

PC12

The MacPherson PC12 is a full-bandwidth, multi-application loudspeaker that excels in both audio quality and application flexibility. The 2-way design incorporates a sophisticated crossover network, allowing a single amplifier channel to produce high SPL with minimum frequency and phase anomalies. The internal components include a 12-inch woofer and a 1-inch high-frequency compression driver coupled to a constant-directivity horn. The high-frequency response pattern is 60-degrees horizontal by 50-degrees vertical. The cabinet design allows the PC12 to be stand or wall mounted, suspended, or simply placed on a flat surface. The PC12 can be used for a wide variety of live and playback sound reinforcement applications. These include corporate A/V, houses of worship, theater, and theme parks.

Bandwidth and clarity—that's the core of the PC12. The performance is uniformly impressive, all the way up to its 18kHz top end. The output is well behaved in both the frequency and phase domains, resulting in superb vocal and music reproduction. In addition, a major benefit is that unwanted interactions between loudspeakers and live microphones are minimized. This greatly increases a system's gain-before-feedback performance. The PC12 also exhibits a carefully controlled off-axis power response. This minimizes unwanted room interactions, resulting in improved intelligibility and vocal clarity.

The PC12's extended low-frequency performance is not typically found in enclosures of its compact size. Extensive internal bracing is utilized to limit unwanted vibrations. Internal damping materials were carefully selected for optimal performance.

An important PC12 attribute is application flexibility. The cabinet includes an integral heavy-duty cast aluminum cup. This allows the PC12 to deliver true high-fidelity performance in applications where stand-mounting is appropriate. Six carefully selected rigging points are included, allowing suspension at virtually any angle.

Two attachment points are specifically provided for use in "U-bracket" mounting arrangements. All faces of the enclosure are unobstructed, allowing a PC12 to be easily located in a soffit, placed on a ledge or shelf, or recessed into a theater set.



It's important to note that the PC12 is designed expressly for use in single-cabinet point-source applications, including stereo and split point-source configurations. The PC12's wide dispersion and rectangular cabinet geometry is optimized for applications other than narrow point-source horizontal arrays.

The PC12's enclosure is made of hardwood plywood, providing durability as well as minimal audio resonance. Available standard in black or white, the low-luster, multilayer paint finish provides a simple, elegant appearance. The PC12's small front profile was designed to minimize obstruction of sight lines. Two integral handles provide assistance during transportation and set up. Two NL4 connectors are located in a recessed area of the cabinet, offering both aesthetic and functional benefits.

- Features**
- Superb vocal and music reproduction
 - Extended low-frequency performance
 - 2-way design with integral crossover
 - Rugged hardwood plywood enclosure
 - Integrated pole cup for stand use
 - Multiple suspension points

PC12

PC12 Specifications

Standard Configuration

PC12: Full range, black or white finish

Frequency Response (on axis)

±2dB, 80Hz to 18kHz; usable to 60Hz

Coverage (between -6dB points)

Horizontal: 60 degrees

Vertical: 50 degrees

Nominal Impedance

8 ohms

Sensitivity

96dB, broadband, one watt, one meter

Maximum SPL

123dB, broadband, one meter, one minute

Recommended Amplifier Power

300 to 500 watts RMS into 8 ohms

Connectors

Two, Neutrik NL4

Pole Mounting

Cast-aluminum mounting cup, accepts
1.5-inch diameter pole

Suspension Points

Six, 5/16-18 threads

"U-Bracket" Attachment Points

Two, 5/16-18 threads

Components

LF: 12-inch woofer, 3-inch voice coil
woofer

HF: 1-inch exit, 44.4mm voice coil
compression driver

Enclosure

Hardwood plywood, low-luster
textured paint finish, powder-
coated perforated steel grill
with open-cell foam backing

Dimensions

21.7 inches high (55.0cm)

14.4 inches wide (36.6cm)

15.3 inches deep (38.7cm)

Weight

60.0 pounds (27.3kg)

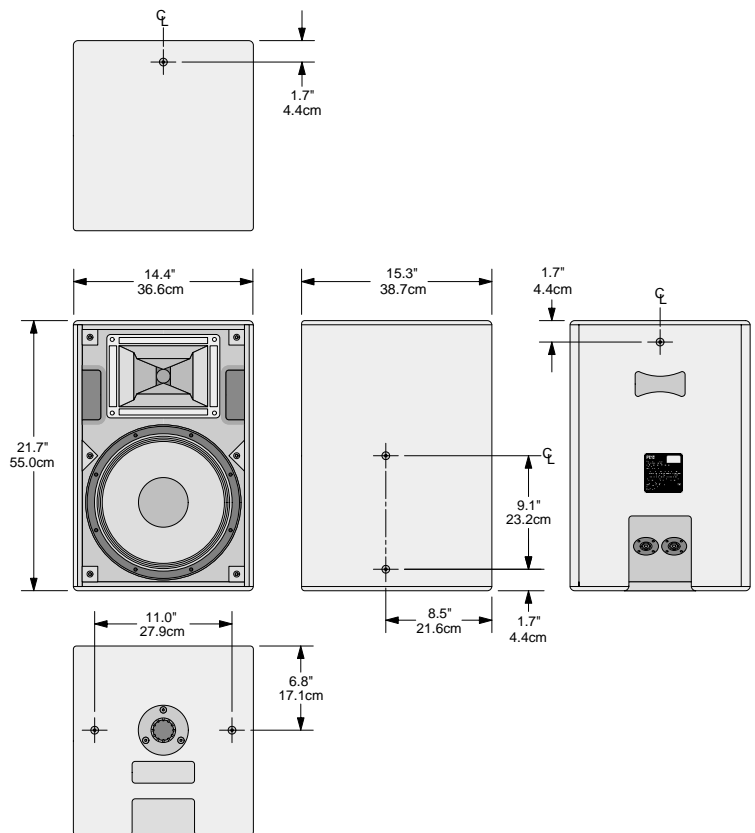
Options

Paint-ready finish, mounting cup filler plate, nylon runner kit
for cabinet bottom

Warranty

Three years from date of original purchase

Contents subject to change without notice. Dimensions provided
for general reference only.



macpherson

www.macpherson-inc.com