

SOUND & VISION

From test report on the MartinLogan Montage home theater speaker system in the June 2005 S&V. © 2005 by Hachette Filipacchi Media, U.S., Inc. All rights reserved.

in the lab

Sensitivity (SPL at 1 meter with 2.8 volts of pink-noise input)

front left/right.....86 dB
center/surround.....87 dB

Impedance (minimum/nominal)

front left/right..... 4.3/7 ohms
center/surround..... 4.3/7 ohms

Bass limits (lowest frequency and maximum SPL with limit of 10% distortion at 2 meters in a large room)

front left/right..... 32 Hz at 78 dB
center/surround.....80 Hz at 86 dB SPL
subwoofer.....25 Hz at 78 dB SPL

95 dB average SPL from 25 to 62 Hz
104.3 dB maximum SPL at 62 Hz
Bandwidth uniformity 91%

All of the frequency-response curves in the graph are weighted to reflect how sound arrives at a listener's ears with normal speaker placement. The Montage left/right front speaker had a 5-dB elevation at 100 Hz and a small floor-bounce dip just above 300 Hz, with roughness at higher frequencies. When placed horizontally and weighted as a center speaker, the Vignette had a small elevation between 400 Hz and 1 kHz followed by a more substantial rise from 3.5 to 7 kHz, with a 5-dB peak at 6 kHz. There was also fairly significant lobing at 22.5° and more off-axis. Placed vertically as a surround speaker, the Vignette showed the same basic characteristics but the deviations were less severe. Like many small subs, the Dynamo had adequate output at 62 Hz, but it fell off rapidly (by 16 dB per octave) at lower frequencies.

— Tom Nousaine

