

PRX712

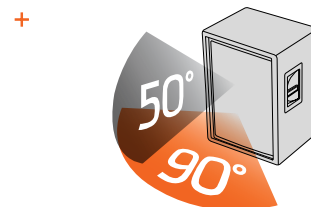
12" TWO-WAY FULL-RANGE
MAIN SYSTEM/FLOOR MONITOR

COMPACT, ULTRA-LIGHTWEIGHT SYSTEMS... PERFORMANCE YOU CAN TRUST

The PRX712 is the next step in the highly successful PRX Series and introduces the first use of JBL's patented Differential Drive® Technology with ferrite drivers. Differential Drive Technology incorporates lower mass in the ferrite magnet for reduced weight while maximizing power amp efficiency for greater heat dissipation and increased power handling. Powering the PRX712 is a 1500 Watt high performance, exceptionally low distortion bi-amplification system engineered to deliver clean power with maximum headroom to efficiently deliver smooth high frequencies and rich, deep bass response even at very high sound power levels. Compact, ultra-lightweight, the PRX712 uses JBL's tour tested technology throughout so you can trust it to deliver a lifetime of reliable performance.

+ **1500 WATT**
HIGH-PERFORMANCE
POWERED SPEAKER SYSTEM

+ **42.5 LB / 19.4 KG**
FOR EASY PORTABILITY



90° H / 50° V
BEST IN CLASS COVERAGE

KEY FEATURES

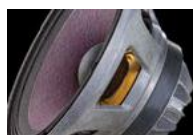
HIGH PERFORMANCE DRIVERS

37.5mm (1.5 in) Annular Polymer Diaphragm, Neodymium Magnet Compression Driver Resulting in Crystal Clear Highs and Sonic Accuracy. Wide coverage angles are achieved without compromise and harmonic distortion is minimized for maximum driver SPL without harshness.



LOW FREQUENCY

JBL's Tour Tested Differential Drive™ technology provides better heat dissipation, lower power compression and higher dynamic range versus conventional single-coil designs resulting in better sound quality and higher SPL. In addition, PRX700 woofers use magnetically saturated pole-pieces and an aluminum shorting ring which significantly reduces nonlinear distortion.



AMPLIFICATION

Highly efficient Class-D amplification drives Maximum Sound Pressure Levels are the best indication of the performance of a powered speaker and all PRX700 Series excel in this critical specification. JBL's ability to maximize the speaker and amplifier performance guarantees ample power, accurate dynamics and sonic purity.



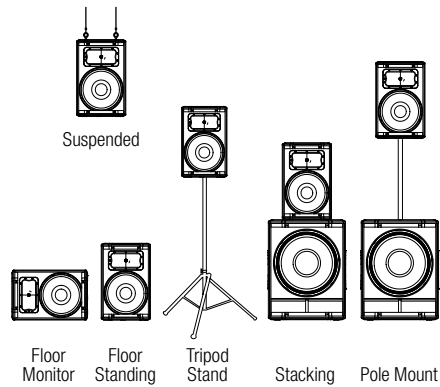
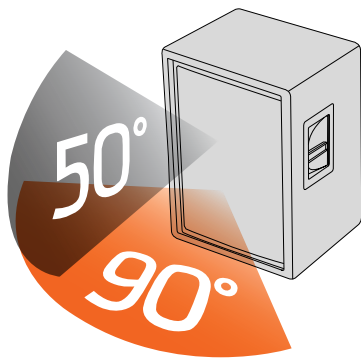
ROAD TOUGH CONSTRUCTION

Built from a combination of 25 mm (on the top and bottom for added rigidity) and 18 mm, strong, light-weight poplar plywood made structurally sound with tongue and groove joints. JBL's tour proven DuraFlex™ finish, grilles from dent-resistant 16 gauge steel, and light-weight glass-filled nylon handles ensure strength and durability. All M10 suspension points are constructed from 14 gauge steel and have been tested with a yield-strength of 1000 lbs. each. A seriously rugged package that will withstand the brutality of constant road use.



