



## OREI UHD-404 18Gbps 4x4 HDMI Matrix User Manual

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### OREI UHD-404 18Gbps 4x4 HDMI Matrix User Manual



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#### Introduction

The 4x4 HDMI Matrix supports the transmission of video signal (up to 4K2K@60Hz YCbCr 4:4:4) with multichannel digital audio from up to four high definition sources to up to four HDMI outputs. Each output supports downscaler functionality. It can display the same or different screen on four displays (the user can choose the display screen for any signal source). Also, the product has distribution mode and switching mode.

Features

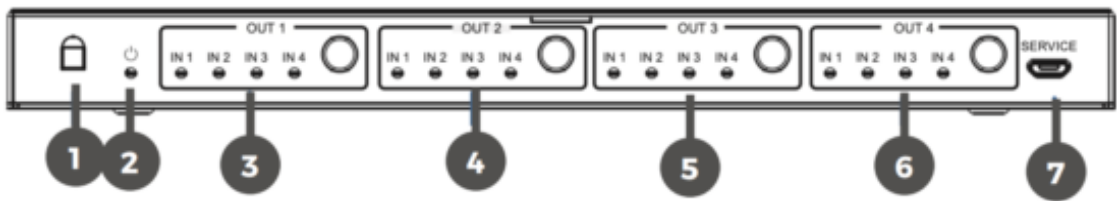
- 1. HDCP 2.2 compliant
- 2. Up to 4K2K@60Hz with 24bit RGB/YCbCr 4:4:4
- 3. HDR, HDR10, HDR10+, Dolby Vision passthrough
- 4. Support LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio ☆ Support 4K -> 1080P Downscaler
- 5. Support advanced EDID management
- 6. Flexible control via panel or IR remote control

Package Contents

1.	4x4 HDMI Matrix	1pcs
2.	12V/2.5A Power Adapter	1pcs
3.	Matrix IR Remote Control	1 pcs
4.	Mounting Ears	2 pcs
5.	User Manual	1 pcs

Operation controls and functions

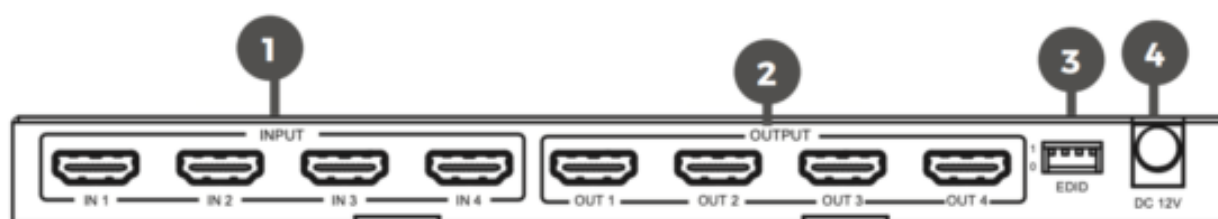
Front Panel



No.	Name	Function/Description
1.	IR	TIR receive window



2.	<b>POWER LED</b>	The red LED illuminates when the device is working or on standby.
3.	<b>OUT 1</b>	<p><b>Button:</b> Short press to switch the input selected by OUT 1; Long press for 3s to turn on/off the downscale corresponding to OUT 1.</p> <p><b>LED:</b> When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up.</p>
4.	<b>OUT 2</b>	<p><b>Button:</b> Short press to switch the input selected by OUT 2; Long press for 3s to turn on/off the downscale corresponding to OUT 2.</p> <p><b>LED:</b> When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up.</p>
5.	<b>OUT 3</b>	<p><b>Button:</b> Short press to switch the input selected by OUT 3; Long press for 3s to turn on/off the downscaler corresponding to OUT 3.</p> <p><b>LED:</b> When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up.</p>
6.	<b>OUT 4</b>	<p><b>Button:</b> Short press to switch the input selected by OUT 4; Long press for 3s to turn on/off the downscale corresponding to OUT 4.</p> <p><b>LED:</b> When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up.</p>
7.	<b>SERVICE</b>	Connect to PC via Micro to USB cable for firmware upgrade.

