SOUND&VISION®

from test report on the Definitive Technology DP7001SC home theater speaker system in the July/August 2003 ***S&V***.

in the lab

Frequency response (at 2 meters)
front left/right .....27 Hz to 20 kHz ±6.5 dB
center..... 28 Hz to 20 kHz ±3.1 dB
surround.....96 Hz to 15 kHz ±4.2 dB

Sensitivity (SPL at 1 meter with 2.8 volts of pink-noise input)
front left/right .....94 dB
center .....92 dB
surround .....92 dB

Impedance (minimum/nominal)
front left/right.....3.3/5 ohms
center.....2.4/6 ohms
surround.....3.0/5 ohms

Bass limits (lowest frequency and maximum SPL with limit of 10% distortion at 2 meters in a large room)
front left/right.....25 Hz at 77 dB SPL
center.....25 Hz at 74 dB SPL
surround.....80 Hz at 92 dB SPL
L/R used as subwoofer.....25 Hz at 77 dB SPL
91 dB average SPL from 25 to 62 Hz
102.7 dB maximum SPL at 50Hz

All of the response curves in the graph are weighted to reflect how sound arrives at a listener's ears with normal speaker placement. The BP7001SC had extended, flat response and tightly controlled directivity. When the floor-bounce notch at 200 Hz is ignored, response fits into a ±4.5-dB window. The BP7001SC had extended low-frequency capability and moderate dynamic capability. But you can add 3 to 6 dB to the SPL (sound-pressure level) measurements here because the systems will be used in pairs along with the C/L/R 3000. However, in my experience multiple low-frequency sources spread around a room can produce uneven response at some listening positions.

With the C/L/R 3000 oriented horizontally, moderate lobing was visible at 22.5°, and it became more severe at wider radiating angles. Below 100 Hz, the speaker was able to produce 88 dB SPL with low distortion. Both the BP7001SC and the C/L/R 3000 present a relatively low impedance to amplifiers.

The BPVX surround's response varied with listening angle, which is normal for speakers with multiple driver baffles. High frequencies were more prominent at wider radiating angles, and overall frequency response was uneven but didn't exhibit radical shifts with small changes in angle. — *Tom Nousaine*