

AVG-4KS44-404

4x4 HDMI Matrix with Audio Outputs



This AVönic product is a 4x4 compact HDMI matrix switcher, specially designed for cost conscious projects and buyers. It features not only basic functions like cross-point switching and control (IR, RS-232, IP), but also advanced functions like auto-downscaling for each HDMI output when it is connected to 1080P display. There're S/PDIF audio breakout for each HDMI output, so as to provide more audio feeds to multi-zone audio system.

Features

- 4 HDMI Inputs and 4 HDMI Outputs.
- All HDMI inputs and outputs support HDMI with HDR formats incl., HDR 10, HLG, DOLBY VISION up to 4K60 444.
- HDCP2.2 compliant
- With built-in 4K-1080P downscaler for each HDMI Output, the matrix can downscale 4K 60Hz 444 to 1080P@60 444. 4K downscaler can work automatically when the matrix is connected to 1080P display and can be set to ON/OFF by API commands.
- Each HDMI output has a S/PDIF audio breakout, and supports formats up to 5.1CH compressed and 2CH PCM audio.
- Supports smart EDID, each input can be assigned to smart EDID mode.
- Supports EDID presets, EDID copy and EDID write. By default, each input EDID is set as 4K60 444 HDR with 5.1CH encoded audio.
- Supports audio mute, four S/PDIF outputs can be muted separately by API commands.
- Supports upgrading firmware via both micro-USB and web UI (for MCU and web module).
- Rich control options, include RS-232, IR, web UI and front panel buttons.

Specifications

Technical	
Input/Output Port	4 x HDMI IN, 4 x HDMI OUT, 1 x RS-232, 1 x IP Control (RJ45), 4 x S/PDIF OUT (Digital), 1 x FW (Micro USB), 1 x DC 12V IN
Input/Output Signal Type	HDMI with 4K@60Hz 4:4:4, HDR 10, HLG & Dolby Vision, HDCP 2.2 Note: Dolby vision is not supported in down scaler mode.

Input/Output Resolution Supported	<p>VESA: 800x6008, 1024x7688, 1280x7688, 1280x8008, 1280x9608, 1280x10248, 1360x7688, 1366x7688, 1440x9008, 1600x9008, 1600x12008, 1680x10508, 1920x12008</p> <p>SMPTE: 720x576P6, 1280x720P6,7,8, 1920x1080P2,5,6,7,8, 3840x21602,3,5,6,8, 4096x21602,3,5,6,8 2 = at 24 Hz, 3 = at 25 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = 60 Hz</p>
Audio Format	<p>HDMI IN/OUT: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTSHD Master Audio and DTS:X</p> <p>S/PDIF OUT: Supports PCM 2.0/5.1, Dolby digital and DTS up to 5.1 Channel</p>
Maximum Data Rate	18Gbps
Control Method	Front Panel Buttons, RS232, IR, LAN(Telnet &Web UI)

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 12V
Power Consumption (Max)	10.8W
Device Dimension (W x H x D)	215mm x 42mm x 120.2mm/8.46" x 1.65" x 4.73" (Without mounting brackets)"
Product Weight	0.54kg/1.19lb


Transmission Distance

Cable Type	Range	Supported Video
HDMI	Input: 15m/50ft Output: 10m/33ft	1080P@60Hz 24bpp
	Input/Output: 10m/33ft	4K@30Hz 4:4:4 24bpp 4K@60Hz 4:2:0 24bpp
	Input/Output: 3m/10ft	4K@60Hz 4:4:4 24bpp



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