

# RBN™ Series

Ribbon Equipped Powered Enclosures



Commercial Audio

RBN™ 118 Sub | RBN™ 215 Sub | RBN™ 10 | RBN™ 110 | RBN™ 112



## Description

Driven by a highly efficient power amp, the RBN™ enclosures combine best-in-class audio quality with Peavey's legendary reliability.

Ribbon drivers have been used in studio environments for decades, and Peavey developed a way to apply this high-quality sound technology to live applications resulting in a crystal-clear sound that no traditional compression driver can rival. To match the high-frequency performance of Peavey's ribbon driver, the RBN™ 112 is equipped with a dual voice coil neodymium Scorpion® speaker, which features Peavey's exclusive field-replaceable basket technology.

RBN enclosures feature two XLR/1/4" combination inputs, a 3.5mm input, and a mic/line level selection. Each input features digital infrasonic high-pass filters, a 9-band graphic EQ and delay. Each output features a sophisticated compressor/limiter and fourth order high-pass/low-pass filters for crossover output.

Completely user-friendly, the RBN speaker system features internal presets built into the 96K DSP, allowing users to quickly select the speaker's application or orientation via the LCD on the rear of the enclosure.

Internal temperature monitors combined with a variable speed cooling fan, plus level and clip indication, ensure reliable performance even during the most demanding conditions.

RBN subs are designed to deliver FULL power and deep sound where it matters most. Constructed of heavily braced 18mm birch plywood, the RBN subs are perfect for installations or portable applications where audio quality, reliability and efficiency are of the utmost importance.

## Features

- Proprietary 120mm true ribbon high frequency driver on low-coloration wave guide (RBN 112 / RBN 110)
- Two-way, bi-amplified, optimized loudspeaker system (RBN 112 / RBN 110)
- Two channel XLR/1/4" combination inputs
- Mic/line level selection
- On-board advanced digital processing
- Processed Thru output enables DSP to be used with external speaker cabinet
- Direct-Thru output combine function
- Dual voice coil neodymium Scorpion® speakers with field-replaceable basket assembly (RBN 112 only)
- Low Rider™ high power woofers, with field-replaceable baskets (RBN Subs only)
- Digital compression/limiting
- 9-band EQ
- Bass enhancement (RBN 112 / RBN 110 only)
- Delay 0-150ms
- Internal temperature monitor
- Auto-off power/power down
- Setup wizard for easy configuration
- Program EQ presets



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Specifications

	RBN™ 110	RBN™ 112	RBN™ 215 SUB	RBN™ 118 SUB
<b>Part Numbers</b>	03614720	03612690	03612720	03614700
<b>Description</b>	Two-way, Bi-amplified powered loudspeaker	Two-way, Bi-amplified powered loudspeaker	Powered subwoofer	Powered subwoofer
<b>Total Cont. Power</b>	525W	750W	1,000W	1,000W
<b>Total Peak Power</b>	1,050W	1,500W	2,000W	2,000W
<b>Low Freq Driver</b>	10" Premium woofer	12" Dual voice coil neodymium Scorpion® woofer	Dual 15" Low Rider™ high power woofers	18" Low Rider™ high power woofer
<b>High Freq Driver</b>	120mm true ribbon high-frequency driver	120mm true ribbon high-frequency driver		
<b>Sensitivity (at 1w/1m)</b>	96dB	99dB	101dB	96dB
<b>Maximum SPL (at 1m)</b>	126dB	130dB	133dB	125dB
<b>Frequency Response</b>	59Hz - 20kHz	52Hz - 20kHz	35Hz - 116Hz	38Hz - 112Hz
<b>Connectors</b>	Two channel XLR/1/4" combination inputs	Two channel XLR/1/4" combination inputs	Two channel XLR/1/4" combination inputs	Two channel XLR/1/4" combination inputs
<b>Mounting</b>	Subwoofer pole-mounting or speaker stand via built-in 1.375" diameter pole mount Versamount™ 70 mount (two groups of four M6 inserts top and bottom)	Subwoofer pole-mounting or speaker stand via built-in 1.375" diameter pole mount Versamount™ 70 mount (two groups of four M6 inserts top and bottom)	Subwoofer pole-mounting via built-in threaded 1.375" diameter pole mount plate, threaded pole supplied.	Subwoofer pole-mounting via built-in threaded 1.375" diameter pole mount plate, threaded pole supplied.
<b>Construction Material</b>	Ultra-braced, injection-moulded, steel grille	Ultra-braced, injection-moulded, steel grille	Black polyurethane paint, Birch plywood, steel grille	Black polyurethane paint, Birch plywood, steel grille
<b>Weight</b>	38lbs (17.3kg)	39lbs (17.7kg)	142lbs (64.4kg)	106lbs (48kg)
<b>Dimensions - HxWxD</b>	H-22.12" (562mm) W-12.375" (314mm) D-12.06" (306mm)	H-24.38" (617mm) W-14.07" (357mm) D-14.25" (362mm)	H-32.88" (835mm) W-22.07" (561mm) D-24.75" (629mm)	H-29.84" (758mm) W-22.07" (561mm) D-24.75" (629mm)

## ELECTRONICS AND AMPLIFIER SPECIFICATIONS:

**Electronic Input Impedance (nom):**

**Balanced Inputs:** 10K ohms, line level sensitivity selected.

**Unalanced Inputs:** 5K ohms, line level sensitivity selected.

**Mic Switch Sensitivity Increase:** 26dB

**Input Sensitivity for Full Output (Level Full CW) (Switch in LINE Position):** 0.23 V RMS

**Input Overload Point (Switch in LINE Position):** +14dBV

**Nominal Amplifier Frequency Response:** +0, -1dB from 10Hz to 30kHz

**Hum and Noise:** Greater than 90dB below rated power

**DDT™ Dynamic Range:** Greater than 14dB

**THD and IM:** Typically less than 0.1%

*Features and specifications subject to change without notice.*

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