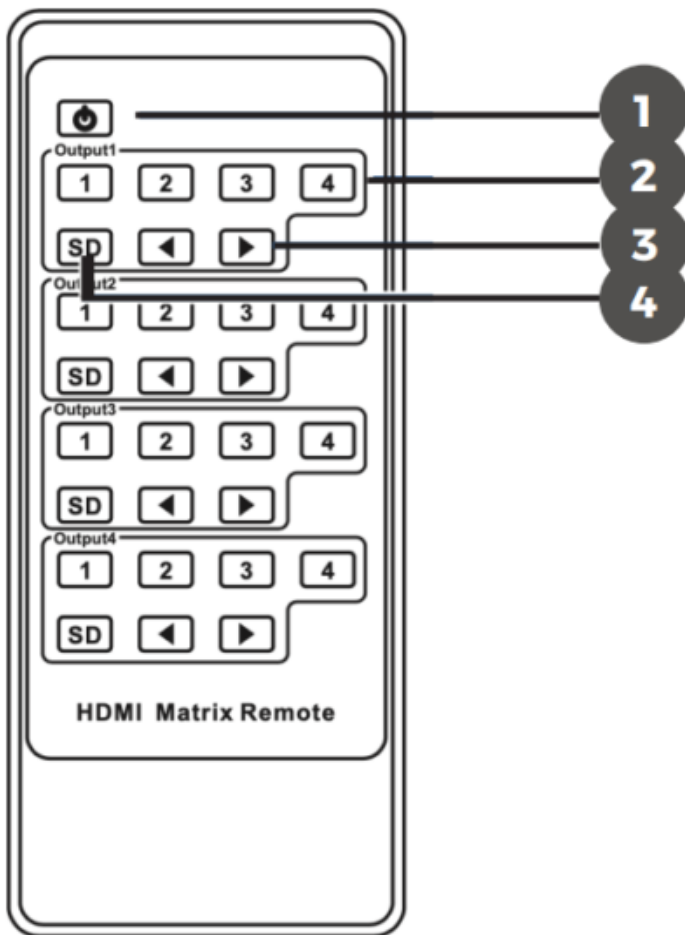
#### Rear Panel



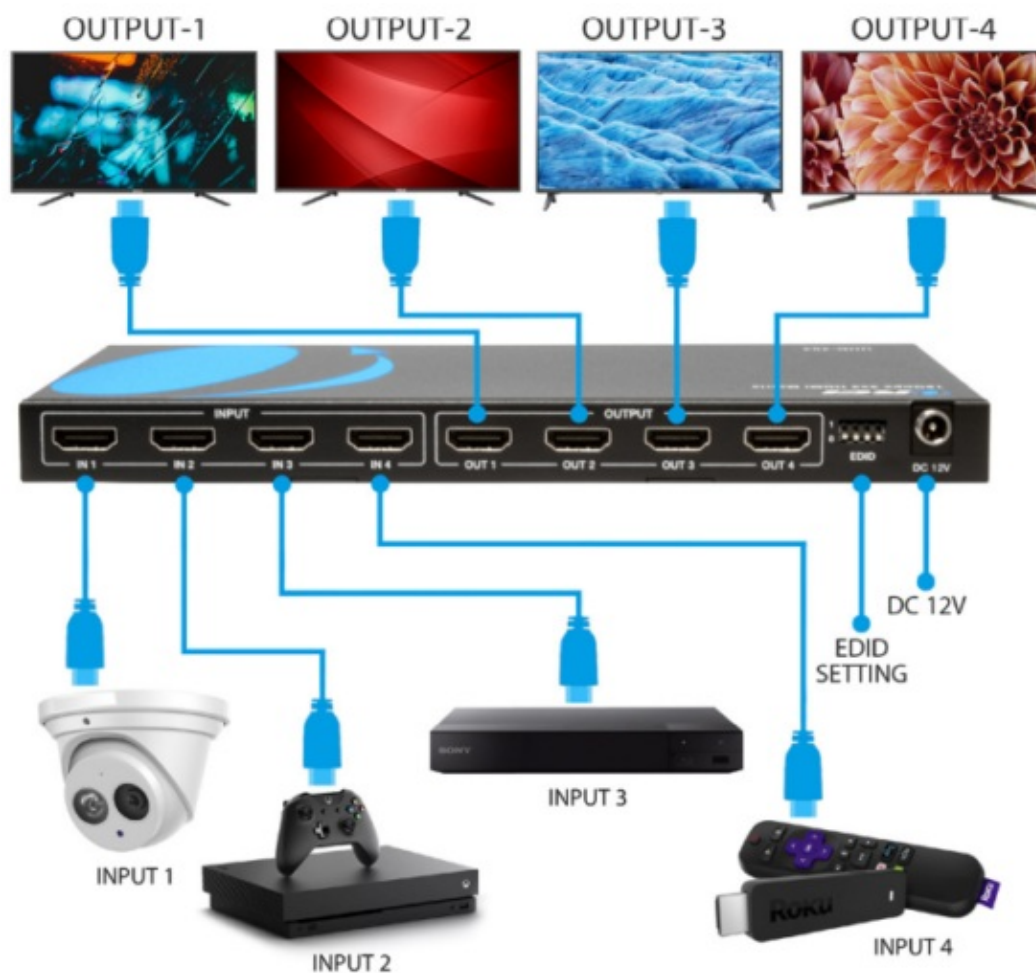
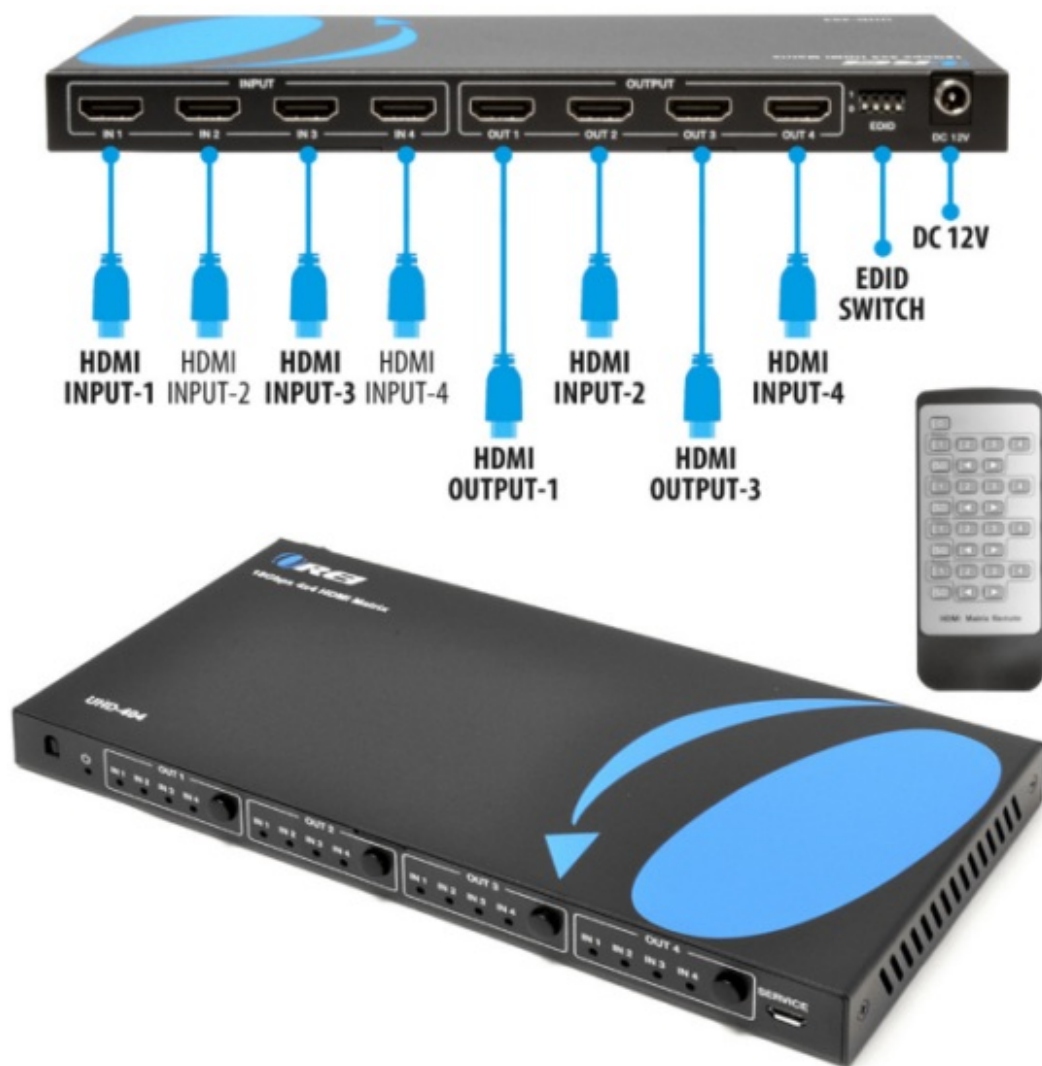
No.	Name	Function/Description
1.	<b>INPUT</b>	Connect to HDMI source device such as DVD player or PC.
2.	<b>OUTPUT</b>	Connect to HDMI display device such as TV or Projector.
3.	<b>EDID</b>	<p>EDID SWITCH control.</p> <p>0000 1080P, Stereo Audio 2.0  0001 1080P, Dolby/DTS 5.1  0010 1080P, HD Audio 7.1  0011 4K2K30_444, Stereo Audio 2.0  0100 4K2K30_444, Dolby/DTS 5.1  0101 4K2K30_444, HD Audio 7.1  0110 4K2K60_444, Stereo Audio 2.0 SDR  0111 4K2K60_444, Dolby/DTS 5.1 SDR  1000 4K2K60_444, HD Audio 7.1 SDR  1001 4K2K60_444, Stereo Audio 2.0 HDR  1010 4K2K60_444, Dolby/DTS 5.1 HDR  1011 4K2K60_444, HD Audio 7.1 HDR  1100 COPY OUTPUT 1  1101 COPY OUTPUT 2  1110 COPY OUTPUT 3  1111 COPY OUTPUT 4</p>
4.	<b>DC 12V</b>	DC 12V power supply interface.

