

CPL™ + Series

CPL™ 15CM⁺ - 2-way Coaxial Stage Monitor



PRELIMINARY



Description

The Crest Audio® CPL™ 15CM⁺ is a passive two-way coaxial stage monitor designed to deliver powerful, clear and dynamic sound for onstage performances.

The CPL 15CM⁺ can be utilized 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 15CM⁺ is equipped with a premium 15 inch Neodymium woofer having a 3 inch voice coil together with a coaxially mounted 1.4 inch Neodymium 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 controlled audio coverage. An internal advanced crossover network maintains EQ and driver protection. Impedance of the loudspeaker is 8 Ohms allowing for easy daisy chaining. Connectivity is made via three looping 4-pin twist-lock connectors.

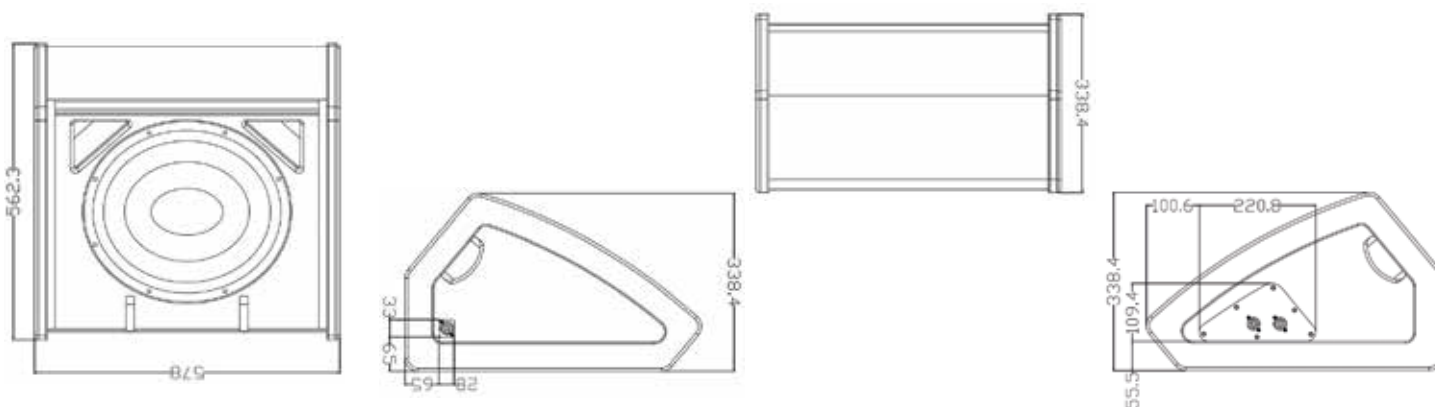
The CPL 15CM⁺ is a low profile stage monitor built from prime-grade 15 mm plywood that offers sturdy mechanical and low resonant electro-acoustic characteristics together with a heavy-duty steel grille backed with acoustic foam to ensure maximum protection of the internal components. Available in durable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

Features

- Passive two-way coaxial stage monitor
- Premium 15" Neodymium woofer, 3" voice coil
- 1.4" Neodymium compression driver, 3" voice coil
- Continuous power handling: 500 Watts
- Nominal impedance: 8 Ohms
- Coverage pattern (HxV): 90° x 90°
- Provides a consistent sound character all through it's rated coverage angle due to the coaxial configuration
- Connectors: 3 x 4-pin twist-lock
- 2+1/2- Loop Through
- Advanced crossover network
- Tweeter protection
- Full-range 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):	500	U-Bracket:	No
Power Peak (Watts):	2,000	Enclosure Design:	Low Profile Monitor
Sensitivity (1W/1m):	98 dB	Enclosure Material:	Plywood (15 mm)
Max SPL Peak:	131 dB	Black Finish:	Textured Polyurea Paint
LF Driver:	1 x 15" (381 mm) Neodymium - Crest Audio KP15CM	RAL #:	9004 Signal Black (Pantone: Black 6)
Woofer Voice Coil:	3" (76 mm)	White Finish:	Textured Polyurea Paint
HF Driver:	1 x 1.4" (36 mm) Neodymium - Crest Audio HF76FP1	RAL #:	9003 Signal White (Pantone: 705)
HF Driver Voice Coil:	3" (76 mm)	Tweeter Protection:	Yes
Nominal Coverage (HxV):	90° x 90°	Rubber Feet:	Yes
Frequency Range (-10 dB):	49 Hz - 17 kHz	Handles:	Yes (1 x Left & 1 x Right)
Frequency Response (±3 dB):	n/a	Loop Thru (2+/2-):	Yes
Nominal Impedance:	8 Ohms	Logo Position on Grille:	Center
Input Connectors 1:	2 x 4-pin twist-lock (NL-4 style)	Logo Size:	25 x 25 mm
Input Connectors 2:	1 x 4-pin twist-lock (NL-4 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:	41.5 lbs (18.8 kg)
Mounting Points for U-Bracket:	No	Dimensions (HWD):	13.31" x 22.76" x 22.13" (338 x 578 x 562 mm)

Dimensions



Architect's & Engineer's Specifications

The coaxial stage monitor loudspeaker shall consist of a 15 inch (381 mm) low frequency Neodymium transducer with 3 inch (76 mm) voice coil and one 1.4 inch (36 mm) Neodymium 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 98 dB-SPL. Usable frequency response shall extend from 49 Hz to 17 kHz (10 dB below rated sensitivity, in full space, with no external equalization). Nominal impedance shall be 8 Ohms. Rated power capacity shall be at least 500 Watts continuous power and 2,000 Watts peak power, defined as 6 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 full-range or bi-amp mode. The coaxial Neodymium compression driver shall be capable of even coverage at a nominal 90° horizontal through 90° vertical 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 13.31 inches (338 mm) high by 22.76 inches (578 mm) wide by 22.13 inches (562 mm) deep weighing 41.5 pounds (18.8 kg). The finish shall be a paintable lightly textured black or white.

The coaxial stage monitor loudspeaker shall be the Crest Audio CPL 15CM⁺.