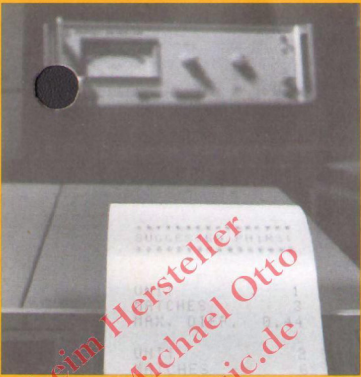


No compromise quality control

Such intensive loudspeaker research—which has already produced many milestones in recent audio history—must be supported by rigorous quality control at every stage of manufacture. 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 the factory.

We refuse to compromise on any vital aspect of technical design, performance or styling.



All Series 80 drivers are computer-matched to ensure closest possible tolerance between each loudspeaker pair.



A model 801 goes through its final test in our purpose-built Series 80 anechoic chamber.



Custom-made loudspeaker accessories

Every item in the B&W range of accessories has been purpose-designed so that the listener can arrange his system as effectively as possible in terms of sound reproduction, and as attractively as his room setting demands.

Each accessory is specifically intended for use with the B&W range of loudspeakers—so every item is simple to fit to its appropriate model.

*In the home or studio,
B&W loudspeaker accessories
add that final touch
for your listening pleasure.*



Every driver and component is produced in our own factory; the only exception is the cabinet. Very few loudspeaker manufacturers have this facility.

B&W

B&W

DM6
Model 801
Model 801
MK2 Model 801
DM7 MK2
DM12 DM7 MK2
DM2/II DM12
DM11 DM2/II
DM11 DM2/II
DM6 DM11
801 DM6

B&W

SERIES 80

Model 801

First of the no-compromise Series 80, a new generation of B&W loudspeakers for the professional and exceptionally critical listener. In Model 801, the very latest technology is coupled with the finest engineering, resulting in a system that is winning superlative reviews worldwide.

"The sound is phenomenal... utterly clean, utterly uncoloured, no spurious resonances, superb transient response, outstanding imaging and tight, unboomy bass."

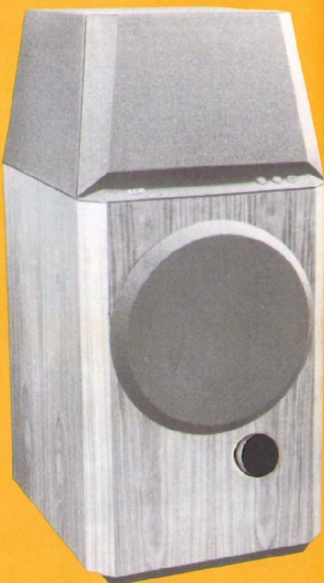
Bert Whyte, AUDIO (USA)

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

Vertical in-line configuration directed for minimum inter-aural 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%	0.25%
3rd harmonic:	less than 1.00%	1.00%
4th harmonic:	less than 0.20%	1.0%
5th harmonic:	less than 0.1%	0.2%

Impedance

8ohms nominal throughout entire operating range.

Sensitivity

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

Power handling

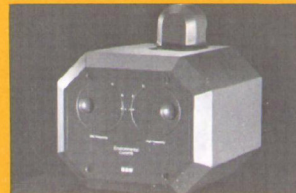
Minimum amplifier 50 watts into 8ohms. No upper limit.

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 (37 3/4in)

Width

432mm (17in)

Depth

600mm (22in)

Weight

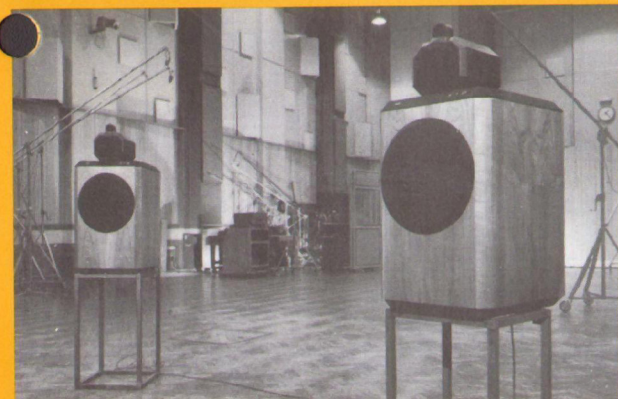
44kg (97lb)

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.



