

CRESCENDO SYSTEMS HIGH END AUDIO COMPONENTS

BM5.1 Bass Management Module



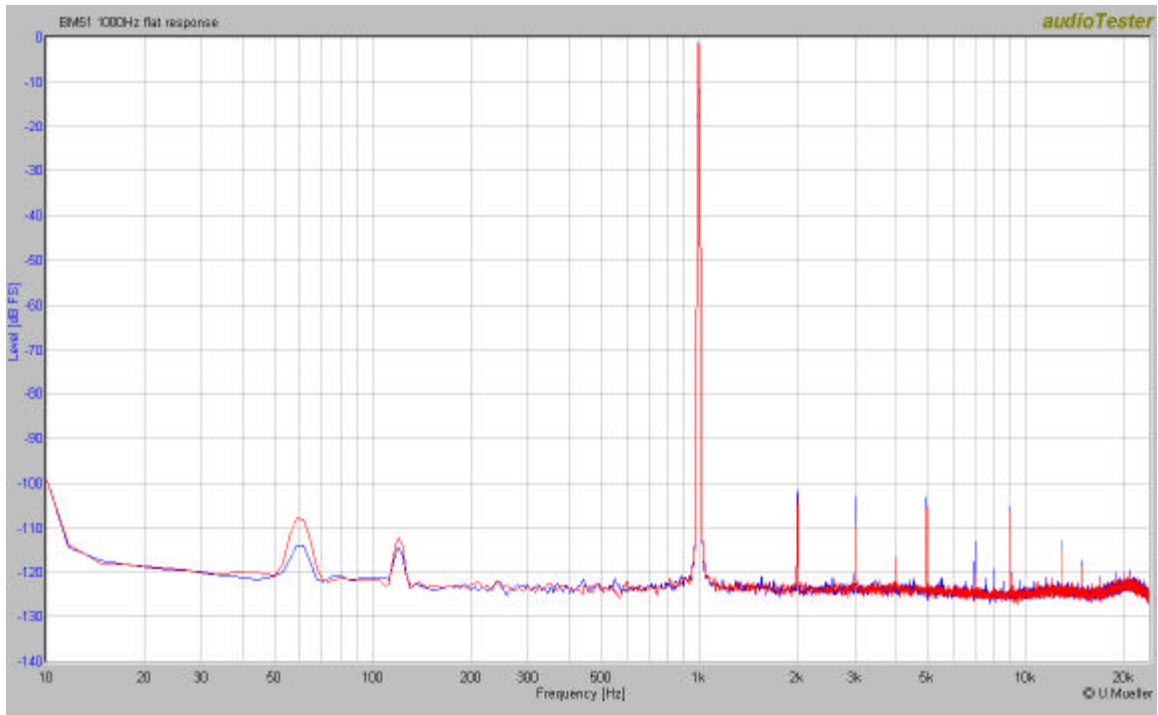
Description

The Crescendo-Systems BM5.1 Bass management module is primarily intended for use together with DVD-Audio and SACD players, but can be installed in any audio system where there is no programmable crossover network between the sub-woofer and the satellites. The crossover frequency can be set separately for the front left, right and center speakers and the surround left and right speakers, important when these sets of speakers don't have the same low-end extension. In addition to several different crossover frequencies there is also a flat setting in case a set of speakers can handle the full frequency range.

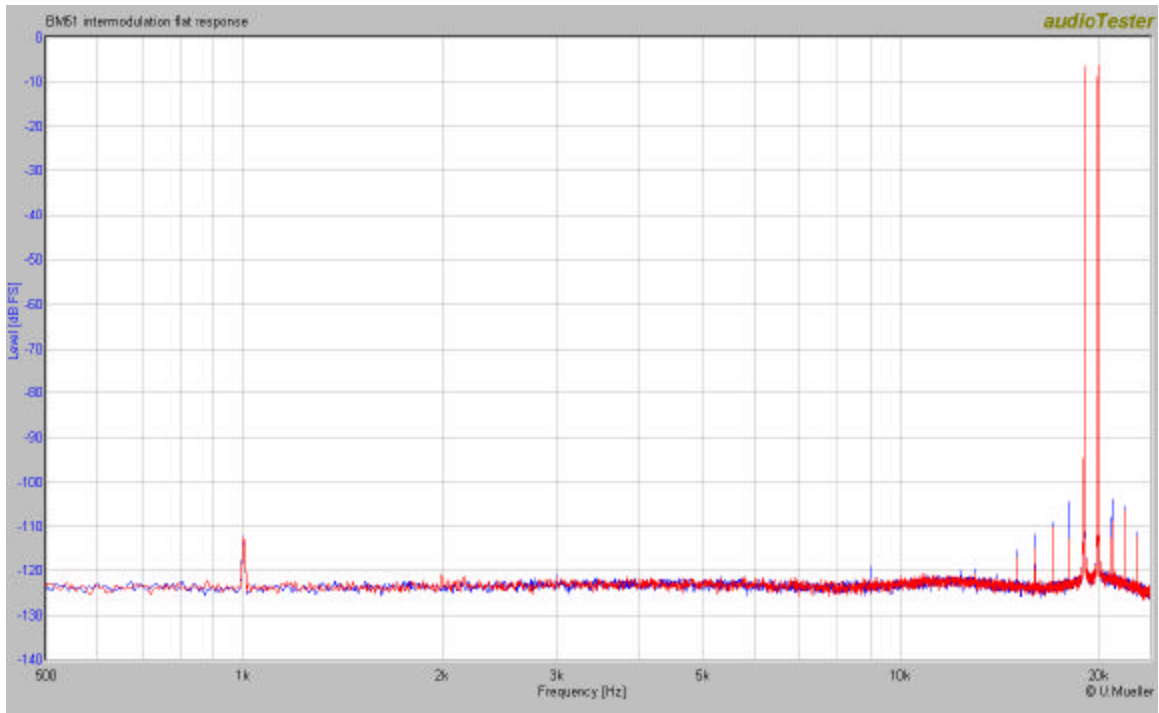
The type of filter used is a phase- and time continuous filter with a 12dB/octave slope for the sub-woofer output. This means that the sum of the low-pass and high-pass filtered output is always flat, also at the crossover frequency. The filter type used in the BM5.1 is the only one with this property; all other filters have phase and amplitude irregularities around the cross-over frequency. The BM5.1 uses 1% metal film resistors, 5% polyester film capacitors and high grade audio opamps. Additionally, the sub-woofer output has its own regulated power supply for minimal interaction with the other channels.

Specifications

Frequency response Flat position	20Hz – 20KHz ± 0.2 dB
Distortion $V_{in}=1V_{rms}$	< -100 dBc (0.001%)
Intermodulation (19KHz & 20KHz) $V_{in}=1V_{rms}$	< -100 dBc (0.001%)
Corner frequencies	flat, 40, 50, 60, 80, 100, 120, 150Hz $\pm 10\%$
Filter slope	12dB/oct lowpass 6dB/oct highpass
Power supply (specify on order)	110V 60Hz, 220V 50Hz
Dimensions (width, height, depth)	155 x 90 x 215 mm 6 1/16'' x 3 1/2'' x 8 1/2''



BM5.1 Distortion of a 1kHz 0dBFS signal



BM5.1 Intermodulation of a 19kHz & 20KHz -6dBFS signal

Pricing

USA	\$495
Europe	Euro 550

(All prices exclude shipping, VAT, and import duties where applicable)