



Figure 1

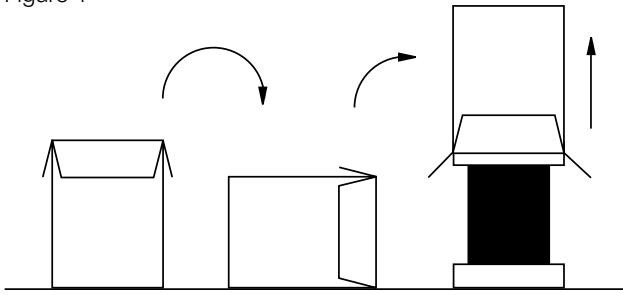


Figure 2

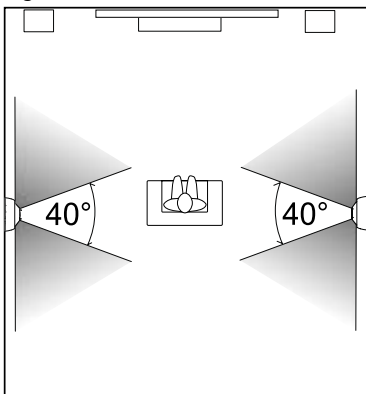


Figure 3

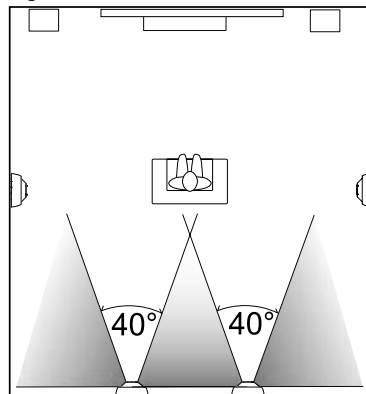


Figure 4

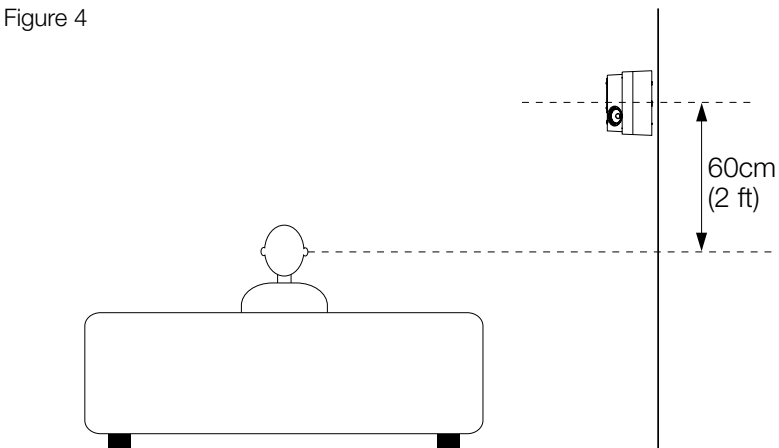


Figure 5

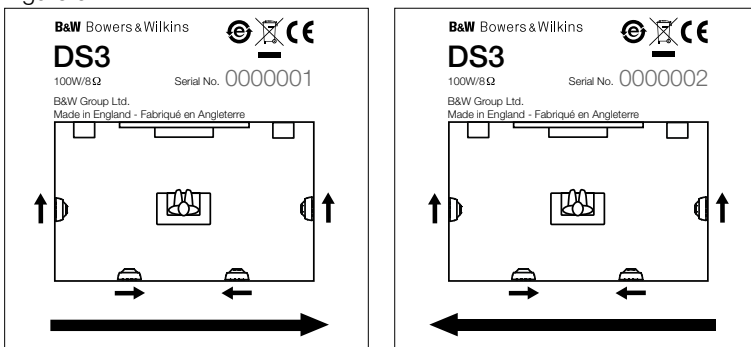


Figure 6

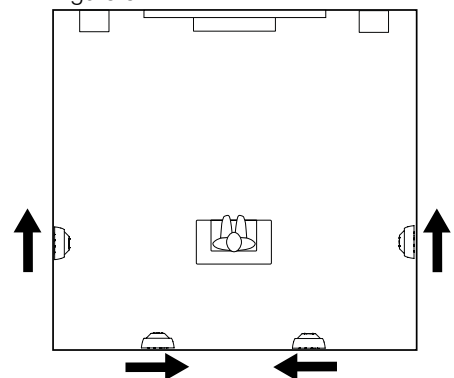


Figure 7

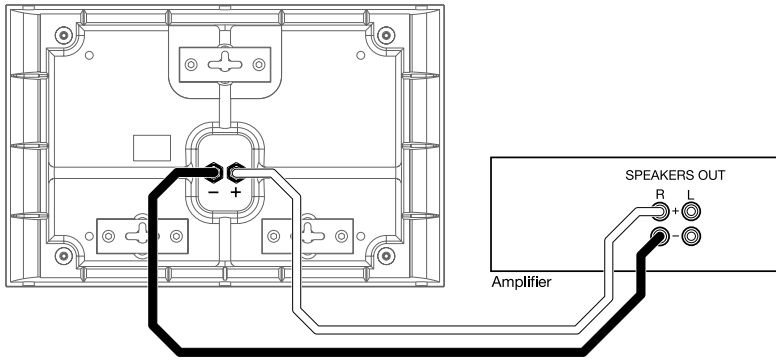


Figure 8

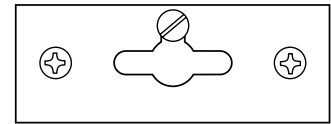


Figure 9

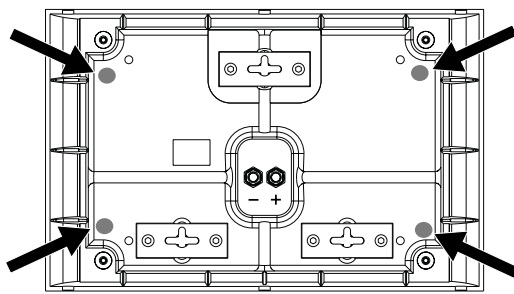


Figure 10

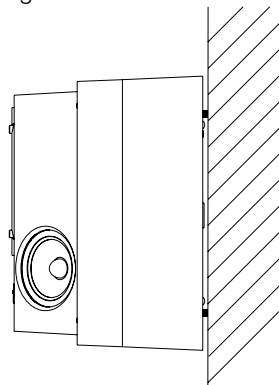
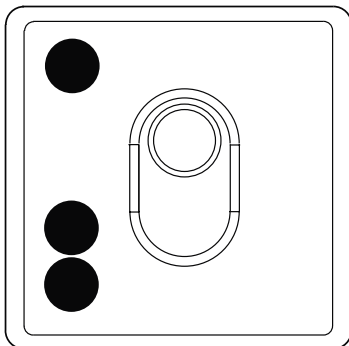


Figure 11



English

Owner's manual

Dear customer,

Thank you for choosing Bowers & Wilkins.

We are confident that you will enjoy many years of listening pleasure from your speakers, but please read this manual fully before installing them. It will help you optimise their 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.

Environmental Information



All B&W products are designed to comply with international directives on the Restriction of Hazardous

Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). These symbols indicate compliance and that the products must be appropriately recycled or processed in accordance with these directives. Consult your local waste disposal authority for guidance.

Unpacking (figure 1)

- Fold the carton flaps right back and invert the carton and contents.
- Lift the carton clear of the contents and remove the inner packaging from the speakers.

We suggest you retain the packing for future use.

Operation

The DS3 is specifically designed as an on-wall surround speaker for multi-channel audio and home theatre installations.

Surround speakers generally fall into two main types – those that one might describe as 'normal' speakers – so-called monopoles, where the sound comes from a set of drive units mounted on the front of the enclosure – and those that give a more diffuse sound field, such as dipoles. Each type has its advantages.

Most multi-channel music is recorded with home entertainment in mind and is monitored using monopole surround speakers, whatever the multi-channel recording format. This enables better location of side and rear images, although the formation of such images is never quite as precise as it is between the front speakers.

