

DOV
LOUDSPEAKERS
DOV

MATRIX 803 MATRIX 804 MATRIX 805





THE EXTENDED
800 SERIES —
SLEEK DREAMS

B&W have produced three further loudspeakers in the Matrix 800 Series.

The now famous classical recording industry standard monitor — Matrix

801, and its domestic counterpart —

the Matrix 802 have played their part

in raising general expectations in sound reproduction.

We acknowledge that some people

don't have either the resources or the

space to accommodate such imposing

monitors. The Matrix 803, 804 and

805 are our recommended solution.

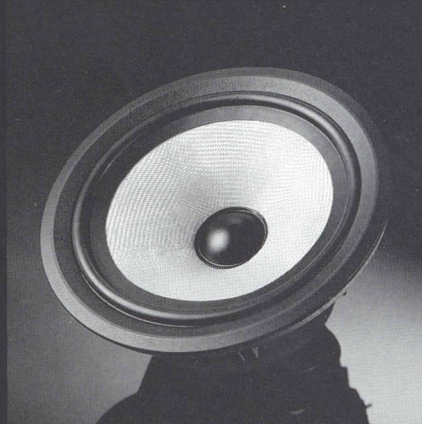
Slim, elegantly designed speakers.

Sleek dreams.

IDEAS FROM
THE B & W
INNOVATION POOL

The Matrix 803 and 804 contain an upper bass/midrange unit in Kevlar — a B&W innovation now copied by many other manufacturers — and a Cobex cone bass unit with a modified Matrix 801 tweeter mounted on top of the enclosure.

The Matrix 805H and 805V models have been designed with a bass/midrange unit only to achieve standard Matrix 800 Series performance whilst occupying very modest floor or shelf space. Unlike other speakers of its size this has not meant any compromise in bass extension. This is due to the B&W innovation of using a sixth-order bass alignment filter — found in all 800 Series models, but perhaps most noticeably in the 805 — where it extends

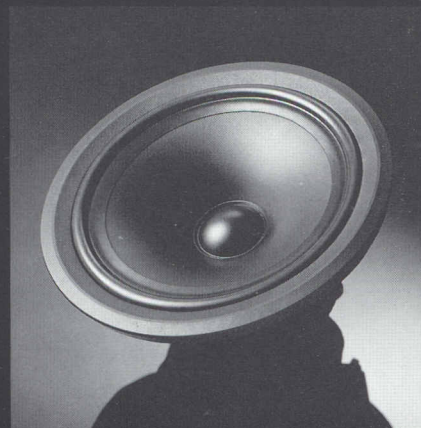


the response to 36Hz. A 165mm (6 $\frac{1}{2}$ in) Kevlar coned bass/midrange driver unit, incorporating a 30mm (1 $\frac{1}{2}$ in) high-temperature voice coil on a Kapton former, ensures that the Matrix 805 has out-standing bass performance for its size. Ideal for recording studios or home environments where space is at a premium.

Throughout the Matrix 800 Series B&W Kevlar cone drivers are employed to produce a unique break-up pattern which enables the speakers' response to roll-off in a controlled manner above their working range. Kevlar's unusual directional weave induces a largely self-cancelling resonant pattern across the cone.

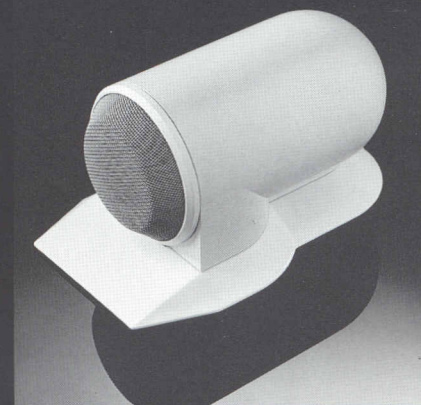
Air is moved around close to the surface but no intrusive output is produced by the resonance. In consequence the Kevlar cone bass/midrange driver offers up a significantly more neutral sound with higher information retrieval.

In the Matrix 803 and 804 the Cobex cone lower bass driver is optimised for bass frequencies as its performance is confined to below the lower midrange. A specially formulated rubber surround enhances both drivers' performance giving higher electrical/mechanical



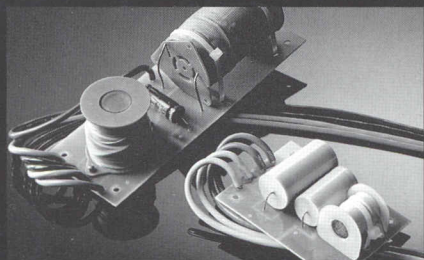
damping ratios, resulting in a more accurate and faster sound when reproducing bass transients.

