

A5 Immersive Height Module OWNER'S MANUAL

Congratulations!

You're moments away from experiencing your new A5 Atmos speakers. We're honored that you chose Aperion Audio to bring your music and movies to life!

Feel free to contact us if we can answer any questions or provide you with setup advice. Above all, enjoy!

- Aperion Audio Team

Safety instructions

Switch off your amplifier before connecting your new speakers. Make sure that the speaker cables are tightened and have a strong connection to the speaker terminal and amplifier terminal.

Listening to high sound pressure levels over a longer period of time may harm your hearing. To avoid hearing loss, do not listen to high sound levels over a prolonged period of time.

Quick Setup

The initial set-up of your Novus loudspeaker is relatively easy. Please take your time reading the guidelines and more detailed instructions on the following pages of this manual after completing the first four steps below.

- 1. Unpacking.** Carefully remove the loudspeaker from the packaging and position it with its underside on the floor. Do not use any sharp objects for the unpacking since they may scratch the speakers. We strongly recommend that you keep the box and packaging materials for future use.
- 2. Positioning.** Place the loudspeaker facing the listening area at its desired position in the room.
- 3. Connecting.** While the amplifier is switched off, connect each loudspeaker to the amplifier with the speaker cable. Turn the volume level all the way down and power the amplifier on.
- 4. Listening.** The loudspeaker is now ready to play. Optimal performance will only be realized after careful positioning and running the speakers as described over the course of the following pages. Enjoy your new Aperion Audio loudspeakers!

Feel free to contact the Aperion gurus with any further questions or for additional assistance.

Product information

Productfeature

- The Aperion A5 Immersive Height Module can be placed on top of your front left and right speakers, be mounted on the wall in front and behind, or mounted directly on the ceiling.
- If using the Aperion A5 on top of your existing speakers, the driver is directed in way that the sound will bounce of the ceiling to the listening position, creating an illusion of a ceiling mounted speakers.
- Designed as a versatile speaker, it is intended to be used for stereo, surround or as a height channel.
- There are mounting points on both sides and underneath to allow for a wide variety of positioning options.
- One 5.25" Aluminum cone woofer.
- One 25mm soft dome coaxial mounted tweeter .

Grille and Logo

The cloth grille has a magnetized mounting system to have the flexibility of a subtle look with the driver covered or a technical look where the drivers are showing with invisible grill mounts.

You can rotate the logo to match whether the speaker is mounted vertically or horizontally.



Package contents

- | | |
|----------------|-----|
| - A5 Speaker | (2) |
| - Grille | (2) |
| - Rubber pads | (8) |
| - Gloves | (1) |
| - Polish Cloth | (1) |
| - Manual | (1) |

Cable

When installing your new loudspeakers you should use speaker cables that are a minimum of 2.5mm² or 14 AWG. It is possible to use a banana plug or fork/spade as connectors, or simply bare wire. Keep in mind that if you use the loudspeakers as surrounds or as back channels, larger gauge cable may be necessary because the signal path is longer. Keep the length of cables as short as possible.

Placement

These loudspeakers cover a broad range of frequencies and have unique dispersion characteristics that will ease setup in achieving an excellent sounding system. With that said, please keep in mind that loudspeaker placement will influence the frequency response, sound stage and imaging as the room has a significant impact on the sound. Placing the loudspeakers in the wrong location may degrade sound quality, frequency response and substantially reducing your overall listening pleasure. Many rooms often end up with non-optimal placement, depending on the size and location of the furnishings within your room. Finding the optimal location usually requires some experimentation to determine what sound best in your room, from your listening position(s). We suggest you read the general guidelines below and place the loudspeakers in one of the suggested locations. We also recommend keeping the speaker's distance to the listening position as similar as possible for all channels, then as a fine tune, use your AV Receiver/pre to adjust delays of each channel individually.

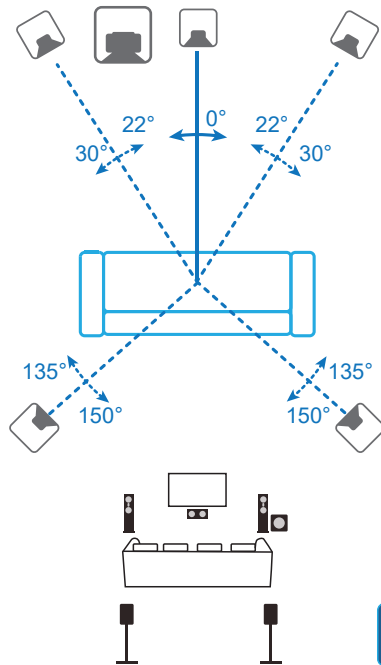
Proceed to listen to the loudspeakers multiple times, trying a few different locations before settling on the final location. To do this, perform basic setup and listen to a familiar music track or movie scene. Then move the loudspeakers to an alternate location & repeat listening to the same music track or moviescene. If you have a test CD and SPL meter, performing a basic frequency response test can help you determine which location provides the best frequency response.

