

## PCX4000

High Precision Stereo 2/3-Way Mono 4-Way Crossover



## Features

- ▶ World-class performance 24dB per octave Linkwitz-Riley filters
- ▶ Absolutely flat summed amplitude response, zero phase difference
- ▶ Switchable 25Hz subsonic filter on each input for low frequency driver protection
- ▶ Individual limiter on each output for optimal loudspeaker protection
- ▶ “Low Sum” function provides low-level mono output for subwoofer operation
- ▶ Adjustable time delay for phase alignment between drivers
- ▶ CD horn equalization for constant directivity horn compensation
- ▶ Individual output level controls for all bands
- ▶ Individual output mutes for easy band adjustment
- ▶ Individual phase reverse switches for instant phase correction
- ▶ Servo-balanced, XLR connectors for all inputs and outputs
- ▶ Precision potentiometers for ultimate accuracy and repeatability
- ▶ Low-noise audio operational pre-amplifiers for outstanding sound performance

## Description

Phonic’s PCX4000 is the authentic soundman’s crossover for front of house or monitoring systems in all applications – from studio to live environments. Featuring 24dB/octave, state-variable Linkwitz-Riley filters giving you absolute frequency separation. Flat summed amplitude response with zero phase difference. Independent IGC limiter per output and adjustable time delay for phase alignment between drivers with phase reverse switch. Switchable 25Hz subsonic filter; switchable EQ; Low Sum function; servo-balanced XLR connectors (2 in, 6 out).

## Dimensions

# PCX4000

## Professional Crossovers



## Specifications

Audio Inputs		
Connectors	XLR	
Type	Electronically servo-balanced, HF filtered	
Input Impedance	Balanced >50 kohm, unbalance >25 kohm	
Max. Input Level	+22 dBu typical, balanced or unbalanced	
CMRR	>40dB, typical >55dB at 1 kHz	
Audio Outputs		
Connectors	XLR	
Type	Electronically servo-balanced, HF filtered	
Output Impedance	Balanced 60 ohm, unbalance 30 ohm	
Max. Output Level	+20 dBu, balanced or unbalanced	
Crossover		
Filter-Type	Linkwitz-Riley, 24 dB/octave, state-variable	
Mono Mode Frequencies	x1	x10
Low/High	440 Hz to 9.3 kHz	
Low/Mid/Mid/High	440 Hz to 9.3 kHz	
Stereo Mode Frequencies	x1	x10
Low/High	44 to 930 Hz	440 Hz to 9.3 kHz
Low/Mid	44 to 930 Hz	440 Hz to 9.3 kHz
Mid/High	440 Hz to 9.3 kHz	
Performance		
Bandwidth	20 Hz to 20 kHz, +0/-0.5 dB	
Frequency Response	<5 Hz to >60 kHz, +0/-3 dB	
Signal to Noise Ratio	Ref.: +4 dBu, 20 Hz to 20 kHz, unweighted	

		Stereo-Mode:	Mono-Mode:
Low Output		>94 dB	>94 dB
Low-Mid Output			>94 dB
Mid Output		>95 dB	
High-Mid Output			>94 dB
High Output		>91 dB	>89dB
Dynamic Range		>106 dB, unweighted	
THD & Noise		<0.04%; <0.5% (limiter on)	
Interchannel Crosstalk		High to Low: <93 dB	
		High to Mid: <95 dB	
		Mid to Low: <96 dB	
		High to High-Mid: <95 dB	
		High-Mid to Low-Mid: <95 dB	
		Low-Mid to Low: <92 dB	
Power Supply			
Mains Voltage			
USA/Canada		120V ~, 60 Hz	
Europe/U.K./Australia		230V ~, 50 Hz	
Japan		100V ~, 50-60 Hz	
Power Consumption		<20 W	
Fuses		100-120 V ~, T630 mA H	
		200-240V ~, T315 mA H	
Mains Connection		Standard IEC receptacle	
Dimensions		19" x 1.75" x 8.5" (482.6 x 44 x 217 mm)	
Net Weight		6.6 lbs (3 kg)	

Information in this document is subject to change without notice.

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