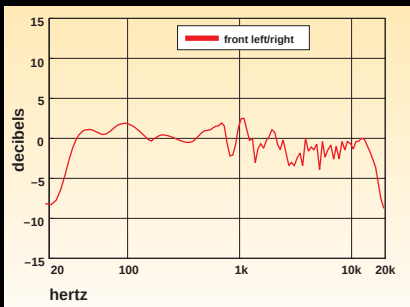
SOUND&VISION®

tech notes



Frequency response (at 2 meters)
29 Hz to 16 kHz ±3.4 dB

Bass limits (lowest frequency and maximum SPL with limit of 10% distortion at 2 meters in a large room)
25 Hz at 78 dB SPL
93 dB average SPL from 25 to 62 Hz
105 dB maximum SPL at 50 Hz

Bandwidth uniformity: 89%

The BeoLab 5 had incredibly uniform directivity. Response at all listening angles up to 30° off-axis, the typical listening angle for a front left/right or stereo speaker, was virtually identical. At wider radiating angles there was a small drop (1.5 dB) above 100 Hz for every 15° increase up to 90° — yes, that’s directly to the side of the speaker. As an exercise, I also weighted the response as I would for a center or surround speaker, and the resulting curves were essentially identical. This also means that the speaker had a relatively smooth power response, or the sum of its output in all directions.

The bass limits were measured with the BeoLab 5 placed as if it was a center speaker in a 7,500-cubic-foot room. In a smaller room users can expect 2 to 3 Hz deeper extension and up to 3 dB higher sound-pressure level (SPL) with one speaker, more with a pair. The speaker will deliver 89 dB SPL over its bandwidth when driven with a 2-volt input signal and deliver at least 102 dB at full output from 40 Hz and up. *— Tom Nousaine*