At high frequencies, the modified Matrix 801 tweeter incorporates magnetic fluid cooling to damp any unwanted resonances leading to noticeably smoother response, and in the process, more than doubling the tweeter's power handling. The tweeter's position on top of the enclosure provides a spaciousness of image not found in many other loudspeakers.

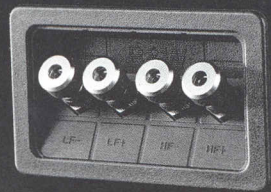


WIRED FOR CLEANER SOUND

In common with the rest of the 800 Series, these speakers are supplied with an electronic high-pass alignment filter to produce a sixth-order Butterworth (maximally flat) system response. This enhanced filter uses high quality electronic components and these, in conjunction with the time-delay compensation configuration of the tweeter outside the cabinet, enables the crossover to work more precisely.



The design approach used throughout these systems employs drive units that need the minimum number of crossover components, together with a permanent bi-wiring or bi-amplification option. The high- and low-pass sections are physically separated to minimise component interaction.



GOOD LOOKS. GREAT SOUND.

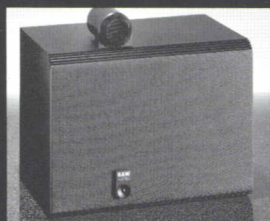
In the search for flawless sound reproduction the loudspeaker enthusiast has sometimes had to sacrifice appearance for performance. If the serious listener has an abundance of living space then this does not present a problem.

B&W appreciate that not everyone is in this happy position. The extended B&W Matrix 800 Series has been designed for people for whom interior design consciousness and economy of floor space are as important as audio performance when considering loudspeakers.

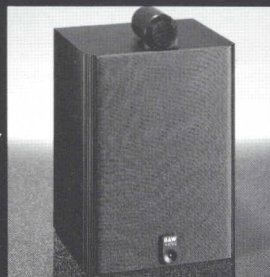
A DEFT TOUCH

The extended Matrix 800 Series enclosures display once again the deft touch of Britain's foremost industrial designer, Kenneth Grange of Pentagram. The immediate impression is of subtle lines and smooth contours. Sleek sophistication disguising surprising power.

The streamlined floor-standing Matrix 803 and 804 will distinguish any design conscious household whilst less spacious environments will be well-served by the Matrix 805H or 805V, with its distinctive horizontal or vertical styling and just one-third the internal volume of the Matrix 804 – making it ideal for either stand or shelf mounting.



805H



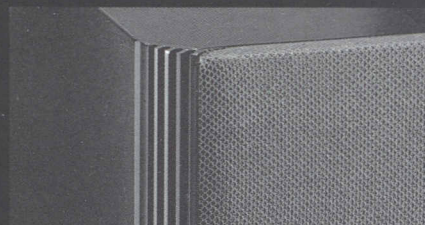
805V

All three speakers' cabinet edges are bevelled in the 800 Series tradition, with front grilles integral to the overall enclosure designs. The custom-designed aluminium side trims, anodised exclusively in Denmark to blend with the overall design, make a forward statement about these models' stylish intentions. Each different paint finish and wood veneer has its own matching grille cloth, side trim and tweeter housing.

ART AND TECHNOLOGY

The new grille design is a revealing example of B&W's cunning marriage of art and technology. Apart from looking good, the smoothly rounded grille edge minimises the sound

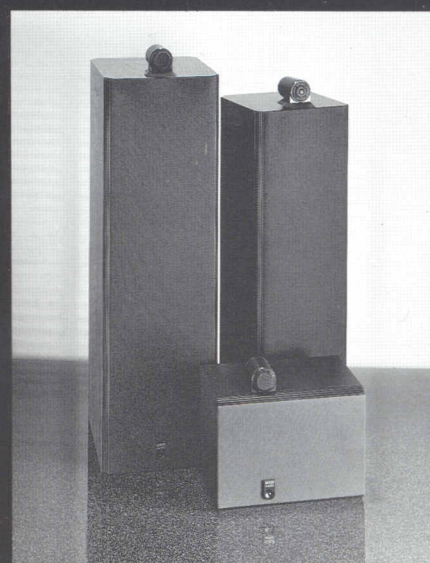
diffraction effect, and underneath the grille cloth the edge of the drive unit cut-out has a carefully optimised radius to achieve the same effect.



CLEARLY HEARD

Naturally, these speakers also share B&W's celebrated Matrix enclosure construction. The honeycomb composition of the interior enables enhanced damping as well as supreme rigidity. The result is unsurpassed levels of stereo imaging with each Matrix cell acting as a miniature anechoic chamber absorbing excess out-of-phase energy. The difference can be clearly heard.

