

Bryston 10B Electronic Crossover

The Ideal Crossover for Multi-Way Speakers Installations



Bryston's Model 10B Electronic Crossover combines ideal signal-handling with an enormously flexible control function. Simple, direct front-panel switches allow any crossover curve to be set instantly, and the signal purity is always maintained.

The Model 10B features independently selectable crossover points for high-pass and low-pass, in case the speaker installation requires slightly overlapped, (or slightly staggered), response curves from the drivers. You can also independently select crossover slope, from 6, 12, or 18dB/Oct., where one driver requires steeper cutoff than another in the same system.

Model 10B LR

The 10B-LR, a fixed frequency plug in Linkwitz-Riley alignment with steep roll off curves of 24 dB/Oct. is also available.

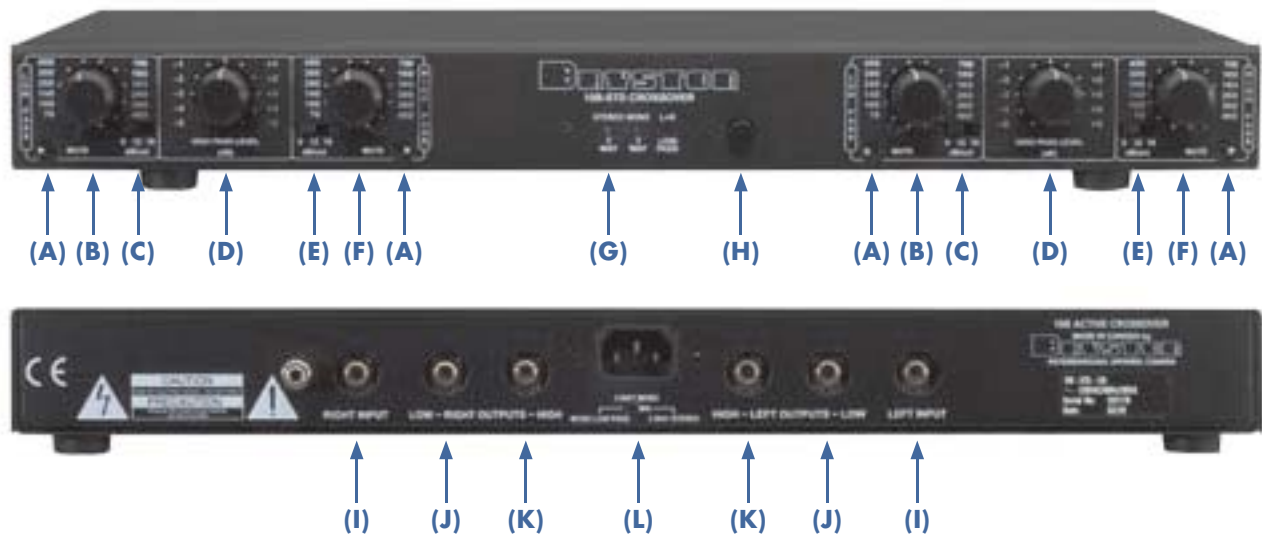
The crossover may be used in any of three connections: 2-way stereo, 3-way mono, and a special configuration, 2-way stereo with summed low pass out to allow the use of one sub-woofer. The 10B is available in two stock versions, a 10B sub incorporating

frequencies more suitable to sub-woofer applications and a 10B standard which is more applicable to speakers reacquiring frequency control in the midband and tweeter areas.

All crossover selections are extremely accurate and repeatable, being implemented with 1% selected metal-film resistors and polystyrene capacitors. All switches are heavily gold-plated, for lifetime protection from corrosion. The level-controls are precise 1dB increments, also derived from gold-plated switches and 1% metal-film resistors. Most important, however, is that the Bryston 10B Crossover uses NO integrated circuits in the signal path. All internal buffer and amplification stages are Bryston's exceedingly linear and superbly quiet discrete op-amp circuitry. This means the signal is always maintained as "Audiophile Quality", with stability and freedom from noise and distortion unapproached in other crossovers.

From the point of view of adaptability, flexibility and signal integrity, the Bryston 10B Electronic Crossover is the ideal choice for the widest range of multi-way speaker installations.

10B Switching and Connections



- (A)** Mute switch
One each for low pass and high pass filters
- (B)** Low pass frequency selector
12 selectable crossover points
- (C)** Low pass slope selector
Sets low pass slope in decibels per octave (6, 12 or 18dB/Oct.)
- (D)** High pass level control
Sets high pass output level for channel. -5dB to +5dB in 1dB steps.
- (E)** High pass slope selector
Sets high pass slope in decibels per octave (6, 12 or 18dB/Oct.)

- (F)** High pass frequency selector
12 selectable crossover points
- (G)** Status LEDs
- (H)** Power switch (push button)
- (I)** Input RCA or XLR (female)
- (J)** Low pass output RCA or XLR (male)
- (K)** High pass output RCA or XLR (male)
- (L)** Mode selector switch

Selectable frequencies 10B standard	70 Hz, 100 Hz, 140 Hz, 200 Hz, 390 Hz, 450 Hz, 700 Hz, 1 kHz, 2 kHz, 3 kHz, 4.5 kHz
Selectable frequencies* 10B sub	40 Hz, 50 Hz, 60 Hz, 70 Hz, 80 Hz, 90 Hz, 100 Hz, 200 Hz, 250 Hz, 300 Hz, 400 Hz, 500 Hz
Slope	6/12/18 dB per Oct.
S/N ratio	-90 dB
Distortion	0.005%
Input impedance	15k ohms, unbalanced 15k ohms, balanced
Output impedance	100 ohms

Features	Stereo 2-way Monaural 3-way Stereo 2-way summed low pass Balanced or unbalanced
	Independent high and low pass frequency selection
	± 5dB gain on high pass section
	Internal adjustments for up to ± 10 dB
Dimensions	19 or 17 x 1.75 x 10 inches, 48.25 or 43.18 x 4.44 x 25.4 cm wt: 12 lbs, 5.5 kg

* Custom frequencies available on request
** 24 dB per octave with plug-in frequency modules also available