Most films are originally balanced for cinemas, where a large number of speakers spread around the auditorium are used to create the surround sound field. In that case there are more surround speakers than there are discrete channels of information and a less precise image is created that gives an all-enveloping effect. Dipoles and similar diffuse speakers are better at recreating this type of sound field in the home, but using fewer speakers to do it. Image positioning with these types of speaker is never as precise as it can be with monopoles.

However, they do have the advantage of making it easier to balance the system for a larger listening area.

You may well receive conflicting advice from different sources on the best type of surround speaker to use. The truth is that there is no one perfect solution for all situations and the final choice for any given application will be influenced by several criteria, some of which may have a degree of conflict. The DS3 has the advantage of offering a choice of both monopole and dipole operation via a switch located on the front baffle, behind the removable grille. You may therefore choose whichever type of operation best suits the conditions of the listening room, the size of audience and the type of programme being played. Indeed, you may even change the characteristic for different types of programme and, as the total energy into the room is the same in both modes, no recalibration of the installation is necessary when switching between them.

In monopole mode, only the two drive units on the front face operate. In dipole mode, the front tweeter is disconnected; the two side firing drivers are brought into operation and the crossover frequency to the bass unit is lowered. The side units are connected out of phase with one another, which creates a wedge-shaped null zone at right angles to the wall. If the listeners sit within this zone, they become less aware of the location of the speakers and hear more reflected sound; hence the diffuse nature of the sound field.

Positioning

Ascertain the optimum position for the speakers before permanently fixing them in place.

In order to successfully enable both modes of operation, the speakers should be placed so that the listeners sit within the null zone of dipole operation.

5.1 format (figure 2)

Place each of the speakers to the side and slightly behind the centre of the listening area.

6.1 and 7.1 formats (figure 3)

We recommend the use of 4 surround speakers, even when using a 6.1 format.

Place the side speakers in line with the centre of the listening area.

Place the rear speakers behind the listening area within the angle limits shown in the diagram.

All formats

The surround speakers will normally be placed approximately 60cm (2 ft) above ear height. (figure 4) Higher positions may be used if necessary.

Although the speaker can theoretically be fitted to the ceiling, it is not recommended unless precautions are taken to prevent the speaker sliding off its mounting. B&W cannot accept any responsibility should the speaker fall from a ceiling mount. If the ceiling has a cavity construction, the in-wall version CDS3 is a better solution.

The speakers are handed in terms of which side the positive and negative dipole lobes are projected. Indication is via an arrow on the label at the back of

the speaker, which points towards the positive lobe. (figure 5)

To optimise the smoothness of sounds panning from the front of the room to the back and vice versa when speakers are used in dipole mode, we recommend that the side speakers have their positive lobes (arrows) pointing towards the front of the room and the rear speakers have their positive lobes (arrows) pointing towards the centre of the rear wall. (figure 6)

Stray magnetic fields

The speaker drive units create stray magnetic fields that extend beyond the boundaries of the cabinet. We recommend you keep magnetically sensitive articles (television and computer screens, computer discs, audio and video tapes, swipe cards and the like) at least 0.5m (20 in) from the speaker. LCD and plasma screens are not affected by magnetic fields.

Connections (figure 7)

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.

The terminals accept 8mm (5/16 in) spades, bared wire ends or round pins up to 5mm (3/16 in) diameter and 4mm banana plugs.

Important safety notice:

In certain countries, notably those in Europe, the use of 4mm banana plugs is considered a potential safety hazard, because they may be inserted into the holes of unshuttered mains supply sockets. In order to comply with European CENELEC safety regulations, the 4mm holes in the ends of the terminals are blocked by plastic pins. Do not remove the pins if you are using the product where these conditions apply.

Always screw the terminal caps down tightly to optimise the connection and prevent rattles.

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

Fixing the speaker in place

The speakers may be fixed to a wall using screws in the range 5mm to 6mm diameter (No.10 to No.12). On the back of the cabinet are three wall plates. The screw head should be inserted into the round part of the aperture and slid fully along one of the slots. (figure 8)

Ensure, especially when fixing to drywall panels, that the screw length and wall plug security are sufficient to hold the weight of the speaker. B&W can accept no liability for any failure of wall or ceiling fixings.

