

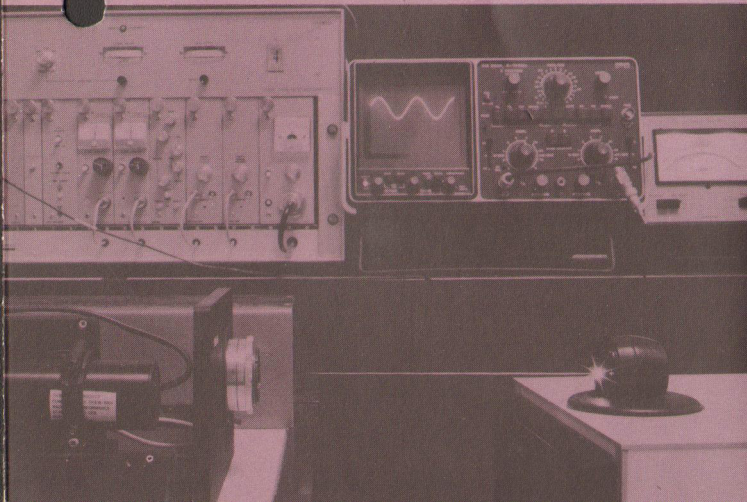
One is exactly right for you

In choosing your loudspeaker system, you will have factors such as space, room shape and existing furniture to consider.

Whatever those practical considerations may be, you can be confident of finding exactly the right speaker in the B&W range—and without sacrificing the pleasure of hearing sound reproduction of the very highest quality.

This little folder is only a brief introduction to the B&W family. Your B&W appointed dealer will be delighted to give you more information.

A section of the Harwell Laser Interferometry equipment at B&W—showing laser-derived displacement on CRO of diaphragm of a DM7 high-frequency unit.



No brochure can do justice to the sheer pleasure and revelation of actually hearing a B&W loudspeaker system; this is the final and most convincing test of all. Your B&W appointed dealer will welcome the opportunity to arrange a demonstration for you.

B&W executive and clarinettist George Hooley giving his much-discussed Live v. Recorded Sound presentation with the DM7 speaker. So far as we know, such a public comparison is unique—and there can be no more effective way of saying: judge for yourself.



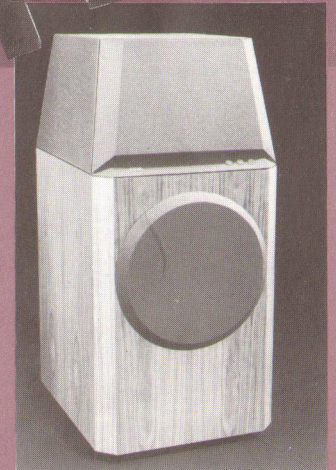
A proud moment as Lavinia, Duchess of Norfolk presents John Bowers with the 1978 Queen's Award for Export Achievement. This is the second of these coveted awards to be won by B&W Loudspeakers in five years.



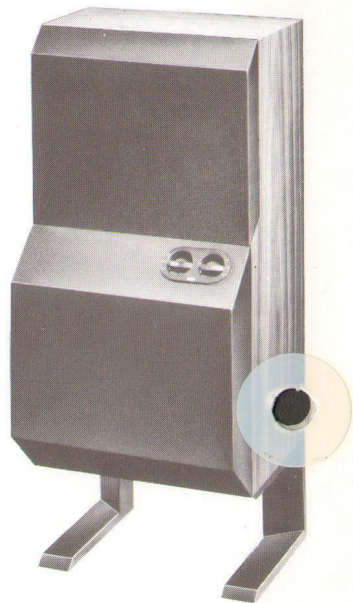
B&W Loudspeakers



Such a musical family



DM6



“The overall impression . . . is one of satisfying, untiring natural sound, without any distracting features . . .”

HI-FI NEWS

Britain's first linear phase speaker system, pioneering new materials, applications and techniques. Performance is characterised by extremely accurate amplitude and phase response. In fact, DM6 is one of the few systems in the world delivering truly realistic reproduction of complex impulse responses.

The three B&W-developed drive units are mounted in a stepped arrangement (seen in the functional shaping of the front baffle) to allow for different 'arrival times'.

