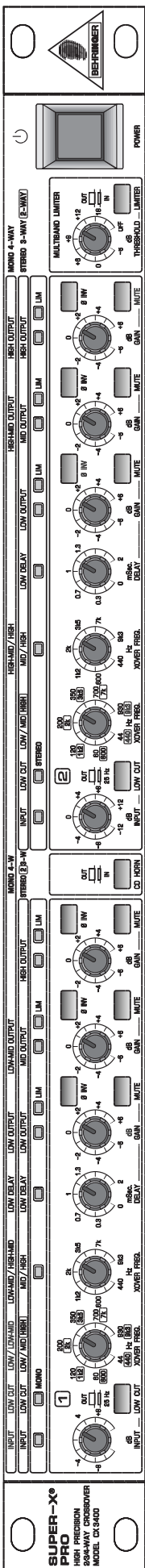


SUPER-X[®] PRO CX3400



Technical Specifications

Version 1.1 May 2000

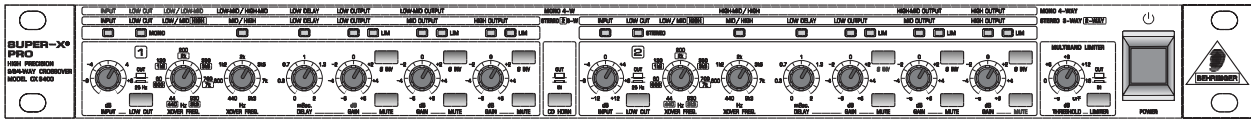
ENGLISH



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SUPER-X[®] PRO

HIGH-PRECISION STEREO 2-WAY / 3-WAY / MONO 4-WAY CROSSOVER WITH LIMITERS MODEL CX 3400



- ▲ Professional high-precision stereo 2-way / 3-way / mono 4-way crossover
- ▲ World-class performance 24 dB per octave Linkwitz-Riley filters
- ▲ Absolutely flat summed amplitude response, zero phase difference
- ▲ Individual output level controls for all bands
- ▲ Individual limiter on each output for optimal loudspeaker protection
- ▲ Individual output mutes for easy band adjustment
- ▲ Individual phase reverse switches for instant phase correction
- ▲ Switchable 25 Hz subsonic filter on each input for low-frequency driver 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
- ▲ Servo-balanced, gold-plated XLR connectors for all inputs and outputs
- ▲ Ultra high-precision Alps potentiometers for ultimate accuracy and repeatability
- ▲ Ultra low-noise audio operational 4580 amplifiers for outstanding sound performance
- ▲ Illuminated switches for secure operation in dark stage environments
- ▲ High-quality components and exceptionally rugged construction for long life and reliability
- ▲ Shielded toroidal mains transformer for minimal noise interference
- ▲ Manufactured under ISO9000 certified management system

SPECIFICATIONS

INPUT

Connectors	XLR
Type	Electronically servo-balanced, RF filtered
Impedance	Balanced >50k Ohms, unbalanced >25k Ohms
Max. Input level	+22 dBu typical, balanced or unbalanced
CMRR	>40 dB, typically >55 dB at 1 kHz

OUTPUT

Connectors	XLR
Type	Electronically servo-balanced, RF filtered
Impedance	Balanced 60 Ohms, unbalanced 30 Ohms
Max. Output Level	+20 dBm balanced/unbalanced

PERFORMANCE

Bandwidth	20 Hz to 20 kHz, +0/-0.5 dB	
Frequency Response	<5 Hz to >90 kHz, +0/-3 dB	
Signal to Noise	Ref.: +4 dBu, 20 Hz to 20 kHz, unweighted	
	Stereo Mode:	Mono Mode:
Low Output	>93 dBu	>93 dBu
Low-Mid Output		>94 dBu
Mid Output	>95 dBu	
High-Mid Output		>94 dBu
High Output	>90 dBu	>88 dBu
Dynamic Range	>106 dB, unweighted	
THD & Noise	Limiters Off	Limiters On
	<0.04%	<0.5
Interchannel Crosstalk	High to Low:	<93 dB
	High to Mid:	<94 dBu
	Mid to Low:	<95 dBu
	High to High-Mid:	<95 dBu
	High-Mid to Low-Mid:	<95 dBu
	Low-Mid to Low:	<92 dBu

CROSSOVER

Filter Type	Linkwitz-Riley, 24 dB/Octave, state-variable	
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	
Mono Mode Frequencies	x1	x10
Low/Low-Mid	44 to 930 Hz	440 Hz to 9.3 kHz
Low-Mid/High-Mid	440 Hz to 9.3 kHz	
High-Mid/High	440 Hz to 9.3 kHz	

FUNCTION SWITCHES

Front Panel

Low Cut	Activates 25 Hz Butterworth, 12 dB/Octave high-pass filter
Mute	Mutes the individual output
Phase Invert	Inverts the phase at the individual output
CD Horn	Corrects CD horn frequency response above 3.5 kHz
Limiter	Activates the limiter function for all outputs

Rear Panel

Xover Frequency	Multiplies crossover frequency range by 10
Mode	Selects stereo/mono and 2/3/4-way operation
LF Sum	Selects normal stereo or mono-summed low frequency operation
	ON=Channel 1 + 6dB louder / Channel 2: the same as before

CONTROLS

Input	Controls the input gain (+/-12 dB)
Xover Frequency	Controls the crossover frequency
Delay	Controls the delay at the low output (0 to 2 msec.)
Gain	Controls the output gain (+/-6 dB)
Threshold	Controls the threshold of the limiter (- 6 dB to OFF)

POWER SUPPLY

Mains Voltages	USA/Canada	120 V ~, 60 Hz
	U.K./Australia	240 V ~, 50 Hz
	Europe	230 V ~, 50 Hz
	General Export Model	100 - 120 V ~, 200 - 240 V ~, 50 - 60 Hz
Power Consumption	max. 22 W	
Fuse	100 - 120 V ~ :	T 630 mA H
	200 - 240 V ~ :	T 315 mA H
Mains Connection	Standard IEC receptacle	

PHYSICAL

Dimensions	1,75" (44,5 mm) * 19" (482,6 mm) * 8,5" (217 mm)
Net Weight	3 kg
Shipping Weight	4,3 kg

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