Use the template provided to mark the screw positions. The outside dimensions of the template correspond to the rear of the cabinet.

Stick 4 of the clear self-adhesive rubber pads to the rear panel of each speaker, one close to each of the small bumps in the corners. These stop the speaker vibrating against the surface and help keep it in position. (figure 9)

Adjust the protrusion of the screws such that the rubber pads are a friction slide on the surface when the wall plates are hooked over the screw heads. (figure 10)

Always check and ensure that:

- **All the screws slide right to the ends of the slots in the wall plates.**
- **Screw protrusion is adjusted so that the rubber pads provide enough friction to prevent the speakers sliding out of position.**

The cable may be routed in the grooves in the rear panel.

Shelf mounting is not recommended as the moulded cabinet has a draft taper and will lean forward.

Mode selection (figure 11)

Use the switch on the front baffle to select between monopole and dipole modes. In the ● position, the speaker is monopole and in the ●● position it is dipole.

Experiment to find the settings best suited to your requirements. Typical combinations are:

- All surround speakers monopole
- Side speakers dipole, rear speakers monopole
- All surround speakers dipole

It would be unusual, but not impossible, to set side speakers to monopole and rear speakers to dipole.

Aftercare

The cabinet surfaces usually only require dusting. If you wish to use an aerosol or other cleaner, remove the grille first by gently pulling it away from the cabinet. Spray aerosols onto the cleaning cloth, not directly onto the product. Test a small area first, as some cleaning products may damage some of the surfaces. Avoid products that are abrasive, or contain acid, alkali or anti-bacterial agents. Do not use cleaning agents on the drive units. The grille fabric may be cleaned with a normal clothes brush whilst the grille is detached from the cabinet. Avoid touching the drive units, especially the tweeter, as damage may result.

Limited Warranty

This product has been designed and manufactured to the highest quality standards. However, if something does go wrong with this product, B&W Group Ltd. and its national distributors warrant free of charge labour (exclusion may apply) and replacement parts in any country served by an official B&W distributor.

This limited warranty is valid for a period of five years from the date of purchase or two years for electronics

including amplified loudspeakers.

Terms and Conditions

- 1 The warranty is limited to the repair of the equipment. Neither transportation, nor any other costs, nor any risk for removal, transportation and installation of products is covered by this warranty.
- 2 This warranty is only valid for the original owner. It is not transferable.
- 3 This warranty will not be applicable in cases other than defects in materials and/or workmanship at the time of purchase and will not be applicable:
 - a. for damages caused by incorrect installation, connection or packing,
 - b. for damages caused by any use other than correct use described in the user manual, negligence, modifications, or use of parts that are not made or authorised by B&W,
 - c. for damages caused by faulty or unsuitable ancillary equipment,
 - d. for damages caused by accidents, lightning, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of B&W and its appointed distributors,
 - e. for products whose serial number has been altered, deleted, removed or made illegible,
 - f. if repairs or modifications have been executed by an unauthorised person.
- 4 This guarantee complements any national/regional law obligations of dealers or national distributors and does not affect your statutory rights as a customer.

How to claim repairs under warranty

Should service be required, please follow the following procedure:

- 1 If the equipment is being used in the country of purchase, you should contact the B&W authorised dealer from whom the equipment was purchased.
- 2 If the equipment is being used outside the country of purchase, you should contact the B&W national distributor in the country of residence who will advise where the equipment can be serviced. You can call B&W in the UK or visit our web site to get the contact details of your local distributor.

To validate your warranty, you will need to produce the warranty booklet completed and stamped by your dealer on the date of purchase. Alternatively, you will need the original sales invoice or other proof of ownership and date of purchase.

Français

Manuel d'utilisation

Cher Client,

Nous vous remercions d'avoir choisi Bowers & Wilkins.

Nous sommes convaincus que vous apprécierez l'écoute de vos enceintes acoustiques pendant de nombreuses années. Nous vous invitons, cependant, à lire très attentivement cette notice préalablement à leur installation. Vous en tirerez les enseignements nécessaires à l'optimisation de leurs performances.