The twin control feature allows critical adjustment of mid- and high-frequency energy.

Height
(with stand) 931mm (36 $\frac{5}{8}$ in)

Width
410mm (16 $\frac{1}{2}$ in)

Depth
380mm (15in)

Weight
34kg (74 · 8lb)

Cabinet
High density board and mechanical damping panel laminate.

Finish
Standard: teak or walnut veneer.
Special: satin white or veneers of rosewood or black ash.

Frequency response
 \pm 3dB 50 Hz to 20kHz,
3 metres on axis.

Sensitivity
7 · 8 volts r.m.s. for a s.p.l.
of 95dB at 1 metre.

Power handling
Suitable for amplifiers
25 to 350 watts r.m.s. into
8ohms nominal impedance.

Overload protection
2 · 5 amp fusing for complete
system; 0 · 5 amp for h.f. unit.

Performance and size

There is one all-important criterion behind the B&W loudspeaker family: excellence of performance in relation to size.

That may sound like an oversimplification—but at our purpose-designed factory on the Sussex coast at Worthing, maximum creative effort and the most advanced technological resources continually work together within that basic principle.

From the time he founded this Company in 1966, John Bowers has always recognised the need that exists for exceptionally good loudspeakers capable of satisfying the most discriminating home listener and music lover.

We have consistently set out to meet this demand by enthusiastic investment in the best talent, equipment and technical facilities. Our ambitious research and development programmes are directed by the top creative talents working in this field, employing the resources of the most advanced acoustic laboratory in Europe.

Some of the B&W research and development team in our computer room. John Bowers in the centre.



No compromise

Such intensive R&D—which has already produced many milestones in recent audio history—must be supported by rigorous quality control at every stage. That is how we ensure that the fruits of B&W creativity are fully realised in the performance of each and every speaker that leaves our factory.

The way a system performs in its domestic environment is what matters most, and the satisfaction of many thousands of B&W owners all over the world is our chief reward.

Since we produced our very first loudspeakers, we have refused to compromise on any vital aspect of technical design, performance or styling. The result is the remarkably musical B&W family—each member of which is an aristocrat in its class.

It is basic policy at B&W that each and every loudspeaker is individually tested, and goes out with its own calibration certificate. Here a DM6 is digitally compared with the reference standard on a time-aligned microphone jig.



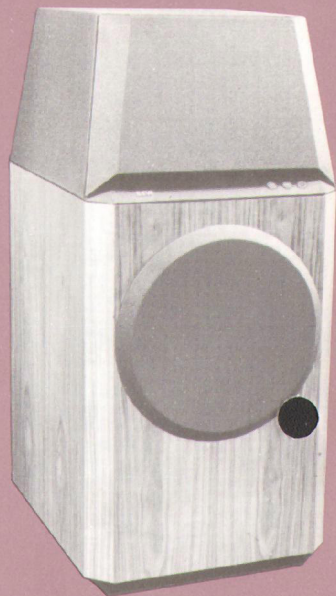
B&W Loudspeakers Ltd. reserve the right to amend details of their specifications in line with technical developments.

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First of the new no-compromise Series 80. A new generation of B&W loudspeakers for the professional and exceptionally critical listener. In Series 80, the very latest technology is coupled with the finest engineering.

Each model in the Series 80 range will represent the best we can do. In fact, only two directions will be given at the top of any Series 80 design brief: (1) physical size and (2) performance specifications. But common to every Series 80 brief will be insistence on a product of good design and pleasing appearance; a product of engineering excellence, its performance tested and guaranteed to equal or better the original design specification.

The performance demanded in the design brief for model 801 was summed-up in four words: *full professional monitor* requirements*. The brief went on to call for sound levels of 106dB in environments of up to 200m³ (7,000ft³) capacity. Size was not specified other than a general requirement that the 801 should be large enough for the professional monitoring studio, while remaining an attractive piece of furniture from the domestic point of view.

*Monitor is a word that is frequently debased, so let's be clear about what we currently mean by this description when applied to a B&W loudspeaker. Briefly, it must have linear free-field amplitude response from 30Hz to 20kHz, with minimal deviation horizontally and vertically—so as to give uniform experience to a group of listeners. Conversely, it must add no voice of its own; that is, be free from distortion and colouration.

