

**B&W** DIGITAL MONITORS



DM1200 & DM1400

LISTEN AND



B&W

DM1200

# YOU'LL SEE

DM1200/DM1400 are natural extensions to the B&W digital monitor range. They represent two systems offering a quality of reproduction – from both digital and analogue material – probably superior to any other loudspeaker of comparable size and price.

DM1200 is an extremely compact two-driver system with a quite superb frequency response and acoustical output. DM1400 is a sophisticated 28-litre internal volume system of the three-driver closed box type. Both are equally appropriate to the professional studio or high quality home installation.

## Two great advances

These two new loudspeakers incorporate significant technological advances: ETD (electronic time delay), in which cumbersome physical time delay of the signals is replaced by automatic delay; and the TZ26 high-frequency driver, a vital new component in the exploration of the digital recording technique. As the sound source diminishes frequency increases. The improved dispersion and transient behaviour which result transform performance in the top three octaves.

## Crossover and filter design

One of the many advantages of group time delay correction for the drivers is the facility to employ even-order Butterworth squared filter characteristics, ensuring a symmetrical vertical polar response. With the advent of ETD it was therefore possible to computer-optimize the filters for both models, giving a classic fourth-order Butterworth squared acoustical response.

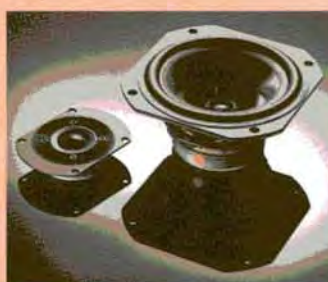
Meticulous care has been taken with DM1200/DM1400 to ensure that all internal losses, both in inductors and connecting leads, are significantly reduced compared with previous models.



*Sophisticated computer-optimized fourth-order Butterworth squared crossover network incorporates B&W's patented APOC system.*

## Automatic overload protection

A further B&W development for handling the demands of digital recording is APOC (audio powered overload circuit). This is a safety device giving automatic protection against all forms of AC or DC overload. If the pre-set power level is exceeded the drive units simply cut-out, an event which is signalled on a visual LED indicator.



*Advanced drivers – produced in-house – enjoy 100% digital control, ensuring finest precision engineered quality.*



*Super-low resistance, high-pressure terminals take 4mm plug or cable connection.*

## Cabinet design perfected

DM1200/DM1400 inherit the basic overall appearance of their distinguished predecessors (DM12 & DM14). However, the refinements in audio technology found in DM1200/DM1400 are reflected in the cabinet design detailing. Significant improvements have been achieved with additional bracing and damping materials, endowing the enclosures with a greater degree of neutrality and significantly less spurious radiation than their predecessors.

With the arrival of ETD, DM1200/DM1400 incorporate all the advances needed to meet the demands of digital recording without having to lose the sheer convenience of a flat-fronted baffle and cabinet.

## Optimum performance assured

DM1200 is small enough to position on most items of furniture – and in fact virtually anywhere in the home. A stand is therefore not a necessity, but is available as an optional extra. DM1400 is supplied complete with its own stand to guarantee the necessary height position for obtaining optimum performance.

## The B&W difference

B&W is one of the very few UK loudspeaker manufacturers to exercise absolute control over the design and manufacture of its products. Each and every component (cabinets excepted) is produced in our factory. New designs are only initiated on the basis of genuinely advanced ideas.

This is the concept that distinguishes B&W from other loudspeaker manufacturers and is a guarantee of the new experience awaiting you in DM1200/DM1400. Both systems are in every respect significantly better loudspeakers than the famous models they supersede.



**DM1400**

## SPECIFICATION

### DM1200

### DM1400

#### Frequency response

40Hz to 22kHz  
85Hz to 20kHz  $\pm$  2dB at centre  
of the listening window at 2m.

30Hz to 22kHz.  
80Hz to 20kHz  $\pm$  2dB at centre  
of the listening window at 2m.

#### Bass response

-6dB at 50Hz, optimised to give  
essentially flat third octave  
response down to 40Hz with  
asymmetrical room loading.

-6dB at 45Hz, optimised to give  
essentially flat third octave  
response down to 35Hz with  
asymmetrical room loading.

#### Low-frequency system

Acoustic suspension type, with  
one active bass driver.

Acoustic suspension type, with  
two active bass drivers.

#### Dispersion (both models)

Vertical:  $\pm$  1.5dB over 10° arc 20Hz to 10kHz.  
Horizontal: +0, -2dB over 40° arc 20Hz to 10kHz.

#### Drive units

Two, vertically in-line. | Three, vertically in-line.

Both electronically corrected for minimum inter-unit time delay.

#### Bass/midrange driver

Diaphragm: 150mm dia. Bextrene cone heavily damped with p.v.a. compounds.  
Voice coil: 26mm dia. high-temperature.

BW150/12 | BW150/14

#### High-frequency driver TZ26

Diaphragm: 26mm dia. special polyamide, laser-optimised.

#### Crossover & filter network

True fourth-order acoustic  
Butterworth-squared  
characteristic, computer-optimised  
to greater than -40dB reference  
0dB level, giving 24dB per octave  
attenuation in the stop band.  
Crossover frequency 3kHz.

True fourth-order acoustic  
Butterworth-squared  
characteristic, computer-optimised  
to greater than -40dB reference  
0dB level, giving 24dB per octave  
attenuation in the stop band. Bass  
driver first order difference filter.  
Crossover frequencies 500Hz and  
3kHz.

#### Distortion (both models)

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

	20Hz-200Hz	200Hz-20kHz
Second harmonic: less than	3.0%	2.0%
Third harmonic: less than	1.0%	0.5%

#### Impedance (both models)

8ohms nominal throughout entire operating range.

#### Sensitivity

1 watt into 8ohms load for a s.p.l. of  
85dB at 1m, sinewave input at 500Hz.

1 watt into 8ohms load for a s.p.l. of  
86dB at 1m, sinewave input at 500Hz.

#### Power handling (both models)

Minimum amplifier 30watts into 8ohms.

No upper limit because of electronic overload protection device.

#### Dimensions

Height: 355mm (14in).  
Width: 220mm (8 $\frac{3}{4}$ in).  
Depth: 270mm (10 $\frac{3}{4}$ in).

Height: 795mm (31 $\frac{1}{2}$ in) with stand.  
Width: 256mm (10in).  
Depth: 295mm (11 $\frac{1}{2}$ in).

#### Weight

9.6kg (21lb). | 19kg (41.8lb).

#### Cabinet finish (both models)

Selected veneers of walnut, rosewood, natural oak or black ash.

### Used by the major digital recording studios worldwide

DM1200/DM1400 provide further evidence of B&W's leadership in the field of digital recording.

Throughout the world, the finest conductors, orchestras and instrumentalists use our Model 801 as their only classical music monitor. The recording companies and their balance engineers insist upon it.

The B&W 801 has in fact become the definitive monitor for the world's most discriminating professionals. What higher standard could we have set ourselves for the design and development of DM1200/DM1400?



*Virtually every classical digital recording from the major companies throughout the western world is monitored in the studio by B&W's Model 801. Pictured here is the Decca digital suite in London.*



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Distributed in 35 countries worldwide