



SPECIFICATIONS

Frequency response:

61 Hz to 18 kHz

Low frequency limit (-3 dB point):

61 Hz

Usable low frequency limit (-10 dB point):

52 Hz

Internal power amplifiers (@ 120 VAC line):

Woofer — 800 Watts peak dynamic power
400 Watts at clipping

Tweeter — 200 Watts peak dynamic power
100 Watts at clipping

Nominal sensitivity (1 Watt @ 1 meter, swept sine input in an anechoic environment):

100 dB

Maximum sound pressure level @ 1 meter:

130 dB music peak

Nominal radiation angle:

90° horizontal by 45° vertical

Transducer compliment:

BWX Black Widow® 12" weather-resistant woofer and RX™22 2" titanium diaphragm compression driver tweeter

Box tuning frequency (Fbox):

70 Hz



Specifications Quadra 12P

Electroacoustic crossover frequency:
1,800 Hz

Crossover type:
Internal, electronic two-way crossover with CD horn EQ, level matching, active bass boost and subsonic filtering. The horn is spatially aligned with the woofer, eliminating the need for phase alignment or signal time delay.

Crossover slopes:
18 dB/octave (third order) low pass and 18 dB/octave (third order) high pass, both with staggered poles and driver EQ.

Electronic input impedance (nominal):
10 k Ohms unbalanced, 20 k Ohms balanced.

Input connections:
One combo female XLR and 1/4" phone jack, and one male XLR providing balanced operation in parallel. Also has a 1/4" phone jack-based Loop Thru that allows other Quadra 12P units to be linked to a single unit for signal source and level control.

Contour switch:
Reduces mid-range by approximately 4 dB, from 200 Hz to 3 kHz.

Enclosure materials and finish:
Injection-molded, high-impact 1/4" thick polypropylene with internal ribbing and bracing, textured finish and a UL flame rating. Molded material is black.

Mounting:
Peavey Versamount™ 70 for flying (top or bottom of cabinet), Peavey array brackets and four rubber feet for floor use.

Dimensions:
Front: 23.65" H x 17.75" W x 14.00" D
601 mm x 451 mm x 356 mm
Rear: 22.25" H x 10.00" W x 14.00" D
565 mm x 254 mm x 356 mm

Optional accessories:
Floor monitor leg kit

Net weight:
56 lbs.

Shipping weight:
62 lbs.

Additional remarks:
Also available as a passively crossed-over unit, Quadra 12, 8 Ohms.

ELECTRONICS AND AMPLIFIER SPECIFICATIONS

Electronic input impedance (nominal):
Primary balanced input: 10 k Ohms unbalanced, 20 k Ohms balanced.
Loop Thru input: High-Z

Infrasonic filter protection:
36 dB/octave roll-off

For both power amps:
Nominal amplifier frequency response:
+0, -1 dB from 10 Hz to 30 kHz

Hum and noise:
Greater than 90 dB below rated power.

SPS™ compression dynamic range:
Greater than 26 dB

THD and IM:
Typically less than 0.1 %

Woofer power amp:
Damping Factor:
Greater than 100 @ 1000 Hz,
4 Ohms.

Power requirements of Quadra 12P system (domestic):
660 Watts, 120 VAC, 60 Hz

Features

- Bi-amplified, powered system with 500 Watts total power
- SPS compression on both power amps
- Black Widow BWX 12" premium woofer
- RX22 2" titanium compression driver
- Peak SPLs in excess of 130 dB with music

- Quadratic Throat Geometry horn has exceptionally smooth response and precise pattern control
- 1/4" TRS and M/F XLR line-level balanced inputs
- Separate mixed mic XLR input
- Loop Out/In jacks allow linkage of multiple units
- Multiple handgrips

Description

The Quadra 12P is a powered, bi-amplified, two-way speaker system engineered to provide the highest levels of performance available in a compact, powered loudspeaker. Capable of over 130 dB peak SPLs, this system can pump out a huge amount of sound. The enclosure utilizes high-impact polypropylene in an injection-molded plastic trapezoidal form with a coated, perforated metal grille for a cosmetically elegant yet durable powered speaker system.

This two-way powered system is comprised of an 800 Watt dynamic peak power amplifier driving a 12" BWX Black Widow woofer (1208-4) with a Kevlar™ impregnated cone, with surround and dust cap specially treated for excellent environmental stability. A 200 Watt peak dynamic power amplifier drives the RX22 compression driver and features a 2" titanium diaphragm with Radialinear Planar Phase Correction in the phase plug (US Patent #6064745). A Quadratic Throat Geometry constant directivity horn (US Patent #6059069) with a coverage pattern of 90° by 45° is molded integrally into the enclosure.

The Quadra 12P houses one combo female XLR, a 1/4" RTS phone jack and one male XLR in its preamp, all connected in parallel. A separate, switchable female XLR microphone input is also provided. The power amplifiers are low distortion units providing 400 W RMS into the nominal 4 Ohm load of the woofer and 100 W RMS into the nominal 6 Ohm load of the tweeter, both selected for their reliability and superb musical performance capability. Both amplifiers feature our patented SPS compression, which virtually eliminates audible power amplifier clipping.

Specifications Quadra 12P

Multiple molded-in handles provide easy transport, while multiple mounting points on top and bottom for the Peavey Versamount 70 and a molded-in stand adapter allow maximum utility.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

This powered loudspeaker system has a frequency response from 62 Hz to 18 kHz. The peak SPL with inaudible distortion will reach 130 dB when measured at a distance of 1 meter and driven to full output capacity. The system utilizes a 12" BWX Black Widow woofer and an RX22 compression driver tweeter. The nominal radiation pattern is 90° in the horizontal plane and 45° in the vertical plane.

The powered, bi-amplified loudspeaker system has a group of medium impedance input connectors consisting of one combo female XLR, a 1/4" RTS phone jack and one male XLR on the rear panel, all connected in parallel. Additionally, a separate,

switchable microphone input (female XLR) and a Loop Out/Loop In is provided. A volume control is located next to the input jack group.

The system power amplifiers have an unfiltered frequency response of 10 Hz to 30 kHz, which deviates no more than +0, -1 dB up to rated power; a damping factor greater than 100 @ 1 kHz into 4 Ohms; hum and noise better than 90 dB below rated power; and THD and IMD of less than 0.1%. The woofer amplifier is capable of handling 400 Watts into a 4 Ohm nominal load, and the tweeter amplifier is capable of 100 Watts output into a 6 Ohm load. Both incorporate independent SPS compression.

The input signal is electronically divided into high frequencies and low frequencies by a staggered pole, third order slope line-level crossover at 1.8 kHz. The low frequencies are processed to provide bass boost, subsonic filtering and overall response shaping, and the high frequencies are equalized for constant directivity horn EQ and response shaping.

The enclosure is constructed of injection-molded 1/4" thick polypropylene with a UL flame rating and internal reinforcing ribs. A handgrip is molded into each side of the woofer and on the top rear edge.

A vinyl-coated, perforated metal grille provides woofer protection. The cabinet incorporates four tall, sturdy rubber feet for floor standing use and four mounting-point inserts on the top and bottom, each for flying use.

The outside dimensions are 23-11/16" high by 17-13/16" wide by 13-3/4" deep, and the unit weighs 55 lbs. Power requirements: maximum 660 Watts, nominal 180 Watts, 120VAC, 60 Hz domestic and 240 VAC, 50 Hz (European).

3 + 2 YEAR LIMITED WARRANTY

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39301-2898.

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