Hear the truth.





COVERAGE

System coverage is 90° horizontal and 50° vertical with excellent coverage throughout the system's bandwidth. The sound is smooth and consistent without hotspots so control is optimized.

CONFIGURATIONS

The PRX700 Series is a platform technology with a full range of models that integrate seamlessly to create multiple system options that excel in challenging audio environments with loud volumes. The PRX712 is one of the most compact and versatile in the PRX700 Series.

- Single speaker on a stand for public address
- Full-range stereo set up with two top cabinets and a sub-woofer for live performance or DJ
- Multiple cabinets for a scalable, highly professional sound reinforcement system
- Suspend any of the top cabinets for use in commercial installations or Houses of Worship

INPUT PANEL

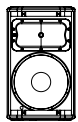
An integrated limiter circuit on the inputs guarantees signal integrity. System performance is optimized through the use of sophisticated Digital Signal Processing for EQ, crossover, amplifier control, and protection.

- DSP input limiter circuit, crossover, dynamic limiting, component optimization, selectable system EQ
- XLR-¼" combination mic/instrument inputs, RCA inputs, and XLR loop-through
- Easy to use mixing via selection switches on both the input and loop-thru

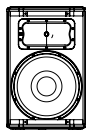
SPECIFICATION

PRX700

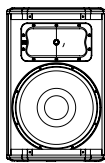
S E R I E S



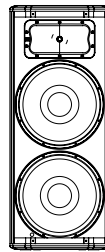
PRX710



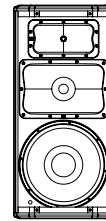
PRX712



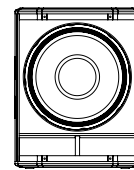
PRX715



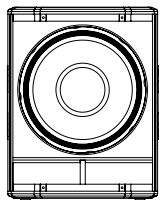
PRX725



PRX735



PRX715XLF



PRX718XLF

	PRX710	PRX712	PRX715	PRX725	PRX735	PRX715XLF	PRX718XLF
System Type:	Self powered 10", two-way, bass-reflex	Self powered 12", two-way, bass-reflex	Self powered 15", two-way, bass-reflex	Self powered 15", two-way, bass-reflex	Self powered 15", three-way, bass-reflex	Self powered 15", bass-reflex	Self powered 18", bass-reflex
Max SPL Output:	133 dB	135 dB	136 dB	139 dB	136 dB	131 dB	134 dB
Freq. Range (-10 dB):	50 Hz - 19.6 kHz	44.8 Hz - 19.6 kHz	42.9 Hz - 19.5 kHz	42 Hz - 18.5 kHz	35 Hz - 20 kHz	37 Hz - 113 Hz	30 Hz - 103 Hz
Freq. Response (±3 dB):	63.5 Hz - 18.5 kHz	55.7 Hz - 18.2 kHz	58.1 Hz - 17.2 kHz	49 Hz - 17 kHz	42 Hz - 20 kHz	44 Hz - 91 Hz	35 Hz - 87 Hz
Coverage Pattern:	100° x 60° nominal	90° x 50° nominal	90° x 50° nominal	90° x 50° nominal	90° x 50° nominal	-	-
Amplifier Design:	Class D	Class D	Class D	Class D	Class D	Class D	Class D
Power Rating:	1500 W (2 x 750)	1500 W (2 x 750)	1500 W (2 x 750)	1500 W (2 x 750)	1500 W (2 x 750)	1500 W	1500 W
Dimensions (mm):	498.7 x 335.6 x 322.3	612.4 x 384.6 x 341.4	714.4 x 445. x 358.7	1070.4 x 445 x 538	952.5 x 445 x 538	547.1 x 445 x 580	690.4 x 523.2 x 723.9
(H x W x D) (in):	19.63 x 13.21 x 12.69	24.11 x 15.14 x 13.44	28.13 x 17.52 x 14.12	42.14 x 17.52 x 21.18	37.5 x 17.52 x 21.18	21.54 x 17.52 x 22.48	27.18 x 20.6 x 28.5
Net Weight:	16.4 kg (36 lb)	19.4 kg (42.5 lb)	21.6 kg (47.5 lb)	37.19 kg (82 lb)	34.9 kg (77 lb)	25.4 kg (56 lb)	36.8 kg (81 lb)

