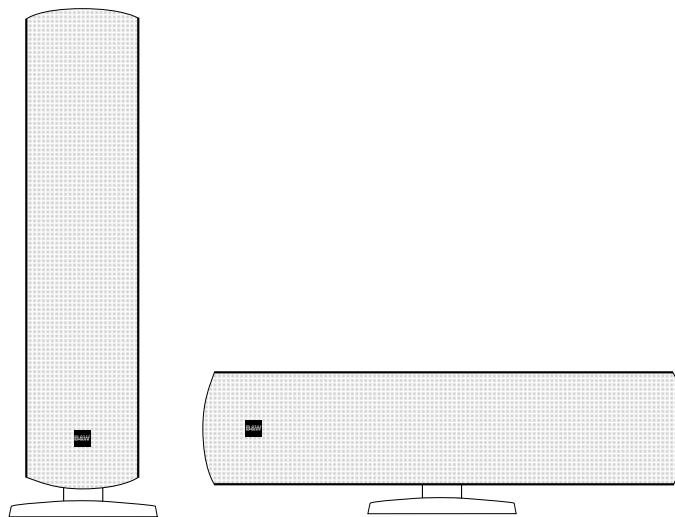


# VM 1

*Owner's Manual*



Bowers & Wilkins

Figure 1

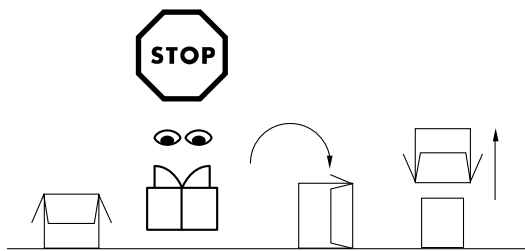


Figure 2

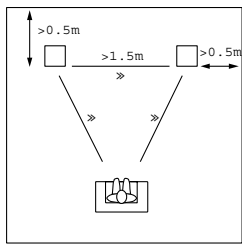


Figure 3

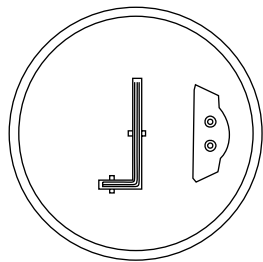


Figure 4

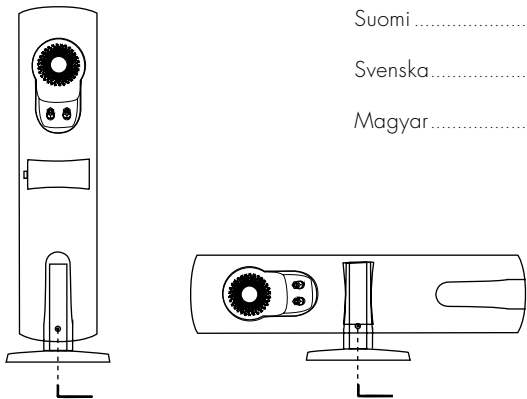


Figure 5

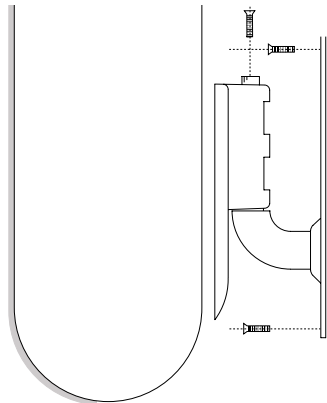
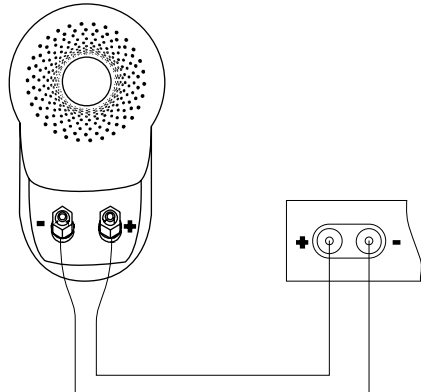


Figure 6



**VM1**  
**Owner's manual**

English ..... 1

Français ..... 2

Deutsch ..... 3

Español ..... 4

Português ..... 6

Italiano ..... 7

Nederlands ..... 8

Ελληνικά ..... 9

中文 ..... 10

日本語 ..... 11

Česky ..... 12

Polski ..... 13

Русский ..... 14

Slovensko ..... 15

Dansk ..... 16

Suomi ..... 17

Svenska ..... 18

Magyar ..... 19

## ENGLISH

### INTRODUCTION

Thank you for choosing Bowers and Wilkins. Please read this manual fully before unpacking and installing the product. It will help you to optimise its performance.

B&W maintains a network of dedicated distributors in over 60 countries who will be able to help you should you have any problems your dealer cannot resolve.

### UNPACKING

(figure 1)

- Fold the carton flaps right back and invert the carton and contents. Lift the carton clear of the contents. Remove the inner packing from the product.
- Check in the carton for:
  - 1 Bookshelf stand
  - 1 Wall bracket

We suggest you retain the packaging for future use.

### POSITIONING

The speaker may be used in either vertical or horizontal orientation. It can be mounted on the stand, bracket or placed on its side.

**NOTE:** The badge on the grille can be rotated through 90 degrees to suite the orientation of the speaker and is held in with a spring. To rotate gently pull the badge away from grille set the orientation and reposition in the grille.

#### Home Theatre

As a front centre speaker position it directly above or below the screen, whichever is closest to ear level. Align the front of the speaker approximately level with the screen.

*As a front left and right speaker:*

Make the height of the centre of the speaker approximately the same as the TV or the centre speaker.

