RENKUS-HEINZ

VARIA Modular Installation Array Technology

VARIA's fully modular design enables cabinets to be easily configured as flown Modular Point Source Arrays, powerful Line Arrays, or low profile Horizontal Arrays. With a range of vertical and horizontal dispersion angles and Renkus-Heinz's unique Transitional WaveGuides, VARIA's highly configurable enclosures make it easy to custom design a system for every application.

VARIA VA101 (self-powered) and VX101 (externally powered) cabinets are available in 7.5°, 15° and 22.5° arrayable enclosures. Each enclosure is available with one of five different waveguides including 60°, 90° and 120° patterns, as well as proprietary Progressive WaveGuides that can transition from 60° to 90° or 90° to 120° seamlessly within each cabinet. Matching VX/VA15S 15-inch subwoofers can be flown alongside, behind, or at the top of the array, in standard or cardioid pattern. The result is a system that can be uniquely configured to deliver coverage for the most challenging spaces.

Applications

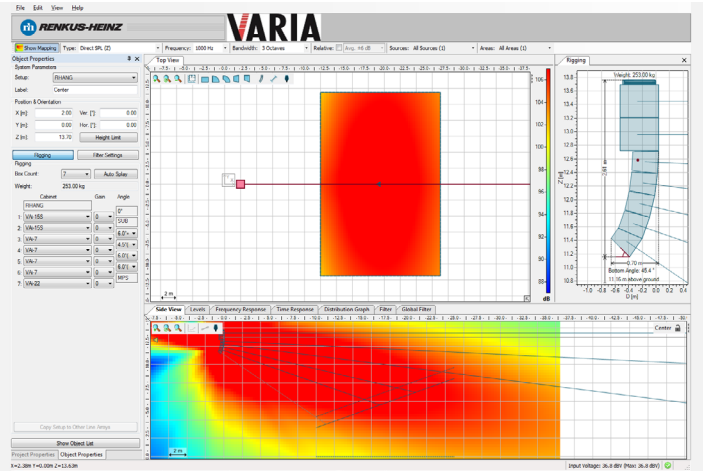
Live Music, Theater, Performing Arts
Auditoriums and Lecture Theaters
Multi-purpose spaces
Sporting facilities
Reverberant spaces
Weather resistant outdoor applications

VERSATILE POWERFUL MUSICAL

EASE Focus II Simulation Software

VARIA101 DLL data in EASE and EASE Focus II simulation software tools allows users and system designers to quickly and accurately predict the response of the array.

Simply define the audience areas and you can easily position the array, add or remove cabinets, and adjust its height, location and angle until you achieve the desired results in the simulation.



Modular Installation Array Systems

VARIA

22.5º Array Modules

VX101-22/x

Externally powered

VA101-22/x-RN

Self-Powered with RHAON

VA101-22/x-RD

Self-Powered with RHAON & Dante

- **Adaptive Directivity**
  Precisely tailor the coverage pattern to match any venue of any size or shape.
- **3 Vertical Coverage Angles Available**
  VA101-7/x-RN or RD 7.5° Vertical Array Module
  VA101-15/x-RN or RD 15° Vertical Array Module
  VA101-22 /x-RN or RD 22.5° Vertical Array Module
- **5 Horizontal Coverage Angles Available**
  Standard WaveGuides 60° 90° 120° 60°
  Transitional WaveGuides 60° to 90° & 90° to 120°
- **Dual Mode Operation**
  Modular Point Source Array
  Flexible Line Array
- **1" HF Driver and High Power 10" Woofer**
  Up to 134 dB Peak SPL when arrayed.
- **Concealed Flying Hardware**
  Internal flying hardware allows arrays of up to 12 cabinets deep
- **Weather Resistant and Custom Paint Options**

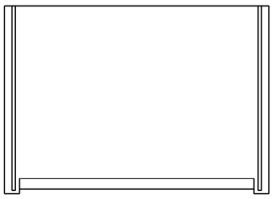
VX/VA101-22/x-RN & RD Technical Specifications

