

## AVG-P4KS44-404

### 4K 4 x 4 Seamless Matrix Switcher with Multiview and Videowall



This AVönic product is a full 4K 4 x 4 HDMI seamless matrix switcher. It features compact enclosure, instant switching and free scaling up to 4K@60Hz SDR and HDR on all outputs. It also supports two additional working modes including multiview and videowall. In matrix switcher mode, it allows four sources to be switched to four HDMI outputs seamlessly. In multiview mode, it features 5 layout modes, including Original, Dual view, PIP, Master and Quad. In video wall mode, the matrix supports 2x2 video wall layout, which can select any input for video wall outputs, configure bezel correction and set image rotation.

Besides flexible video features, it also provides both analog and digital S/PDIF audio de-embedding for outputs 1&2. The product can be easily managed and controlled, for example, through front panel buttons, IR, RS232, web UI and TCP protocols.

## Features

- Seamless switching without seeing black screen between four HDMI inputs and outputs.
- Each HDMI input and output supports video formats up to 4K@60Hz SDR and HDR.
- HDCP 2.3 and backward compatible.
- EDID management including EDID presets, EDID copy and custom EDID.
- Advanced video processing capabilities:
  1. Supports free scaling between 480p and 4K@60Hz.
  2. Supports conversion between SDR and HDR formats.
  3. Supports conversion on color space, chroma and color bits.
  4. Supports instant switching between sources so black screen transition is avoided.
  5. Supports rich scaler processing modes, including auto scaler, manual scaler and video bypass.
- Supports three video working modes:
  1. Supports matrix switcher mode, which can route any input to any output;
  2. Supports multiview mode, including Original mode, Dual view mode, PIP mode, Master mode, and Quad mode;
  3. Supports videowall mode (2x2 layout), and configuring its output distribution, bezel correction, input selection, and image 180° rotation (to facilitate 2x2 videowall setup using TV display) through API commands and web UI.
- Can be easily managed and controlled through front panel buttons, IR, RS232, web UI and TCP protocols.
- Supports firmware upgrade through web UI and Micro USB port.

## Specifications

Technical	
Input/Output Port	4 x HDMI IN, 4 x HDMI OUT, 1 x RS-232, 1 x LAN (RJ45), 2 x S/PDIF OUT, 2 x Analog AUDIO OUT, 1 x FW (Micro USB), 1 x DC 12V
Input/Output Signal Type	HDMI with 4K@60Hz 4:4:4
Input/Output Resolution Supported	<p><b>VESA:</b> 800x6008, 1024x7688, 1280x7688, 1280x8008, 1280x9608, 1280x10248, 1360x7688, 1366x7688, 1440x9008, 1600x9008, 1600x12008, 1680x10508, 1920x12008</p> <p><b>SMPTE:</b> 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	<ul style="list-style-type: none"> <li>• <b>HDMI IN/OUT:</b> 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</li> <li>• <b>AUDIO OUT:</b> Balance stereo audio</li> <li>• <b>S/PDIF OUT:</b> PCM 2.0/5.1, Dolby digital and DTS up to 5.1 Channel</li> </ul>
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)	16W
Device Dimension (W x H x D)	215mm x 42mm x 140.2mm/8.46" x 1.65" x 5.52"
Product Weight	1.2kg/2.64lbs

## Transmission Distance

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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



# Contact


## Head Office

 Rose Gate Common, Livermore, CA-94551

 +1 (470) 301-0555

 [Avonicgroup.com](https://www.avonicgroup.com)

## Branch Office

 Curtis House, 34 Third Avenue, Brighton  
& Hove, Hove BN3 2PD, UK

 Strada Vasile Conta 6,  
Bucureşti, 020953, Romania

 Jumeirah Lake Towers, Dubai, UAE