

HDMI (HDBaseT) Matrix Switcher Series

ITEM NO.: HE04M

With the latest and more affordable HDBaseT technology extend HDMI sources up to 100M at 1080p or 1920x1200. HE04M HDMI 4 by 4 Matrix Switcher allows for effortless control of up to 4 devices through IR remote control, RS-232 and the front panel.



HE04M 4 x 4 HDMI (HDBaseT) Matrix Switcher

Feature:

- 4 x HDMI inputs , 4 x HDMI Outputs Matrix switcher
- Dual Output: local HDMI port or remote RJ45 termination
- Work with HE02ER, HE02R receiver at each monitor up to 100 meters over CAT5e/6.
- Work with HE02EIR receiver at each monitor up to 70 meters over CAT6a cable.
- Three control option: Front panel button, IR remote control, RS232 through remote PC.
- **Support local/remote IR control to select input/output.**
- **Built in RS232 console port to select input/output.**
- Uncompressed high definition video 1080p@60Hz 12 bit and 3D capable
- HDMI 1.4 video features supported.
- **Built in IR extender (work with Receiver: HE02EIR)**
- **Built in RS232 extender (work with Receiver: HE02R)**
- Input/Output status could be displayed at panel LED.
- **Optional Model:**
 - HE02ER 100m HDMI Receiver
 - HE02R 100m HDMI & RS232 Receiver
 - HE02EIR 70m HDMI with IR Receiver

Panel View:



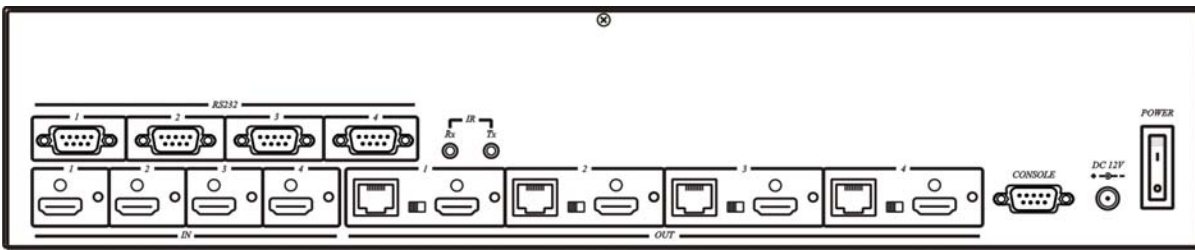
LED Indication:

Power ON/OFF

OUTPUT / INPUT: 1 , 2 , 3 , 4

1,2,3,4 LEDS Flash: Select INPUT Channel

LED ON : Input Selected



HDMI/RJ45 Output Selection:



Slide switch to right → HDMI OUT

Slide switch to left → Auto Detection HDMI or RJ45 output, HDMI priority when HDMI & RJ45 connection at the same time.

Input/Output Channel Switch:

1. Select the output channel: press top button (1 , 2 , 3 , 4), the selected column will LEDs flash
2. Select the input channel: press left button (1 , 2 , 3 , 4, OFF) to complete the channel selection.

Example 1 : Input 1 switch to output 2, to press top button 2, then press left button 1.

Example 2 : Turn off output 3 , to press top button 3 , then press left button OFF.

Local (HE04M) IR Control Function :

IR01 IR Remote Control Setting :

The ID number must be setup before using IR remote control or change new batteries.

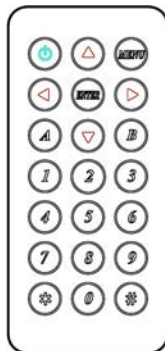
Setup IR remote ID number: Press and hold “Power Symbol” button and press number 4.

Using IR01 remote controller to select input/output channel.

Input/Output Channel Switch:

1. Select the output channel: press IR button (1 , 2 , 3 , 4) the selected column will LEDs flash
2. Select the input channel: press IR button (7 , 8 , 9 , *, 0) to complete the channel selection.

- 1 → Select Output 1
- 2 → Select Output 2
- 3 → Select Output 3
- 4 → Select Output 4
- 7 → Select Input 1
- 8 → Select Input 2
- 9 → Select Input 3
- * → Select Input 4
- 0 → OFF



Remote IR Extender & HE04M Control Function :

IR01 IR Remote Control Setting :

The ID number must be setup before using IR remote control or change new batteries.

Setup IR remote ID number: Press and hold “Power Symbol” button and press number 5.

Work with HDMI source/monitor:

HE02EIR IR setting at TX, from local HE04M to control remote HDMI equipments.

HE02EIR IR setting at RX, from remote HDMI equipment to control local HE04M

Input/Output Channel Switch:

Select the input channel: press IR button (1 , 2 , 3 , 4, 0) the selected column will LEDs flash

- 1 → Select input 1
- 2 → Select input 2
- 3 → Select input 3
- 4 → Select input 4
- 0 → OFF

PC RS232 Port Remote Control (HE04M Console):

The communication format is 9600, 8, N, 1 (9600 bps, 1 start bit, 8 data bits, 1 stop bit).



