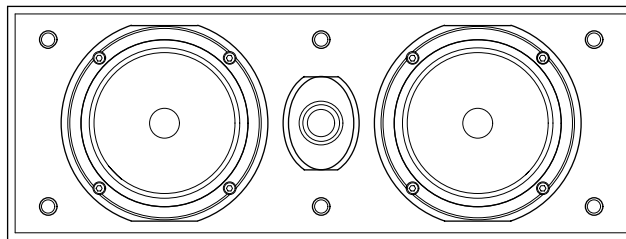


600 Series2

LCR6 S2 Owner's manual



L I S T E N A N D Y O U ' L L S E E

Figure 1

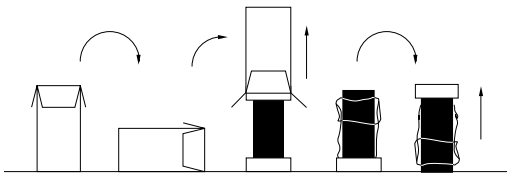
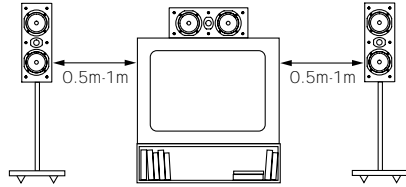


Figure 2a



2b

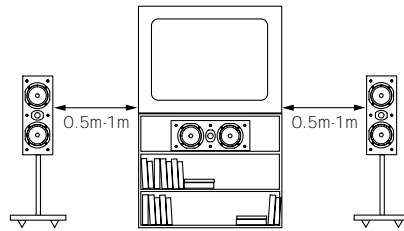


Figure 3

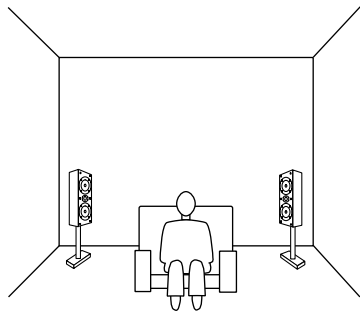
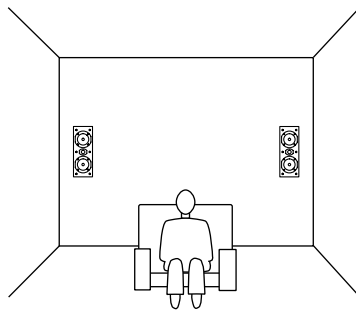


Figure 4a



4b

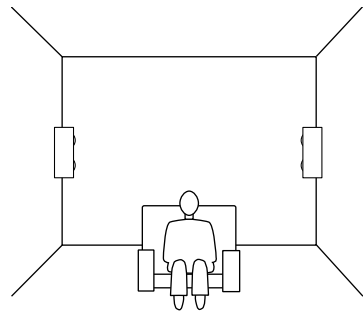


Figure 5

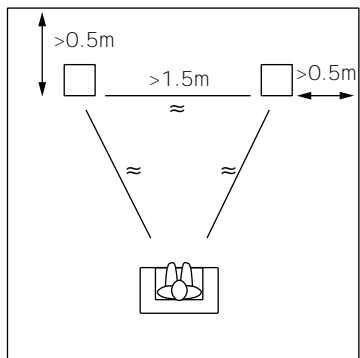


Figure 6

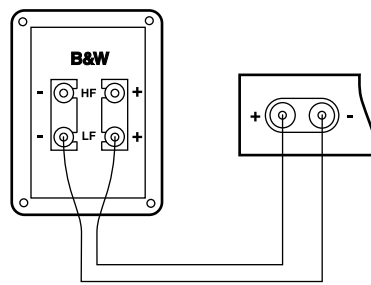


Figure 7

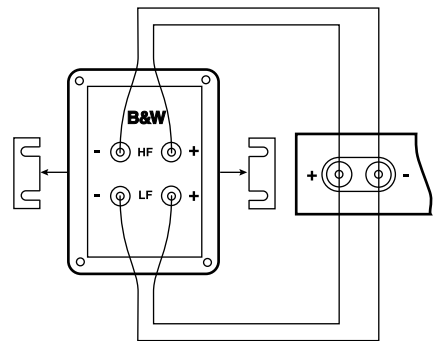
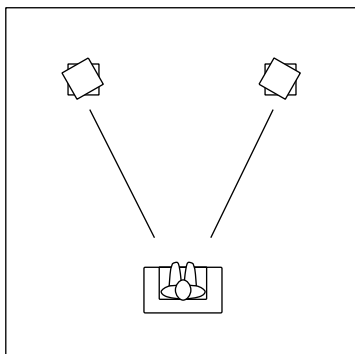


Figure 8



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INTRODUCTION

Thank you for choosing B&W.

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

The speaker is primarily intended for home theatre installations, but is equally at home with 2-channel audio. Separate sections in the manual are devoted to the two applications.

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.

We suggest you retain the packing for future use.