PRX712 12" Two-Way Full-Range Main System/Floor Monitor

Features:

- ▶ Maximum SPL Output 135 dB Peak
- ▶ 12" Differential Drive® low-frequency driver for low-distortion and higher SPL
- ▶ 1.5" diameter next generation JBL neodymium compression driver
- ▶ 1500W (dual 750 watt) highly efficient Class-D amplifier
- ▶ Optimized EQ for monitor or front-of-house applications
- ▶ DSP input section, crossover, dynamic limiting, component optimization, selectable system EQ
- ▶ Professional XLR-1/4" combination inputs, RCA inputs, and XLR loop-through
- ▶ Integrated 36 mm pole mount socket with angle down tilt
- ▶ Integrated 12 x M10 suspension points
- ▶ Lightweight poplar plywood cabinets made structurally sound with tongue and groove joints and protected by JBL's tour proven DuraFlex™ finish



Application:

- ▶ PRX712 is a compact and versatile speaker in the PRX700 Series. It has been designed to deliver maximum performance for its weight and size as both a stage monitor and a front of house main PA. Two user selectable EQ settings are provided to optimize the system for either application. With a dual socket pole mount the PRX712 is a perfect match with a PRX718XLF subwoofer, offering a high performance self-powered sub/sat system.
- ▶ The PRX712 is comprised of a 12" Differential Drive® woofer, a 2408H-1, 37.5 mm (1.5 in) annular polymer diaphragm, neodymium compression driver mounted to a 90° by 50° horn, all driven by 1500 watt Class-D digital power amplifier. Sophisticated DSP is at the core of a fully featured input section, providing user selectable system EQ, protection, input sensitivity selection, cross-over functionality, dynamic limiting and discrete component optimization.
- ▶ All PRX700 cabinets are built from a combination of 25 mm (on the top and bottom for added rigidity) and 18 mm, strong, light-weight poplar plywood made structurally sound with tongue and groove joints. All PRX700 Series cabinets are protected by JBL's tour proven DuraFlex™ finish. Grilles are made from dent-resistant 16 gauge steel and handles are made from light-weight glass-filled nylon for added strength and durability. All M10 suspension points are constructed from 14 gauge steel and have been tested with a yield-strength of 1000 lbs. each.
- ▶ The amplifier input panel offers XLR or 1/4 inch jack compatibility and a sensitivity switch provides extra flexibility, making it possible to connect literally any sound source without using a mixer. Signal present and limiter lights indicate the system status and assist in setting the optimum level via the level control knob.

Specifications:

System:

System Type:	Self Powered 12", two-way, bass-reflex
Maximum SPL Output:	135 dB peak
Frequency Range (-10 dB):	Main: 44.8 Hz – 19.6 kHz Monitor: 44.8 Hz – 19.5 kHz
Frequency Response (±3 dB):	Main: 55.7 Hz – 18.2 kHz Monitor: 56.5 Hz – 17.7 kHz
Input Connectors:	2 x Balanced XLR / 1/4 inch input, 2 x unbalanced RCA input
Input Impedance:	20K Ohms (balanced), 10K Ohms (unbalanced)
Signal Indicators:	Limit: Yellow LED indicates peak output has been reached and dsp limiter is acting Signal: Green LED indicates signal present Power/Standby: Blue indicates system has power and ready to pass audio, Red indicates system has power but is in a power saving mode and will not pass audio.
EQ:	User selectable presets for Main or Monitor position
Dynamic Control (Input):	dbx Type IV™ limiter circuit
Crossover Frequency:	1.8 kHz

