



**PEAVEY**<sup>®</sup>  
ARCHITECTURAL ACOUSTICS<sup>®</sup>

# PSX<sup>™</sup>

## Stereo Crossover

### SPECIFICATIONS

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##### CONTROLS AND SWITCHES

###### System Gain Control:

± 10 dB

###### 40 Hz Roll-off Switch:

-3 dB @ 40 Hz, 24 dB/octave  
(in LF output)

###### LF Level Control:

- (infinity) to +6 dB

###### LF to HF Crossover Frequency:

100 Hz to 2 kHz, 18 dB/octave  
(screwdriver type)

###### HF Level Control:

- (infinity) to +6 dB

##### FREQUENCY RESPONSE:

Each output is -3 dB at the selected crossover frequency value. Outputs are essentially flat within their relative passbands.

###### LF Output:

+0, -0.5 dB @ 10 Hz  
(with 40 Hz roll-off defeated)

###### HF Output:

+0, -0.5 dB @ 50 kHz

##### MAXIMUM OUTPUT LEVELS:

+24 dBV, 16 V RMS

##### DISTORTION

Less than 0.05% THD @ +10 dBV,  
3 V RMS; 40 Hz to 20 kHz

##### HUM AND NOISE

(Crossover control, 1200 Hz; all level controls set at 0 dB; 40 Hz roll-off filters in; 20 Hz to 20 kHz, unweighted; 600 ohm input term.)

###### LF Output:

-98 dB below +10 dBV

###### HF Output:

-97 dB below +10 dBV

##### MAXIMUM INPUT LEVEL:

+24 dBV, 16 V RMS (system gain @  
0 dB or lower, other level controls set  
at 0 dB settings or lower)

##### INPUT IMPEDANCE:

20K ohms balanced, 10K ohms  
unbalanced

##### CONNECTORS

###### Inputs:

3 conductor 1/4" phone jack,  
balanced/unbalanced XLR female  
(pin 3 positive), balanced (phone  
jack and XLR connector are  
bridged/parallel)

###### Outputs:

2 conductor 1/4" phone jack un-  
balanced, XLR male (pin 3  
positive), transformer balanced

(All signal grounds are common and  
"lifted" from chassis ground)

##### POWER REQUIREMENTS:

120 V AC, 50/60 Hz, 20 W  
(domestic model)

##### WEIGHT & DIMENSIONS:

8 lbs., 19" standard rack-mount,  
1 3/4" height, 9" depth

#### FEATURES:

Two separate channels each with:

- System gain control, ± 10 dB
- LED clip indicator, +12 dBV (6 dB headroom)
- 40 Hz roll-off switch, 24 dB/octave
- Low frequency level control, infinity to +6 dB
- Crossover frequency control, 100 Hz to 2 kHz, 18 dB/octave (screwdriver type)
- High frequency equalization (special horn-type EQ)
- High frequency level control, infinity to +6 dB

##### REAR PANEL:

- XLR and 1/4" phone (RTS) electronic balanced inputs
- XLR transformer balanced and 1/4" unbalanced outputs
- 2-way/stereo 3-way/mono mode switch

##### OVERALL:

- Front panel rocker-type mains switch with LED power indicator
- 19" rack-mount configuration 1 3/4" high 9" deep, 8 lbs.
- 3rd order state-variable filters (18 dB/octave)

##### DESCRIPTION

The PSX<sup>™</sup> is a professional, variable, two-way stereo electronic crossover with excellent versatility of controls, ease of setup, and outstanding performance. With exceptional features and rugged construction, this unit meets the needs

of the most demanding professional audio technician.

Fully balanced XLR and unbalanced 1/4" phone input and output connectors are standard equipment on the PSX, allowing instant adaptability to any audio application. A low pass filter is instantly selectable and has a roll-off rate to provide maximum loudspeaker protection. The crossover frequency is set easily and "protectively" with calibrated front panel screwdriver-type control. A unique high frequency "driver" EQ provides an extra octave of usable frequency response from most horn/drivers.

Calibrated level controls at both input and output set interface gain and allow for dealing with various loudspeaker component efficiency ratings. LED "clip" indicators are included to provide a warning as to the possibility of clipping in the state variable filter circuitry. Finally, a back panel switch allows this unit to be configured as a 3-way mono electronic crossover. With +24 dBV input and output (+18 dBV at the 1/4" outputs) capability, third-order state-variable filters, and an excellent signal-

to-noise ratio, the PSX Crossover is another example of Peavey's extensive research into the needs of the professional sound equipment marketplace and our commitment to satisfying those needs.

#### **ARCHITECTURAL AND ENGINEERING SPECIFICATIONS:**

The stereo crossover shall have two channels. Each channel shall have one channel gain control providing -10 dB to +10 dB of gain, one 40 Hz roll-off switch (24 dB/octave), one Low Frequency level control providing -infinity to +6 dB of level, one screwdriver adjustment for setting the crossover frequency control (100 Hz to 2 kHz), one high frequency level control providing -infinity to +6 dB of level, one XLR electronically balanced input, one 1/4" unbalanced input, one XLR low frequency transformer balanced output, one low frequency 1/4" output, one XLR high frequency transformer balanced output, one high frequency 1/4" output, and one clip LED indicator providing a warning at +12 dBV.

The stereo crossover shall have a power

switch. The unit shall have a power on indicator (LED). There shall be a mode switch for selecting 2-way/stereo or 3-way/mono operation. The stereo crossover shall be capable of delivering +24 dBV (16 V RMS) at the balanced output and +18 dBV (8 V RMS) at the unbalanced output. Furthermore, it shall be capable of accepting +24 dBV (16 V RMS) at both the balanced and unbalanced inputs. The frequency response shall be  $\pm 1$  dB from 20 Hz to 20 kHz and the total harmonic distortion shall be less than 0.05%, both of these specs being measured at 0 dBV (1 V RMS) using either balanced or unbalanced inputs or outputs. Hum and noise shall be less than -95 dB below +10 dBV from 20 Hz to 20 kHz unweighted.

The stereo crossover shall be packaged in a rugged metal chassis 19" wide by 1-3/4" high by 9" deep, weighing 8 lbs. The unit shall operate on 120 V AC 50/60 Hz and consume 50 watts.

The stereo crossover shall be called a Peavey Architectural Acoustics PSX Crossover.

#### **LIMITED WARRANTY**

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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Features and specifications subject to change without notice.

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