

CPL⁺™ Series

CPL™ 12CM⁺ - 2-way Coaxial Stage Monitor



PRELIMINARY



Description

The Crest Audio® CPL™ 12CM⁺ is a compact passive two-way coaxial stage monitor designed to deliver powerful, clear and dynamic sound for onstage performances.

The CPL 12CM⁺ can be utilised for both permanent installations and portable live sound applications. Perfect monitoring and audio reinforcement purposes typically required in live venues, houses of worship, clubs, theaters, and education facilities or anywhere high quality audio monitoring is required.

The CPL 12CM⁺ is equipped with a premium 12 inch woofer having a 3 inch voice coil together with a 1.4 inch compression driver known for its smooth frequency response and non-fatiguing mid range. Directivity pattern of the loudspeaker is measured at 90° horizontal and 90° vertical providing a wide yet well distributed audio coverage with exceptional time alignment between resonating components. An internal advanced crossover network maintains time alignment, EQ and driver protection. Impedance of the loudspeaker is 8Ω allowing for easy daisy chaining. Connectivity is made via three looping 4-pin twist-lock connectors.

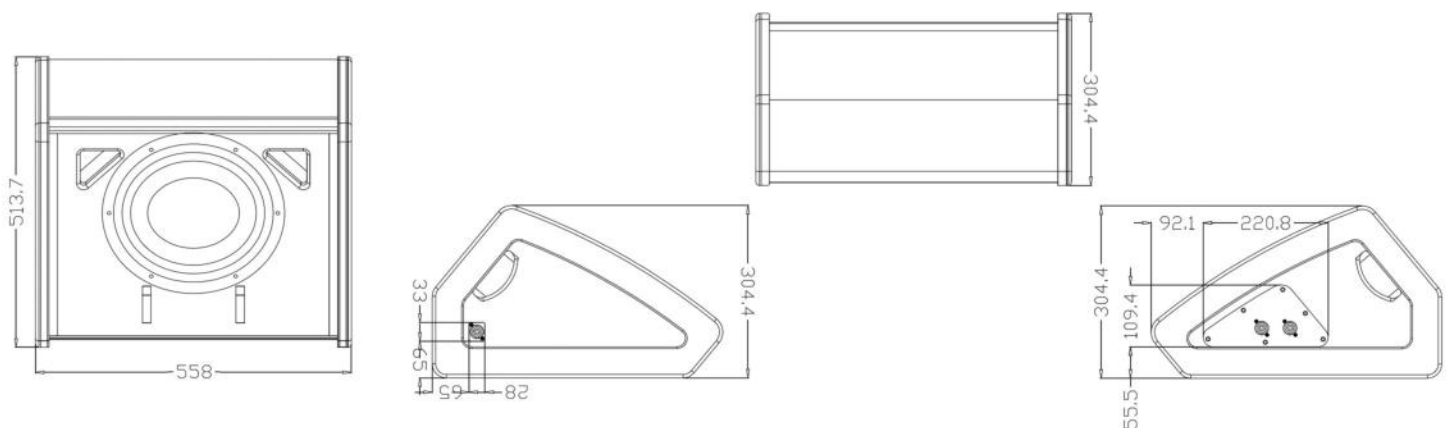
The CPL 12CM⁺ is a low profile stage monitor built from prime-grade 15 mm plywood that offers sturdy mechanical and low resonant electro-acoustic characteristics together with a heavy-duty steel grille backed with acoustic foam to ensure maximum protection of the internal components.

Features

- **Compact passive two-way coaxial stage monitor**
- **Premium 12" woofer, 3" voice coil**
- **1.4" Neodymium compression driver, 2.5" voice coil**
- **Continuous power handling: 400 Watts**
- **Nominal impedance: 8 Ohms**
- **Coverage pattern (HxV): 90° x 90° conical**
- **Connectors: 3 x 4-pin Twist-Lock**
- **2+1/2" Loop Through**
- **Advanced crossover network**
- **Tweeter protection**
- **Fullrange or Bi-amp operation**
- **15 mm Plywood Construction**
- **Textured polyurea paint**
- **Available in Black and White**

Configuration:	2-way Coaxial Stage Monitor	Pole Mount:	No
Power Continuous (Watts):	400	U-Bracket:	No
Power Peak (Watts):	1,600	Enclosure Design:	Low Profile Monitor
Sensitivity (1W/1m):	97 dB	Enclosure Material:	Plywood (15 mm)
Max SPL Peak:	129 dB	Black Finish:	Textured Polyurea Paint
LF Driver:	1 x Crest Audio KP12CM - 12" (305 mm)	RAL #:	TBA
Woofer Voice Coil:	3" (76 mm)	White Finish:	Textured Polyurea Paint
HF Driver:	1 x Crest Audio HF65FP1 - 1.4" (36 mm) Neodymium	RAL #:	TBA
HF Driver Voice Coil:	2.5" (65 mm)	Tweeter Protection:	Yes
Nominal Coverage (HxV):	90° x 90° Conical	Rubber Feet:	Yes
Frequency Range (-10 dB):	55 Hz - 18 kHz	Handles:	Yes (1 x Left & 1 x Right)
Frequency Response (±3 dB):	TBA Hz - TBA kHz	Loop Thru (2+/2-):	Yes
Nominal Impedance:	8 Ohms	Logo Position on Grille:	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 Twist-Lock (NL4 Style)	Grille Foam Backing:	Yes (acoustically transparent)
Suspension Points:	No	Grille Mesh Size (mm):	3 x 12
Suspension Points Location:	-	Monitor Tilt Angle:	30°
Suspension Points Rear:	-	Net Weight:	43.25 lbs (19.62 kg)
Mounting Points for U-Bracket:	No	Dimensions (HWD):	11.97 x 21.97 x 20.24 in (304 x 558 x 514 mm)

Dimensions



Architect's & Engineer's Specifications

The coaxial stage monitor loudspeaker shall consist of a 12 inch (305 mm) low frequency transducer with 3 inch (76 mm) voice coil and one 1.4 inch (36 mm) compression driver with a frequency dividing network installed within the enclosure.

Performance specifications of a typical production unit shall be: Measured sensitivity SPL at 1 m (3.3ft) with 2.83V input, shall be 97 dB-SPL. Usable frequency response shall extend from 55 Hz to 18 kHz (10 dB below rated sensitivity, in half-space, with no external equalization). Nominal impedance shall be 8 ohms. Rated power capacity shall be at least 400 Watts continuous power and 1,600 Watts peak power, defined as 3 dB above a test signal of filtered random noise.

The system shall be protected against damage from occasional over-powering limiting the power to the network and transducers. The stage monitor can either be operated in fullrange or bi-amp mode. The compression driver shall be capable of even coverage at a nominal 90° horizontal through 90° vertical conical distributed pattern.

The enclosure shall be constructed from prime-grade 15 mm plywood. The grille shall be of heavy-duty steel backed with acoustically transparent foam. The external wiring shall be via three 4-pin Twist-Lock connectors. The loudspeaker shall be no more than 11.97 inches (304 mm) high by 21.97 inches (558 mm) wide by 20.24 inches (514 mm) deep weighing no more than 43.25 pounds (19.62 kg). The finish shall be a paintable lightly textured black or white.

The coaxial stage monitor loudspeaker shall be the Crest Audio CPL™ 12CM⁺.