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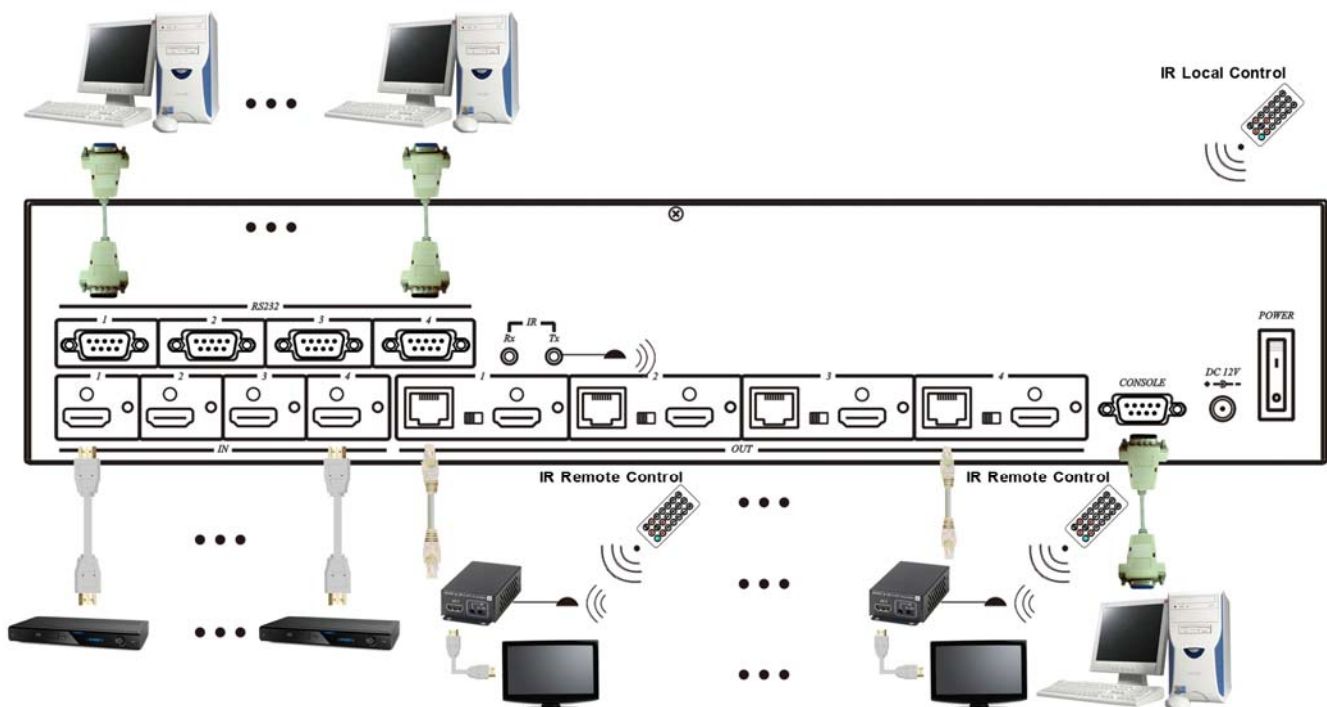
Command List :

Use command as below :

Command + Space + Parameter + Enter

- | | IN | OUT | |
|-----|-----|-----|----------------------------|
| 1. | TX1 | 01 | output 1 switch to input 1 |
| 2. | TX1 | 02 | output 1 switch to input 2 |
| 3. | TX1 | 03 | output 1 switch to input 3 |
| 4. | TX1 | 04 | output 1 switch to input 4 |
| 5. | TX1 | 00 | turn off output 1 |
| 6. | TX2 | 01 | output 2 switch to input 1 |
| 7. | TX2 | 02 | output 2 switch to input 2 |
| 8. | TX2 | 03 | output 2 switch to input 3 |
| 9. | TX2 | 04 | output 2 switch to input 4 |
| 10. | TX2 | 00 | turn off output 2 |
| 11. | TX3 | 01 | output 3 switch to input 1 |
| 12. | TX3 | 02 | output 3 switch to input 2 |
| 13. | TX3 | 03 | output 3 switch to input 3 |
| 14. | TX3 | 04 | output 3 switch to input 4 |
| 15. | TX3 | 00 | turn off output 3 |
| 16. | TX4 | 01 | output 4 switch to input 1 |
| 17. | TX4 | 02 | output 4 switch to input 2 |
| 18. | TX4 | 03 | output 4 switch to input 3 |
| 19. | TX4 | 04 | output 4 switch to input 4 |
| 20. | TX4 | 00 | turn off output 4 |

Installation View:



HE04MEK Package Include:

HE04M Matrix x 1 pcs
 HE02ER HDMI Receiver x 4 pcs
 IR01 IR Remote Control x 1 pcs
 Power Adapter x 1 pcs

HE04MEIK Package Include:

HE04M Matrix x 1 pcs
 HE02EIR HDMI Receiver x 4 pcs
 IR01 IR Remote Control x 1 pcs
 IR Emitter Cable x 4 pcs
 IR Receiver Cable x 4 pcs
 Power Adapter x 1 pcs

Specification:

Item No.	HE04M	
Max. Resolution	1080p @60Hz 12bit	
Video Input	HDMI Type A x 4	
Video Output	HDMI Type A x 4 · RJ45 x4	
RJ45 Output Distance	100 meters	
IR Input/Output	Phone Jack x 2	
RS232 Input/Output	DB9 x 5	
Power Adapter	DC 12V 4Amp	
Power Consumption	2Amp (Max)	
Temperature	Operation: 0 to 55°C, Storage: -20 to 85°C, Humidity: up to 95%	
Dimension	mm	483 x 220 x 88.4
Weight	g	3180

Item No.	HE02ER (Optional CAT5E Receiver)	HE02EIR (Optional CAT5E Receiver)
Resolution	Up to 1080p / 60Hz / 48 bit	
Distance	100M (Max)	60M by CAT5e/6, 70M by CAT6a
Video Output	HDMI Type A x 1	
IR Carrier Frequency	X	30-60KHz
IR Angle	X	±55
IR Distance	X	5m
Power Supply	Regulated DC5V 2A	
Power Consumption	1200mA (Max)	820mA (Max)
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%	
Dimensions	mm	49 x 92.3 x 25
Weight	g	135



Rev. A