

# **VALUE HDMI 4x2 Matrix, 4K60Hz**

**14.99.3591**

**User Manual**

# Package Content

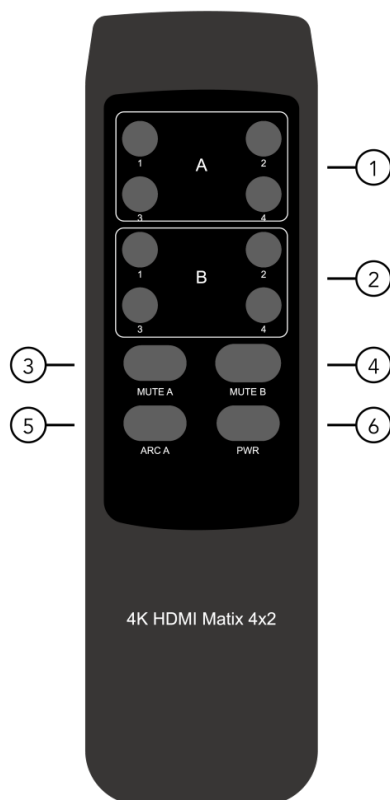
Main Unit

Remote Control

USB Power Adapter

USB-A to USB-C Power Cable

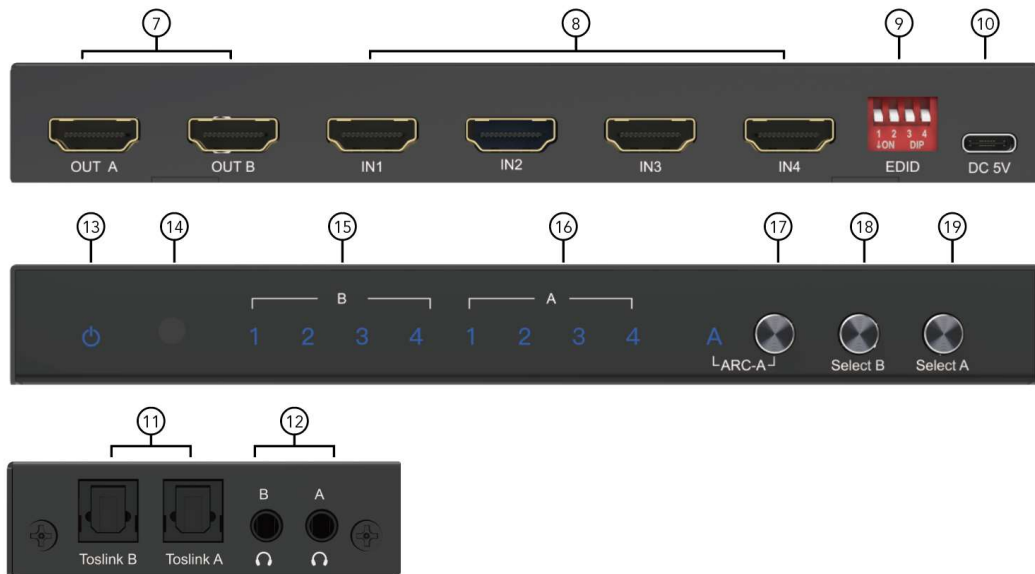
## IR Remote



Remote Control Size: 145 x 42.5 x 20.5 mm

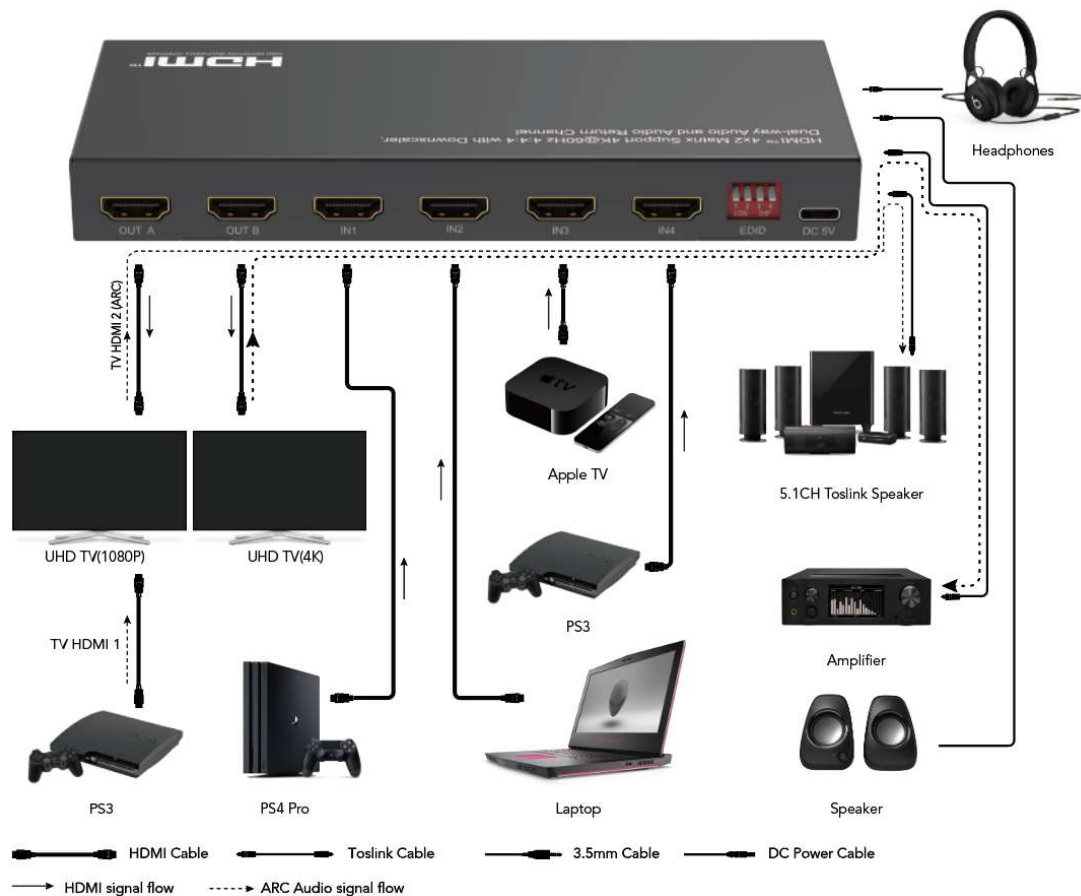
- 1, 2, 3, 4 (A): select the corresponding video source for output A.
- 1, 2, 3, 4 (B): select the corresponding video source for output B.
- MUTE A: Turn off/on the OUTPUT A extract audio.
- MUTE B: Turn off/on the OUTPUT B extract audio.
- ARC A: Turn off/on the Audio Return Function (ARC) for OUTPUT A port
- PWR: press to turn on the matrix, press again to turn it off.

## Panel Description



7. HDMI Outputs A/B
8. HDMI Inputs 1-4
9. EDID mode Select DIP-Switch
10. DC 5V Input
11. Toslink Audio Output Port A/B
12. Stereo Audio Output Port A/B
13. Power LED Indicator
14. IR Signal Receiver Port
15. Output B Port Selected, Input 1-4 LED
16. Output A Port Selected, Input 1-4 LED
17. ARC mode On/Off button and LED indicator for output A. The TV must support ARC for this button to work. When ARC is switched on, the sound from the TV is output via the Toslink ports.  
LED On: ARC turned on, then TV audio output via Toslink ports  
LED Off: ARC turned off, then HDMI audio output by Stereo and Toslink ports
18. Output B Switch Button
19. Output A Switch Button

# Connection Diagram



## Introduction

The 4K HDMI™ matrix allows you to share up to 4 different HDMI™ or DVI inputs (with HDMI™ to DVI adapters - not included) with audio on 2 different displays or projectors. The matrix has an LED light on the front for easy status monitoring and wireless IR control for convenient control from distance. Ideal for connecting and switching multiple sources in data centers, help desks and video broadcast facilities. Perfect for digital signage applications in retail environments that require more than one media player.

