

**amphion<sup>®</sup>**  
**Helium**  
**Bookshelf**  
**Loudspeaker**



## amphion Helium Bookshelf Loudspeaker Owner's Manual

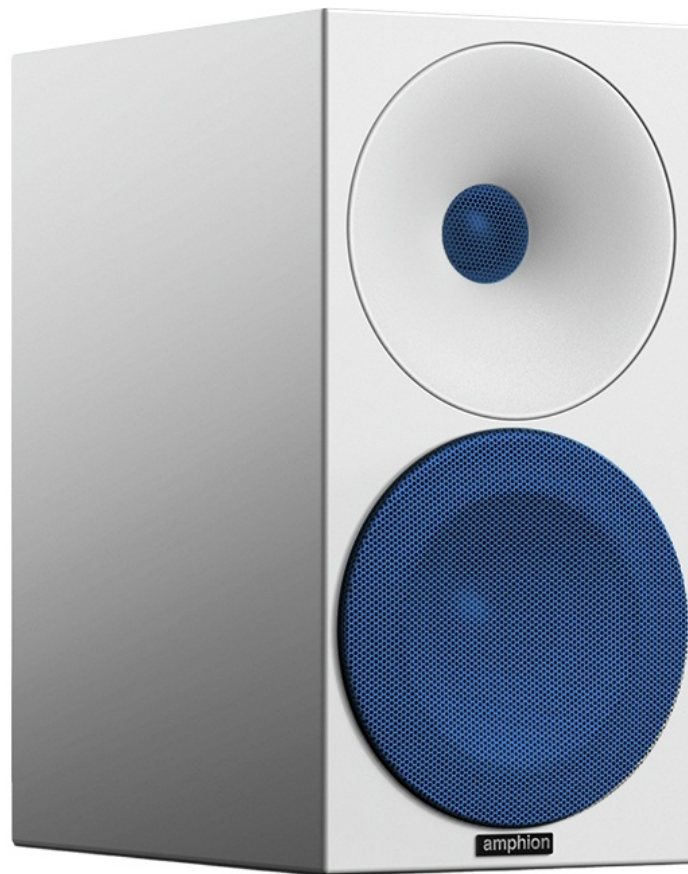
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**Amphion Helium Bookshelf Loudspeaker**



## Specifications

- **Model:** Helium510, Helium520C
- **Available Colors:** Full White, Standard White, Black, Walnut Veneer
- **Grid Color Options:** Stone grey, Beige brown, Turquoise blue, Sky blue, Heather violet, Traffic red, Sulfur yellow, Yellow green, RAL color of choice

## Product Usage Instructions

### Speaker Placement

- The acoustic center-point of the speakers should be positioned between the end of the waveguide and the driver for single-woofer products, or at the tweeter center for two-woofer products.
- To achieve correct stereo imaging, avoid placing the speakers too far apart. Use a vocal track with the singer in the center to adjust the speaker positioning.
- Move the speakers wider apart to create a hole in the middle of the soundstage, then bring them closer until the channels integrate.
- For depth information and optimal sound tuning, aim a direct line from the acoustic center-point to outside your shoulder line and adjust based on your preference.
- Remember that a higher treble is directive and may impact the upper-midrange audio quality.
- If needed, small wedges at the front or back edges of the speaker can help align the acoustic center to the listener's ear for improved sound quality.

### Wall/Ceiling Brackets

- The Helium speakers are compatible with wall and ceiling brackets for versatile mounting options in various applications.
- Ensure proper installation according to the provided guidelines for optimal performance.

## Introduction

### Welcome

- Thank you for choosing Amphion.
- Your new speaker is based on the same advanced acoustical engineering which the world's top sound engineers trust and enjoy daily.
- We have made our products as room-friendly and natural as possible so that you can be touched by the beauty of sound regardless of what you listen to.
- Kindly do not hesitate to get in touch with us or your dealer to get the most out of your investment.
- Timeless design, the best possible materials and the skilled hands of experienced.
- Finnish craftsmen are used to ensure years of daily pleasure.
- Joy is best when shared. Please let us know via email or social media how you or those close to you enjoy your Amphions.
- Now unpack, connect, sit back, and experience them. Enjoy!