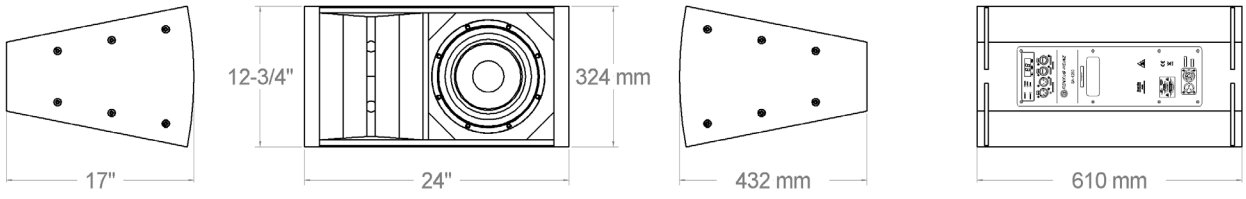
	VX101-22/x	VA101-22/x-RN & RD
Connector:	2 x Speakon® NL4; Four-place terminal strip, all paralleled	2 x XLR-3, In & Loop-out, Analog and AES 2 x RJ45, primary & secondary
Sensitivity:	LF: 98 dB-SPL @ 1 W/1 m; HF 110 dB-SPL @ 1 W/1 m	1.4 volt for rated output, analog
Power Handling:	LF 250 W AES, 500 W PGM @ 8 ohms. HF 40 W AES, 75 W PGM @ 8 ohms.	*See SA1250 amplifier specs below*
Latency:	N/A	6 ms plus any digital transport latency
Calculated Max. SPL:	128 dB (peak, whole space), 134 dB (peak, 4 or more loudspeakers)	128 dB (peak, whole space), 134 dB (peak, 4 or more loudspeakers)
Crossover Frequency:	1.6 kHz active electronic (See VARIA User Manual for specifics)	1.6 kHz active electronic
Frequency Response:	80Hz to 18kHz (+/- 3dB)	
Vertical Dispersion	22.5° (7.5° and 15° variants available)	
Horizontal Dispersion:	/6 = 60°; /9 = 90°; /12 = 120°; /69 = 60° to 90°; /912 = 90° to 120°	
Transducers:	Woofer: SSL10-7; High Frequency Driver: SSD1730-8; Replacement HF Diaphragm CD1730-8	
Enclosure:	0.75 in./19 mm Lite Ply® plywood	
Grille:	16 GA powder-coated, plated steel	
Finish:	Black (RAL9010) or White (RAL9011) paint . Custom color matching available.	
Mounting:	MPS interconnect plates, RHANG-VA101 (See VARIA User Manual for specifics)	
Weight:	56 lbs/25 kg.	
Dimensions:	24" w x 12-3/4" h x 17" d / 610 mm w x 324 mm h x 432 mm d	

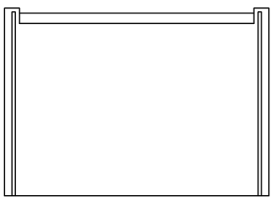
SA1250 Amplifier Specifications

	SA1250-RN	SA1250-RD *(Brooklyn II)*
Audio Connections:	2 x XLR-3, In & Loop-out, Analog and AES	2 x XLR-3, In & Loop-out, Analog and AES 2 x RJ45 Dante Primary & Secondary Ethernet
Latency:	6.25 ms	6.25 ms Analog & AES 6.25 ms + Dante transport latency
Max. Input Level:	+22 dBu, Analog, 0 dBFS digital	+22 dBu, Analog, 0 dBFS digital
Network Connections:	2 x RJ45, Looping Ethernet/RHAON	2 x RJ45 Dante Primary & Secondary Ethernet/RHAON *(Note: Dante and RHAON share a single or redundant Ethernet network.)*
User DSP:	Eight fully parametric filters, high and low shelf, high and low pass filters, delay to 340 ms.	
Software:	RHAON II	
Power Output:	LF= 1000 watts, @ 8 oms / HF = 250 watts @ 8 ohms. Multi-band peak and thermal limiting on both channels protects the drivers.	
Mains Voltage:	100-240 volts, 50/60 Hz auto-switching	
Power Consumption:	Idle: 200 mW. 1/8 power: 240 W (onset of limiting) 1/3 power: 550 W (hard limiting)	
Power Connector:	Neutrik powerCON TRUE-1	

Note: All analog inputs and outputs comply with AES Standard 48-2005 on interconnecting, grounding and shielding.







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