Amplifier:

Design:	Highly efficient Class-D amplifier
Power Rating:	1500W (750W x 2)
AC Power Input:	100V - 240V ~ 50/60 Hz

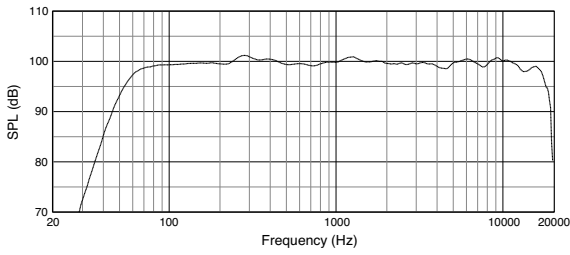
Speaker:

LF Driver:	1 x JBL 272G 305 mm (12 in) woofer
HF Driver:	1 x JBL 2408H-2 37.5 mm (1.5 in) annular polymer diaphragm, neodymium compression driver
Coverage Pattern:	90° x 50° nominal
Directivity Index (DI):	10.2 dB
Directivity Factor (Q):	10.4
Enclosure:	Asymmetrical, 18 mm, plywood
Suspension / Mounting:	Dual 36 mm pole socket, 12 x M10 Suspension Points
Transport:	1 x injection molded handle with backing cup
Finish:	Obsidian DuraFlex™ finish
Grille:	Powder coated, Obsidian, 16 gauge perforated steel with acoustical transparent black cloth backing.
Dimensions (H x W x D):	612.394 mm x 384.556 mm x 341.376 mm (24.11 in x 15.14 in x 13.44 in)
Net Weight:	19.4 kg (42.5 lb)
Gross Weight:	21.2 kg (48.0 lb)

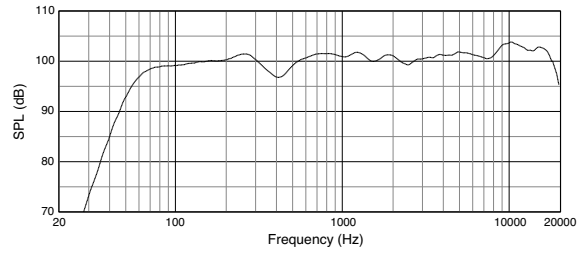
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published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

► PRX712 12" Two-Way Full-Range Main System/Floor Monitor

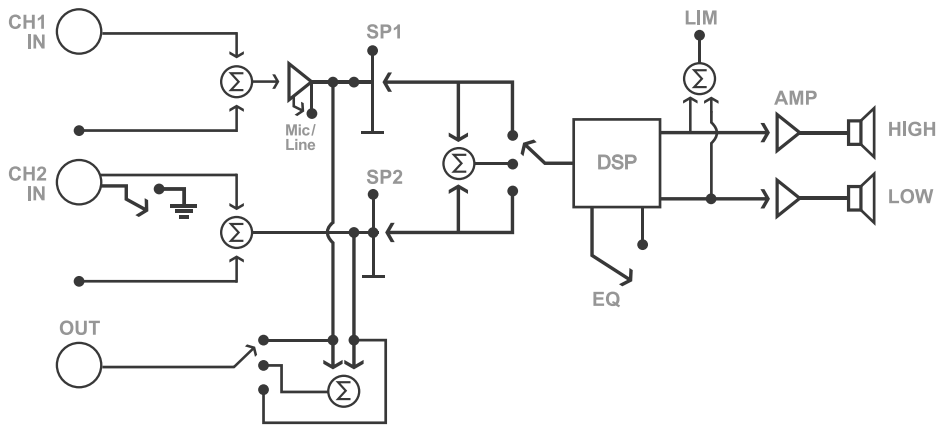
Frequency Response (Normal)