### Anssi Hyvönen

- Founder & Managing Director, Amphion Loudspeakers Ltd.

## Warranty and support

### Warranty

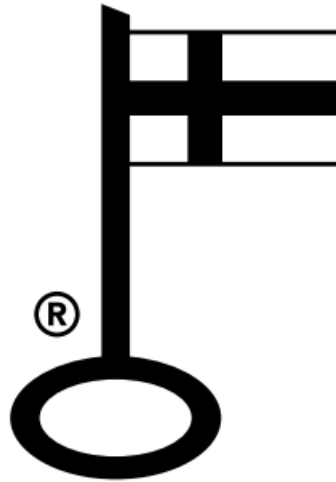
- Amphion Enjoy products come with a five-year warranty against defects in materials and our workmanship. For warranty or out-of-warranty service, in the first instance, please contact your original dealer and provide a copy of the original sales receipt.
- If you require additional assistance, please contact your local country distributor. If you have difficulty making contact with any of the above, please contact our headquarters.
- For proper unpacking, installation, positioning, and maintenance instructions, please first check this manual thoroughly.



- Please do not return/ship any product to Amphion or its resellers without prior authorisation.

### Handmade in Finland

- Amphion Loudspeakers Ltd. is awarded the right to use the Association for Finnish Work's Key Flag Symbol mark of origin.
- This mark is granted to Finland-based organizations that manufacture their products in Finland, having a minimum domestic content of 50 percent.



## Company profile

### About us

- Amphion Loudspeakers Ltd. was established in 1998.
- We design and build loudspeakers that are characterised by high-resolution, unstrained low-level reproduction and pure driver integration. Our affordable solutions are rather insensitive to room acoustics and fill any space with a wide and even dispersion.
- A timeless yet flexible approach with regard to aesthetics and application make Amphion products easy to match with individual styles and preferences.
- All products are handmade in Finland to ensure enduring listening quality.
- Follow us, [amphion.fi](https://amphion.fi)
- **Social media**
- [www.facebook.com/AmphionLoudspeakers](https://www.facebook.com/AmphionLoudspeakers)
- [twitter.com/amphion\\_fi](https://twitter.com/amphion_fi)
- [www.youtube.com/user/AmphionLoudspeakers](https://www.youtube.com/user/AmphionLoudspeakers)
- [www.instagram.com/amphion\\_loudspeakers](https://www.instagram.com/amphion_loudspeakers)

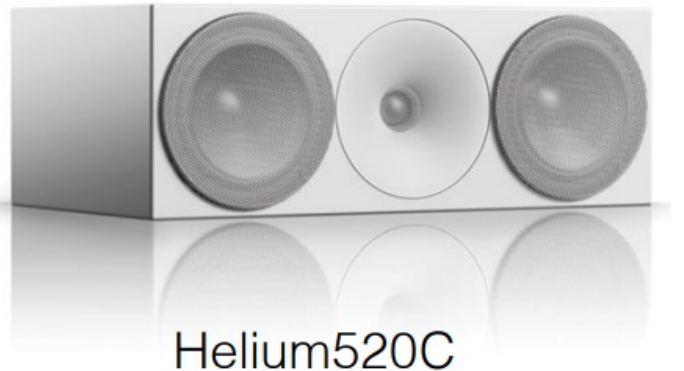
## Helium

### Story Superb sound in any space

- Helium is your first step on the road to a truly rewarding audio experience. Whether you're listening to music, using streaming services, or watching a movie with family or friends, the clear, natural sound quality brings it all to life.
- Regardless of where a Helium speaker is placed in the room, its controlled dispersion delivers pleasing, neutral audio – even at low volumes.



Helium510



Helium520C

- Helium speakers are available in Full White, Standard White, Black and Walnut veneer.
- Grids are available in the RAL colours of your choice.

