More sound to your amps and speakers

The secret to making speakers sound great lies with the crossover you use. With the dbx® 234s and 234xs Crossovers you’ll get great performance, ultra low-noise, rugged reliability and four decades of dbx knowledge and expertise in building the world’s finest processors. The 234 uses precision filters to separate the audio signal and direct the correct frequencies to your loudspeaker drivers. By directing only the specific frequency bands to each speaker driver the 234 leaves your amplifiers free to use their full power on the usable signal eliminating distortion and giving your PA system a cleaner and better sound.

The dbx 234 is a dual channel crossover with all the features you would expect from a professional product. They feature Linkwitz-Riley 24dB per octave filters, independent output gain controls for level matching, output phase inversion, 40 Hz low cut filter, and optional mono summing of the low frequency (subwoofer) output. Everything in the design exudes great precision from the solid “click” controls to the high quality ¼” TRS (234s) and XLR (234xs) inputs and outputs.

Features

- TRS differentially balanced ins and outs (234s)
- XLR balanced ins and outs (234xs)
- Mode switches for mono 4-way or stereo 2-way/3-way operation
- Low frequency summed (subwoofer) output
- x10 range switch on both channels
- 40 Hz high pass (low cut) filter both channels
- Phase reverse switch on all outputs
- Individual level controls on all outputs
- 24dB per octave Linkwitz-Riley filters (the professional standard)
- Stereo/Mono status LEDs indicate the selected mode
- dbx 2 year parts and labor as standard
- CSA NRTL/C approved
- CE compliant

Who uses this product:

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234s/234xs Crossover
Stereo 2-Way/Mono 3-Way/Mono 4-Way Crossover

 specifications

INPUTS:
Connectors: 1/4" TRS (234s) / Female XLR (234xs) (pin 2 hot)
Type: Electronically balanced/unbalanced, RF filtered
Impedance: >50kΩ balanced, >25kΩ unbalanced
Max Input Level: >>22dBu balanced or unbalanced

OUTPUTS (234s):
Connectors: 1/4" TRS
Type: Impedance-balanced/unbalanced, RF filtered
Impedance: Balanced 200Ω, unbalanced 100Ω
Max Output Level: >>21dBu balanced/unbalanced into 2kΩ or greater

OUTPUTS (234xs):
Connectors: XLR
Type: Electronically-balanced/unbalanced, RF filtered
Impedance: Balanced 60Ω, Unbalanced 30Ω
Max Output Level: >>20dBu balanced/unbalanced into 600Ω or greater

CROSSOVER FREQUENCIES:
Stereo Mode:
Low/High: 45Hz to 960Hz or 450Hz to 9.6kHz (x10 setting)
Low/Mid: 45Hz to 960Hz or 450Hz to 9.6kHz (x10 setting)
Mid/High: 450Hz to 9.6kHz (x10 setting)
Mono Mode:
Low/Low-Mid: 45Hz to 960Hz or 450Hz to 9.6kHz (x10 setting)
Low-Mid/High-Mid: 450 Hz to 9.6 kHz
High-Mid/High: 450Hz to 9.6kHz
Filter Type: Linkwitz-Riley, 24 dB/octave, state-variable

FUNCTION SWITCHES:
Front Panel:
Low Cut: Activates 40Hz Butterworth, 12 dB/octave high-pass filter, one switch per channel
Phase Invert: Inverts the phase at the output, one switch per output

Rear Panel:
x10: Multiplies crossover frequency range by 10, one switch per channel
Mode: Selects stereo/mono and 2/3/4-way operation
LF Sum: Selects normal (stereo) or mono-summed low frequency operation

INDICATORS:
Stereo Operation: Green LED
Mono Operation: Yellow LED
Low Cut: Red LED per channel
x10: Green LED per channel
Phase Invert: Red LED per output (3 per channel)

SYSTEM PERFORMANCE:
Bandwidth: 20Hz to 20kHz, +0/-0.5dB
Dynamic Range: >106dB, unweighted, any output
THD+N: < 0.004% at +4 dBu, 1kHz
< 0.04% at +20 dBu, 1kHz
Interchannel Crosstalk: <-80dB, 20Hz to 20kHz
Common Mode Rejection: >40dB, typically >55dB @ 1kHz
Signal-to-Noise: Ref: +4dBu, 22kHz measurement bandwidth
Stereo: > 94dB
Mono: > 94dB
Low-Mid Output: > 94dB
Mid Output: > 93dB
High-Mid Output: > 92dB
High Output: > 90dB

POWER SUPPLY:
Power Requirements: 15 Watts
Operating Voltage: 100 VAC 50/60Hz; 120VAC 60Hz; 230 VAC 50/60Hz
Operating Temperature: 32°F to 113°F (0°C to 45°C)

PHYSICAL:
Dimensions: 1.75" x 6.9" x 19" (4.5cm x 17.5cm x 48.26cm)
Weight: 4.0 lbs/1.8 kg
Shipping Weight: 5.8 lbs/2.6 Kg

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

Part number: 18-0848