from your source is low, you can supplement it with Micro USB power.
5	Select Button	Press this button to switch between two output displays.
6	Indication LED	When LED lights up, corresponding display activates.

SPLITTER MODE- 1 TO 2

CONNECTION



- 1 Connect with the displays
 - 2 Connect with the source device
 - 3 Press the select button to switch between two displays
- *Only one monitor is displayed.**

SPECIFICATIONS

Bi-Directional	
Switch mode	2 inputs 1 output
Splitter mode	1 input 2 outputs
General	
HDMI Version	HDMI 2.1(8K)
HDCP Compliance	HDCP 2.3
Video Bandwidth	48 Gbps
Resolution (max.)	8K@60Hz (max.)
Video Format	8K@60, 4K@165 / 4K@144 / 4K@120 / 4K@60, 1080@240 / 1080@165 / 1080@144 / 1080@120 / 1080@60, HDR
Audio Format	PCM 2 / PCM 5.1 / PCM 7.1 Dolby TrueHD, Dolby 5.1 / Dolby 7.1 / Dolby Atmos

Connectivity	
HDMI-1	Type A 19-pin female
HDMI-2	Type A 19-pin female
HDMI	Type A 19-pin female
CEC Passthrough	Support
Power	By HDMI / Micro USB

※ Specification subject to change without further notice.

NOTICE

- Manufacturer reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.
- The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
- UHD-2180 incorporates HDMI® technology.
- Dolby is a registered trademark of Dolby Laboratories.
- DTS is a registered trademark & the DTS logos and Symbol are trademarks of DTS, Inc.
- PS5 is a trademark of Sony Computer Entertainment Inc.

Please Scan the QR code to watch a video on How to use the product.



Video



User manual



Q: No Signal After HDMI Connection.
How Can I Troubleshoot It?

- A :** Please follow the steps below to isolate and resolve the issue for optimal performance.
- 1. Test Direct Connection**
Disconnect the UHD-2180 and connect the source directly to the display to confirm the devices are working properly.
- 2. Check HDMI Cables**
Ensure all HDMI cables are securely connected.
If transmitting 8K or high refresh rate 4K content, please make sure to use an HDMI 2.1 UHS-certified cable to ensure signal transmission quality.
- 3. Verify Device Power**
Make sure the power LED on UHD-2180 is lit. If not, connect a 5V Micro USB power supply.
Check whether the signal source indicator light on the host is on. If it is off or flashing, please connect a 5V Micro USB external power supply.
- 4. Reset Devices**
Disconnect all HDMI cables and power. Wait 10 seconds, then reconnect devices in order: Source → UHD-2180 → Display.

Q: No Signal After HDMI Connection.
How Can I Troubleshoot It?

- A :** **1. Confirm 8K Support**
Make sure both your source and display support 8K@60Hz.
- 2. Use Certified HDMI 2.1 Cable**
Use UHD-certified HDMI 2.1 cables to prevent resolution fallback or signal issues.
- 3. Adjust Output Settings**
Please confirm that the video output setting of the signal source is set to 8K@60Hz.
- 4. Cable Length**
Keep cable length within 2 meters for both input and output.

Q: Does the UHD-2180 Support Dual Monitor Output?

- A :** The UHD-2180 supports Switch Mode (2-in-1-out) and Splitter Mode (1-in-2-out), **but cannot display on two monitors simultaneously.**
If simultaneous output is required, please use a dedicated HDMI splitter.

Q: Why Does the Screen Go Black When Switching Signals?

- A :** A short black screen (1–2 seconds) is normal during HDMI re-handshaking.
When switching HDMI signals, the SOURCE and SINK devices will undergo a reconnection process. During this time, no video signal is transmitted, causing the display to temporarily go black.
After approximately 5 to 10 seconds (depending on the display’s signal processing time), the SOURCE image will appear on the display.
If the black screen lasts too long, try lowering the resolution, using a high-quality cable.

Q: Does the UHD-2180 Require External Power?

- A :** The device uses **low power** and usually runs via HDMI power.
If the source cannot supply enough power (e.g., laptops or set-top boxes), use a **5V Micro USB** adapter.

Q: Why Does It Say 4K 240Hz Is Supported, But I Only Get 165Hz?

- A :** UHD-2180 supports up to 4K@240Hz, but actual output depends on **source and display compatibility.**
Some displays only support 4K at 165Hz, 144Hz, or 120Hz. If you want to play games at 240Hz, please use a display that supports 240Hz.
Please use an HDMI 2.1 UHS-certified cable for high refresh rate transmission at 240Hz.

Q: Do I Need Special HDMI Cables?

- A :** Yes. Use HDMI 2.1 UHD certified cables to ensure signal quality and performance.
- Testing is conducted using a 48G (DSC OFF) standard instrument, with a recommended length of 2 meters at both the front and back.
Typically, the SOURCE uses DSC mode for image transmission (which requires a lower bandwidth).
Therefore, the extendable length will be longer than 2 meters + 2 meters.
The actual extendable length is determined by the output level of the SOURCE.

Q: Does UHD-2180 Support CEC (Consumer Electronics Control)?

- A :** The UHD-2180 CEC adopts a passthrough design, enabling CEC control interaction between the SOURCE and SINK devices.
Ensure both source and display support and have **CEC enabled.**