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18Gbps 4x4 HDMI MatrixUSER MANUAL

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Thank you for purchasing this product

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

Surge protection device recommended

This product contains sensitive electrincal 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.

Registration page

Please Activate your warranty by registering your product through the link below - 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 | **Support Number** - 877-290-5530

Or

Chat Live on 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**



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
- Up to 4K2K@60Hz with 24bit RGB/YCbCr 4:4:4
- 3. HDR, HDR10, HDR10+, Dolby Vision passthrough
- 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.	4×4 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	

Specification

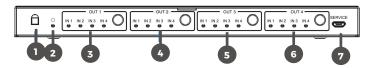
Technical	
HDCP Compliant	HDCP 2.2 / 1.x
Video Bandwidth	594MHz / 18Gbps
Video Resolution	480i ~ 1080p 50/60Hz, 4Kx2K@24/30Hz, 4K2K@60Hz
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2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

Specification

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	220mm(W)×205mm(D)×19mm(H)
Weight	535g
Power Supply	Input: AC100-240V 50/60Hz Output: DC 12V/2.5A(US/EU standard, CE/FCC/ UL certified)
Power Consumption	11.04W
Operating 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)

Operation controls and functions

5.1 Front Panel



No.	Name	Function/Description
1.	IR	TIR receive window
2.	POWER LED	The red LED illuminates when the device is working or on standby.
3.	OUT 1	Button: Short press to switch the input selected by OUT 1: Long press for 3s to turn on/off the downscaler corresponding to OUT 1. LED: When switching to the corresponding input source, the correspongding input LED illuminates green: Otherwise, the LED will not light up.
4.	OUT 2	Button: Short press to switch the input selected by OUT 2: Long press for 3s to turn on/off the downscaler corresponding to OUT 2. LED: When switching to the corresponding input source, the correspongding input LED illuminates green: Otherwise, the LED will not light up.
5.	OUT 3	Button: Short press to switch the input selected by OUT 3; Long press for 3s to turn on/off the downscaler corresponding to OUT 3. LED: When switching to the corresponding input source, the correspongding input LED illuminates green; Otherwise, the LED will not light up.
6.	OUT 4	Button: Short press to switch the input selected by OUT 4: Long press for 3s to turn on/off the downscaler corresponding to OUT 4. LED: When switching to the corresponding input source, the correspongding input LED illuminates green; Otherwise, the LED will not light up.
7.	SERVICE	Connect to PC via Micro to USB cable for firemware upgrade.

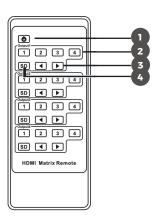
Operation controls and functions

5.2 Rear Panel



No.	Name	Function/Description	
1.	INPUT	Connect to HDMI source device such as DVD player or PC.	
2.	ОИТРИТ	Connect to HDMI display device such as TV or Projector.	
3.	EDID	EDID SWITCH control. 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, Estereo Audio 2.0 SDR 0111 4K2K60_444, Dolby/DTS 5.1 SDR 1000 4K2K60_444, HD Audio 7.1 SDR 1001 4K2K60_444, HD Audio 7.1 SDR 1001 4K2K60_444, Dolby/DTS 5.1 HDR 1010 4K2K60_444, Dolby/DTS 5.1 HDR 1011 4K2K60_444, HD Audio 7.1 HDR 1010 COPY OUTPUT 1 1101 COPY OUTPUT 3 1111 COPY OUTPUT 3	
4.	DC 12V	DC 12V power supply interface.	

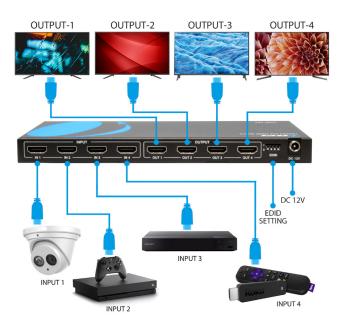
Remote Control

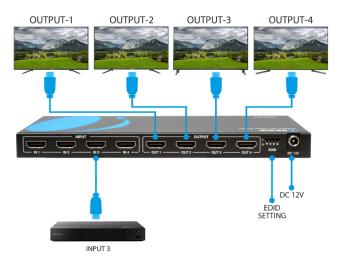


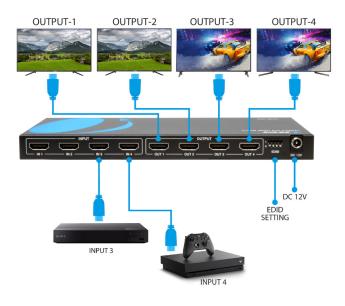
- **Power button:** Press this button to power on the device or put it into standby mode.
- 1/2/3/4: Press buttons 1~4 to select the required source for Output1.

- 4
- Select the last or next input channel among 1/2/3/4, to select the required source for Output1.
- SD: Press this button to turn on / off the downscaler function.
- The corresponding button function of Output2/
 Output3/Output4 is the same with that of Output1.









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