# by HARMAN

# High Sensitivity Two-Way Full-Range Loudspeaker with Horn-loaded 12" LF precision directivity

**Key Features:** 

- ▶ 300 mm (12 in) horn-loaded LF and large format HF driver - high sensitivity design with high continuous SPL capability.
- ▶ Large PT<sup>TM</sup> Progressive Transition<sup>TM</sup> waveguides provide broad band 90° x 50° pattern control, low distortion at high SPL levels and smooth frequency response.
- ▶ Rotatable low and high frequency waveguides allow either horizontal or vertical cabinet orientation.
- ► Sophisticated, steep-slope passive crossover network with switchable bi-amp/passive crossover modes.

## Applications:

- Performing arts facilities
- ▶ Live theaters
- Auditoriums
- Houses of worship
- ▶ Dance clubs
- Sports facilities

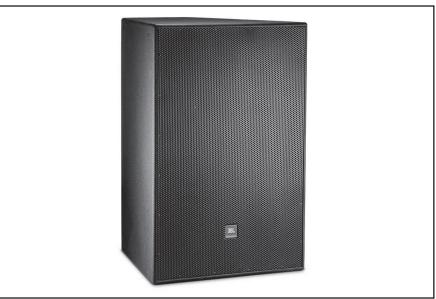
PD6212/95 is a Precision Directivity<sup>™</sup> loudspeaker designed for applications requiring high output capability with excellent pattern control. PD6212/95 can be utilized alone in music or speech systems where frequency extension to 80 Hz is adequate or combined with subwoofers to create extended bandwidth fullrange systems.

The M222-8A 300 mm (12 in) low frequency transducer features high sensitivity and low power compression for high continuous SPL capability. It is horn-loaded for additional sensitivity and improved pattern control. A newly designed low frequency phasing plug extends frequency response, providing smoother transition to the high frequency driver. The 2453H large format high frequency compression driver utilizes a neodymium magnet and pure titanium diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels

Large PT Progressive Transition waveguides achieve an optimum balance of extremely well controlled coverage with low distortion, smooth frequency response, and natural sound character. The low and high frequency horns are rotatable for cabinet positioning in either horizontal or vertical orientation. High-slope crossovers minimize band overlap and a well-controlled off-axis response enhances arrayability.

The loudspeaker can be operated in either biamplified or in full passive mode. In either case, digital signal processing is required in order to achieve specified performance. Input connectors include both Speakon® and CE-compliant covered barrier strip for hookup versatility. The cabinet is fitted with twenty M10 threaded suspension points, supporting a wide variety of installation approaches.

PD6212/95 is part of JBL's broad lineup of installed sound loudspeakers, complementing the larger PD700 mid-high cabinets with a more compact size and greater low frequency extension, and supplementing the smaller AE Series cabinets with higher SPL capability and larger horns for pattern control to a lower frequency.



### **Specifications:**

80 Hz to 18 kHz
90 Hz to 16 kHz
90° x 50°
10.5
10.2 dB
Bi-amp/Passive switchable
850 Hz
LF: 400 W (1600 W peak), 2 hrs. 300 W (1200 W peak), 100 hrs
HF: 75 W (300 W peak), 2 hrs
Passive Mode: 300 W (1200 W peak), 100 hrs.
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Bi-amp mode: LF: 134 dB SPL cont avg (140 dB peak)
HF: 133 dB SPL cont avg (139 dB peak)
Passive mode: 131 dB SPL cont avg (137 dB peak)
Passive Mode: 106 dB SPL
M222-8A 300 mm (12 in) driver with 75 mm (3 in) voice coil
8 ohms
109 dB SPL
2453H, 38 mm (1.5 in) exit compression driver with 100 mm (4 in)
voice coil
8 ohms
114 dB SPL
LF: PT-N95MF-1 600 x 600 mm (24 x 24 in)
HF: PT-H95HF-1 300 x 300 mm (12 x 12 in)
Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade
11-ply Finnish birch plywood.
20 points (5 top, 5 bottom, 4 each side, 2 rear), M10 threaded hard-
ware (eyebolts NOT included, see optional accessories).
Black DuraFlex <sup>™</sup> finish. White (-WH) available upon request.
WRC for outdoor placement where the loudspeaker will be sheltered
from direct exposure to the elements. WRX for direct exposure or
extreme environments, such as tropical or beach, or in areas with salt
air, extreme high humidity or rapid changes in temperature. See
WRC/WRX configuration sheet for details.
Powder coated 14 gauge perforated steel, acoustically transparent foam
backing (grille cloth backing on white units)
Neutrik Speakon® NL4, plus CE-compliant covered barrier strip termi-
nals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max
width 9 mm (.375 in) spade lugs. Speakon in parallel with barrier strip
for loop-through.
Mil-Std 810; IP-x3 per IEC529. For higher environmental ratings, use
WRC or WRX.
991 x 673 x 706 mm
(39.0 x 26.5 x 27.8 in)
69.0 kg (152 lb)
229-00009-01 kit of three M10 x 35 mm forged shoulder steel evebolts.

Optional Accessories: 229-00009-01 kit of three M10 x 35 mm forged shoulder steel eyebolts. 1 In bi-amp mode, with required active tuning.

<sup>2</sup> Resultant engineered acoustical response of crossover network and components. <sup>3</sup> AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2

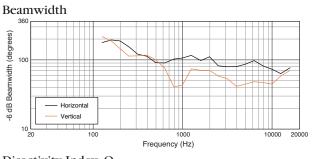
nr rating plug long-term 100 hr rating are specified for low-frequency transducers.