#### Monochrome

#### Colour grid options



Full white



White with black grids



Standard white



Black



Stone grey



Beige brown



Turquoise blue



Sky blue



Heather violet



Traffic red



Sulfur yellow

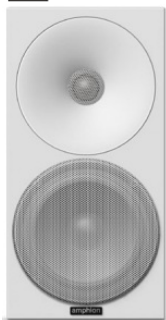


Yellow green

#### Wood veneers



Walnut



## Speaker placement

### • Acoustic centre-point of the speakers

- This is either between the end of the waveguide and driver (single-woofer product) or tweeter centre (two-woofer product).

### • Phantom Centre

- For correct stereo imaging, do not place speakers too far apart. Use a vocal track where the singer is in the centre. Move speakers wider apart to hear the “hole” developing in the middle of the soundstage, then move them closer until channels integrate.

### • 3D | Depth Information

- Start by aiming a direct line from the acoustic centre-point to outside your shoulder line. Then, “fine-tune” the sound to your liking. Note that the highest treble is always directive.

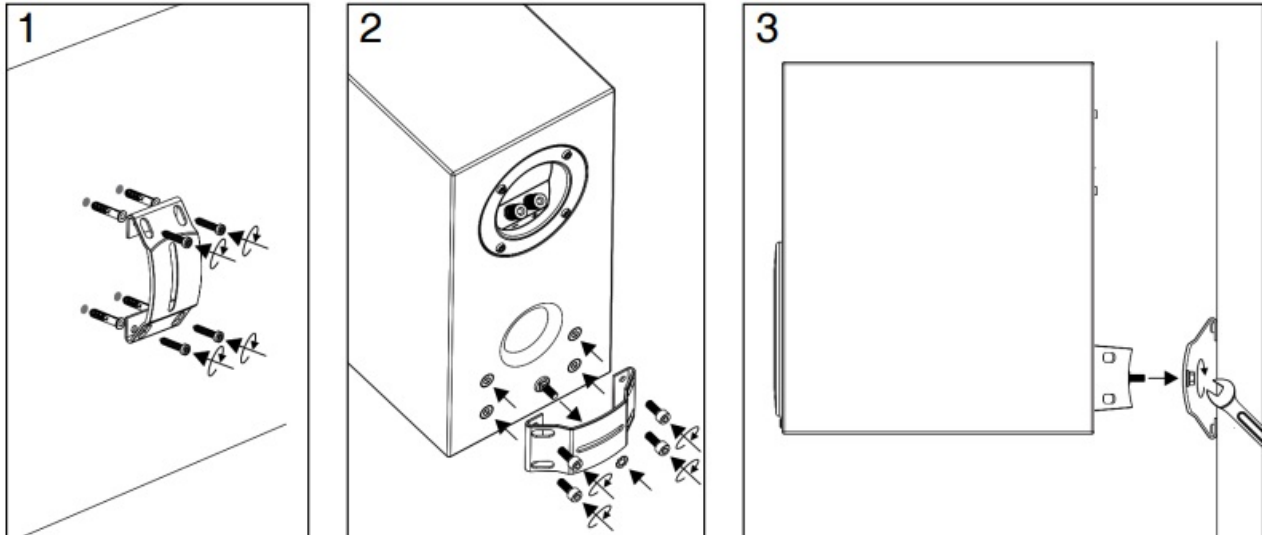
- Adding higher treble may smooth the audio in the upper-midrange.

- **Tilting – If Needed**

- Small wedges at either the front or back edges of the speaker help to align/aim the acoustic centre to the listener's ear. It is not overly critical but helps achieve the required sound.

## Wall/Ceiling brackets

For Amphion Loudspeakers Ceiling and Wall applications.