Perhaps the greatest accolade to be bestowed on Model 801 is its selection by EMI as classical music monitor at their Abbey Road Studios (illus.) and on location world-wide.

DM7Mk2



If you've ever heard a pair of B&W DM7's in action, you may ask why we decided to build a Mark 2 version at all.

The answer is that we really pushed back the boundaries of loudspeaker technology in designing our professional monitor Model 801. Naturally we wanted to build those advances into the DM7—hence the DM7Mk2.

Extensive listening tests with direct comparison between the original and the Mark 2 have shown three major areas of improvement: increased sound clarity (voices and strings for example are more naturally reproduced); higher acoustical output with lower distortion; even greater freedom in seating location while retaining excellent stereo location and depth perspective.

Height

900mm (35 1/2in)

Width

270mm (10 3/4in)

Depth

382mm (15in)

Weight

29kg (64lb)

Cabinet

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

Finish

Standard: teak or walnut veneer. *Special:* rosewood or black ash veneer.

Frequency response

± 2 dB 80Hz to 20kHz free-field at centre of listening window at 2m.

Sensitivity

1 watt into 8ohms for a s.p.l. of 86dB at 1m, sinewave input at 1kHz.

Power handling

Suitable for amplifiers of 40 watts or more. No upper limit.

Overload protection

When safe upper limits are exceeded the loudspeaker is automatically protected by Audio Powered Overload Circuit (APOC).

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 or wedge-shaped plinth (illustrated) 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)
stand 188mm (7½in)
plinth 60mm (2½in)

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:* rosewood or black ash veneer.

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 1m.

Power handling

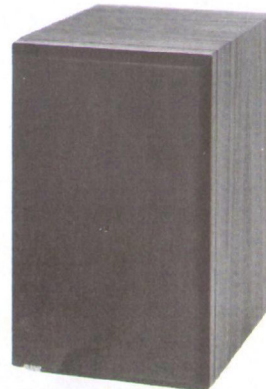
Suitable for amplifiers 25 to 200 watts into 8 ohms.

Overload protection

1.6 amp fuse protects the system.

DM12

The unobtrusive revolutionary—a 14-inch giant among loudspeakers.



This handsome new miniature rises way above the limitations hitherto imposed by such a small enclosure—delivering wider response and more realistic sound levels in the low-frequency range.

In countless ways DM12 benefits from the intensive B&W design programme. For example, the bass/mid-range driver takes advantage of the "over engineered" technology developed for Model 80; and is de-coupled from the cabinet. DM12's high technology also shows in that it is also protected by APOC.

Height

355mm (14in)

Width

220mm (8¾in)

Depth

270mm (10½in)

Weight

9.6kg (21lb)

Cabinet

12mm high-density bituminous-laminated board with internal bracing. For ultimate rigidity the 19mm front baffle assembly is manufactured of Medite.

Finish

Standard: teak or walnut veneer. *Special:* rosewood or black ash veneer.

Frequency response

±2dB 85Hz to 20kHz free-field at centre of listening window at 2m.

Sensitivity

1 watt into 8ohms for a s.p.l. of 85dB at 1m, sinewave input at 300Hz.

Power handling

Suitable for amplifiers of 15 watts or more. No upper limit.

Overload protection

When safe upper limits are exceeded the loudspeaker is automatically protected by Audio Powered Overload Circuit (APOC).

DM11

Budget loudspeaker with a pedigree—by DM4 out of DM5.



To create the DM11, we took the best features of the phenomenally successful DM4 and DM5 and combined them in a single inexpensive system. Performance was further enhanced by liberal use of B&W computer and laser technology.

Power handling? DM11 is perfectly at home with amplifiers up to 100 watts.

Height

504mm (19¾in)

Width

270mm (10in)

Depth

254mm (10in)

Weight

9kg (19.8lb)

Cabinet

12mm high-density board with internal bracing. 19mm front baffle assembly.

Finish

Veneered to resemble rosewood, teak, walnut and black ash.

Frequency response

±3dB 80Hz to 20kHz free-field at centre of listening window at 2m.

Sensitivity

1 watt into 8 ohms for a s.p.l. of 87dB at 1m.

Power handling

Suitable for amplifiers 10 to 100 watts rms into 8 ohms.

