RENKUS-HEINZ

CA/CX Series

CX121M Non-Powered

CA121M-RD RHAON & Dante Redundant

12" LF + 1.75" HF Two-way, Coaxial Stage Monitor

Superb Performance, Exceptional Value

Drawing from years of experience and industry leading technologies like Complex Conic waveguides, CA/CX loudspeakers are designed to meet the needs of today's Installed-AV professionals, with a broad range of systems to provide effective solutions for every sound reinforcement challenge at competitive price points.

The new C Series loudspeakers incorporate the latest drivers to deliver clean, natural sound and tight pattern control. Unlike conventional loudspeaker designs, Coaxial designs result in consistent beamwidth over a wider frequency range, providing the natural, transparent sound that Renkus-Heinz is known for in even more compact packages.

Applications

- The CX/CA121M is a compact, 12" Coaxial loudspeaker perfect for any application where very small size, consistent directivity and great sonic performance are required.
- Stage monitoring for performance venues or rental/staging companies.
- Compact, high-output front-fill, or small pole mounted mains speaker using optional Pole Cup Adapter.
- Inherent baffle angle is ideal for cinema surround.
- Large format Under-Balcony.

Compact Design, Sizable Performance

The CX/CA121M was developed for applications needing consistent directivity and great sonics from a very compact cabinet. It features a coaxial transducer based on a 12" woofer and a 1.75" Voice Coil Compression Driver. The woofer and compression driver share a common motor structure for high performance in a very compact package. The result is natural, distortion free output at high sound pressure levels, ideal for all monitoring applications. The Coaxial design also results in ideal constant directivity, for optimal on and off axis performance.

Designed In Flexibility

Steep angle on the recessed input panels keep cable connectors contained with the footprint, resulting in clean stages. Standard 10 mm attachment points make installation and deployment simple and secure. The optional U-Bracket are available in either white or black paint for discrete installation, the optional M10 pole cup adapter is available for quick portable deployment, and combining the U-Bracket and the M10 pole adapter create an easy to use Yoke Mount for Pan and Tilt adjustment in portable scenarios.

Available externally powered or self-powered with the SA625 Amplifier. Self-Powered models bring RHAON II networking, monitoring and control, and AES & Dante digital audio. Self-powered CA121M Models can power one additional CX121M with fully processed, bi-amplified NL4 outputs. This additional layer of flexibility can reduce total system cost, or for applications that require even higher output than a single CA/CX121M can provide.

- **Coaxial Design**

  Combines HF and MF output into a single source, allowing for high output in an surprisingly small package.

- **Surprising Power**

  80 Hz to 20 kHz response and 130 dB, peak SPL.

- **Available SA625 Amplifier**

  SA625 amplifier offers high output, full protection limiting, analog, AES and Dante inputs.

- **Self-Powered System Advantage**

  A single CA121M with the SA625 can power one additional CX121M with Bi-Amplified, processed output via an NL4 output.

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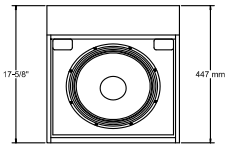
CA/CX121M Specifications

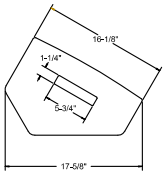
	CX121M	CA121M-RD
Connectors:	2 x speakON® NL4 Four-place terminal strip, all paralleled	2 x XLR-3, In & Loop-out, 2x Ethercon
Sensitivity:	96 dB (1W/1m, whole-space)	1.4 volt for rated output, analog
Power Handling:	Passive: 300 W AES, 600 W @ 8 ohms, Bi-amp: 300 W AES, 600 W PGM @ 8 ohms, LF 60 W AES, 120 W PGM @ 8 ohms, HF	See SA625 amplifier specs below
Crossover Frequency:	1.6 kHz, passive, bi-amp selectable	1.6 kHz active electronic
Weight:	2.5 lbs/13.4 kg	
Frequency Response:	80 Hz to 20 kHz (- 3dB)	
Max. SPL:	134 dB (peak, half-space)	
Dispersion	90 x 90 Constant Directivity 33 Degree Monitor Angle	
Enclosure:	3/4" lite-ply plywood	
Grille:	16 GA powder-coated, plated steel	
Transducers:	Transducer: SSC12-1	
Finish:	Black (RAL9011) or White (RAL9010) paint	
Mounting:	2 x M10 attachment points. Optional: UBRKT/CT121MB (black), UBRKT/CT121MW (white) Optional: EEM-M10 Pole Mount Adapter (Black)	
Dimensions:	17-$^{5}/_{8}$" w x 17" h x 12-$^{9}/_{16}$" d 448 mm w x 432 mm h x 319 mm d	

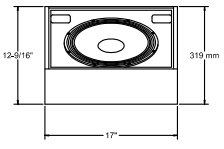
SA625 Amplifier Specifications

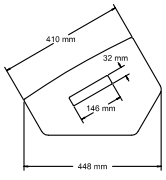
	SA625-RD
Audio Connections:	2 x XLR-3, In & Loop-out, Analog and AES 2 x RJ45 Dante Primary & Secondary Ethernet
Latency:	6.25 ms Analog & AES 6.25 ms + Dante transport latency
User DSP:	Eight fully parametric filters, high and low shelf, high and low pass filters, delay to 340 ms.
Software:	RHAON II
Max. Input Level:	+22 dBu, Analog, 0 dBFS digital
Network Connections:	2 x RJ45 Dante Primary & Secondary Ethernet/RHAON (Note: Dante and RHAON share a single or redundant Ethernet network.)
Power Output:	LF= 500 watts, @ 8 ohms / HF = 125 watts @ 8 ohms. Multi-band peak and thermal limiting on both channels protects the drivers. Neutrik NL4 provides processed, loop-out to second CX121M. (Looped-to loudspeaker must be in bi-amp mode.)
Mains Voltage:	100-240 volts, 50/60 Hz auto-switching
Power Consumption:	Idle: 200 mW. 1/8 power: 120 W (onset of limiting) 1/3 power: 240 W (hard limiting)
Power Connector:	Neutrik powerCON TRUE-1
Temperature Limits	Max.: 140º F/60º C, with no direct sun exposure; Min.: -22º F/-30º C; leave unit on to keep interior warm below 32º F/0º C.

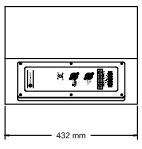
Note: All analog inputs and outputs comply with AES Standard 48-2005 on interconnecting, grounding and shielding.

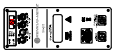




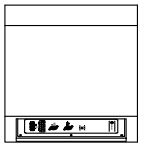








SA625-RD
Amplifier



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RH 903 Rev 4 SEPT 2026