

# 4x2 HDMI Matrix with Audio Extract



# User Manual

**VER 1.0**

## **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.

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# 1. Introduction

The 4x2 HDMI Matrix simultaneously four routes HDMI sources to two HDMI displays. It supports resolution up to 4K2K@50/60Hz YCbCr 4:2:0 and HDCP 2.2. This product supports audio extract from output A or output B port to optical and analog output and can be selected AUTO, COPY and STD modes EDID control. Flexible control through on-panel buttons, IR remote control.

# 2. Features

- ☆ HDMI 1.4b, HDCP2.2/HDCP1.4 and DVI 1.0 compliant.
- ☆ Supports HDMI resolution the maximum up to 4K2K@50/60Hz (4:2:0).
- ☆ Supports digital and analog audio extract output from output A or output B.
- ☆ EDID can be selected AUTO, COPY and STD mode via

selector on panel.

- ☆ Supports analog audio PCM 2.0.
- ☆ Supports optical audio pass-through format including LPCM 2.0/2.1CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6/DTS-HDMA 5.1, DTS HD-HRA 5.1.
- ☆ Control is via on-panel Button and IR remote control.

### 3. Package Contents

- ① 1× 4×2 HDMI Matrix with Audio Extract
- ② 1× 5V/1A Power Adapter
- ③ 2× Mounting Ears
- ④ 1× Matrix IR Remote Control
- ⑤ 1× User Manual

### 4. Specifications

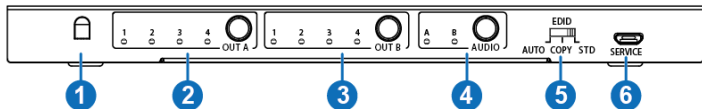
<b>Technical</b>	
HDMI Compliance	HDMI 1.4b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	297Mbps
Video Resolutions	480P@60Hz, 720P@60Hz, 1080P@60Hz, 1080P 3D@60Hz, 4K24/30Hz, 4K2K@50/60Hz (4:2:0)
Color Depth	8-bit, 10-bit, 12-bit
Color Space	RGB/YCbCr 4:2:0, YCbCr 4:4:4, YCbCr 4:2:2
HDMI Audio Formats	PCM2.0/5.1/7.1CH, Dolby 5.1, DTS5.1, Dolby-TrueHD, DTS-HD
L/R Audio Formats	Analog stereo 2CH
Optical Audio Formats	LPCM[2.0/2.1]CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS  5.1, DTS-ES 6, DTS-HDMA 5.1, DTS HD-HRA 5.1
ESD Protection	Human-body Model:  $\pm 8\text{kV}$ (Air-gap discharge), $\pm 4\text{kV}$ (Contact discharge)
<b>Connections</b>	
Input ports	4×HDMI Type A [19-pin female]



	1× IR Receiver Window
Output ports	2× HDMI Type A [19-pin female] 1× L/R Audio out [3.5mm Stereo Mini-jack] 1× Optical out [S/PDIF]
<b>Mechanical</b>	
Housing	Metal Enclosure
Color	Black
Dimensions	200mm(W)×80mm(D)×16mm(H)
Weight	328g
Power Supply	Input: AC100~240V 50/60Hz, Output: DC5V/1A  (US/EU standards, CE/FCC/UL certified)
Power Consumption	2W (max)
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)

## 5.Operation Controls and Functions

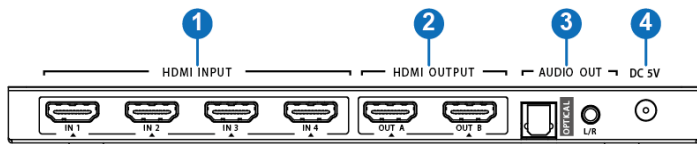
### 5.1 Front Panel



Number	Name	Function description
1	IR	IR receiver window
2	OUT A button	Select the OUT A port input channel, corresponding the light is on.

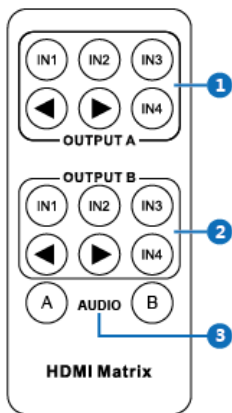
3	OUT B button	Select the OUT B port input channel, corresponding the light is on.
4	AUDIO button	<p>Select audio channel button.</p> <p>When the A light is on, audio extract output from OUT A.</p> <p>When the B light is on, audio extract output from OUT B.</p>
5	EDID selector	<p>AUTO: When selector is dialed the AUTO, it will compare OUT A and OUT B EDID setting and outputs the lowest resolution to source devices, the source devices will transmit again the signal to all HDMI outputs.</p> <p>COPY: When selector is dialed the COPY, the unit will copy the EDID setting of the HDMI OUT A display device to source devices, the source devices will transmit again the signal to all HDMI outputs. If the HDMI OUT A display device EDID can not be copied, the source devices will send default 1080P to all HDMI outputs.</p> <p>STD: When selector is dialed the STD, the source devices will transmit fixation 4K30 EDID to all HDMI outputs.</p>
6	SERVICE	Fireware update used. (Manufacturer use only.)

## 5.2 Rear Panel



Number	Name	Function description
1	HDMI INPUT	Connect to HDMI sources device such as DVD player or PS4.
2	HDMI OUTPUT	Connect to HDMI display device such as TV or monitor.
3	AUDIO OUT	OPTICAL: Optical audio output. L/R: Analog audio output.
4	DC 5V	DC 5V power supply interface.

## 6.Remote Control



① IN1/IN2/IN3/IN4: Selects the OUTPUT A port input channel, corresponding on-panel light is on.

◀▶: Selects the OUTPUT A port last or next input channel, corresponding on-panel light is on.

② IN1/IN2/IN3/IN4: Selects the OUTPUT B port input channel, corresponding on-panel light is on.

◀▶: Selects the OUTPUT B port last or next input channel, corresponding on-panel light is on.

③ Press the A button and audio extract output from  
OUT A port, corresponding on-panel light is on.

Press the B button and audio extract output from

OUT B port, corresponding on-panel light is on.

## 7.Application Example