<sup>4</sup> IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.
<sup>5</sup> Calculated based on power rating and sensitivity, exclusive of power compression.

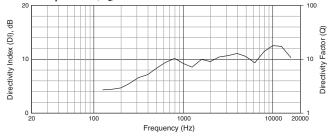
<sup>6</sup> Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

## ▶ PD6212/95 High Sensitivity Two-Way Full-Range Loudspeaker



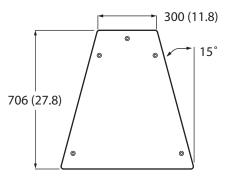
Directivity Index, Q



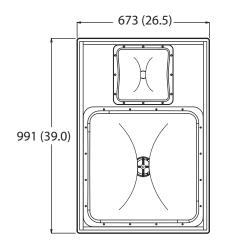
#### Dimensions

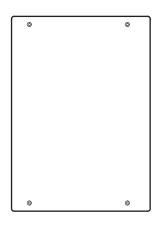
Dimensions in mm (in)

For more detailed dimensional information, refer to Application Data Sheet

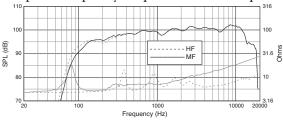




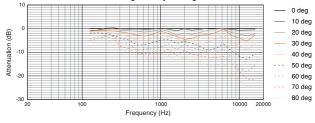




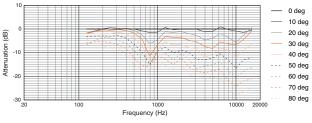
#### Bi-Amp FIR Frequency Response and Raw Impedance



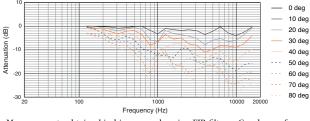
Horizontal Off-Axis Frequency Response



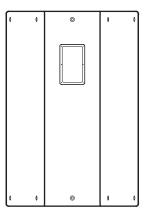
#### Vertical Up Off-Axis Frequency Response



#### Vertical Down Off-Axis Frequency Response

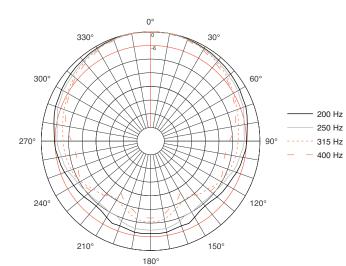


Measurements obtained in bi-amp mode using FIR filters. Graphs are from unaltered measured data.

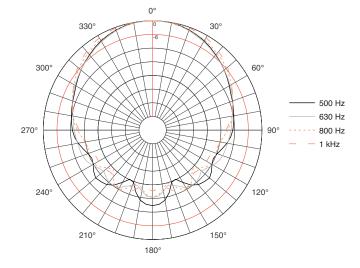


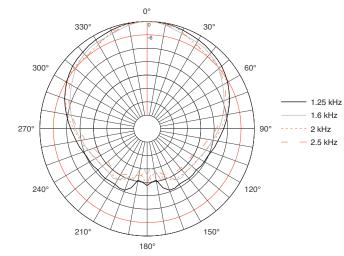
Front

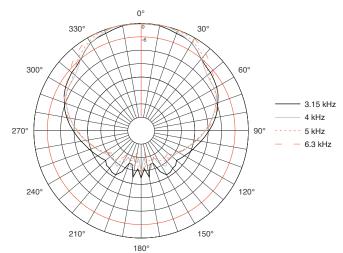


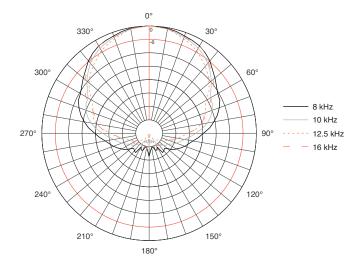


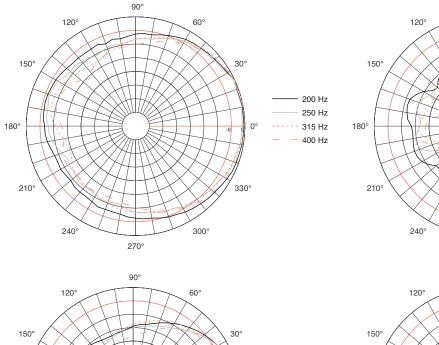
#### Horizontal 1/3 Octave Polars











Vertical 1/3 Octave Polars

1.25 kHz

1.6 kHz

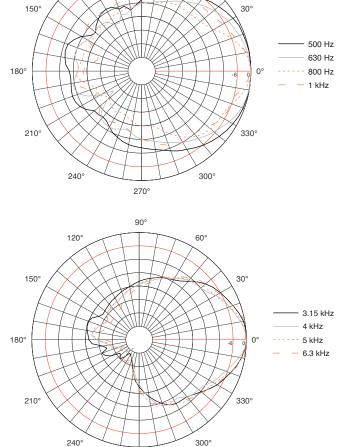
2.5 kHz

- 2 kHz

0

330°

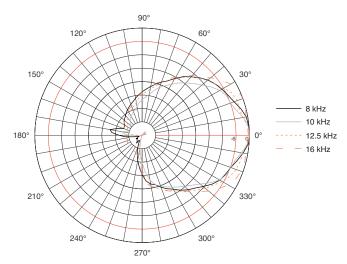
300°



270°

90°

60°



270°

180°

210°

240°

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