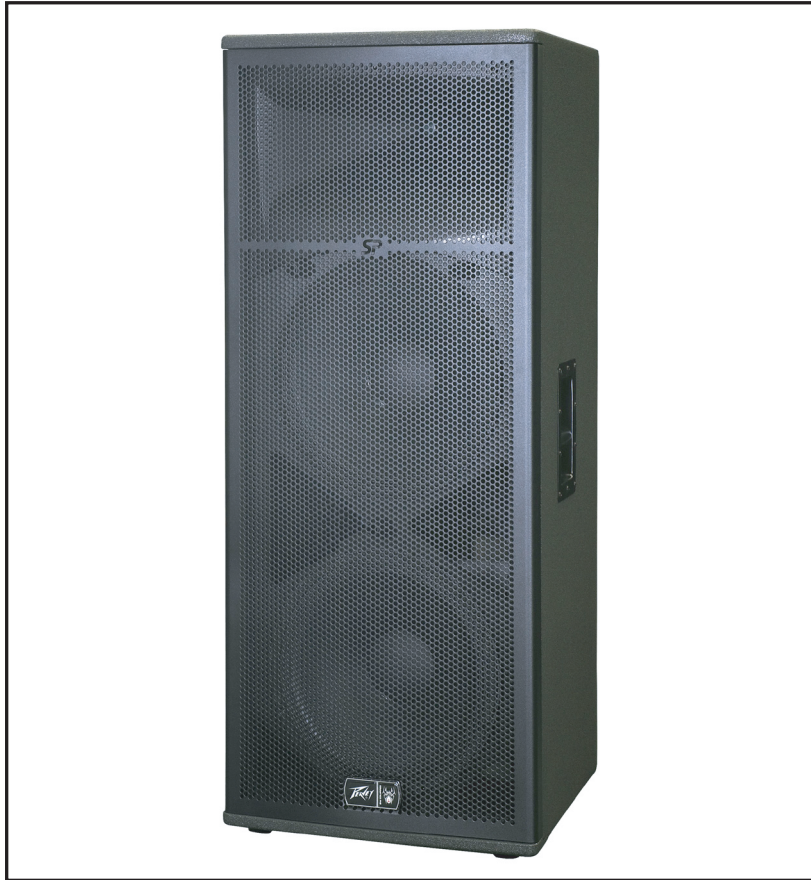


# SPECIFICATIONS

# SP® 4BX



Frequency response, 1 meter on-axis, swept-sine in anechoic environment:  
52 Hz to 18 kHz ( $\pm 3$  dB)

Usable low frequency limit (-10 dB point):  
45 Hz

Power handling:  
Full range:  
1,000 watts continuous  
2,000 watts program  
4,000 watts peak

Low frequency section:  
1,000 watts continuous  
2,000 watts program  
4,000 watts peak

High frequency section:  
50 watts continuous  
100 watts program  
200 watts peak

Sound pressure level, 1 watt, 1 meter in anechoic environment:  
Full range:  
100.0 dB SPL (2.83 V input)

Low frequency section:  
101 dB SPL (2.83 V input)

Mid/high frequency section:  
107 dB SPL (2.83 V input)

Maximum sound pressure level (1 meter):  
Full range:  
130 dB SPL continuous  
136 dB SPL peak

Low frequency section:  
131 dB SPL continuous  
137 dB SPL peak

Passive mid/high frequency section:  
129 dB SPL continuous  
135 dB SPL peak

Radiation angle measured at -6 dB point of polar response:  
90° horizontal by 40° vertical; the vertical main polar lobe is angled down 10° with respect to straight ahead being +10, -30°

Transducer complement:  
Low frequency section:  
2 x 15" woofer, vented  
Black Widow® 1508-8 HE SF

High frequency section:  
1 x 1" exit /51 mm voice coil  
RX™ 22CT compression driver on an asymmetrical Quadratic Throat CD horn

Box tuning frequency:  
Low frequency section: 58 Hz

Crossover frequency (internal passive):  
Low frequency – high frequency  
1,800 Hz

