



B&W Bowers & Wilkins

B&W Loudspeakers Ltd T +44 (0) 1903 221800
 Dale Road F +44 (0) 1903 221801
 Worthing West Sussex info@bwgroup.com
 BN11 2BH England www.bwgroup.com

UK Sales Enquiries and Service
 T +44 1903 221 500
 E uksales@bwgroup.com

B&W Loudspeakers of America
 T +1 978 664 2870
 E marketing@bwgroup.us

B&W Loudspeakers (Asia) Ltd
 T +852 2 869 9916
 E showroom@bwgroup.hk

Copyright © B&W Loudspeakers Ltd. E&OE.
 Design by Thomas Manss & Company.
 ICEpower® is a registered trademark of B&O ICEpower® a/s
 B&W Loudspeakers reserves the right to amend details
 of the specifications without notice in line with technical
 developments.

Aesthetically, conceptually and acoustically, the PV1 subwoofer is the ultimate partner to the M-1, deriving strength and integrity from its curved form to deliver exceptional bass.



Cables can be a problem with home theatre. We didn't want dangling or trailing cables spoiling the lines of the M-1, so we designed the floor stand to allow a cable to enter at its base, and then connect to the metal 'arm' that supports the speaker. There's a similar arrangement for the wall bracket and table plinth.

A beautiful whole

For us, a movie is only great if it adds up to more than the sum of its parts. The parts have to be good – an original storyline, great dialogue, flesh-and-blood characters, bold directing – but to create movie magic they have to be brought together in a way that people will warm to and want to see over and over again.

We felt we should keep this in mind when we designed the latest Bowers & Wilkins loudspeaker for home cinema, the M-1.

Small it may be, the M-1 is brimming with innovative acoustic engineering. From the inside out, it has been conceived as a unified system delivering superlative sound, looks and ease of use. Starting on a blank sheet of paper, its design has evolved in a totally integrated way, from the tube-loaded tweeter and woven bass driver cone to the two-piece cabinet and concealed cabling.

Put a M-1 in all five satellite speaker positions alongside a B&W subwoofer and you'll have a sum of parts that is movie magic in the making.



The sum of the parts

The secret of the M-1 is its unified, integrated structure: the way the design coalesces the components and cabinet into a harmonious whole. It all fits together beautifully, with a minimum of noise-inducing seams, joints and discontinuities.

The cabinet comprises just two elements: a single curved aluminium casting, forming the sides and rear; and a curved moulding in strong, glass-loaded, ABS plastic, creating the front baffle and ends. It's a neat double-act: the aluminium stiffens the assembly; the ABS offers excellent damping characteristics.

Their curves clamshell together, adding strength and reducing the number of cabinet joints to (a very minimal) one. Not only that, it changes the whole aesthetic of the loudspeaker from one resembling a piece of furniture into that of a sleek, Italian-designed wall-light.

Inside, tethering the drive units rigidly to the front baffle, is a sub-frame. This, in turn, is clamped by a single screw to the rear of the main cabinet, pre-stressing the entire structure and keeping it rigid, well-damped and airtight.

Once assembled, the system is mechanically optimised as a single, integral unit, which cuts down on the electronic components needed in the crossover: tuning can be done by ear, rather than by computer. What you hear is a more natural, more organic sound, tailor-made to bring movie sound effects bursting to life, as we think your ears will agree.



The M-1 follows the same design principles as those found in our reference 800 Series. Using high quality drive units in a carefully sculpted enclosure requires only the deftest electronic tailoring from the crossover. Inside the M-1 you'll find just a single, carefully chosen component for each drive unit, giving a purity of sound that minimises the difference between real and recorded.



We like to keep improving things, and our 1" metal dome tweeter – similar to that in most other B&W models – is no exception. The M-1 version benefits from refinements developed for the top-of-the-range 800 Series. Its Nautilus™ -derived tweeter tube and neodymium magnet ensure exceptional efficiency.