## Features

- Audio output simultaneously: Stereo and Toslink
- Audio channels are selectable via remote control
- Downscale function: means the product can downscale the input 4K resolution to 1080p for FHD (1080p) displays and 4K resolution for 4K displays in the 1x4 splitter mode simultaneously.
- Video resolution up to 4K@60Hz YUV 4:4:4
- High Dynamic Range (HDR) video
- Dual-way audio extraction for both output A and output B
- Audio Return Channel (ARC), only output A supports ARC function
- HDCP2.2 and HDCP1.4

- 600MHz/6Gbps per channel (18Gbps all channels) bandwidth
- 12 bit per channel (36bit all channels) deep color
- Uncompressed audio such as LPCM
- Compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio™ and Dolby TrueHD)
- Full 3D
- EDID control (management) function

### EDID control (management) function

Switch up for 0 (↑=LOW)/  Switch down for 1(↓=HIGH)

Mode	DIP Switch status				EDID Setting Description	↑=LOW ↓=HIGH
	1	2	3	4		
Mode1	0	0	0	0	Copy EDID from HDMI Output A	
Mode2	0	0	0	1	1080p, 2CH AUDIO	
Mode3	0	0	1	0	1080p, DOLBY/DTS 5.1	
Mode4	0	0	1	1	1080p, HD AUDIO	
Mode5	0	1	0	0	1920x1200p, 2CH AUDIO	
Mode6	0	1	0	1	1920x1200p, DOLBY/DTS 5.1	
Mode7	0	1	1	0	1920x1200p, HD AUDIO	
Mode8	0	1	1	1	4Kx2K@60, 10.2G, HDR10, 2CH AUDIO	
Mode9	1	0	0	0	4Kx2K@60, 10.2G, HDR10, DOLBY/DTS 5.1	
Mode10	1	0	0	1	4Kx2K@60, 10.2G, HDR10, HD AUDIO	
Mode11	1	0	1	0	4Kx2K@60, 18G, HDR10, 2CH AUDIO	
Mode12	1	0	1	1	4Kx2K@60, 18G, HDR10, DOLBY/DTS 5.1	
Mode13	1	1	0	0	4Kx2K@60, 18G, HDR10, HD AUDIO	
Mode14	1	1	0	1	MIX1	
Mode15	1	1	1	0	MIX2	
Mode16	1	1	1	1	MIX3	

Note:

MIX1: Lowest format of audio/video

MIX2: Highest format of audio, Compose Downscaler of Video,

MIX3: Lowest format of audio, Compose Downscaler of Video

The downscaler function supports the downscaling of 4K@60Hz 4:4:4, 4:2:2 and 4:2:0 (HDR 10) signals to a 1080p signal. Other input signals are not supported by the downscaling function.

## Specification

Input Ports	HDMI x 4
Vertical Frequency Range	50/60Hz
Video Amplifier Bandwidth	6.0Gbps/600MHz per channel (18Gbps all channels)
Interlaced (50&60Hz)	480i,576i,1080i
Progressive (50&60Hz)	480p,576p,720p,1080p,4K@24/30Hz,4k@50/60Hz
Operating Temperature	0°C to 70°C
Storage Humidity	5% to 90% RH non-condensation
Power Supply	5V 2A DC
Power Consumption (Max)	5W
Matrix Unit	CE
Power Adapter	CE
Power Adapter Standard	EU
Dimension (LxWxH)	171 x 61 x 20mm
Net Weight	245g
Material	Metal

Note: Specifications are subject to change without notice.

## Troubleshooting

Problems	Causes	Solutions
Power light is off and product is not working	Is the power adapter properly connected and the power on/off button is on	Please check if the power adapter is connected properly and switch on the power on/off button
Screen cracks	HDMI cable may not be HDMI 2.0 specification or the cable is too long	Please use a HDMI 2.0 cable. The input/output cable length must not exceed 5m for 4K/60Hz 4:4:4. For 4K@30Hz/1080p 10m are possible.
No 3.5mm audio output or noisy	The current audio format is 5.1/7.1CH which the 3.5mm jack cannot support	Please select the 2.0CH audio format through EDID control, set the audio mode to 2.0CH, or adjust the output audio settings of the input player to 2.0CH audio output.
The remote control cannot be used normally	<ol style="list-style-type: none"> <li>1. The plastic partition between battery and remote may not be removed.</li> <li>2. The remote control is not aligned with the product or the distance is too far away.</li> <li>3. The battery may be depleted</li> </ol>	<ol style="list-style-type: none"> <li>1. Please remove the plastic separator between the battery and the remote control first.</li> <li>2. When using the remote control, please align the IR receiver of the device and do not exceed a distance of 8 meters.</li> <li>3. Please replace the battery</li> </ol>



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