Space the speaker between 0.5m and 1m from the side of the screen.

*As a surround speaker:*

There are two ways of presenting surround information. You can either attempt to get good imaging in all directions or go for a more diffuse ambient effect.

In both cases position the speakers to the sides and behind the listeners. For a more diffuse effect, mount the speakers higher and point them along either the rear or side wall.

#### 2-Channel Audio

(figure 2)

Mount the speakers so that the centre of each speaker is approximately at ear level.

As an initial guide:

- Position the speakers and the centre of the listening area approximately at the corners of an equilateral triangle.
- Keep the speakers at least 1.5m apart to maintain left right separation.

Keep the speaker baffles at least 0.5m clear of walls.

If the central image is poor, try moving the speakers closer together and adjusting the degree of toe-in.

### Stray magnetic fields

The speaker drive units are magnetically shielded such that the stray magnetic field outside the boundaries of the cabinet, except the front, is too low to cause distortion of the television picture in the vast majority of cases.

There are, however, some extremely sensitive televisions – some that even have to be adjusted according to their alignment with the earth's magnetic field. If you have a problem, first degauss the television set with the speaker in place. Some have a button especially for this purpose. If not, switch off the set at the mains for 15 minutes and switch on again. Merely putting the set into standby mode is not sufficient. If you still have a problem, try moving the speaker either forwards or backwards a little to get a more favourable juxtaposition, or space the speaker further from the television until the distortion disappears.

Because of the higher stray magnetic field in front of the speaker, we recommend you keep magnetically sensitive articles (computer discs, audio and video tapes, swipe cards and the like) at least 0.2m from the speaker.

### MOUNTING

Assembling and Fixing the Bracket and bookshelf Stand.

#### Stand

(figures 3 & 4)

The stand can be fitted so the speaker can be positioned either horizontally or vertically, using either of the mounting slots on the rear of the speaker. Determine your choice of orientation and then slide the speaker onto the stand. An Allen key is located in the bottom of the stand, remove the Allen Key to tighten the bolt at the rear of the stand once in position to secure the speaker. Return the Allen key to its position in the base of the stand for future use.

#### Bracket

(figure 5)

Using the bracket, mark the four screw positions on the mounting surface carefully. Offer the bracket to the wall, screw in the two screws used for the top two holes, leaving approximately 5mm (0.2in) of the screw protruding from the wall, screw in the two remaining screws at the bottom of the mounting base, finally tighten the screws. Again the speaker can be fitted so the orientation is either horizontal or vertical, using either of the mounting slots fitted onto the rear of the speaker. Determine your choice of orientation and then slide the speaker onto the bracket.

Take the Allen key from the bottom of the bookshelf stand. The bracket allows the speaker to swivel left and right. This is then locked in place by tightening the bolt that is located at the swivel joint at the top of the bracket. Return the Allen key to its position in the base of the stand for future use.

**WARNING:** YOU SHOULD USE SUFFICIENT QUALITY, SIZE AND NUMBER OF CORROSION PROOF FIXINGS TO AN AREA OF WALL OF SUFFICIENT STRENGTH TO ENSURE THAT THE SPEAKER IS SAFELY SUPPORTED.

### CONNECTIONS

(figure 6)

All connections should be made with the equipment switched off.

Ensure the positive terminal on the speaker (marked + and coloured red) is connected to the positive output terminal of the amplifier and negative (marked – and coloured black) to negative. Incorrect connection can result in poor imaging and loss of bass.

Ask your dealer for advice when choosing cable. Keep the total impedance below maximum recommended in the specification and use a low inductance cable to avoid attenuation of the highest frequencies.

#### Home Theatre

Refer to your decoder manual and set the levels and delay times for all speakers. Check the settings to obtain the best average result at all probable listen positions. Except for special effects, the general level of the surround field should not be too obvious.

Adjust the spacing of the front left and right speakers so that the size of the acoustic image matches the size of the screen.

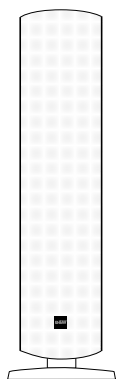
Adjust the toe-in of the front left and right speakers to get a smooth transition of sounds that pan from one side to the other.

Adjust the angle of the surround speakers to give the best results with a variety of material. Use both movies and music videos.

### AFTER CARE

The cabinet surface usually only requires dusting. If you wish to use an aerosol cleaner, spray onto the cleaning cloth, not the cabinet.

Do not attempt to remove the grille, as damage will result.



**VM 1**

**Description** 2-way 4th-order vented-box system

**Drive Units** 1x ø25mm (1 in) high-frequency  
1x ø125mm (5 in) cone bass/mid

**Frequency Range** -6dB at 65Hz and 22kHz

**Frequency Response** 75Hz – 20kHz ±3dB on reference axis

**Dispersion** Within 2dB of reference response  
Horizontal: over 40° arc  
Vertical: over 10° arc

**Sensitivity** 91dB spl (2.83V, 1m)

**Harmonic Distortion** 2nd and 3rd harmonics (90dB, 1m)  
<1% 100Hz – 15kHz

**Nominal Impedance** 8W

**Crossover Frequency** 3.5kHz

**Recommended Amplifier Power** 25W – 100W into 8W on  
unclipped programme

**Max. Recommended Cable Impedance** 0.2W

**Dimensions** Height: 522mm (20.6in)  
Width: 124mm (4.9in)  
Depth: 93mm (3.7in)

**Net Weight** 2.7kg (6lb)



**LISTEN AND YOU'LL SEE**

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B&W Loudspeakers Ltd. reserves the right to amend details of the specification without notice in line with technical developments.

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