The design of the 4" bass/midrange drive unit centres around reducing unwanted colouration of the sound. Its glass fibre cone has a woven structure that helps to break up standing waves, and five strategically placed slots, each filled with a resin glue to preserve the cone's airtightness, minimise so-called 'bell modes'.



Inspiring wiring



In the same way a power cable enters a well-designed table lamp at its base, and passes up through the stand, the M-1's signal cable disappears into the back of the table plinth stand, from where the signal reaches the speaker via a specially-designed, pre-wired 'arm' support.

Each of the M-1's three mounting options – table plinth, wall bracket and floor stand – contains an entry point for the signal cable, and an 'arm' support that conveys the signal to the speaker, via a combination of the metal arm itself and a high quality wire inside it.

With six or seven speakers around the room and yards of cable issuing from them, a home theatre set-up can seem like a scene from Spiderman. Even with cable concealed under floors or within walls, at some point it has to emerge and make connections with speakers. When it does it can still spoil the view of either a movie or the surroundings (or of the clean lines of the M-1).

With the M-1, we've done our best to cut down on the web of wiring, and pushed cable management a stage further than usual. Taking a leaf from the book of office furniture design, we've integrated the cable into the product and its various mounting accessories. In concealing the cable, we've also concealed the connections, so there are no sockets visible, either.

Cable enters via the speaker's floor stand, table plinth or wall bracket. The electrical signal is conducted to the speaker through the metal 'arm' that supports it. The arm itself forms the negative conductor, and a single, insulated wire running inside it provides the positive one.

When mounting a M-1 on the wall, the bracket can be wired and pre-installed, with the speaker being fitted later, in plug-and-play fashion. In the floor stand, the cable is threaded through the central column and then into the arm at the top. Now what you see is as pleasing as what you hear.



To emphasise the sensuous minimalism of its design, the M-1 is available in a choice of three high quality, understated finishes: black, white or silver.



Choose a B&W subwoofer to partner your M-1 satellite speakers. The PV1 is high on curvature, clarity, control and power. The new AS2 is well-suited to smaller rooms, but incorporates the advanced control functions of the PV1. The AS1 is a compact sub for delivering deep bass in confined spaces.



Recommended systems



The M-1 is an exceptional multi-purpose speaker, designed to handle a wide band of frequencies, right up to 28kHz, out of the range of human hearing. It is more than capable of filling all five positions in a home theatre installation. Anchor this quintet with the bass from a B&W subwoofer, and you'll experience movie sound to keep you gripped, right to the final frame. Every whisper, rustle, creak, crunch, and crash of your favourite movies will seem like new once again.

M-1s can be bought individually, so they can be used in pairs for two-channel audio, too. Or you can pick up a box of five for a 5.1 home theatre set-up, with four set up vertically as your front and rear side speakers, and one as the horizontal front centre monitor. It's a much more adaptable set-up than the system-in-a-box approach. With M-1s in all five positions, your installation is future-proof: when you want to upgrade to a 6.1 or 7.1 set-up, just add one or two extra M-1s.

There are three subwoofers we'd recommend teaming up with your M-1s. Each offers a different level of bass extension and control for different needs and settings. And, in a system alongside M-1s, each one will add an extra dimension to the movies you love.



MT-10
For smaller rooms, a setup of five M-1s and the AS1 subwoofer offers the right balance of power and performance. The AS1 features an 85W amplifier, a 6.5 in driver and a choice of equalisation to suit the programme and room acoustics.



MT-20
In a larger room, more bass power will be required, so a sound option to achieve this and, at the same time, raise the quality stakes is to bring in the AS2 subwoofer with its 10" mica cone driver, 150W amplifier and more advanced control functions.



MT-30
For the ultimate M-1-based home theatre installation, whatever the size of the room, incorporate the visually and acoustically unique PV1 subwoofer, which develops some serious bass power from its 500W ICEpower® amplifier and back-to-back 8" drivers.