The Matrix 803, and its junior relatives the 804 and 805, have been added to the recording industry acclaimed Matrix 801 and 802 in an attempt to convince the design conscious sceptic that superb sonic performance and visual elegance in loudspeaker design are not incompatible.



MATRIX 803,
804 AND 805 –
SLEEK DREAMS
COME TRUE

S P E C I F I C A T I O N S



MATRIX 803



MATRIX 804



MATRIX 805

FREQUENCY RANGE	(-6dB points) 23Hz to 22kHz	(-6dB points) 26Hz to 22kHz	(-6dB points) 35Hz to 22kHz
BASS LOADING	Sixth-order Butterworth alignment 26Hz cut-off	Sixth-order Butterworth alignment 29Hz cut-off	Sixth-order Butterworth alignment 42Hz cut-off
FREE-FIELD RESPONSE	Listening axis ± 2 dB, 28Hz to 20kHz $\pm 30^\circ$ horizontal ± 2 dB to 10kHz $\pm 5^\circ$ vertical ± 2 dB to 20kHz	Listening axis ± 2 dB, 31Hz to 20kHz $\pm 30^\circ$ horizontal ± 2 dB to 10kHz $\pm 5^\circ$ vertical ± 2 dB to 20kHz	Listening axis ± 2 dB, 45Hz to 20kHz $\pm 30^\circ$ horizontal ± 2 dB to 10kHz $\pm 5^\circ$ vertical ± 2 dB to 20kHz
SENSITIVITY	90dB spl (2.83V at 1m)	89dB spl (2.83V at 1m)	87dB spl (2.83V at 1m)
DRIVE UNITS	One 180mm (7in) bass with Cobex cone One 180mm (7in) bass/midrange with Kevlar cone - both have 30mm (1 1/8in) high-temperature voice coils on Kapton formers. One 26mm (1in) high-frequency with metal dome, high-temperature voice coil and ferrofluid cooling	One 165mm (6 1/2in) bass with Cobex cone One 165mm (6 1/2in) bass/midrange with Kevlar cone - both have 30mm (1 1/8in) high-temperature voice coils on Kapton formers. One 26mm (1in) high-frequency with metal dome, high-temperature voice coil and ferrofluid cooling	One 165mm (6 1/2in) bass/midrange with Kevlar cone. One 26mm (1in) high-frequency with metal-dome, high-temperature voice coil and ferrofluid cooling
DISTORTION	For 95dB at 1m Second harmonic: <2.0% (20Hz to 100Hz) <0.5% (100Hz to 20kHz) Third harmonic: <2.0% (20Hz to 100Hz) <0.5% (100Hz to 20kHz)	For 95dB at 1m Second harmonic: <2.0% (20Hz to 100Hz) <0.5% (100Hz to 20kHz) Third harmonic: <2.0% (20Hz to 100Hz) <0.5% (100Hz to 20kHz)	For 90dB at 1m Second harmonic: <2.0% (20Hz to 150Hz) <1.0% (150Hz to 20kHz) Third harmonic: <1.5% (20Hz to 150Hz) <1.0% (150Hz to 20kHz)
IMPEDANCE	Nominal 8 Ω (not falling below 4 Ω)	Nominal 8 Ω (not falling below 4 Ω)	Nominal 8 Ω (not falling below 4 Ω)
POWER HANDLING	Suitable for amplifiers with 50 to 200W output into 4 Ω	Suitable for amplifiers with 50 to 200W output into 4 Ω	Suitable for amplifiers with 50 to 120W output into 4 Ω
DIMENSIONS	Height: 1017mm (40in) Width: 285mm (11 1/4in) Depth: 334mm (13 1/8in)	Height: 920mm (36 1/4in) Width: 258mm (10 1/8in) Depth: 258mm (10 1/8in)	805H 805V Height: 333mm (13 1/8in) 407mm (16in) Width: 334mm (13 1/8in) 260mm (10 3/8in) Depth: 210mm (8 3/8in) 210mm (8 3/8in)
WEIGHT	26.3kg (58lb)	19.4kg (42.8lb)	8.5kg (18.7lb)
CABINET FINISH	Real wood veneers of black ash, natural oak, rosewood or walnut: semi-gloss black or white	Real wood veneers of black ash, natural oak, rosewood or walnut: semi-gloss black or white	Real wood veneers of black ash, natural oak, rosewood or walnut: semi-gloss black or white

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

B&W and Matrix are trademarks of B&W Loudspeakers Ltd, England.

© Copyright B&W Loudspeakers Ltd.

B&W
LOUDSPEAKERS

B&W Loudspeakers Ltd Meadow Road Worthing
West Sussex BN11 2RX England