Recommended Active Crossover Frequency Region and Slope:  
Low Frequency – High Frequency:  
1,800 Hz at 12 dB/octave

Time Offset:  
Low frequency: 0.0 ms  
Mid/high frequency: 0.48 ms

Impedance (Z):  
Full range:  
Nominal: 4.0  $\Omega$   
Minimum: 4.0  $\Omega$

Low frequency:  
Nominal: 4.0  $\Omega$   
Minimum: 3.9  $\Omega$

Passive HF:  
Nominal: 8.0  $\Omega$   
Minimum: 7.9  $\Omega$

Input connections:  
Full range: two 1/4" phone jacks, one four-pin twist lock connector & bi-amp capability provided via an internal wiring jumper

Enclosure materials and finish:  
Hardwood panel coated with a Heavy Duty Polyurea finish. Casters are incorporated for portability.

Mounting provisions:  
This unit is not designed for overhead suspension; Four large rubber feet on bottom for floor use.

Dimensions (H x W x D):  
Front:  
49.63" x 20.5" x 23.75"  
1261 mm x 521 mm x 603 mm

Rear:  
49.63" x 12.63" x 24.31"  
1261 mm x 321 mm x 603 mm

Net weight:  
135 lbs. (61.4 kg)



## SPECIFICATIONS

## SP® 4BX

### Features

- Quasi three-way, full-range sound reinforcement system
- RX™ 22CT compression driver
- Two 15" BWX Black Widow® 4" VC woofer
- 2,000 watts program, 4,000 watts peak
- Patented Quadratic Throat Waveguide™ technology
- Asymmetrical horn aims the sound down 10° (at the audience, not over their heads)
- Sound Guard™ III tweeter protection
- Full-range inputs include a four-pin twist lock connector and two 1/4" phone jacks
- Bi-amp capability via internal wiring jumper
- Trapezoidal enclosure
- Casters are incorporated for improved portability

### Description

The SP 4BX is a quasi three-way speaker system comprised of two 15" Black Widow BWX SF series woofer with high strength cones, and an RX 22CT compression driver loaded onto a constant directivity Quadratic Throat Waveguide.

The SP 4BX has a trapezoidal-shaped enclosure, which reduces the buildup of standing waves inside the enclosure to minimize mid-bass and midrange coloration. The enclosure is constructed of a hardwood panel coated with a polyurea finish for increased durability and ruggedness. Casters are incorporated to improve portability. A full-length, wrap-around perforated steel grille protects the front of the enclosure.

The two-way system consists of two 15" Black Widow BWX SF series woofers with high strength cones and dust caps. The woofer section is capable of over 1,000 watts of continuous power handling (AES Std 2-1984). The high frequencies are handled by a 2" RX22CT titanium diaphragm compression driver

utilizing ferrofluid cooling.

This superb driver is coupled to a Quadratic Throat Constant directivity waveguide (U.S. Patent #6,059,069) to provide smooth, even response, low distortion and good high frequency dispersion. This horn has an asymmetrical vertical polar response, aiming the main energy lobe down 10 degrees so it is aimed at the audience instead of over their heads. This reduces ceiling reflections, ensuring greater clarity and gain before feedback.

Full-range input connection to the system is made via two 1/4" phone jacks and a four-pin twist lock connector in parallel, and bi-amping flexibility is provided via an internal jumper that can be accessed by unscrewing and removing the input cup. The internal passive crossover features the Peavey-exclusive Sound Guard protection circuit for the tweeter and an advanced topology crossover with high-performance components to provide high power handling and reliability. Sound Guard provides long- and medium-term driver overload protection without impairing musical transients or dynamics on either the midrange or the tweeter when the system is used full range or when it is bi-amped. The crossover provides driver roll-off and protection as well as driver EQ for the woofer and horn for a clean, clear and smooth response. High-quality, reliable crossover components include polypropylene capacitors and high-current inductors. The optimal integration of the crossover with the selected drivers results in a smooth frequency response from 52 Hz to 18 kHz.

