

## HDMI MATRIX

### HDMI Matrix 6x2 (4K60Hz)



Where every Moment comes Alive

**ER2895M62**

## Introduction:

The **EIRA ER2895M62** HDMI Matrix is a high-performance HDMI matrix that connects **up to 6 HDMI sources** to **2 HDMI display terminals**, with independent **optical fiber (SPDIF)** or **stereo headphone audio outputs**. It allows switching or splitting of any of the six HDMI devices to either or both displays, with each output capable of delivering separate audio.

This versatile matrix delivers **ultra-clear 4K/60Hz video** and is ideal for applications requiring flexible signal routing and professional-grade AV performance.

### Perfect for:

**Conference room presentations** – Effortless switching between multiple presenters' devices.

**Data centers & control rooms** – Centralized monitoring and content distribution.

**Educational & corporate training** – Sharing multiple content sources across two displays.

**Information distribution** – Ideal for signage, exhibitions, and retail displays.

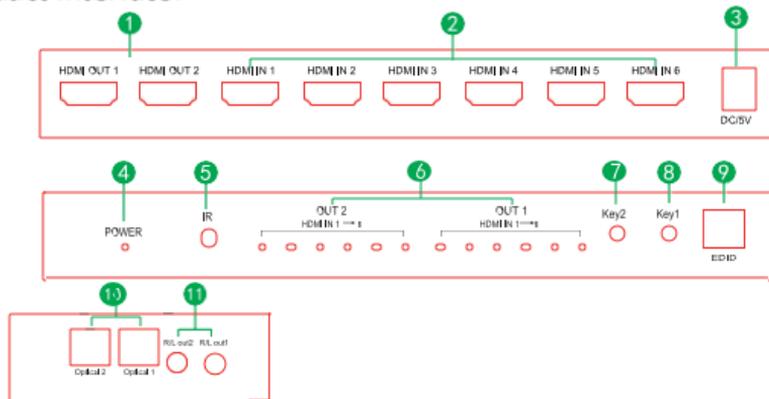
**Environments with noise, space, and security concerns** – Centralized equipment placement with remote output control.

## Features:

- **Supports 3D video format** for immersive visuals.
- **4K input with 2K output (downscaler)** for compatibility with lower-resolution displays.
- **Dual audio outputs** – 3.5mm stereo headphone jack and optical (SPDIF) output can work simultaneously.
- **6 HDMI inputs** can be switched and/or split to **2 HDMI displays**.
- **Audio format support:** LPCM, Dolby, DTS 5.1 channel.

Specification	Details
HDMI Resolution	Up to 3840 × 2160 / 60Hz
Supported Video Format	8-bit / 10-bit / 12-bit deep color
Supported Audio Formats	LPCM, DTS, Dolby-AC3
Max Bandwidth	600 MHz
Max Baud Rate	3 × 6 Gbps
Input Cable Distance	4K/30Hz: ≤ 15 m (AWG26 HDMI standard cable)4K/60Hz: ≤ 5 m (HDMI 2.0 standard cable)
Output Cable Distance	4K/30Hz: ≤ 15 m (AWG26 HDMI standard cable)4K/60Hz: ≤ 5 m (HDMI 2.0 standard cable)
HDMI Inputs	6
HDMI Outputs	2
Max Working Current	1 A
Power Adapter	Input: AC (50Hz/60Hz) 100V–240V Output: DC 5V / 1.5A
Operating Temperature Range	-15°C to +45°C
Operating Humidity Range	5% to 90% RH (No Condensation)
Dimensions (L × W × H)	200 × 70 × 25 mm
Weight	305 g

## Product Interface:



- 1 : HDMI OUT1-2 -- HDMI output ;
- 2 : HDMI IN1- 6 -- HDMI input ;
- 3 : DC/5V -- 5V power supply ;
- 4 : IR -- IR Receive ;
- 5 : POWER -- Power Indicator ;

- 6 : HDMI IN1→6 -- HDMI input indicator ;
- 7 : Key2 -- HDMI output 2 switch button ;
- 8 : Key1 --HDMI output 1 switch button ;
- 9 : EDID -- EDID management ;
- 10 : Optical1-2 -- Optical output ;
- 11 : R/L OUT1-2 -- Stereo output ;

## EDID setting

Position 1	Position 2	Position 3	Position 4	Function
0	0	0	0	Copy the EDID of HDMI OUT 1
0	0	0	1	Copy the EDID of HDMI OUT 2
0	0	1	0	3D 1080P 2 CH LPCM
0	0	1	1	3D 1080P 5.1 CH (LPCM/Dolby/DTS)
0	1	0	0	2D 1080P 2 CH (LPCM)
0	1	0	1	2D 1080P 5.1 CH (LPCM/Dolby/DTS)
0	1	1	0	3D 4k 2 CH (LPCM)
0	1	1	1	3D 4k 5.1 CH (LPCM/Dolby/DTS)

Noted: the dial switch to dial downward is 1, dial upward is 0.

