

Ergebnisprotokoll

30







Material Science

When B&W scientists were researching the Signature 30, they confirmed that pure silver wiring, protected by PTFE, is the optimum conductor for high quality mid-range and high frequency drivers in audiophile loudspeakers. Like its two-way predecessor, the Signature 30 uses silver for the driver leads and internal wiring, as well as for the voice coils and the windings in the crossover components, though the bass filter, voice coils and the crossover inductors have copper wiring with a powdered iron core for increased power handling. The main cable has pure silver pin lugs and the binding terminals have a pure silver contact area and connecting core. The Signature 30 also features B&W's patented Kevlar® cone material for the mid-range/bass drive unit and a new CerAl™ cone for the bass driver (CerAl™ is ceramic-coated aluminium which stiffens the cone, improving its appearance and protecting against corrosion) – advanced material engineering for a truly superb sound. Listen and you'll see!

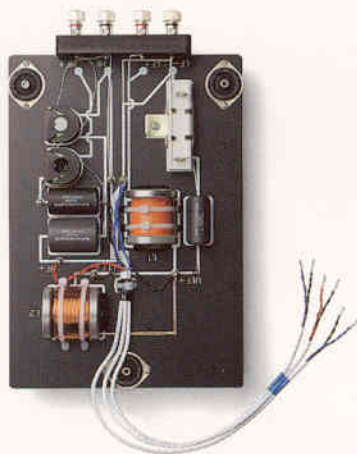
The ellipsoid tweeter housing, right, and the Kevlar® and CerAl™ cones, left, are just a couple of the distinctive features of the B&W Signature 30.





Inner Strength

Hidden inside the Signature 30's gleaming exterior is one of the marvels of modern high fidelity cabinet design: B&W's patented Matrix® construction of interlocking anechoic cells, pictured opposite. The Matrix helps to eliminate cabinet resonance by the twin characteristics of adding strength and rigidity to the cabinet walls whilst, at the same time, absorbing unwanted standing waves within the cells. In the Signature 30, the Matrix interior has been refined to give optimum stiffness and damping, with different size anechoic cells for the mid-range and bass.



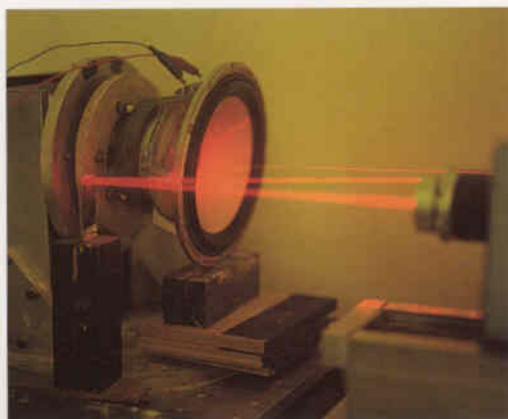
The crossover unit in the Signature 30 has silver wiring in its signal path. Housed in a separate chamber at the bottom of the cabinet, it is isolated from the bass driver by a vibration-free mounting system.



Musical Passion

A passion for music has always been the driving force behind B&W's search for perfection in high fidelity sound reproduction. Our world-famous research establishment at Steyning, UK is home to a team of gifted scientists, engineers and technicians who have kept B&W at the forefront of audio technology for over 30 years – so much so that, today, more than eighty per cent of all recordings of classical music are made using B&W loudspeakers as monitors.

For Signature 30, the team's design brief was to take the Silver Signature – already a top of the range two-way system – and refine it in terms of bass performance, mid-range resolution and dispersion, crossover efficiency and internal damping. New details include a subtle restyling of the offset, time-aligned tweeter, a larger magnet and a redesigned phase plug for the mid-range/bass drive unit, a wholly new bass driver and a separate crossover enclosure isolated from the cabinet structure.



B&W's research institute in Sussex, England, is widely regarded as one of the most sophisticated audio laboratories in Europe.

The Art of Music

The Signature 30 is a celebration of the art of loudspeaker design – an alluring combination of stylish appearance and superb high fidelity performance. Developed as a refinement of the Silver Signature, this dramatic floorstander offers an enhanced stereo soundstage, increased power handling and an extended deep bass.

Impeccably styled in a choice of two lacquered finishes, the Signature 30 features leading edge technology from B&W, including perfect piston drivers for the high frequency and deep bass, an exquisite mid-range with a patented Kevlar® cone, custom-made silver wiring in the speaker's signal path and a cabinet construction of superior strength and rigidity. The result is a richly detailed sound of great accuracy and transparency, combining a wide directivity treble with a smooth and neutral mid-range and a powerful dynamic bass. Already a collector's item, Signature 30 is B&W's latest statement in acoustic design – a distinctive combination of good looks and great sound.

The Silver Signature, right, was launched in 1991 to mark B&W's quarter century. It was also seen as a tribute to the company's founding genius, John Bowers.



Specification

Description	3 way vented-box system
Drive units	1 x 180mm (7in) aluminium cone bass 1 x 180mm (7in) Kevlar® cone bass/mid silver coil 1 x 25mm (1in) metal dome HF silver coil
Frequency range	-6dB at 30Hz and 26kHz
Frequency response	38Hz - 20kHz +/-3dB on reference axis (in room 29Hz - 20kHz)
Dispersion	Within 2dB of reference response 60° arc horizontal, 10° arc vertical
Sensitivity	89dB for 2.83v at 1m
Harmonic distortion	2nd and 3rd harmonic less than 1%, 30Hz - 20kHz, at 90dB 1m
Nominal impedance	8Ω (above 6.5Ω 10Hz - 5kHz, min. 5Ω at 9kHz)
Crossover Frequencies	Mid - HF 3kHz, lower bass driver output rolled off above 150Hz
Recommended amplifier power	50W - 200W into 8Ω
Dimensions	Height 1020mm (40½in) Width 264mm (10½in) Depth 380mm (15in)
Weight	37kg (81.6lbs)
Finishes	Grey Tiger's Eye piano gloss and Red Bird's Eye piano gloss