Moreover, accurate placement of the various sound sources in the original performance must be achieved in reproduction. This placement should ideally remain stable wherever the listener is seated: well defined between the speakers (the horizontal plane) and with accurate front-to-back information reflecting the distances from performers to microphone.

Frequency response

45Hz to 20kHz ± 2 dB at centre of the listening window at 2m.

Low-frequency system

Closed box acoustic suspension with system resonance of 37Hz and system Q of 0.7 (ie: minus 3dB at resonant frequency).

Dispersion

Vertical: ± 1 dB over 10° of centre window.

Horizontal: +0, -3dB over 60° of centre window, 20Hz to 15kHz.

Drive units

Optical in-line configuration corrected for minimum inter-unit time delay. Computer-matched in pairs ensuring accuracy typically better than 0.25dB.

Distortion

For a minimal s.p.l. of 95dB at 1m.

	20Hz-100Hz	100Hz-20kHz
2nd harmonic:	less than 2.00%	0.6%
3rd harmonic:	less than 1.00%	0.00%
4th harmonic:	less than 0.20%	0.00%
5th harmonic:	less than 0.3%	0.1%

Impedance

8ohms nominal throughout entire operating range.

Sensitivity

1 watt into 8ohm load for a s.p.l. of 85dB at 1m, sine wave input at 300Hz.

Power handling

Minimum amplifier 50 watts into 8ohms. No upper limit.

Overload protection

Senses the peak voltage applied to each driver. When safe upper limits are exceeded the loudspeaker is automatically protected.

Environmental controls

Mid-frequency: for controlled attenuation between 1kHz and 3kHz. High frequency: for controlled attenuation above 3kHz.



Height

960mm (37¾in)

Width

432mm (17in)

Depth

200mm (8in)

Weight

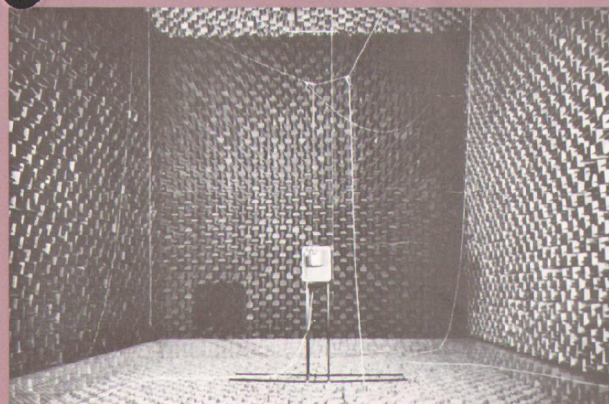
44kg (97lb)

Cabinet

25mm high density laminated walls with mechanical damping and 25mm ply bracing.

Finish

Standard: teak or walnut veneer. *Special:* rosewood or black ash veneer. *Lacquer:* a limited selection of colours, hand-finished in exquisite lacquer, are available to order.



Model 801 on test under free-field conditions in Europe's largest anechoic chamber at the Building Research Establishment, Watford.



"... overall performance is the smoothest that I have experienced under normal domestic living conditions."

John Gilbert, GRAMOPHONE

First-born of B&W computer-aided technology and almost certainly the finest small speaker system of the 70's, the DM7 is destined to set standards for the next decade.

To minimise time delay distortion, the drivers are stepped and vertically in line. The unique high-frequency unit is spheroidal in shape. Variable energy control gives three extra frequency weightings.

Beautifully engineered, its revolutionary design and superior performance satisfy even the most demanding perfectionist. The added 'front to back dimension' of the DM7 sound is a revelation.

Height

(with stand) 900mm (35¼in)

Width

270mm (10⅝in)

Depth

382mm (15in)

Weight

29kg (64lb)

Cabinet

25mm laminated walls with internal bracing. Front baffle and grille assembly moulded polystyrene structural foam.

Finish

Standard: teak or walnut veneer. *Special:* satin white or veneers of rosewood or black ash.

Frequency response

± 2 dB 70Hz to 20kHz, on HF axis at 2 metres.

Sensitivity

10 volts r.m.s. for a s.p.l. of 95dB at 1 metre.

