

B&W electronics

The DM1 Monitor Loudspeaker



A Precision Miniature

The DM1 Monitor Loudspeaker

Finding a compact, high quality speaker, to re-create with the greatest possible accuracy, pure and original sound, used to be quite a problem. You chose a top performance unit, and lost on size. You chose a compact speaker, and lost on performance. Now, the B&W DM1 monitor loudspeaker strikes the size/performance balance that so many enthusiasts have always demanded.

The DM1 gives you the same unbeatable performance associated with every B&W monitor loudspeaker, yet its compact bookshelf size (only 0.65 cu.ft.) enables it to fit neatly and unobtrusively into any home. In performance, the DM1 sets a new standard for small speakers. Based closely on the world-famous DM3 monitor, the DM1 is a three-unit system, linked by a superbly designed crossover and filter network to ensure extremely low distortion and superb transient response over the entire frequency band.

Comprising exclusive laminated glass cone bass radiator, unique super tweeter and Celestion HF1300 Mk 2. What is more, each unit is individually pen-tested on our Brüel and Kjoer laboratory oscillator and is sold with its own calibration certificate — a service still unique to B&W.

All internal components are of the highest quality available, and construction and finish of the DM1 fully compliment its brilliant design. The cabinet is made from laminated hardwood, veneered inside and out for stability and made acoustically inert by bracing. With its handsome finish in teak, walnut, satin white or rosewood — even the back matches — the DM1 adds elegance and distinction to any room.



General

A three-unit system comprising bass mid frequency, wide dispersion high frequency and ultra high frequency transient and wave shaping. All monitors individually adjusted on final test and supplied complete with calibration certificate.

Units

Bass Radiator

10 in x 6 in elliptical laminated glass/metal cone, manufactured exclusively in the United Kingdom by EMI for B & W Electronics.

Upper Mid Frequency

Wide dispersion pressure.

Ultra High Frequency

Low diaphragm mass direct radiator extending response smoothly into the supersonic region.

Crossover and Filter Network

Full section networks feed each unit. Ferrite series inductor on bass radiator. All filters and networks accurately contoured for correct stop band slope rate. Highest quality components

throughout, with Polyester dielectric (not electrolytic) capacitors.

Cabinet

Thoroughly braced 12mm laminated hardwood throughout, with additional veneers on both inner and outer surfaces to ensure complete long term stability. Choice of teak, walnut or rosewood outer veneers on all surfaces including back.

Acoustic Loading

Infinite with membrane 'Q' Controller.

Power Handling Capacity

10 watts RMS input
15 watts music input

Distortion (Dtot)

Typical figures from random production sample (8 watts RMS input):

100 Hz	200 Hz	500 Hz	1kHz	5kHz	10kHz
3%	2%	0.65%	0.6%	0.5%	0.87%

Polar Response

Off axis response, 60 degree arc within \pm 2db on axis response 40 Hz to 20 kHz.

Frequency Response

Better than plus or minus 5db 100 Hz to 25 kHz.

Impedance

8 ohms nominal, not falling below 7 ohms. Suitable for all valve or transistor amplifiers.

Dimensions

Height	16½ in	(42 cm)
Width	9 in.	(22.8 cm)
Depth	8 in.	(20.3 cm)

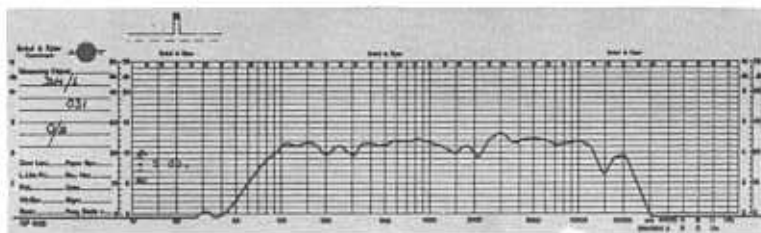
Net Weight

15 lb 2 oz. (7 Kgs).

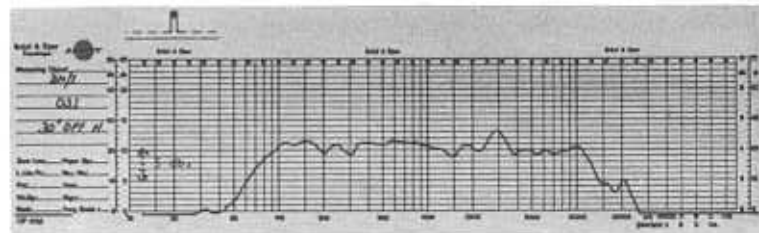
The manufacturers reserve the right to amend or modify this specification without notice.

For the professional user

Pen recordings, taken from a normal production sample in our Anechoic chamber, and Axial plot supplied with each loudspeaker. Accuracy of our chambers and measuring equipment checked against standard at EMI, and Northern Polytechnic, showing an accuracy of better than plus or minus 2 db.



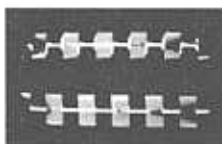
On axis frequency response of production sample taken in our test chamber.



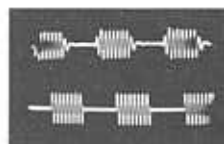
30° off axis under similar conditions indicating almost exactly similar response for 60° arc.

Tone burst response

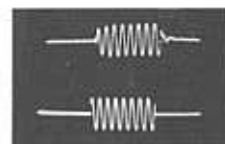
These oscillograms give accurate indication of DM1 performance, and include deterioration due to ancillary equipment such as a recording microphone.



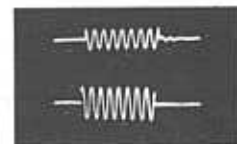
10 kHz



7.5 kHz



3 kHz



500 Hz

B&W electronics

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