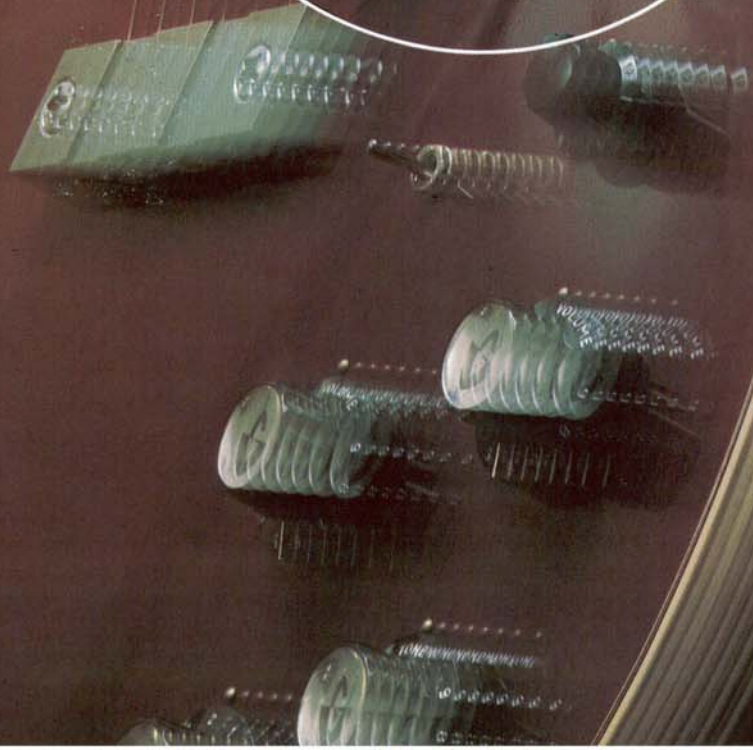


**B&W DM22**

Bring your  
music into  
focus...



# with the B&W DM22.

Like a photograph that is out of focus, a loudspeaker that presents a hazy, clouded image will never make music sound real.

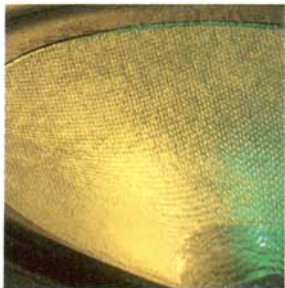
In a camera, exact optical focus is achieved by the combination of advanced design and exacting construction standards. B&W Loudspeakers achieve musical focus by adhering to the same strict standards. Their advanced technology includes crossover designs optimized by computer and cone inspection performed by laser interferometry. B&W's flawless construction is evidenced throughout—from massive cast-alloy frames to exquisite wood veneer finishes.

B&W Loudspeakers reproduce much more than just the notes and overtones of a performance. By revealing the subtlest details of the music, they add a sense of depth and clarity that brings one much closer to the experience of listening to a live performance. Serious music listeners use a variety of terms to describe this elusive quality. We at B&W call it focus.

## THE ELEMENTS ESSENTIAL FOR MUSICAL FOCUS

While thousands of design decisions have been made in the development of the DM22, several key parameters contribute most to its unique degree of musical focus. These design elements address subjects largely ignored by other loudspeaker manufacturers. Yet, it is precisely these elements which are essential to produce an outstanding loudspeaker, as opposed to a merely good one.

## ADVANCED CONE MATERIALS



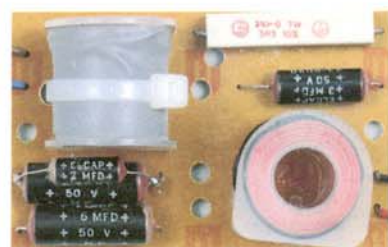
Both drivers of the DM22 have been developed with the principal objective of reducing driver-induced sonic coloration. The 8-inch bass-driver has a laminated fiber/polymer composition cone far less prone to resonance than conventional cone paper. The 1-inch treble unit employs the same woven polyester dome material found in the treble unit of B&W's 801 Studio Reference Monitor Loudspeaker. By virtue of these sophisticated materials, both drive units are non-resonant, extremely resistant to thermal damage, and are virtually free from unit-to-unit variability.

## CONTROL OF ENCLOSURE VIBRATION

In a small loudspeaker such as the DM22, enclosure vibration can seriously compromise the clarity of the system's bass and midrange performance. To prevent this, B&W has optimized the DM22's cabinet bracing and structure for maximum rigidity by using a high-density  $\frac{3}{4}$ -inch particle board with veneered exterior. Additionally, specially designed driver isolation fasteners separate the bass driver's rigid cast alloy frame from the enclosure's front panel.