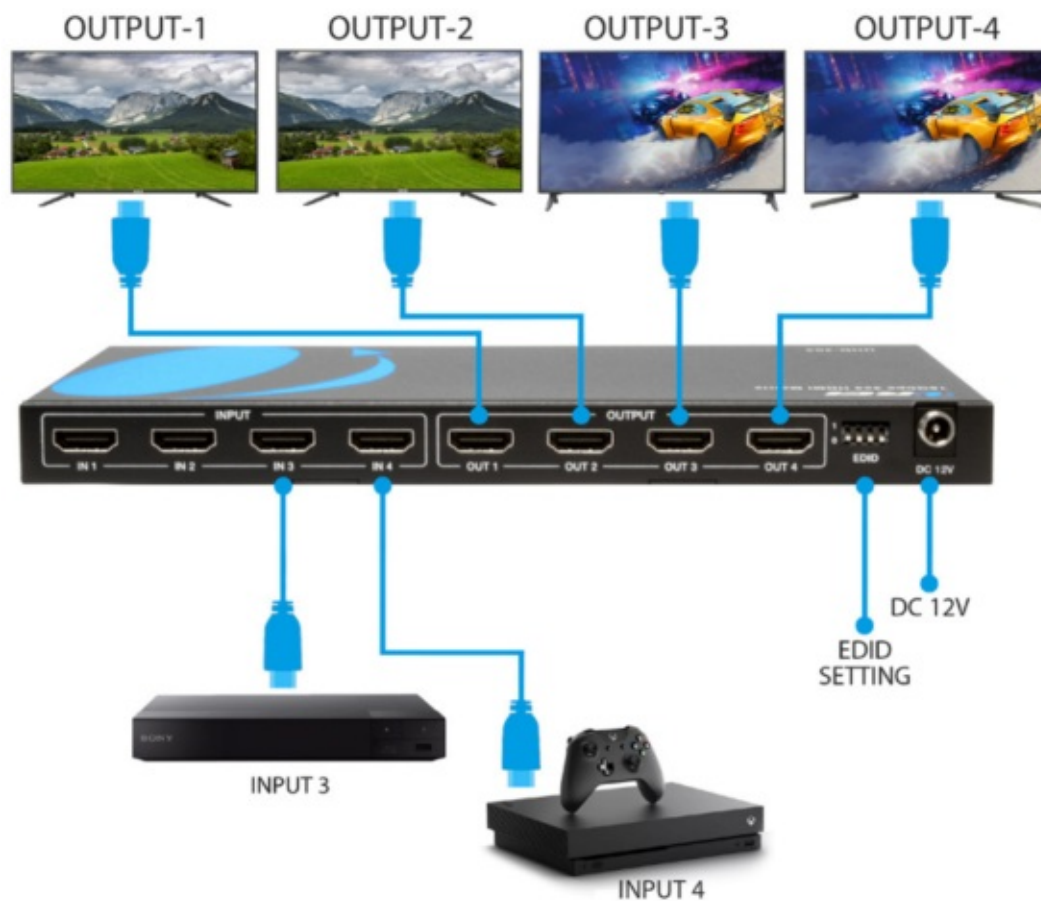
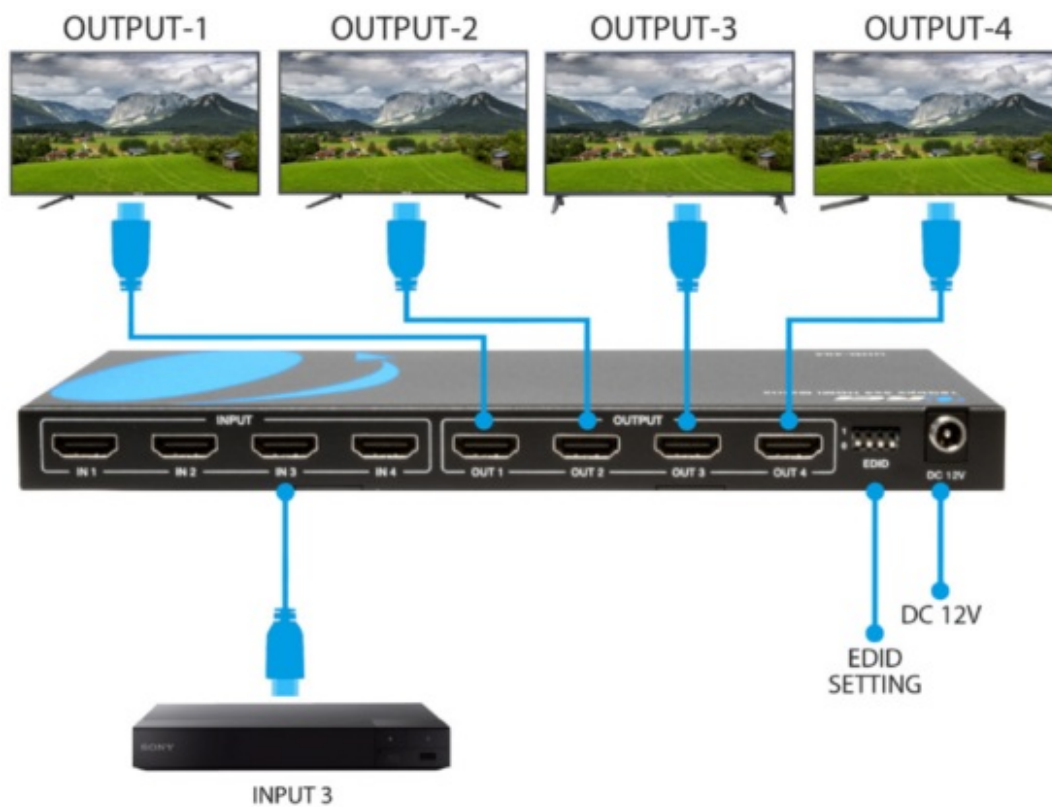
## Remote Control

