

User Manual

Loudspeaker

floor standing and bookshelf, passive

Welcome to the wonderful world of music!

We are extremely pleased that you have decided to purchase our new loudspeakers. They combine elements of the highest quality design with our many years of development experience and careful manufacturing. In order for you to enjoy the pure pleasure of sound, there are a few rules to follow. You will find them in these operating instructions.

Please note that if you have additional questions or concerns, we recommend that you first contact the specialist dealer at the store where you purchased the product. If you are interested in additional information about your new product, we recommend the manufacturer's website.

We wish you the pleasure of listening to music.

Table of contents

| | | | |
|---|---|--------------------------------------|---|
| Welcome to the wonderful world of music..... | 2 | Location of columns in the room..... | 5 |
| Warranty..... | 3 | Assembly and Setup..... | 5 |
| Disposal of used equipment..... | 3 | Connections..... | 6 |
| EU Declaration of Conformity..... | 3 | Service..... | 6 |
| Speaker types and applications..... | 4 | Warming up..... | 6 |
| Speakers for stereo..... | 4 | Troubleshooting..... | 6 |
| Loudspeaker columns for home theater systems..... | 4 | Notes..... | 7 |
| Safety Tips..... | 5 | | |

Warranty

The product is covered by the warranty terms and conditions issued by Horn Distribution S.A. in the country of purchase. Please check whether you received a printed warranty card together with the purchased product which describes the terms of warranty. The statutory warranty period for a new product is 2 years; however we kindly ask you to check whether an additional, extended warranty applies to the purchased product model. You will always receive accurate information from the specialist store where you purchased your loudspeakers. You can find more useful information about the product, to which this manual is attached, on the distributor's website at www.horn.eu.

Note: It is the user's responsibility to set up and connect the speakers properly. Neither the manufacturer nor the distributor accepts responsibility for any damage or accident caused by improper setting or connection of the speakers by the user.

Disposal of waste equipment

(used in European Union countries and in other European countries with their own collection systems)



This symbol on the product or its packaging indicates that the product should not be treated as household waste, but should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local government, your waste disposal service or the store where you purchased the product.

EU Declaration of Conformity

Horn Distribution S.A. hereby declares that products imported and distributed by the company come directly from trusted manufacturers and are verified for compliance with the requirements of European Council directives: Directive 2014/30/EU, RoHS Directive (EU)2015/863

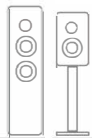
amending Annex II to Directive 2011/65/EU and meet the essential requirements according to these directives. The full text of the manufacturer's EU Declaration of Conformity is available on the distributor's website at: www.horn.eu, directly next to the product description in the Documents section.

Texts of full or abridged declarations of conformity related to specific products are provided by the manufacturers in the original instructions attached to the products.

Types of loudspeakers and their applications

This manual is intended to be universal and may describe a wider range of products than the one you purchased. Below you will find a general description of the different types of speakers that can be used as basic speakers for stereo systems or as components of larger, multi-channel home cinema systems. For practical reasons we recommend reading the manual in its entirety, which may facilitate or inspire further modifications of your audio equipment.

Speakers for stereo systems



Main speakers (usually floor standing or bookshelf speakers with bases)

A general rule of thumb for positioning speakers is that the distance between the speaker and the listener should be one times 1,5 the distance between the speakers. For example, if the speakers are placed 180 cm apart, the best listening position is at a distance of 270 cm. The speaker should be placed about 30 cm from the back wall for ideal sound and soundstage, although you can also move it closer to the wall at a distance of 15 cm.

Home Cinema Speakers

Main Columns

The principle of positioning the speakers is the same as for the stereo, described above.



Center speaker (vocal)

The center channel processes up to 60% of the movie soundtrack, most of which is dialogue. To get the voice-over effect from the actors' mouths, place the center speaker halfway between the main speakers, above or below the TV screen.



Surround/Rear Speakers (Surround Sound)

These speakers should be placed to the side and slightly behind the main listening area. If they are mounted to the wall and at a distance of min. 150 cm from the listening space, they should be hung at a height of about 180 cm. If they are to be placed on stands or on cabinets that stand closer to the listener, then they should be placed at head height.

