

# SOUND & VISION

from test report on the KEF KIT100 home theater system in the July/August 2004  
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## in the lab

### DVD-VIDEO PERFORMANCE

Maximum-white level error.....+7 IRE

Horizontal luminance response (re 1 MHz)

3/4/5 MHz.....-0.92/-1.7/-2.0 dB

6/6.75 MHz.....-2.7/-3.1 dB

Onscreen horizontal resolution.....540 lines

In-player letterboxing.....fair

### SPEAKER PERFORMANCE

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

front left/right.....200 Hz at 85 dB SPL

subwoofer.....25 Hz at 82 dB SPL

93 dB average SPL from 25 to 62 Hz

101.2 dB maximum SPL at 62 Hz

Bandwidth uniformity 93%

The downward sloping horizontal luminance response of the KIT100 DVD player produced a very slightly soft image compared with players having flatter response. Given its slightly too high 100%-white output level, you should use test patterns to align your TV's brightness and contrast controls.

The frequency-response curves in the graph are weighted to reflect how sound arrives at a listener's ears with normal speaker placement. The left/right coaxial speaker had limited low-frequency bandwidth and dynamic capability. Its response exhibited a 6-dB peak at 1.5 kHz and roughness above 8 kHz. The latter was more obvious directly on-axis. The NXT surround-speaker panels could not be measured because they could not be fed our "MLS" test signal independently. In a powered speaker system like this one, the usual sensitivity and impedance measurements have no meaning, so we didn't make them.

Bass limits for the subwoofer were measured with it set to maximum bandwidth and

placed in the optimal corner of 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). The subwoofer had good extension, but its overall dynamic capability was modest, and output fell at 12 dB per octave below 62 Hz.

— David Ranada and Tom Nouseine