Check in the carton for:

- 4 self-adhesive rubber pads.

POSITIONING

All Applications

The speaker may be used in either vertical or horizontal orientation. However, vertical orientation offers better horizontal dispersion and is to be preferred in most cases as this leads to a more stable image over a wide listening area.

Horizontal orientation can be used with little detriment to the imaging if the speaker is used in the front centre position of a home theatre installation where the listeners are within 15° of the centre line – equivalent to 0.8m at a listening distance of 3m.

The speaker has a reflex port at the rear. Leave at least 10cm clear space between the back of the speaker and the wall behind, to allow the port to operate properly.

Fix the 4 self-adhesive pads to the base of the speaker. They give a degree of vibration isolation, especially useful if placing the speaker directly on top of a fairly flimsy television. The flat area on top of the television may be smaller than the base of the speaker, so position the feet accordingly.

Home Theatre

(figure 2)

As a front centre speaker:

If using a projection television with an acoustically transparent screen, place the speaker behind the centre of the screen. Otherwise 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:

As an initial guide:

- Make the height of the tweeter approximately the same as 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. The choice is made more difficult by the fact that some movies are produced assuming a diffuse surround presentation and others attempt to portray more precise imaging.

In both cases position the speakers to the sides and behind the listeners.

For more precise imaging, mount the speakers at or just above ear height and point them at the listening area. (figure 3)

Do not expect the imaging to the sides and rear to be as precise as at the front. Phantom images between the speakers are fairly easy to create with sustained tones, but fricative or percussive sounds can tend to localise more at the speakers. It is also difficult to get an ideal balance between front and surround speakers for more than one row of listeners.

For a more diffuse effect, mount the speakers higher and point them along either the rear or side wall. (figure 4)

2-Channel Audio

(figure 5)

Mount the speakers so that the tweeters are 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.

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.

CONNECTIONS

All connections should be made with the equipment switched off.

There are 2 pairs of terminals at the back of the speaker which permit bi-wiring if desired. On delivery, the separate pairs are connected together with high-quality links for use with a single 2-core cable. For single cable connection, leave the links in place and use either pair of terminals on the speaker. (figure 6)

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.

To bi-wire, remove the links by loosening the terminal caps and use a separate 2-core cable from the amplifier to each pair of terminals. (figure 7) This can improve the resolution of low-level detail. Observe the correct polarity as before. When bi-wiring, incorrect connection can also impair the frequency response.

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.

FINE TUNING

All Applications

Before fine tuning, double check that all the connections in the installation are correct and secure.

The inertness of the support used can affect the sound quality of the speaker. For best results, mount the speakers on firm dedicated stands. Bookshelf mounting is possible but allows less opportunity for optimising the sound. Ask your dealer for advice on the best type for your needs.

Moving the speakers further from the walls will reduce the general level of bass. Space behind the speakers also helps to create an impression of depth. Conversely, moving the speakers closer to the walls will increase the level of bass.

If the bass is uneven with frequency it is usually due to the excitation of resonance modes in the room. Even small changes in the position of the speakers or the listeners can have a profound effect on how these resonances affect the sound. Try mounting the speakers along a different wall. Even moving large pieces of furniture can have an effect.

If the sound is too harsh, increase the amount of soft furnishing in the room (for example use heavier curtains), or reduce it if the sound is dull and lifeless.

Test for flutter echoes by clapping your hands and listening for rapid repetitions. Reduce them by the use of irregular shaped surfaces such as bookshelves and large pieces of furniture.

Home Theatre

Refer to your decoder manual and set the levels and delay times for all the speakers. Check the settings to obtain the best average result at all probable listening 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.

2-Channel Audio

If the central image is poor, try moving the speakers closer together and adjusting the degree of toe-in. (figure 8)

AFTERCARE

The cabinet surface usually only requires dusting. If you wish to use an aerosol cleaner, remove the grille first by gently pulling it away from the cabinet. Spray onto the cleaning cloth, not directly onto the cabinet. The grille fabric may be cleaned with a normal clothes brush whilst the grille is detached from the cabinet.

Avoid touching the drive unit diaphragms, especially the tweeter, as damage may result.

FRANÇAIS

INTRODUCTION

Nous vous remercions d'avoir choisi B&W.

Veuillez lire attentivement l'ensemble de ce document avant de déballer et de raccorder votre matériel. Il vous aidera à obtenir les meilleurs résultats.

Cette enceinte est initialement destinée à l'utilisation en « Home Cinéma ». Elle peut être employée également dans le cadre d'une installation stéréophonique haute-fidélité à deux canaux. Ce manuel comporte deux parties distinctes, dédiées à chacune de ces applications.

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.

DEBALLAGE

(figure 1)

- Repliez totalement les rabats du carton puis retournez l'emballage avec son contenu.
- Soulevez le carton pour le vider de son contenu.
- Retirez l'emballage intérieur.

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

Vérifiez que le carton contient :

- 4 tampons auto-adhésifs.

