HALL RESEARCH

INNOVATION

Genesis™ AV Matrix Switches

Powerful & Compact 16x16 and 8x8 VGA/HDTV Matrix Switches with Front Panel, RS232, and IP Control

With RJ45 outputs

With HD15 outputs

Features & Capabilities

❖ Cross-point switching of PC or HD video and audio signals
❖ Front panel, RS-232, and optional IP control
❖ Easy operation via illuminated push-buttons
❖ Outputs can be blanked (video) or muted (audio)
❖ Wide bandwidth for resolutions to 1920x1200 or HD (1080p)
❖ Audio output levels of -10dBV or +4 dBu
❖ Individual audio level adjustment on each input
❖ VU meter (sound level) bar graph display on front panel
❖ Battery-backed real-time clock with scheduling capability
❖ Monitors internal power supply levels and temperature
❖ Blinking CHECK light to alert user of system faults
❖ Built-in universal power supply
❖ RJ45 outputs for video-over-twisted pair (UTP) transmission
❖ Companion RS-232 ports for all outputs
❖ Independently controls each remote display via RS-232
❖ Embeds video, audio, power, and RS-232 in a single Cat5
❖ Choice of remote Cat5 receivers (no power, audio, serial)
❖ Compact, Rugged, Reliable, and Economical
❖ Made in USA

Product Description

Hall Research's Genesis™ product line is composed of compact & high-end matrix switches for video and audio. The switches provides 8 or 16 video (and audio) outputs, each capable of independently displaying any of the inputs in any combination.

They are perfectly suited for use in broadcasting environments, multi-media conference halls, public facilities, large display projects, schools, courtrooms, and command & control centers.

Genesis™ Matrices can be configured to include pro-audio features (input volume adjustment, selectable line level output), IP Control, RJ45 outputs with video, audio, and serial control, on one UTP (Cat5e/6).

Please refer to chart on the reverse side for various options or use the Part Number Configuration Tool on the website. These state-of-the-art, feature-rich matrix switches are the clear choice for even the most demanding projects and installations.

Genesis™ Matrix Part Number Option Chart

This table shows the variations for 16x16 Matrix; for 8x8 equivalents just change 16 to 8 in the Model Number

Model #	IP	Audio	Pro Audio	# Inputs	JP	JA	JR	# Outputs	UTP (Cat5) Remote Receiver
8x8 and 16x16 Standard I/O connectors									
VSM-16-16				16				16	N/A
VSM-I-16-16	●			16				16	
VSM-A-16-16		●		16				16	
VSM-I-A-16-16	●	●		16				16	
VSM-AP-16-16		●	●	16				16	
VSM-I-AP-16-16	●	●	●	16				16	
8x8 and 16x16 RJ45 on Outputs with Power over UTP to UV1 Receivers									
VSM-16-JP16				16	●			16	UV1-R UV1-R-WP UVB1-CP-R
VSM-I-16-JP16	●			16	●			16	
VSM-A-16-JP16		●		16	●			16	
VSM-I-A-16-JP16	●	●		16	●			16	
VSM-AP-16-JP16		●	●	16				16	
VSM-I-AP-16-JP16	●	●	●	16	●			16	
8x8 and 16x16 RJ45 on Outputs with Audio to URA Receivers									
VSM-A-16-JA16		●		16		●		16	URA & URA-SKU URA-XT
VSM-I-A-16-JA16	●	●		16		●		16	
VSM-AP-16-JA16		●	●	16		●		16	
VSM-I-AP-16-JA16	●	●	●	16		●		16	
8x8 and 16x16 RJ45 on Outputs with Serial to UR232 Receivers									
VSM-16-JR16				16			●	16	UV232B-R
VSM-I-16-JR16	●			16			●	16	
VSM-A-16-JR16		●		16			●	16	
VSM-I-A-16-JR16	●	●		16			●	16	
VSM-AP-16-JR16		●	●	16			●	16	
VSM-I-AP-16-JR16	●	●	●	16			●	16	

Specifications:

Video Inputs:	8 or 16 VGA (HD15) Female connectors
Video Outputs:	8 or 16 VGA (HD15) or RJ45 Female connectors
Resolutions Supported:	PC resolutions up to 1900x1200 @ 60 Hz or HDTV (YPbPr) to 1080p
Video Level:	-0.3v to 0.7v (1 V p-p) on RGB, 0 to 5v DC on Sync
Audio Inputs:	Unbalanced Stereo on standard units
Audio Input Levels:	0 to +4dBu (0.78 to 1.23Vrms) line level
Audio outputs:	Balanced Stereo on screw terminals
Audio output Levels:	-10dBV or +4dBu (for models with Pro Audio)
Audio Bandwidth:	10 Hz to > 10 MHz (could pass through analog or digital S/PDIF audio sources)
Audio Gain Range:	-24 dB to +6 dB on Pro units, fixed at 0 DB on standard models
Temperature:	Operating: 32 to 122°F (0 to 50°C); Storage: –40 to +185°F (–40 to +85°C)
Power:	100VAC-240VAC 50/60Hz (built-in universal power supply)
MTBF:	90,000 hours (calculated estimate)
Dimensions:	3.5" High x 19" Wide 12.78" Deep
Enclosure:	Steel & Aluminum
Weight:	9.4 lbs