

### 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 newest generation of Complex Conic horns, with the latest drivers to provide clean, natural sound and tight pattern control. Unlike conventional loudspeaker designs, Complex Conic horns provide consistent beamwidth over a wider frequency range, with the natural, transparent sound that Renkus-Heinz is known for. And as with all Renkus-Heinz products, C Series loudspeakers are backed by Renkus-Heinz's renowned worldwide customer support.

#### Applications

- The CX/CA81 is a compact, 8" Complex Conic loudspeaker perfect for any application where very small size, consistent directivity and great sonic performance are required.
- Side fill or under balcony applications in House of Worship
- Foreground music systems
- High quality distributed sound systems
- Monitoring and fold back applications

### Compact Design, Sizable Performance

The CX/CA81 was developed for applications needing consistent directivity and great sonics from a very compact cabinet.

It features a 1.4" voice coil high frequency compression driver with a 1" throat coupled to a Complex Conic horn. The patented Complex Conic horn eliminates high frequency beaming and provides wide angle coverage out to 20 kHz and beyond. The high-efficiency 8" woofer produces a strong low end. Together these deliver a surprisingly high 123 dB peak output level from 90 Hz to 20 kHz.

### Designed In Flexibility

Twelve M6 Universal Mounting Points and 10 mm u-bracket mounting plates make installation easy and clean. The Complex Conic horn is field rotatable allowing the installer the flexibility of installing the loudspeaker either vertically or horizontally while maintaining the dispersion necessary for the project.

The CX/CA81 and it's (optional) matching U-Bracket are available in either white or black paint allowing them to blend into most environments.

Available externally powered or with four flavors of built-in amplification; RHAON II networking, monitoring and control, and Dante digital audio, the CX/CA81 brings new levels of versatility to compact loudspeakers.

## CA/CX Series

<b>CX81</b>	Non-Powered
<b>CA81-A</b>	Powered, Analog
<b>CA81-RN</b>	RHAON Empowered
<b>CA81-RD</b>	RHAON & Dante Redundant

## 8" LF + 1" HF Two-way, Complex Conic Loudspeaker



- **Complex Conic Horn**  
Consistent directivity, superior sonics and field rotatable.
- **Surprising Power**  
90 Hz to 20 kHz response and 123 dB, peak SPL.
- **Compact**  
Just 21 x 10-1/2 x 10-5/16 inches/533 x 262 x 267 mm.
- **Optional U-Bracket Mount**  
Allows easy horizontal mounting and aiming.
- **Available SA625 Amplifier**  
SA625 amplifier offers high output, full protection limiting, analog, and optional AES and Dante inputs.

## CA/CX81 Specifications

	CX81	CA81-A	CA81-RN	CA81-RD
<b>Connectors:</b>	2 x Speakon® NL4 Four-place terminal strip, all paralleled	2 x XLR-3, In & Loop-out	2 x XLR-3, In & Loop-out, Analog and AES 2 x RJ45, primary & secondary	
<b>Sensitivity:</b>	96 dB (1W/1m)		1.0 volt for rated output, analog	
<b>Power Handling:</b>	Passive: 125 W AES @ 16 ohms, Bi-amp: 125 W AES @ 16 ohms, LF 20 W AES @ 16 ohms, HF		See SA625 amplifier specs below	
<b>Crossover Frequency:</b>	2.2 kHz, passive, bi-amp selectable		2.2 kHz active electronic	
<b>Weight:</b>		25 lbs/11.3 kg		
<b>Frequency Response:</b>		90 Hz to 20 kHz (+/- 3dB)		
<b>Max. SPL:</b>		123 dB (peak, whole space)		
<b>Dispersion</b>		120° horizontal x 60° vertical, Rotatable Complex Conic Horn		
<b>Enclosure:</b>		11 ply birch plywood		
<b>Grille:</b>		16 GA powder-coated, plated steel		
<b>Transducers:</b>		Woofer: SSL8-20; High Frequency Driver: SSD1445-16; Replacement HF Diaphragm CD1445-16		
<b>Finish:</b>		Black (RAL9010) or White (RAL9011) paint		
<b>Mounting:</b>		12 x M6 UMH points; 2 x M10 u-bracket nutplate. Optional: UBRKT/CT81B (black), UBRKT/CT81W (white)		
<b>Dimensions:</b>		10- <sup>5</sup> / <sub>16</sub> " w x 21" h x 10- <sup>1</sup> / <sub>2</sub> " d 262 mm w x 533 mm h x 267 mm d		

## SA625 Amplifier Specifications

	SA625-A	SA625-RN	SA625-RD (Brooklyn II)
<b>Audio Connections:</b>	2 x XLR-3, In & Loop-out, Analog	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
<b>Latency:</b>	6.25 ms	6.25 ms	6.25 ms Analog & AES 6.25 ms + Dante transport latency
<b>User DSP:</b>	None	Eight fully parametric filters, high and low shelf, high and low pass filters, delay to 340 ms.	
<b>Software:</b>	None	RHAON II	RHAON II and Dante Controller
<b>Max. Input Level:</b>	+22 dBu, Analog	+22 dBu, Analog, 0 dBFS digital	+22 dBu, Analog, 0 dBFS digital
<b>Network Connections:</b>	None	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.)
<b>Power Output:</b>		LF= 250 watts, @ 16 ohms / HF = 125 watts @ 16 ohms. Multi-band peak and thermal limiting on both channels protects the drivers. Neutrik NL4 provides processed, loop-out to second CX81. (Looped-to loudspeaker must be in bi-amp mode.)	
<b>Mains Voltage:</b>		100-240 volts, 50/60 Hz auto-switching	
<b>Power Consumption:</b>		Idle: 200 mW. 1/8 power: 120 W (onset of limiting) 1/3 power: 240 W (hard limiting)	
<b>Power Connector:</b>		Neutrik powerCON TRUE-1	
<b>Temperature Limits</b>		Max.: 140° F/60° C, with no direct sun exposure; Min.: -22° F/-30° C; leave unit on to keep interior warm below 32° F/0° C.	

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