POSITIONNEMENT

Règles générales

Cette enceinte peut être utilisée verticalement ou horizontalement. La position verticale présente toutefois de meilleures caractéristiques de rayonnement sur le plan horizontal. Elle doit être préférée dans la majeure partie des cas parce qu'elle délivre une image plus stable à une aire d'écoute beaucoup plus importante.

La position horizontale peut être retenue avec un minimum d'inconvénients lorsque l'enceinte est employée comme voie centrale dans une installation de type « Home Cinéma ». Dans ce cas, les auditeurs doivent se trouver dans un angle ne s'écartant pas de plus de 15° de l'axe central ; ce qui correspond à 80 centimètres pour une distance d'écoute de 3 mètres.

L'enceinte dispose d'un évent d'accord à l'arrière. Laissez un espace disponible d'au moins 10 centimètres entre le dos de l'enceinte et le mur arrière pour permettre au système de fonctionner correctement.

Fixez les 4 tampons auto-adhésifs sous les enceintes. Ils procurent une certaine isolation mécanique surtout lorsque l'enceinte est posée sur le dessus d'un téléviseur peu rigide. Si la face supérieure de celui-ci est moins large que la base de l'enceinte, disposez les tampons en conséquence.

Home Cinéma

(figure 2)

Utilisation comme enceinte centrale :

Si vous utilisez un écran de projection acoustiquement transparent, disposez votre enceinte derrière lui et bien au centre, sinon placez-la directement au-dessous ou au-dessus, la face avant alignée sur l'écran et toujours au plus près de la hauteur des oreilles.

Utilisation comme enceinte principale gauche et droite :

Règles générales :

- Réglez la hauteur du tweeter de façon approximativement identique à celui de l'enceinte centrale.
- Eloignez l'enceinte de 0,5 à 1 mètre du bord de l'écran.

Utilisation comme enceinte d'ambiance :

Il existe deux façons de reproduire les sons d'ambiances. Vous pouvez chercher à obtenir une bonne définition des sons émis à l'arrière ou chercher à obtenir une reproduction plus diffuse, plus proche d'un effet d'ambiance naturel. Choisir définitivement l'une de ces solutions n'est pas très facile par le fait que certains films sont réalisés en privilégiant l'effet d'ambiance quand d'autres privilégient une image plus précise.

Dans tous les cas placez les haut-parleurs sur les côtés et en arrière de la position d'écoute.

Si vous souhaitez obtenir une image précise, placez les enceintes à hauteur d'oreilles ou juste au-dessus et orientez-les vers la zone d'écoute (figure 3).

N'espérez pas obtenir des voies d'ambiances une image aussi précise que celle des voies frontales. Une image virtuelle est plus évidente à reproduire à partir de sons entretenus et prolongés qu'avec des sons percussifs et nets qui auront tendance à se localiser dans les enceintes elles-mêmes. Il est également très difficile de parvenir à l'équilibre idéal entre l'avant et les ambiances pour plus d'une rangée de spectateurs.

Si vous souhaitez obtenir une reproduction plus diffuse et crédible des effets, placez les enceintes nettement plus en hauteur et orientez-les vers les murs du fond et de côté (figure 4).

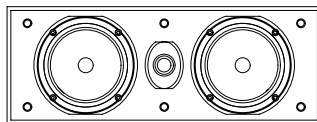
Stéréophonie haute-fidélité à deux canaux

(figure 5)

Installez les enceintes de façon à placer les tweeters approximativement à hauteur d'oreilles.

Règles générales :

- Disposez les enceintes acoustiques ainsi que le centre de la zone d'écoute approximativement aux trois angles d'un triangle équilatéral.
- Ecartez vos enceintes d'au moins 1,5 m pour obtenir une séparation gauche/droite suffisante.
- N'approchez jamais vos enceintes à moins de 0,5 m d'un mur.



LCR6 S2

Description	2½-way 4th-order vented-box system with magnetic shielding
Drive units	1x 165mm (6.5in) woven Kevlar® bass 1x 165mm (6.5in) woven Kevlar® bass/mid 1x 26mm (1in) metal dome high-frequency
Frequency range	-6dB at 48Hz and 30kHz
Frequency response	58Hz – 20kHz ±3dB on reference axis
Dispersion	Within 2dB of response on reference axis Horizontal: over 40° arc Vertical: over 10° arc
Sensitivity	89dB spl (2.83V, 1m)
Harmonic distortion	2nd & 3rd harmonics <1% 70Hz – 20kHz (90dB spl, 1m)
Nominal impedance	8Ω (minimum 6Ω)
Crossover frequencies	300Hz, 4kHz
Power handling	150W continuous into 8Ω on unclipped programme
Max. recommended cable impedance	0.1Ω
Dimensions	Height: 545mm (21.5in) Width: 204mm (8in) Depth: 309mm (12.2in)
Net Weight	13.5kg (30 lb)



L I S T E N A N D Y O U ' L L S E E

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