

# EZ-MX44HAS2 UM-说明书- 128G铜版纸+风琴折+黑白双面\_100x120MM\_V1.1



## User Manual

**4x4 HDMI 2.0 Matrix**  
**Coaxial audio output**  
**4K@60 4:4:4 8bit HDR**  
**4K scale down to 1080P**  
**IP/RS232/IR Control**

## Overview

This product is a 4 in 4 out HDMI Matrix with Ultra HD up to 4k60 4:4:4 8bit HDR and HDCP2.2. It reliably distributes four HDMI source signal to four HDMI displays. And also provide audio de-embedded via coaxial port for each HDMI port. All output port support 4K scale down to 1080P.

The product can be controlled by front panel buttons, IR, RS232, and IP/web UI. Also we provide API commands for your control system.

It is ideal for applications such as Home theatre, offices, school, conference rooms, shopping malls, hotels and museums, which require manage multiple sources and distribute an HDMI source signal to multiple displays.

## INTRODUCTION

### FEATURES

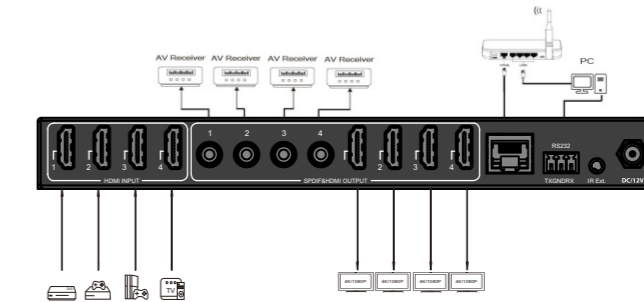
- Distributes four HDMI sources signal to four HDMI displays
- HDMI2.0 with 4K@60 4:4:4 8bit and HDCP 2.2 compliant
- Support HDR 10 and Dolby version
- Support 4K scale down to 1080P
- Support remote control, button, RS232, IP control
- Support Audio DE-embed, coaxial audio out without display
- Support 3D, Support deep color 30bit, 36bit
- Support Blue-Ray 24/50/60fs/HD-DVD/xVCC
- Digital audio format, pass through as DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD, Dolby Atoms, and all other HDMI standard formats
- Support signal retiming, No loss of quality
- No driver required, Plug and play, Installs in minutes

### SPECIFICATIONS:

- 1) HDMI version..... HDMI 2.0
- 2) HDCP version.....HDCP2.2
- 3) HDMI resolution.....24/50/60fs/4K\*2K/1080p/1080i/720p/576p/576i/480p/480i
- 4) Support video format .....24bit/30bit,36bit deep color
- 5) Support audio format.....DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD/Dolby Atoms
- 6) Max bandwidth.....600MHz
- 7) Max baud rate.....6Gbps
- 8) Input/Output TMDS signal ..0.5~1.5Volts p-p(TTL)
- 9) Input/Output DDC signal ..... 5Volts p-p (TTL)
- 12) Max working current.....1.5A
- 13) Power adapter format.....Input:AC (50HZ, 60HZ) :100V-240V; Output: DC12V/2A
- 14) Operatin2g Temperature range..... (-15 to +55℃)
- 15) Operating Humidity range.....5 to 90%RH (No Condensation)
- 16) Dimension (L x W x H).....220\*130\*25(mm)
- 17) Weight.....380g

### Operating and Connecting

1. Connect one cable from each HDMI source devices to HDMI input.
2. Connect one cable from each display (monitor or projector) to the HDMI outputs.

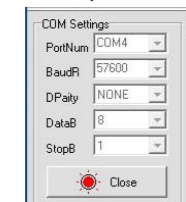


正面

## Setting

### RS232 control

Advanced user may need to control the matrix via RS232, connect a PC or control system. Professional rs232 serial interface software (e.g. UART Assist) may be needed as well. Before executing API commands through RS232, ensure the RS232 port of the matrix and control PC are set correctly.



See below are main commands for control

Note: All commands need typing 'enter' at the end.

Command	Function
EZH	System help, it will show all commands
EZSTA	Show System Status
EZS RST	Reset to Factory Defaults
EZS DEBUG MODE1 EN	Set Cascade Mode Enable (Turn OFF HDCP)

EZS DEBUG MODE1 DIS	Set Cascade Mode Disable (Turn ON HDCP)
EZS OUTx VS INy	Set Output x To Input y (x=[0~4][0=ALL], y=[1~4])
EZS OUTx EXA EN	Set Ex-Audio Output Enable (x=[0~4][0=ALL])
EZS OUTx EXA DIS	Set Ex-Audio Output Disable (x=[0~4][0=ALL])
EZS OUTx STREAM ON	Set Output x Stream ON (x=[0~4][0=ALL])
EZS OUTx STREAM OFF	Set Output x Stream OFF (x=[0~4][0=ALL])
EZS INx EDID y	Set Input x EDID (x=[0~4][0=ALL], y=[0~32])
EZS HIP xxx.xxx.xxx.xxx	Set Host IP Address to xxx.xxx.xxx.xxx
EZG HIP	Get Host IP Address

More details for EDID list and IP setting, please send "EZI" to get help list.

### IP control

Connect the ETHERNET port to your router, same network with your PC. Connect the USB or RS232 to PC, using the RS232 interface to send command "EZG HIP", you will get the IP address of the matrix.

Make sure your PC and the matrix on the same network.

Typing in the IP address in a browser

Note: please begin with http://

e.g: You get a IP address 192.168.101.20

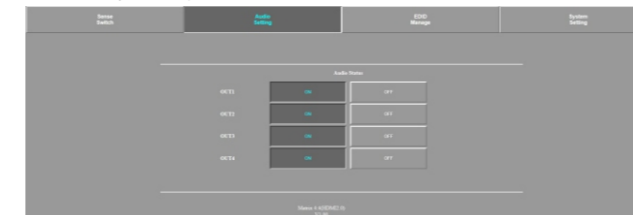
please typing in http:// 192.168.101.20

And you will see four sections

SenseSwitch, select inputs for each output.



AudioSetti, turn on/off audio breakout



EDID Manage, select EDID for each input, there are more than 40 kinds of EDID options.



System setti, set IP address and alias name.



### Scaler setting

Press the output select button for 3 seconds until the LED flash 3 times, the output port scaler function will be on and will make 4K signal scale down to 1080p.

Press the output select button for 3 seconds until the LED flash 1 time, and the output port scaler function will be off.

For example

You want to make output 1 port scaler on.

You need to press the output 1 select button for 3 seconds until the LED flash 3 times, the output 1 port scaler function will be on and will make 4K signal scale down to 1080p.

Press the output 1 select button for 3 seconds until the LED flash 1 time, and the output 1 port scaler function will be off.

### Packing List:

1. HDMI Matrix x1
2. Power supply x1
3. Mount ear x2
4. IR extender cable x1
5. Reusable Cable Ties x2
6. product manual x1
7. IR remote x1

反面