## Technologies

### What is a Waveguide?

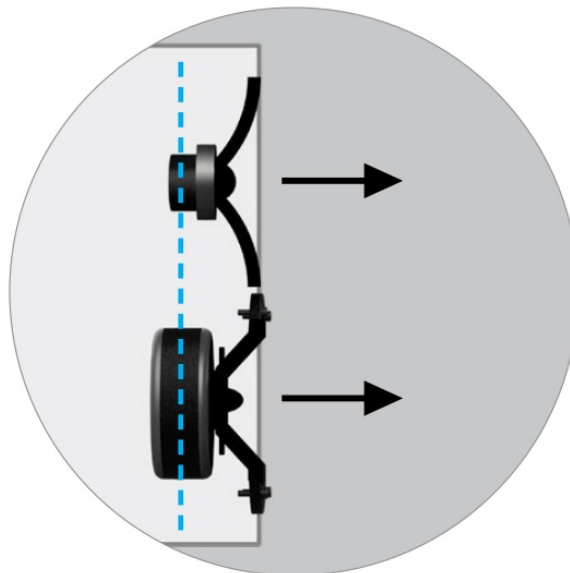
- **Waveguide:** A generic term to describe a structure that directs sound waves, with minimal loss of energy, by restricting their expansion to one or two dimensions.
- It helps create a wide, even sweet spot – though the highest treble is always directive.
- It solves cabinet diffraction issues, aligns drivers, and makes dispersion-patterns between drivers more even across a wide frequency-band.
- **Amphion's proprietary waveguide:** Amphion is a frontrunner in waveguide technology and is widely recognised for its use of tweeter waveguides in front of the driver to control directionality – incorporating a technology called U/D/D (Uniformly Directive Diffusion).
- **Perfecting driver integration:** The result is purer, more natural sound that is less interrupted by room acoustics, and helps speakers deliver clarity and naturalness – even when placed close to boundaries eg.

walls, bookshelves, desktops, or highly-reflective surfaces. It creates a large, broad sweet spot suitable for busy modern living, where one cannot always sit in the sweet spot.



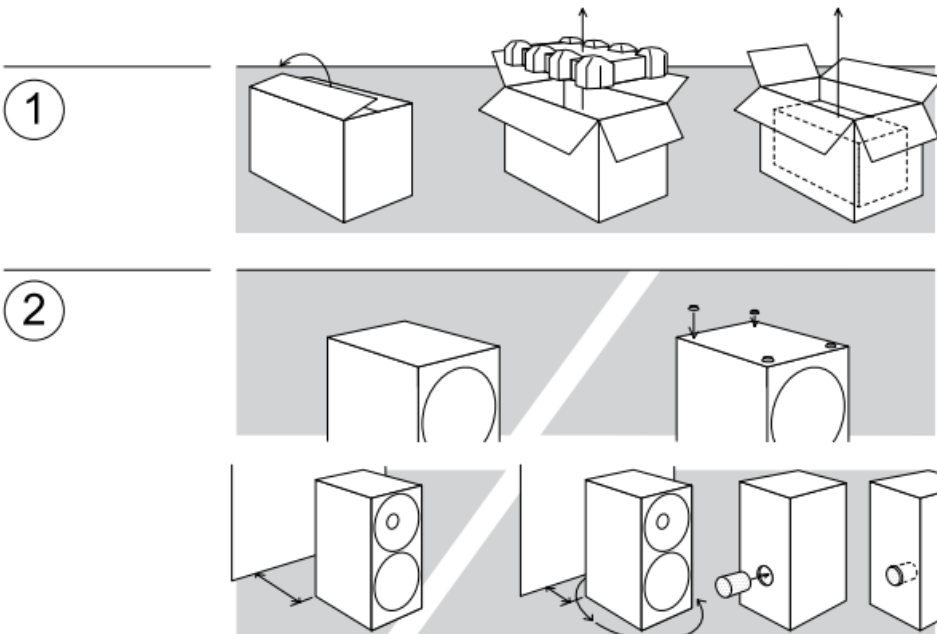
### **Time-adjusted drivers**

- All products use time-adjusted drivers and a 1600 Hz tweeter crossover.
- This leads to point-source-like behavior and seamless driver integration.
- Rock-solid “phantom” centre, lifelike 3D imaging, and an extremely wide and deep sweet spot are characteristic of all Amphion products.