1. **Power button:** Press this button to power on the device or put it into standby mode.
2. **1/2/3/4:** Press buttons 1~4 to select the required source for Output1.
3.   Select the last or next input channel among 1/2/3/4, to select the required source for Output1.
4. **SD:** Press this button to turn on / off the downscaler function.
5. The corresponding button function of Output2/ Output3/Output4 is the same with that of Output1.



## Application Example





## Specification

Technical

	<b>HDCP Compliant</b>	HDCP 2.2 / 1.x
	<b>Video Bandwidth</b>	594MHz / 18Gbps
	<b>Video Resolution</b>	480i ~ 1080p 50/60Hz, 4Kx2K@24/30Hz, 4K2K@60Hz
	<b>Color Space</b>	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
	<b>Color Depth</b>	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2 / 4:2:0)
	<b>HDMI Audio Formats</b>	LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
	<b>ESD Protection</b>	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
	<b>Connections</b>	
	<b>Inputs Ports</b>	4×HDMI Type A [19-pin female] 1×IR Receiver Window 1 ×Micro USB
	<b>Outputs Ports</b>	4×HDMI Type A [19-pin female]
	<b>Mechanical</b>	
<b>Housing</b>	Metal Enclosure	
<b>Color</b>	Black	
<b>Dimensions</b>	220mm(W)×205mm(D)×19mm(H)	



<b>Weight</b>	535g	
<b>Power Supply</b>	Input: AC100~240V 50/60Hz Output: DC 12V/2.5A(US/EU standard, CE/FCC/ UL certified)	
<b>Power Consumption</b>	11.04W	
<b>Operating Temperature</b>	0°C ~ 40°C / 32°F ~ 104°F	
<b>Storage Temperature</b>	-20°C ~ 60°C / -4°F ~ 140°F	
<b>Relative Humidity</b>	20~90% RH (non-condensing)	

## Registration

Please Activate your warranty by registering your product through the link below – [www.orei.com/register](http://www.orei.com/register)

## Technical Support

### Need Help?

Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

### OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. – 6 p.m. Central Time **Support Email** – | [info@orei.com](mailto:info@orei.com)  
**Support Number** – 877-290-5530

Or

### Chat Live on [www.orei.com](http://www.orei.com)

Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

**Scan the QR code to watch a Video of How to Use the product.**




Please Activate your Warranty by registering your product through the link below. – [www.orei.com/register](http://www.orei.com/register)

### 18Gbps 4x4 HDMI Matrix

<http://www.orei.com/>



### Documents / Resources

	<p><a href="#">OREI UHD-404 18Gbps 4x4 HDMI Matrix</a> [pdf] User Manual UHD-404 18Gbps 4x4 HDMI Matrix, UHD-404, 18Gbps 4x4 HDMI Matrix</p>
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### References

- [OREI | Pro AV Solutions & Audio Video HDMI Accessories – OREI.COM](#)
- [OREI | Warranty Registration Form - OREI – OREI.COM](#)