

Loudspeaker System Specifications

Versarray™ 124 Sub

Preliminary Specifications – Subject to change without notice.

Frequency Response, 1 meter on-axis, swept-sine:

Anechoic environment: 40 Hz – 800 Hz (± 3 dB)

Half-space environment: 37 Hz

Usable Low Frequency limit (-10 dB point):

Anechoic environment: 34 Hz

Half-space environment: 32 Hz

Power Handling:

1,100 W continuous

2,200 W program

4,400 W Peak

Sound Pressure Level, 1 Watt, 1 meter:

Anechoic environment: 99 dB SPL, (2.83 V input)

Half-space environment: 105 dB SPL

Maximum Sound Pressure Level (1 meter):

Anechoic environment:

129 dB SPL continuous

135 dB SPL peak

Half-space environment:

135 dB SPL continuous

141 dB SPL peak

Transducer Complement:

1x 24 in. vented

Peavey® The Beast™ 24" subwoofer driver, with 5" voice coil and dual spiders.

Box Tuning Frequency:

39 Hz

Recommended Active Low-Pass Crossover Frequency Region and Slope:

120 Hz at 18 dB/octave minimum, recommended 24 dB/octave LR

Recommended Active High-Pass Filter Frequency and Slope:

34 Hz at 24 dB/Octave LR

Impedance (Z):

Nominal: 8.0 Ω

Minimum: 7.5 Ω

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Input Connections:

- 2 x 4 pin Neutrik® Speakon® inputs in Parallel
- 1 x 8 pin Neutrik Speakon input
- 1 x 4 pin Neutrik Speakon thru (for use with 8 pin Input)

Enclosure Materials & Finish:

18 mm 13 ply Baltic Birch plywood finished in Hammerhead™ polyurea coating, Black

Mounting provisions:

This unit is not designed for over head suspension. Six rubber feet for floor use.

Dimensions, Usage Orientation (H x W x D):

43.25 in. x 27.81 in. x 27.75 in.

Depth with casters: 32.20 in.

In transport orientation, the Depth becomes the Height, etc.

Net Weight:

220 lbs.

100 kg

Companion Speaker Systems (sold separately):

Versarray™ 112 line array module speaker system

Versarray™ 212 line array module speaker system

Features

- Peavey Exclusive “The Beast™” 24 inch Subwoofer
- Extended frequency response down to 32 Hz (half-space)
- 2200 Watts of Program Power Rating
- Patented UniVent™ vented cooling system
- Full Power Low Frequency Response down to 36 Hz!
- Four casters on the back with 4” wheels
- 2 pairs heavy-duty steel handles
- Black Hammerhead™ polyurea finish
- 16 Ga. steel grille for speaker protection
- Neutrik® Speakon® professional input connectors
- Made in U.S.A.

Description

The Versarray™ 124 Sub incorporates the new Peavey® high power The Beast™ 24” diameter subwoofer driver and a new compact cabinet design. The Versarray™ 124 Sub is a direct radiator vented subwoofer designed specifically for the most demanding Pro-Audio user.

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The Beast™ subwoofer driver in the Versarray™ 124 cabinet is Peavey's pinnacle of large-diameter subwoofer design. An outstanding 2,200 Watt program rating and extra-long cone excursion add up to amazing levels of clean, deep bass from a single 24" woofer. Incorporating a 5 inch diameter voice coil with dual spiders and long-throw construction designed in from the start, this reliable deep bass subwoofer driver goes down low and loud.

This makes the Versarray™ 124 Sub a superior choice for the bottom end of any high performance sound system, primarily designed for professional touring and high performance permanent install.

Extreme Bracing Cabinet Design

The Versarray™ 124 Sub cabinet is well braced and very stiff, as internal pressures produced by The Beast™ subwoofer driver can be very high. The Versarray™ 124 Sub's large dual vent area and long path length allow for a large volume of air to move with very low resistance. This is important due to the huge airflow volumes that The Beast™ subwoofer driver can produce. Each cabinet side wall and vent wall are tied together at multiple points using multiple interlocking girdle braces, making this one of the sturdiest subwoofer enclosures on the market. A knuckle-rap test will prove this immediately. The Versarray™ 124 Sub is constructed of premium 13 ply Baltic Birch plywood and is finished with a tough, durable Hammerhead™ polyurea finish, for good looks and durability. A 16 gauge powder-coated perforated metal grille covers the front of the system to protect the speaker from external damage.

The Versarray™ 124 Sub incorporates Peavey's patented UniVent™, covered under US patent #6,549,637. The UniVent™ venting system literally pumps air through the enclosure, exchanging the stale hot air inside the cabinet for the cooler outside air. This helps keep the woofer operating temperatures from getting so high, and increases reliability and reduces power compression under heavy continuous drive conditions. The air pumping action is achieved without excessive turbulence or any significant net asymmetry of total vent airflow. The large vent area and long path length allow for a large volume of air to move with very low resistance. This is important due to the huge air flow volumes that The Beast™ subwoofer driver can produce.

Input connection to the system is made via two 4 pin Neutrik jacks in parallel, an 8 pin Neutrik® jack, and a 4 pin Neutrik® thru jack is provided for bi-amping flexibility while maintaining superior signal integrity. The inclusion of a standard 4 pin Neutrik® jack in parallel for the main inputs allows for daisy chaining to another cabinet.

This single 24" bass enclosure can put out some extremely serious sound levels, and take 2,200 watts program of clean amplifier power, resulting in large area coverage with excellent punch and high reliability.

Speaker Cables

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For best results, do not daisy-chain the speaker cable runs, or use small speaker cables to power the Versarray™ 124 Sub, run a single dedicated speaker cable to each Versarray™ 124 Sub.

A minimum of 12 ga. Speaker cable is recommended, to help maintain damping factor, and due to the high amount of power that will be sent to the Versarray™ 124 Sub. If the speaker cable run is longer than 50 feet, we recommend locating the power amp nearer the Versarray™ 124 Sub, and running a line level signal further out to the power amp.