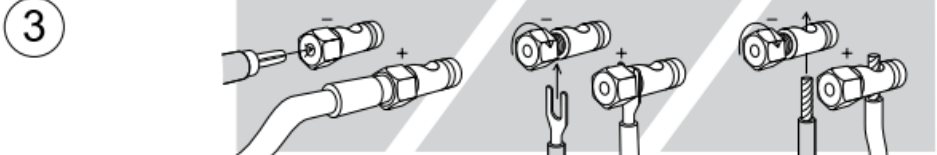


### **Instructions**

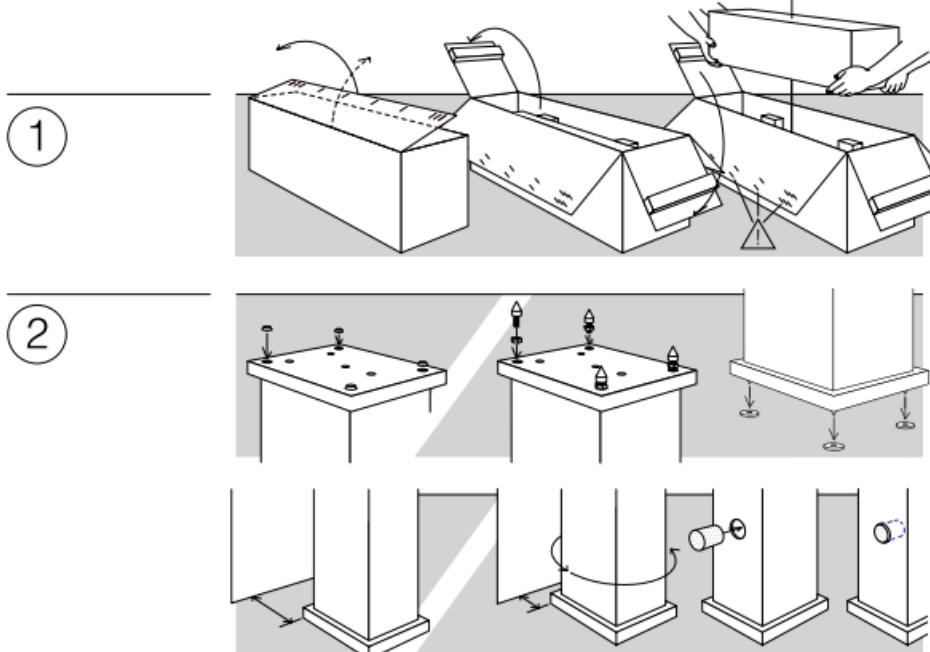
Unpacking



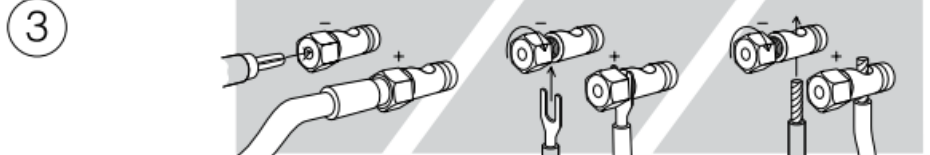
Connecting



Unpacking



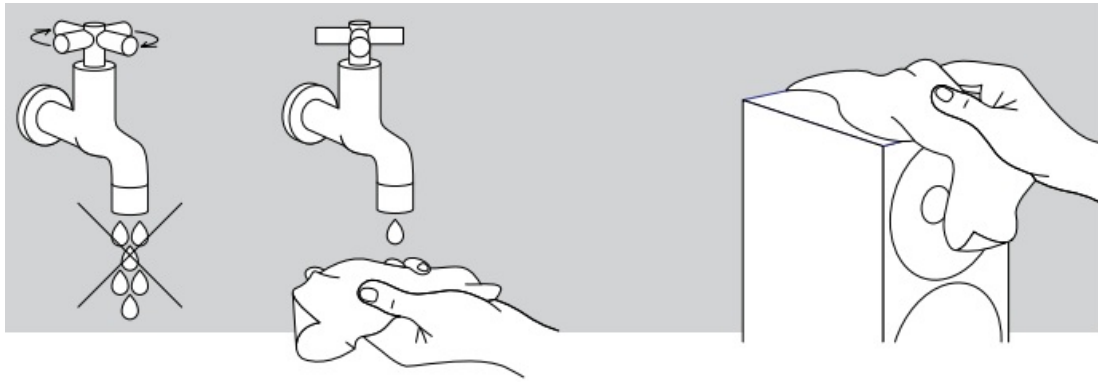
Connecting



Care

Cleaning














- When setting or repositioning speakers, wear soft cotton gloves.
- To clean it, use a soft cotton or microfiber cloth. Do not use excess rubbing force.
- Use water or CIF Multi-surface Window Cleaner (e.g. JIF, HANDY ANDY, VIM, VISS).
- Spray cleaner onto the cloth first, rather than directly onto the cabinet.
- Test-clean a small area on the back or under the cabinet to check the surface reaction.
- When cleaning the walnut finish, wipe in the direction of the wood grain.

### Individual support

- Typically, a wide variety of factors influence loudspeakers' performance. Please contact your local Amphion dealer or sales representative for specification, connectivity and positioning recommendations for your specific system.
- For more information, you can also be in touch with Amphion headquarters.

### Loudspeaker grids

#### Colour grid options

-  Stone grey
-  Beige brown
-  Turquoise blue
-  Sky blue
-  Heather violet
-  Traffic red
-  Sulfur yellow
-  Yellow green
-  RAL colour of choice (POA)




- Amphion loudspeakers come with grids of your colour of choice.
- Do you want to change the looks later on?
- Just pick another colour and replace the grids.



## Performance

- **Crossover point** 1600 Hz
- **Impedance** 8  $\Omega$
- **Sensitivity** 86 dB
- **Frequency response** 48 – 25.000 Hz -6dB
- **Power recommendation** 20 – 100 W

## Variations

- Monochrome 
- Wood veneer 
- Colour grids 

## Helium520C






## Physics

- Operating principle: Two-way, vented