M-1

Description	2-way vented-box system
Drive units	1x ø25mm (1 in) metal dome high-frequency 1x ø100mm (4 in) woven glass fibre cone bass / midrange
Frequency range	-6dB at 72Hz and 50kHz
Frequency response	80Hz – 23kHz ±3dB on reference axis
Dispersion	Within 2dB of reference response Horizontal: over 60° arc Vertical: over 10° arc
Sensitivity	85dB spl (2.83V, 1m)
Harmonic distortion	2nd and 3rd harmonics (90dB, 1m) <1% 120Hz – 30kHz <0.5% 250Hz – 22kHz
Nominal impedance	8Ω (minimum 4.8Ω)
Crossover frequency	4kHz
Recommended amplifier power	20W – 100W into 8Ω on unclipped programme
Max. recommended cable impedance	0.1Ω
Dimensions (wall mounted)	Height: 243mm (9.6 in) Width: 114mm (4.5 in) Depth: 172mm (6.8 in) Mounted on table stand
Net weight	2.7kg (6 lb) including desk stand
Finishes	Cabinet: White, silver or black Grille: White, silver or black perforated steel to match



PV1

Description	Active closed-box subwoofer system
Drive unit	2xø200mm (8 in) mica / aluminium diaphragm long-throw
Frequency range	-6dB at 18Hz and 40/140Hz adjustable (EQ at i)
Frequency response	±3dB 21Hz – 31/110Hz adjustable (EQ at i)
Amplifier	Power output: 500W Rated power consumption: 110W (105W – 100V version) Input impedance: 100kΩ Signal / noise: >90dB Functions: Volume level Low-pass filter frequency Bass roll-off alignment Auto sense on/standby Phase switch Inputs: Line In (RCA Phono) Speaker Level In (RJ11) Outputs: Link Out (RCA Phono)
Low-pass filter	Active 2nd -order, variable cut-off frequency (applies only to speaker level input)
Dimensions	Height: 335.5mm (13.2 in) Width: 289mm (11.4 in) Depth: 347mm (13.7 in)
Net weight	20.5kg (45 lb)
Finishes	Silver with grey trim Black with anthracite trim White with chrome trim



AS2

Description	Active closed-box subwoofer system
Drive unit	ø250mm (10 in) mica cone
Frequency range	-6dB at 20Hz and 140Hz adjustable (EQ at i)
Frequency response	-3dB 32Hz – 125Hz adjustable (EQ at i)
Amplifier	Power output: 150W continuous Rated power consumption: 220W Input impedance: 22kΩ Signal / noise: >90dB Functions: Volume level Low-pass filter frequency Low-pass filter bypass Bass roll-off alignment Auto sense on/standby Phase switch Inputs: Line In (RCA Phono) Speaker level (binding posts) Outputs: Link Out (RCA Phono, parallel to Line In)
Low-pass filter	Active 2nd-order, variable cut-off frequency
Dimensions	Height: 325mm (12.8 in) not including spike feet Width: 325mm (12.8 in) Depth: 393mm (15.5 in) including grille and controls
Net weight	15.5kg (34 lb)
Finishes	Black with black cloth grille Silver with silver cloth grille



AS1

Description	Active vented-box system
Drive units	1x ø165mm (6.5 in) cone bass
Frequency range	-6dB at 27Hz and 100Hz Music mode
Frequency response	34Hz to 75Hz ±3dB on reference axis Movie mode 31Hz to 75Hz ±3dB on reference axis Music mode
Amplifier	Power output: 85W continuous Rated power consumption: 120W Input impedance: 100kΩ Signal/noise: 94dB Functions: Volume level Music/Movies switch Inputs: Line in (RCA Phono) Speaker level In (Spring Clips) Outputs: Line out (RCA Phono) Speaker Level Out (Spring Clips)
Low-pass filter	Active 2nd-order at 80Hz
Dimensions	Height: 378mm (14.9in) Width: 215mm (8.5in) Depth: 385mm (15.2in)
Net weight	11 kg (24.2 lb)
Finishes	Black Ash vinyl cabinet with black grille Silver vinyl cabinet with grey grille