B&W entretient un réseau de distributeurs officiels dans plus de 60 pays ; ils sont en mesure de vous aider au cas où vous rencontreriez des difficultés que votre revendeur ne pourrait résoudre.

Information sur la protection de l'environnement



Tous les produits B&W sont conçus en conformité totale avec les nouvelles normes internationales concernant l'interdiction d'utilisation de certaines substances dangereuses (RoHs, pour Restriction of Hazardous Substances) dans les équipements électriques et électroniques, ainsi que la possibilité de recyclage des matériaux utilisés (WEEE, pour Waste Electrical and Electronic Equipment). Le symbole du conteneur à ordures barré par une croix indique la compatibilité avec ces directives, et le fait que les appareils peuvent être correctement recyclés ou traités dans le respect total de ces normes.

Deballage (figure 1)

- Repliez totalement les rabats du carton puis retournez l'emballage avec son contenu.
- Videz le carton de son contenu et sortez l'enceinte de l'emballage interne.

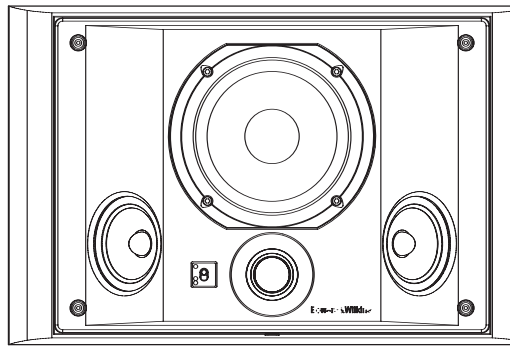
Nous vous suggérons de conserver l'emballage pour une utilisation ultérieure.

Fonctionnement

La DS3 est spécifiquement conçue comme enceinte murale Surround, pour les applications audio multicanal et les installations Home Cinema.

Les enceintes arrière Surround sont généralement de deux types : celles que l'on peut qualifier de "normales", ou monopôles, dont le son est émis à partir d'un jeu de haut-parleurs montés sur un baffle avant traditionnel, et celles conçues pour fournir un son plus large et plus diffus, telles les enceintes dipôles. Chaque type a ses avantages.

La plupart de la musique multicanal est enregistrée en gardant à l'esprit une utilisation grand public, et donc des enceintes classiques à émission par l'avant, quel que soit le format d'enregistrement multicanal. Cela permet une meilleure localisation des images latérale et arrière, la formation de telles images n'étant jamais aussi précise que celle présente entre les enceintes avant.



DS3

| | |
|----------------------------------|--|
| Technical Features | Nautilus™ tweeter Woven Kevlar® brand fibre cone bass/midrange |
| Description | 2-way closed-box selectable dipole/monopole surround system |
| Drive units | 1x ø25mm (1 in) aluminium dome high-frequency 2x ø80mm (3 in) midrange/high frequency 1x ø130mm (5 in) woven Kevlar® cone bass/midrange |
| Frequency range | -6dB at 63Hz and 42kHz (monopole mode) -6dB at 63Hz and 15kHz (dipole mode) |
| Frequency response | 85Hz – 22kHz ±3dB on reference axis (monopole mode) 85Hz – 10kHz ±3dB power averaged over front hemisphere (dipole mode) |
| Dispersion | Monopole mode: within 2dB of reference response Horizontal: over 40° arc Vertical: over 10° arc Dipole mode: horizontal figure of eight Effective null zone ±20° (250Hz – 15kHz) |
| Sensitivity | 89dB spl (2.83V, 1m) |
| Harmonic distortion | 2nd and 3rd harmonics (90dB, 1m) <1% 130Hz – 20kHz |
| Nominal impedance | 8Ω (minimum 3.3Ω) |
| Crossover frequencies | 4kHz (monopole mode) 250Hz (dipole mode) |
| Power handling | 25W – 100W into 8Ω on unclipped programme |
| Max. recommended cable impedance | 0.1Ω |
| Dimensions | Height: 249mm (9.8 in) Width: 380mm (15 in) Depth: 153mm (6 in) |
| Net Weight | 5.2 kg (11.5 lb) |

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