

acm CA432

Description

The CA432 is an active frequency crossover enabling 2 or 3-way stereo or even 4-way mono operation. Each band features two 24-dB Linkwitz-Riley filters, as well as individual IGC limiters, while the integrated delay enables flexible time alignment. Polarity switches for each output allow quick and easy runtime compensation for various driver and horn types.



CA432



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Professional Power Amplifier

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CA432

2 Way/3 Way/4 Way Electronic Crossover



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 >55dB 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	20Hz to 20kHz, +0/-0.5dB	
Frequency Response	<5Hz to >90kHz, +0/-3dB	
Signal to Noise	Ref.: +4dBu, 20Hz to 20kHz, unweighted	
	Stereo Mode:	Mono Mode:
Low Output	>93dBu	>93dBu
Low-Mid Output	□ □	>94dBu
Mid Output	>95dBu	
High-Mid Output	□ □	>94dBu
High Output	>90dBu □ □	>88dBu
Dynamic Range	>106dB, unweighted	
THD & Noise	Limiters Off □ □	Limiters On
	<0.04% □ □	<0.5
Interchannel Crosstalk	High to Low: □ □	<93dBu
	High to Mid: □ □	<94dBu
	High to Low: □ □	<95dBu
	High to High-Mid: □ □	<95dBu
	High-Mid to Low-Mid: □ □	<95dBu
	Low-Mid to Low: □ □	<92dBu

Crossover

Filter Type	Linkwitz-Riley, 24 dB/octave, state-variable	
Stereo Mode Frequencies	x 1 □ □	x 10
Low/High	45 to 1kHz □ □	450Hz to 10kHz
Low/Mid	45 to 1kHz □ □	450Hz to 10kHz
Mid/High	450Hz to 10kHz	
Mono Mode Frequencies	x 1 □ □	x 10
Low/Low-Mid	45 to 1kHz □ □	450Hz to 10kHz
Low-Mid/High-Mid	450Hz to 10kHz	
High-Mid/High	450Hz to 10kHz	

Function Switches

Front Panel	
Low Cut	Activates 25Hz Butterworth, 12dB/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 3.5kHz
Limiters	Activates the limiter function for all outputs
Rear Panel	
Xover Frequency	Multiplies crossover frequency ranger 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 (+/-12dB)
Xover Frequency	Controls the crossover frequency
Delay	Controls the delay at the low output (0 to 2 msec.)
Gain	Controls the output gain (+/-6dB)
Threshold	Controls the threshold of the limiter (-6dB to OFF)

Power Supply

Mains Voltages	USA/Canada □ □	120V~, 60Hz
	U.K./Australia □ □	240V~, 50Hz
	Europe □ □	230V~, 50Hz

General Export Model
95-120V~, 210-240V~, 50-60Hz

Power Consumption
Fuse

<22W
95-120V:~T 1A H
210-240V:~T 500mA H

Mains Connection

Standard IEC receptacle

Physical

Dimensions	483 x 200 x 45mm/19(L)" x 7.9(W)" x 1.77(H)"
Net Weight	3 kg(6.61lb)