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## Product Information Sheet

### KABER AKTIV CROSSOVER

Used passively, the Kaber divides the signal from the amplifier into three frequency bands – bass, midrange & treble by a passive filter built into the loudspeaker cabinet. This crossover filter is powered by the music signal itself, and it absorbs some of the amplifier power. Even with the finest components, which can handle high power without distortion, there is a limit to passive crossover performance and some fine details of music are still compromised.

An active crossover on the other hand, allows a degree of precision control of the signal and the drive units that is not possible in a passive crossover. It accurately divides the signal from the preamplifier into three frequency bands and feeds each to its own power amplifier. The loudspeaker drive units are directly controlled by the power amplifiers. By processing the music signal at low power, the active crossover provides better filtering and more accurate amplitude and time response correction for the loudspeaker.

The Kaber Aktiv has been specifically optimised for the Kaber loudspeaker. It cannot be used with other loudspeakers.

## Technical Information

<u>Type</u>		Three way active crossover driving three stereo power amplifiers
<u>Weight &amp; Dimensions</u>		
Width		320mm
Depth		326mm
Height		80mm
Weight		4KG
<u>Electronic</u>		
Input Impedance		10 Kohm
Maximum source impedance		600 ohms
Output impedance		600ohms
Typical load impedance		5 Kohm
Minimum load impedance		2 Kohms and 10nF in parallel
Nominal input level		1V rms
Distortion		< 0.05%
Power consumption		15W
Connections		Phono sockets
<u>Acoustic (Kaber Aktiv used)</u>		
Crossover frequencies	Bass to mid	80Hz, acoustic 2 <sup>nd</sup> order
	Mid to treble	2.8KHz, acoustic 4 <sup>th</sup> order
Frequency response		56Hz to 20KHz
<u>Adjustments</u>		
Treble adjustment		-2.5 to +3dB at 0.5dB steps
Bass Adjustment		-3 to +6dB at 1dB steps
Factory setting – Treble		-1dB
Factory setting – Bass		0dB