

ENGINEERING FOR QUALITY

EUROSOUND

The HM44A-4K-IP is a professional 4x4 HDMI 2.0 Matrix Switcher with Audio Matrix. It includes 4 HDMI inputs, 4 HDMI outputs and the last two outputs with down-scaling function, which is designed for switching two HDMI2.0 and HDCP2.3 compliant signals. It also features 4 SPDIF and 4 analog audio outputs for audio matrix. The matrix switcher features comprehensive EDID management and advanced HDCP handing to ensure maximum functionality with a wide range of video sources. The matrix switcher not only supports bi-directional IR, RS232 extension but also has IR, RS232, and TCP/IP control options.

AV PROCESSOR

HM44A-4K-IP

HDMI 2.0 Matrix



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HM44A-4K-IP

HDMI 2.0 Matrix



MAIN FEATURES

- 4x4 HDMI 2.0 Matrix Switcher
- Supports 4K/60 4:4:4, HDR, HDCP2.3 compliant
- Audio out can de-embedded from arbitrary in/output
- Individual volume adjustment on each L+R output
- Supports 4K to 1080p down-scaling up to 2 outputs
- HDMI out provides 2.5W to power Active Optical Cable
- HDMI Output support up to 5V500mA for AoC cable
- Controllable by front panel, IR, RS232 and TCP/IP

SPECIFICATION

Video

Input	(4) HDMI
Input Connector	(4) Type-A female HDMI
Input Video Resolution	Up to 4K@60Hz 4:4:4
Output	(4) HDMI
Output Connector	(4) Type-A female HDMI
Output Video Resolution	Up to 4K@60Hz 4:4:4
HDMI Output	Supports up to 5V500mA for AoC cable
HDMI Version	Up to 2.0
HDCP Version	Up to 2.3
HDMI Audio Signal	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through.

Digital Audio Output

Output	(4) Digital SPDIF audio
Output Connector	(4) Toslink connector
Digital SPDIF Audio Format	Supports PCM, Dolby Digital, DTS, DTS-HD
Frequency Response	20 Hz to 20 kHz, ±1dB
Max Output level	±0.05dBFS
THD+N	< 0.05%, 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0dBFS level (or max level)
SNR	> 90dB, 20Hz-20 kHz bandwidth
Crosstalk Isolation	< -70 dB, 10 kHz sine at 0dBFS level (or max level before clipping)
Noise	-90dB

SPECIFICATION (Cont.)

Analog Audio Output	
Output	(4) Analog L/R Audio
Output connector	(4) L&R (RCA)
Digital SPDIF Audio Format	PCM 2CH
Frequency Response	20 Hz to 20 kHz, $\pm 1\text{dB}$
Max output level	2.0Vrms $\pm 0.5\text{dB}$. 2V = 16dB headroom above -10dBV (316 mV) nominal consumer line level signal
THD+N	< 0.05%, 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0dBFS level (or max level)
SNR	> 80dB, 20Hz-20 kHz bandwidth
Crosstalk Isolation	< -80 dB, 10 kHz sine at 0dBFS level (or max level before clipping)
L-R Level deviation	< 0.05 dB, 1 kHz sine at 0dBFS level (or max level before clipping)
Frequency Response Deviation	< $\pm 0.5\text{dB}$ 20Hz - 20KHz
Output Load Capability	1k ohm and higher (supports 10x paralleled 10k ohm loads)
Noise	-80dB
Control	
Control Port	(1) IR EYE, (1) RS232, (1) FIRMWARE, (1) TCP/IP
Control Connector	(1) 3.5mm jack, (1) 3-pin terminal block, (1) USB-A, (1) RJ45

SPECIFICATION (Cont.)

General	
Transmission Distance	4K/60Hz/444 5m, 4K/60Hz/420 10m, 1080P 15m
Bandwidth	18Gbps
Operation Temperature	-5~ +55°C
Storage Temperature	-25 ~ +70°C
Relative Humidity	10%-90%
External Power Supply	Input: AC 100~240V, 50/60Hz; Output: 24V DC 1.25A
Maximum Power Consumption	18.3W
Dimension (W*H*D)	436.4mm*44mm*236mm
Net Weight	2.6kg