## Remote Control:



### Output 1 Control:

- The **6 buttons** under Output 1 correspond to input sources **IN1–IN6**.
- Press any button to switch Output 1 to the selected input source.

### Output 2 Control:

- The **6 buttons** under Output 2 correspond to input sources **IN1–IN6**.
- Press any button to switch Output 2 to the selected input source.

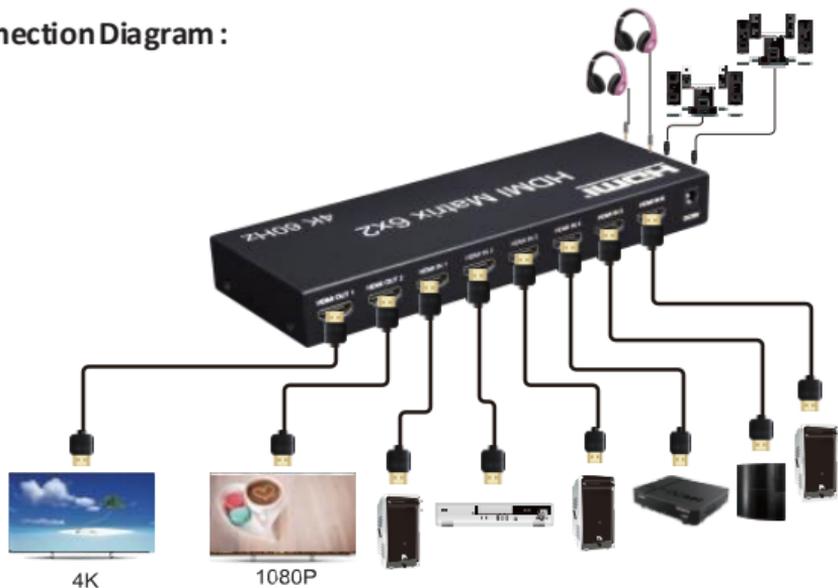
### LED Indicators:

- Each **IN1–IN6 LED** shows the currently active input source for the selected output (Output 1 or Output 2).

### Button Operation:

- **Key 1** controls Output 1 input selection.
- **Key 2** controls Output 2 input selection.

## Connection Diagram :



## Operating and Connecting :

1. **Connect HDMI Sources:** Use HDMI cables to connect each source device (e.g., Blu-ray players, set-top boxes, gaming consoles) to the **HDMI input ports** of the matrix.
2. **Connect Displays:** Use HDMI cables to connect your display devices (e.g., TVs, projectors, monitors) to the **HDMI output ports** of the matrix.
3. **Connect Audio Outputs (Optional):** For stereo audio: Connect the **3.5mm headphone jack** to a stereo amplifier or powered speakers. For digital audio: Connect the **optical (SPDIF) output** to a compatible audio system.
4. **Power Connection:** Plug the supplied **5V power adapter** into the matrix and connect it to a power outlet.
5. **Control & Switching:** Use the **IR remote control** or the **front-panel buttons** to switch between HDMI input sources for each output independently.

### Note:

HDMI and audio ports can be connected as required — not all ports need to be in use. Connections are **directional**; HDMI input and output ports cannot be reversed.

## Application scenario :



TV Store



Teaching room



Video Conference

## Cautions:

- Use the machine according to the instructions to ensure a long service life.
- Place the machine away from damp, high-temperature, dusty, corrosive, or oxidative environments.
- Keep the device free from strong vibrations, shocks, or falls.
- Do not touch the power adapter with wet hands.
- Always hold the adapter plug when unplugging; do not pull on the power cord.
- Turn off the power if the machine will not be used for a long time.
- Do not open the cover or touch internal components.
- Use only the original factory power adapter.

## Accessories :

1. 4K 60Hz HDMI Matrix 6X2	1PC	3. 5V power adapter	1PC
2. IR Remote Control	1PC	4. User Manual	1PC