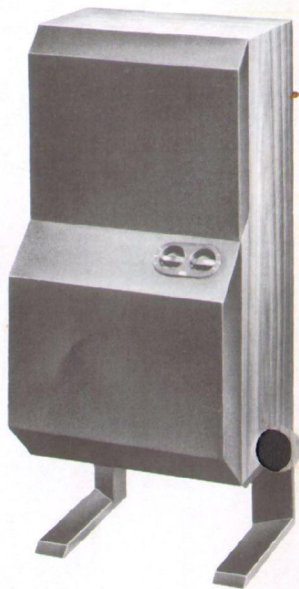
Overload protection

An 'in-line' fuse protects the system.

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 1/8 in)

Width
410mm (16 1/8 in)

Depth
380mm (15 in)

Weight
34kg (74 · 8 lb)

Cabinet
High density board and mechanical damping panel laminate.

Finish
Standard: teak or walnut veneer.
Special: rosewood or black ash veneer.

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

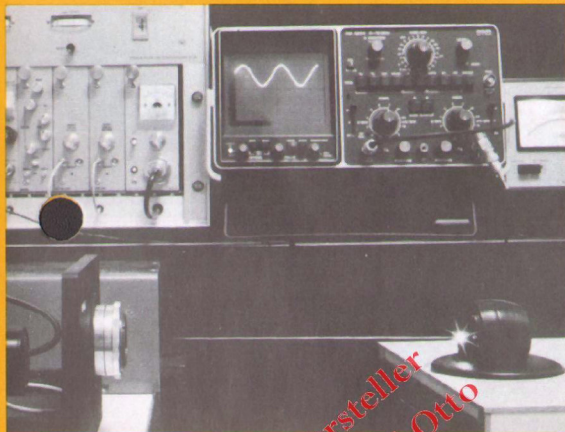
Sensitivity
7 · 8 volts r.m.s. for a s.p.l.
of 95dB at 1 metre.

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.

B&W firsts in new technology

B&W were first to use Laser Interferometry in loudspeaker design as a precise method of measuring vibration without interrupting performance. The laser therefore helps us in the development of new profiles, materials and assembly techniques.



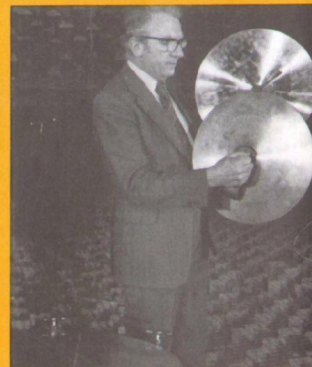
A section of the Harwell Laser Interferometry equipment at B&W—showing a DM7Mk2 high-frequency unit with laser-derived displacement on CRO.

One of the computer-aided programmes in the B&W laboratory includes a procedure developed specifically for the design of optimum crossover networks. Values of components produced in this way are ultimately used in prototype crossovers for original listening tests. This is another first from B&W design engineers.

Another exclusive from the research team is APOC—B&W's Audio Powered Overload Circuit, which protects speaker systems against accidental damage.

This illustration shows the APOC circuit within a crossover network.

We believe that subjective testing conveys information which is not easily deduced from the measured performance of a system. As part of ongoing tests in the development of new models, we record musical instruments so that the reproduced sound can be compared directly with the live sound.



Sophisticated research and development facilities

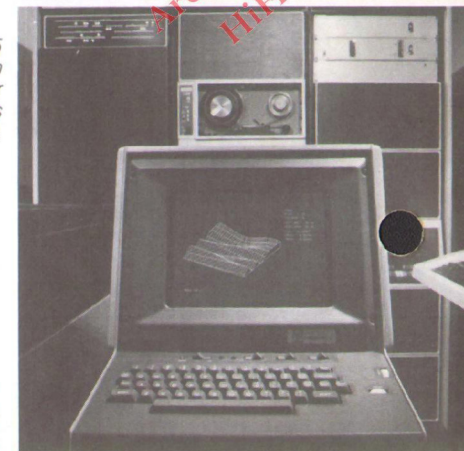
Behind the B&W loudspeaker family the one all-important criterion is excellence of performance in relation to size. We have consistently set out to meet the demand for exceptionally good loudspeakers capable of satisfying the most discriminating music lover.

Our ambitious research and development programmes are directed by the top creative talents working in this field, employing the resources of the most advanced acoustics laboratory in Europe.



Computer-aided research in the B&W factory.

View of the PDP11/35 computer installation which frees our design team to fulfil its vital creative function.



This is a corner of our newly enlarged laboratory.

Here we are recording under ideal free-field conditions in Europe's largest anechoic chamber.

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