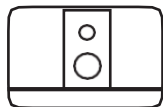


Surround speakers (used as "upper tier" speakers)

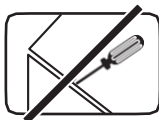
Advanced home cinema receivers and amplifiers often allow the use of additional sound emission channels in home cinema systems offering an amazing listening experience. This can often be accomplished by using small bookshelf speakers or specially angled Atmos speakers.

Safety instructions

Follow safety guidelines when choosing the right location and proper care for your speakers!



Choose a level surface



Do not open the housing



Avoid moisture



Avoid shocks



Keep adequate distance from all heat sources



Protect from extremely low temperatures



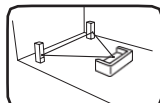
Avoid direct exposure to sunlight



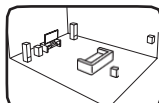
Do not use corrosive, alcohol-based or scouring agents for maintenance

Location of the loudspeakers in the room

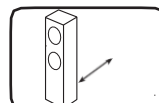
The speakers can be used in stereo mode or as part of a home theater system.



Hi-Fi Stereo



5.1 Home theater system setup



Speaker distance from the wall - more when the bass port of the speaker is at the back of the cabinet



Speaker distance from the wall - may be less when the port bass speaker is on the front of the cabinet

Mounting and setting

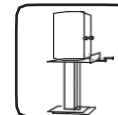
1. Use of feet/spikes

If the speakers are placed on a hard surface, install the supplied self-adhesive rubber feet or spikes (for free standing speakers with threaded holes only) to avoid vibration.



2. Mounting on speaker stands

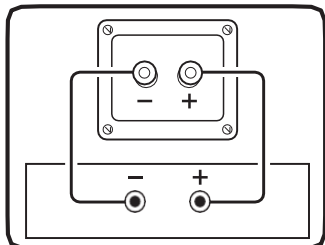
Optional cradle speaker stands are desired for proper listening height



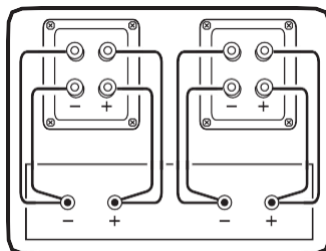
Connections

Ensure that all electrical components are switched off before connecting!

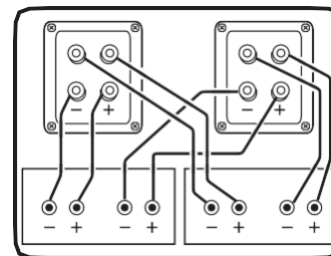
In most loudspeakers, the treble/midrange and bass ranges can be controlled by two separate connecting cables (bi-wiring) or two separate amplifiers (bi-amping). To use bi-wiring or bi-amping mode bi-amping, remove the cable bridges from the connection socket pairs.



Connecting standard



Bi-Wiring



Bi-Amping connection

Support

Caution Clipping (distortion)! Especially with less powerful amplifiers, pay attention to the correct volume, otherwise the speakers may be damaged. If the sound becomes distorted, turn down the volume immediately.

Warm-up

The annealing phase necessary to achieve the best possible sound characteristics: 15-20 operating hours.

- Avoid extremely high sound levels
- It is advisable to listen to a variety of musical material

Troubleshooting

Below is a list of common problems that you can easily handle yourself. If you have additional questions, please contact the specialty store where you purchased your speakers.

| Problem | Possible cause | Solution |
|-----------------------------------|---|---|
| Too weak bass | Connecting cables to wrong poles (+ / -) | Check cables and connect properly if necessary |
| Buzzing in the speaker | Twisted cables. Audio components plugged into different power sockets | Arrange your cables. Use high-quality, shielded signal cables. |
| Speakers play at different levels | Incorrect balance setting on the control device, different level adjustment | Re-adjust the balance, press to adjust the level of both speakers |

Notes



Importer and distributor:

Horn Distribution S.A.

More useful information about the product to which this manual is attached can be found on the distributor's website at

www.horn.eu

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