

# HDMI 4X4 Single Cat5e/6 Extender Output HD Video Matrix (HLHM0404A)

## Product model and standard

HLHM0404A HDMI 4x4 single Cat5e/6 extender output HD video matrix, which can accept 4 HD HDMI signal inputs, as well 4 HD HDMI and 4 Cat5e/6 RJ45 outputs can select any one of 4 video inputs. This 4x4 matrix can support maximum 1080p 3D or 1080p 60fs resolution, and also include a 4x4 dual direction IR matrix companion with video matrix extender output. The 4x4 HDMI matrix is fully compatible with HDMI 1.3c (HDMI 1.4 3D) and HDCP 1.3.

## Main features

- HDMI 1.3 spec and HDMI 1.4 3D supports
- HDMI HDCP1.3 compatible
- True 4 by 4 HDMI matrix, allow 4 outputs could select the same or different HDMI source simultaneously
- Each group of matrix output includes one HDMI and RJ-45 extender port; both can output HD video simultaneously.
- Cat5e/6 extender outputs support power over UTP, receiver side don't need external DC adapter.
- Supported resolutions 1080p/1080i/720p/576p/480p/576i/480i
- Support audio format PCM, Dolby®-AC3, DTS®7.1, DSD
- HPD and CEC supports
- Both emitter and receiver 4x4 IR matrix embedded with local IR control
- Auto remembering last power-off matrix status and auto skip for unconnected inputs when power-on initialization
- EDID dynamic mixing management with maximum compatibility
- Cat5e/6 extender port support EDID call back
- Multi-mode control by LAN, RS232, local IR remote, Cat5e/6 extender side IR receiver or panel button.
- ESD protection level HBM  $\pm 8$  kV (Contact Discharge) for any input and output port
- Industrial metal case, easy to install

**Parameters:**

<b>Interface</b>	4 HDMI input ports (female type A); 4 HDMI outputs (female type A); 4 Cat5e/6 extender output(RJ45); 4 IR output (3.5mm); 4 IR input (3.5mm); RS232 series port(DB9); LAN port (RJ45); 12V DC in (Ø3)
<b>Power consumption</b>	<30W when the function of power over UTP of 4 extender output is on.
<b>Dimension</b>	(L x W x H): 276*151*37mm (no including 3mm height rubber pad)
<b>Net weight</b>	2.5kg per unit
<b>Input/Output Video formats</b>	HDMI v1.3, 1080p/1080i/720p/576p/480p/576i/480i
<b>HD interface standard</b>	HDMI 1.3 standard (HDMI 1.4 3D function), HDCP 1.2, support CEC, EDID
<b>Input Video Signal Amplitude</b>	0.5-1.0 volts p-p
<b>Input DDC Signal</b>	5 volts p-p (TTL)
<b>HDMI Input/output audio formats</b>	PCM, Dolby®-AC3, DTS®7.1, DSD, Maximum 8 channels
<b>HDMI input/output cable distance</b>	≥15m (26 AWG, and can be extended with amplifier in most cases)
<b>Extender output resolution and distance</b>	1080P      170ft (50 meters)-CAT5e/ 230ft (70 meters)-CAT6 720P/1080i 230ft (70 meters)-CAT5e/ 300ft (90 meters)-CAT6
<b>Indicators</b>	Power-Green, Extender output connected status-Green, Matrix Status-Yellow
<b>IR frequency</b>	38KHz
<b>ESD level</b>	HBM ±8 kV (Contact Discharge)
<b>Temperature range</b>	0~40°C (operation), -20~60°C(stock)
<b>Compliance</b>	FCC; CE

**Packing list:**

- 1 unit HDMI 4x4 matrix
- 1 unit DC 12V 4A adapter
- 1 IR remote controller
- 4 IR extension transmitter cable (3m)
- 4 IR extension receiver cable (3m)
- 1 user manual
- 2 metal brackets
- 312\*181\*88mm carton packing

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Phone: 0415 468 731, Email: [sales@ultralinks.com.au](mailto:sales@ultralinks.com.au)  
Suite 1A Level 2, 802 Pacific Highway, Gordon NSW 2072  
[www.ultralinks.com.au](http://www.ultralinks.com.au)