Despite its compact dimensions, this system can produce very high sound levels and handle 2,000 watts program power, resulting in high articulation and long-term reliability.

### Mounting

This unit is not designed for overhead suspension. Four large rubber feet are included on the bottom for floor use.

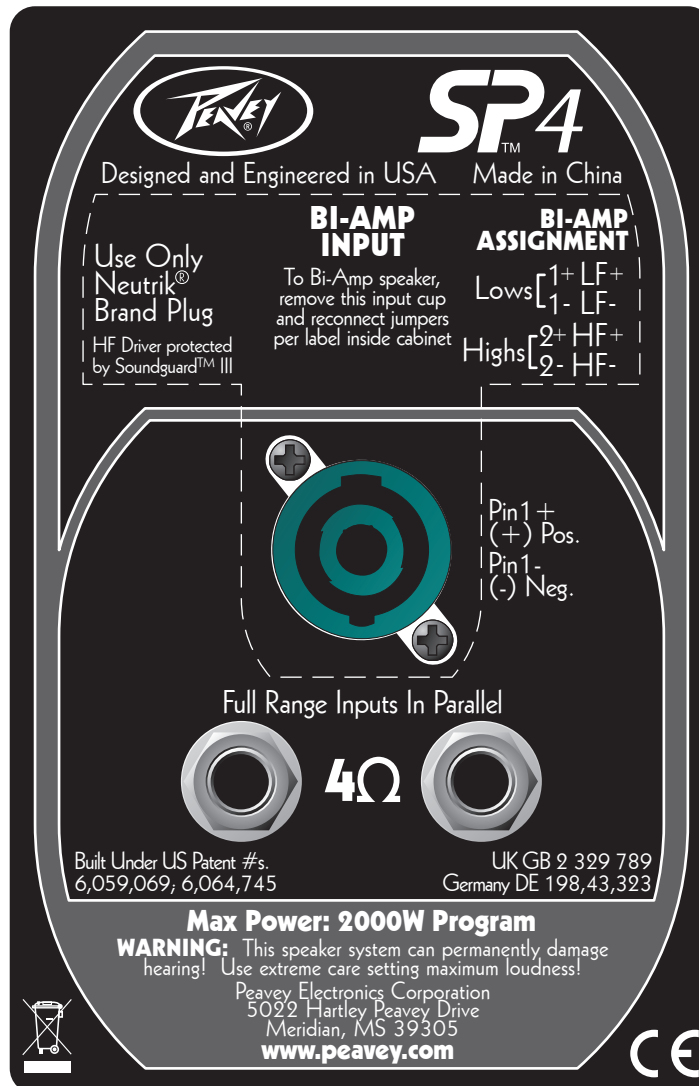
# SPECIFICATIONS

# SP® 4BX

### Architectural & engineering specifications

The loudspeaker system shall have an operating bandwidth of 52 Hz to 18 kHz. The nominal output level shall be 100.0 dB when measured at a distance of 1 meter with an input of 1 watt. The nominal impedance shall be 4.0 ohms. The maximum continuous power handling shall be 1,000 Watts, with maximum program power of 2,000 watts, peak power input of at

least 4,000 watts and a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 90 degrees symmetrical about the center axis in the horizontal plane, and +10, -30 degrees about the center axis in the vertical plane. The outside dimensions shall be 49.63" inches high by 20.5 inches wide by 23.75" inches deep. The weight shall be 135 lbs. The loudspeaker system shall be a Peavey model SP™ 4BX.





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or use the QR tag below



Features and specifications subject to change without notice.

Peavey Electronics Corporation 5022 Hartley Peavey Drive Meridian, MS 39305 (601) 483-5365 FAX (601) 486-1278



Logo referenced in Directive 2002/96/EC Annex IV  
(OJ(L)37/38,13.02.03 and defined in EN 50419: 2005  
The bar is the symbol for marking of new waste and  
is applied only to equipment manufactured after  
13 August 2005