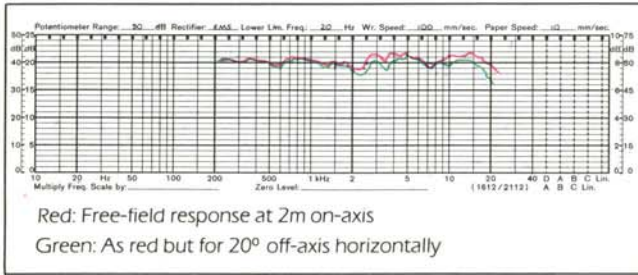


## INNOVATIVE CROSSOVER WITH HIGH QUALITY CONSTRUCTION



Rather than resorting to the simplified 6 dB per octave crossover network type found in most two-way loudspeakers, B&W elected to design a full third-order (18 dB per octave) Butterworth-type network for the DM22, similar to those found in the most advanced two-way monitor loudspeakers. The components of the network match the high standards of its advanced design; the inductors use ferrite cores to minimize DC resistance, while the capacitors are reversible electrolytics with very high voltage ratings.

## CONTROL OF DISPERSION FOR IMPROVED STEREO IMAGING



In home listening environments, an excessively wide dispersion pattern can actually reduce the effectiveness of a speaker's stereo imaging, because excessive room reflections cause multiple arrivals of the same musical signals. Too narrow a dispersion angle leaves insufficient room in the prime listening area.

Like all other members of the B&W range, the DM22 exhibits a carefully controlled dispersion pattern—within 4 dB over a 60 degree horizontal arc.

## INTEGRATION OF FORM AND FUNCTION

B&W engineers, working closely with the world-renowned Pentagram design firm, fully integrated the visual appearance of the DM22 with its electroacoustic design. The DM22's handsome veneered enclosure is finished to the same standards as the 801 Professional Monitor. The rounded end caps and grille frame area, while stylish, also serve to reduce diffraction effects. Despite its moderate price, the DM22 demonstrates the same attention to design and detail characteristic of B&W's larger loudspeakers.





## DM22 SYSTEM DESCRIPTION: AN INEXPENSIVE LOUD- SPEAKER STILL WORTHY OF THE B&W NAME.

Despite being an inexpensive loud-speaker system, the DM22 benefits from virtually all of B&W's significant technological innovations. The DM22 incorporates a fibre/resin laminate 160mm bass/midrange driver, which has been critically treated to assure uniform quality and low colouration according to a formula derived through laser interferometry. For high frequencies, the DM22 uses the same basic treble unit found in B&W's top-of-the-DM line, the DM16.

While the DM22 sounds like it costs far more, it is no "stripped-down" model. It is furnished in a handsome veneered enclosure.

With the 801 B&W established new levels of performance. With the DM22, B&W has established a new level of value.

*Made 81-85 \$499/pr 134 used*

### SPECIFICATION

#### Frequency response

70 Hz to 20kHz  $\pm 3$ dB free-field on listening axis at 2m.

#### Low-frequency system

Acoustic suspension system resonance 72 Hz and system Q of 0.8.

#### Dispersion

Vertical:  $\pm 2$ dB over  $10^\circ$  arc.

Horizontal:  $+0-4$ dB over  $60^\circ$  arc, 20 Hz-10kHz.

#### Drive Units

Two, vertical in-line.

#### Bass/mid-range driver DW200/22

160mm piston with 26mm high-temperature voice coil.

#### High-frequency driver TW26/22

26mm high-temperature epoxy-bonded voice coil and polyester weave dome.

#### Distortion

Second and third harmonic for a nominal s.p.l. of 90dB at 1m.

Less than 3% below 250 Hz.

Less than 1% above 250 Hz.

#### Impedance

Nominal 8 ohms.

#### 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.

Maximum s.p.l. at 1kHz 106dB, at 1m.

#### Dimensions

Height: 504mm (19 $\frac{3}{4}$ in).

Width: 254mm (10in).

Depth: 254mm (10in).

#### Weight

11.50kg with optional stand (25.3 lb).

9.30kg without (20.5 lb).

#### Cabinet finish

Selected wood veneers of teak or walnut.

Simulated wood veneers of rosewood or black ash.

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

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**B&W**

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