Power handling

Suitable for amplifiers 50 to 200 watts r.m.s. into 8 ohms nominal impedance.

Overload protection

Both system and high-frequency unit are fuse-protected.

DM2/II



"... it is the way the thing makes music that matters and the DM2/II does make music; beautifully."

Geoffrey Horn, GRAMOPHONE

An excellent three-unit loudspeaker of medium size, the DM2/II is heir and successor to the tremendously popular DM2; but it is a completely new speaker design making the fullest use of the latest B&W technical expertise.

The DM2/II is as elegantly pleasing in appearance as it is impressive in performance. The option of a pedestal stand (illustrated) or wedge-shaped plinth provides a choice of two different 'looks' in the furnishing sense—both of them in the modern idiom, but each with a character of its own.

Height:
cabinet 710mm (28in)
plinth 188mm (7½in)
plinth 60mm (2¾in)

Width
270mm (10¾in)

Depth
330mm (13in)

Weight
22kg (48½lb)

Cabinet
High density board and mechanical damping panel laminate.

Finish
Standard: teak or walnut veneer. *Special:* satin white or veneers of rosewood or black ash.

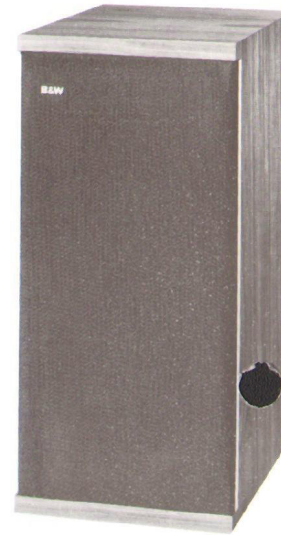
Frequency response
±3dB 50Hz to 18kHz at centre of listening window.

Sensitivity
9 volts r.m.s. for a s.p.l. of 95 dB at 1 metre.

Power handling
Suitable for amplifiers 25 to 200 watts into 8 ohms.

Overload protection
1.6 amp fuse protects the system.

DM4



"The DM4 is right at the top of the heights of quality small speakers in our opinion."

HI-FI ANSWERS

The three-driver DM4 offers an ideal synthesis of monitor performance and compact size (suitable for shelf mounting or free standing).

New design technology and materials are employed in a system which reproduces remarkably natural sound in the smaller room. The sensitivity is such that even when coupled to a modest amplifier its performance is superior to that of other speakers of comparable size.

The DM4 is also an excellent choice as a second speaker system, providing good rear-channel information in four-speaker installations.

Height
530mm (21in)

Width
255mm (10in)

Depth
256mm (10in)

Weight
11.1kg (24.5lb)

Cabinet
High-density board throughout.

Finish
Standard: teak or walnut veneer. *Special:* satin white or veneers of rosewood or black ash.

Frequency response
±5dB 80Hz to 20kHz, 1 metre on axis.

Sensitivity
6.2 volts r.m.s. for a s.p.l. of 95dB at 1 metre.

Power handling
Suitable for amplifiers 10 to 50 watts r.m.s. into 8 ohms (music content).

Overload protection
2 amp fuse protects the system.

DM5



"The B&W DM5 emerged as one of the top performers irrespective of price."

HI-FI FOR PLEASURE

DM5 is the small-space speaker for shelf- or wall-mounting. Small in terms only of size, because it consistently outperforms much bigger and costlier makes in both test and home conditions.

There's little to choose between most small loudspeakers, but the minute you hear the DM5 you will recognise that this small system is in a class of its own.

This is also an excellent second speaker system for use in another room or as back-up in a four-speaker installation.

Height
455mm (18in)

Width
227mm (9in)

Depth
241mm (9½ in)

Weight
9.5kg (21lb)

Cabinet
High-density board and mechanical damping panel laminate.

Finish
Standard: teak or walnut veneer. *Special:* satin white or veneers of rosewood or black ash.

Frequency response
± 5dB 100Hz to 20kHz, 1 metre on axis.

Sensitivity
7.4 volts r.m.s. for a s.p.l. of 95dB at 1 metre.

Power handling
Suitable for amplifiers 10 to 25 watts r.m.s. into 8 ohms (music content).

Overload protection
2 amp fuse protects the system.