

CPL⁺™ Series

CPL™ 8L⁺ - Passive Column Array Speaker



PRELIMINARY



Description

The Crest Audio® CPL™ 8L⁺ is a passive column array loudspeaker designed for high quality transmission of speech, music playback, public address and live performance reinforcement applications where space is at a premium.

The CPL 8L⁺ can be utilised for both permanent installations and portable live sound applications. Perfect for public address, monitoring and background audio reinforcement purposes typically required in houses of worship, clubs, bars/restaurants, retail outlets plus education and corporate meeting facilities or anywhere high quality discrete audio distribution is required.

The CPL 8L⁺ is equipped with eight 3 inch full-range Neodymium speakers having a 0.75 inch voice coil. The directivity pattern of the loudspeaker is measured at 90° horizontal and 20° vertical providing a wide yet well distributed audio coverage with exceptional time alignment between resonating components. Impedance of the loudspeaker is 4Ω allowing for easy daisy chaining. Connectivity is made via either two looping 4-pin Twist-Lock or one 4-pin Euroblock connectors.

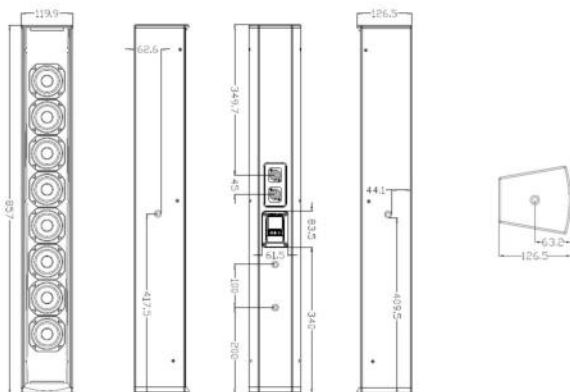
The CPL 8L⁺ enclosure is built from prime-grade 12 mm plywood that offers sturdy mechanical and low resonant electro-acoustic characteristics together with a heavy-duty steel grille backed with acoustic foam to ensure maximum protection of the internal components.

Features

- **Passive column array loudspeaker**
- **Eight 3" Full-range Neodymium speakers, 0.75" VC**
- **Continuous power handling: 250 Watts**
- **Nominal impedance: 4 Ohms**
- **Coverage pattern (HxV): 90° x 20°**
- **Connectors: 2 x 4-pin Twist-Lock & 4-pin Euroblock**
- **2+1/2- Loop Through**
- **12 mm Plywood construction**
- **Sealed box system**
- **6 x M8 suspension points (1 top, 1 bottom, 1 each side, 2 rear)**
- **Various mounting options**
- **Textured polyurea paint**
- **Available in Black and White**

Configuration:	Passive Column Array Speaker	Pole Mount:	Optional with special adapter
Power Continuous (Watts):	250	U-Bracket:	No
Power Peak (Watts):	1,000	Enclosure Design:	Trapezoidal
Sensitivity (1W/1m):	95 dB	Enclosure Material:	Plywood (12 mm)
Max SPL Peak:	126 dB	Black Finish:	Textured Polyurea Paint
LF Driver:	8 x Crest Audio FSN030.71 - 3" (70 mm)	RAL #:	TBA
Woofer Voice Coil:	0.75" (20 mm)	White Finish:	Textured Polyurea Paint
HF Driver:	No	RAL #:	TBA
HF Driver Voice Coil:	n/a	Tweeter Protection:	No
Nominal Coverage (HxV):	90° x 20°	Rubber Feet:	No
Frequency Range (-10 dB):	130 Hz - 20 kHz	Handles:	No
Frequency Response (±3 dB):	TBA Hz - TBA kHz	Loop Thru (2+2-):	Yes
Nominal Impedance:	4 Ohms	Logo Position on Grille:	Bottom Center
Input Connectors 1:	2 x 4-pin Twist-Lock (NL4 Style)	Logo Size:	25 x 25 mm
Input Connectors 2:	1 x 4-pin Euroblock	Grille Foam Backing:	Yes (acoustically transparent)
Suspension Points:	6 x M8	Grille Mesh Size (mm):	3 x 12
Suspension Points Location:	1 x Top, 1 x Bottom, 1 x Left, 1 x Right	Monitor Tilt Angle:	No
Suspension Points Rear:	2 x M8 (for optional Wall- or Pole Mount Adapter)	Net Weight:	11 lbs (5.0 kg)
Mounting Points for U-Bracket:	No	Dimensions (HWD):	33.74 x 4.72 x 4.98 in (857 x 120 x 127 mm)

Dimensions



Accessories



Architect's & Engineer's Specifications

The passive column array loudspeaker shall consist of eight 3 inch (70 mm) full-range neodymium transducers with 0.75 inch (20 mm) voice coil.

Performance specifications of a typical production unit shall be: Measured sensitivity SPL at 1 m (3.3ft) with 2.83V input, shall be 95 dB-SPL. Usable frequency response shall extend from 130 Hz to 20 kHz (10 dB below rated sensitivity, in half-space, with no external equalization). Nominal impedance shall be 4 ohms. Rated power capacity shall be at least 250 Watts continuous power and 1,000 Watts peak power, defined as 3 dB above a test signal of filtered random noise.

The system shall be capable of even coverage at a nominal 90° horizontal through 20° distributed pattern.

The enclosure shall be constructed from prime-grade 12 mm plywood. The grille shall be of heavy-duty steel backed with acoustically transparent foam. The external wiring shall be via either two 4-pin Twist-Lock or one 4-pin Euroblock connectors. The loudspeaker shall be no more than 33.74 inches (857 mm) high by 4.72 inches (120 mm) wide by 4.98 inches (127 mm) deep weighing no more than 11 pounds (5.0 kg). The finish shall be a paintable lightly textured black or white.

The passive column array loudspeaker shall be the Crest Audio CPL™ 8L⁺.