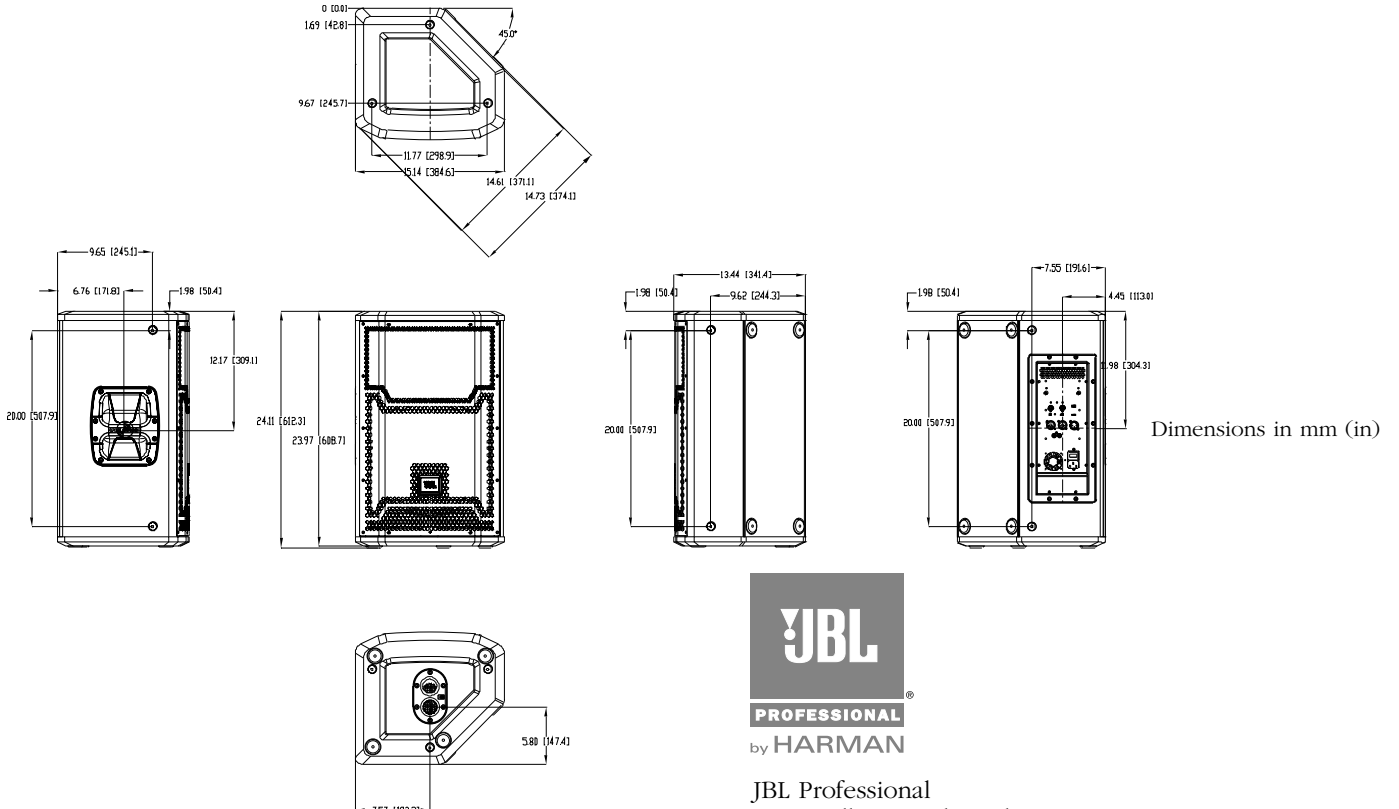
Frequency Response (Monitor)
Measurement performed in monitor position



BLOCK DIAGRAM
PRX712



Dimensions



Dimensions in mm (in)



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