- Tweeter 1" titanium tweeter
- Mid /Woofer 2 x 5 1/4" paper woofer
- Measurements 510 x 160 x 265 mm
- Weight 9 kg (20 lbs)

## Performance

- **Crossover point** 1600 Hz
- **Impedance** 4  $\Omega$
- **Sensitivity** 90 dB
- **Frequency response** 48 – 25.000 Hz -6dB
- **Power recommendation** 10 – 150 W

## Variations

- Monochrome 
- Wood veneer 
- Colour grids 



## Customer Service

- **Amphion Loudspeakers Ltd.**
- **Telkkistentie 2**
- **70460 Kuopio**
- **Finland**
- **+358172882100**
- [info@amphion.fi](mailto:info@amphion.fi)
- [amphion.fi](http://amphion.fi)
- **AE/RMKR/INEN/0122**


## FAQ

- **Q: How do I select the grid color for my Helium speaker?**
  - **A:** Helium speakers offer a range of grid color options, including stone grey, beige brown, turquoise blue, sky blue, heather violet, traffic red, sulfur yellow, yellow green, and the option for a custom RAL color.
  - You can choose the grid color that best suits your preference and room decor.
- **Q: What is the recommended distance between Helium speakers for optimal stereo imaging?**
  - **A:** To achieve correct stereo imaging, avoid placing the Helium speakers too far apart. Use a vocal track with a centered singer to adjust the speaker positioning.
  - Move the speakers wider apart to create a hole in the middle of the soundstage, then bring them closer until the channels integrate for an immersive listening experience.

## Documents / Resources

  Helium	<a href="#">amphion Helium Bookshelf Loudspeaker</a> [pdf] Owner's Manual Helium, Helium Bookshelf Loudspeaker, Bookshelf Loudspeaker, Loudspeaker
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## References

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