General

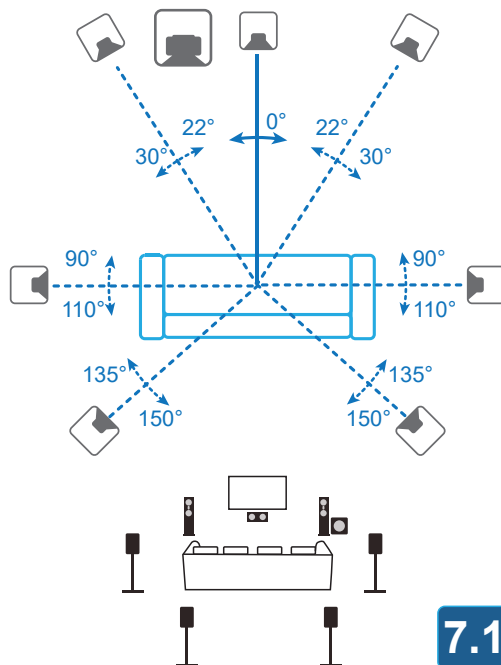
guidelines

The A5's are intended to be used for stereo, surround or as height channel on the front left and right speakers, on the wall or on the ceiling. With the A5 used as a surround speaker, the tweeter should be placed at ear height and the speakers directed towards the listening position, as the figures below shows. When used as height channels we recommend to optimize the experience by placing speaker where you want the sound to come from. E.g. Height channels mounted in the ceiling directed toward the listening area. The speakers can be mounted on the wall or on the ceiling.

Our recommendation for home cinema is to use them with a dedicated subwoofer to properly handle the lowest frequencies and improve the overall dynamic range. If your choice is a five channel (5.1) setup you can experiment with the placement for your surround channel speakers as shown in the figure to the left. If your choice is a seven channel (7.1) setup you can experiment with the placement for your surround and back channel speakers as shown in the figure to the right. If the listening position is against the back wall our recommendation is to go for five channel setup with the speakers placed beside the listening position as the figure to the left shows or mounted on the back wall with the speakers tilted in towards the listening position.



5.1 5 Speakers
1 Subwoofer



7.1 7 Speakers
1 Subwoofer

Caution

- Do not place the loudspeaker next to heat sources, such as furnace registers, radiators, etc.
- Do not place the loudspeaker near sources of excessive moisture, such as evaporative coolers, humidifiers, etc.

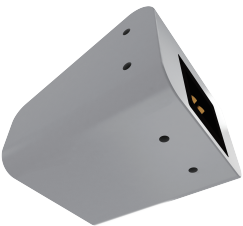
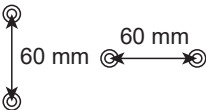
Connecting

Connect the same wire of the cable from + on the amplifier to + on the speaker and - on the amplifier to - on the speaker. If you mix them you will introduce a polarity change resulting in degraded sound quality.

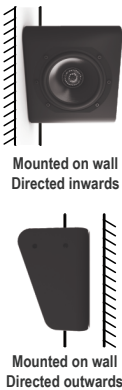


Mounting

The A5 has three sets of threaded inserts to attach the mounting bracket of your choice, all with a distance of 60 mm (2.36"). This spacing is widely compatible with most mounting brackets. The A5 speaker comes with 4 rubber pads intended for protection and mechanical isolation from the mounting surface.



The picture to the left shows the A5 mounted on top of a tower speaker.



Examples of mounting possibilities for the Aperion A5 speaker :

On top of the front speakers to reflect of the ceiling, mounted directly on the ceiling, or mounted directly on the wall.

Calibration

For optimal performance, you should calibrate your system to ensure proper level matching between all speakers and the proper setting of all controls (including crossover frequency, phase, and any channel delays your receiver/processor may offer). This procedure will vary depending on system configuration and the information below is provided as a basic guide to assist you. Refer to the owner's manual for your receiver/processor for information on performing the steps required to enter their setup mode and adjust any applicable settings.

Caution

After all connections have been made, turn on the AC power to your system, starting with the first piece of source equipment in the signal chain (such as a blu-ray player or streaming device), then power on any dedicated equalizer, then power on your receiver/processor/amplifier(s), and last but not least, power on the subwoofer. You will need to enter your receiver/processor's setup mode and adjust any applicable speaker settings to properly match your system configuration

After you have verified all speakers are connected and you have measured distances of each to the listening position, perform the auto-setup routine on your receiver/processor (if available). Many newer theater receivers/processors combine a measurement microphone and an automated setup routine to assist you with proper setting of speaker levels, crossover frequency, speaker delay and phase. Consult the owner's manual for your receiver/processor for further instructions on how to perform the setup routine. After the auto-setup routine is complete, verify the final settings the receiver/processor selected to ensure there are no erroneous settings (e.g. the settings should match your system configuration). Some settings to verify may include:

- Number of speakers (e.g. 7.1 or 5.1 system, etc.)
- Type/size of speakers (e.g. small or large front/surround and subwoofer set to yes/on)
- Crossover point should be similar for identical speakers (e.g. if your system using 3 of the same speakers for all front channels, verify the receiver/processor selected the same crossover point for all these channels)
- Crossover frequency should be selected. We recommend 80Hz for the A5. Slightly higher or lower crossover point may yield better results in your system.
- Note: some receivers do not have an adjustable frequency, instead there is only a choice of "small" or "large". In this case, we recommend choosing "small".
- Gain settings for each channel should be reasonably close (e.g. if the speakers are placed at even distances, the gain setting for each channel should typically be within a couple dB from channel to channel). If the receiver/processor gain trim setting for the subwoofer channel is a large value (e.g.+12 or -12dB) you may need to increase the subwoofer's gain to achieve a better match.
- Low subwoofer gain/trim settings (on your receiver/processor) effect the operation of the "AUTO ON/OFF" signal sensing circuit. If your receiver/processor gain is set to a low value (e.g. attenuating the signal -6dB or more) this reduces the signal available to properly "turn on" the subwoofer when using the "AUTO ON/OFF" feature. If your subwoofer turns off unexpectedly when watching movies at low volumes, you may wish to increase the receiver's/processor's subwoofer gain trim, and manually reduce

Receiver/Processor With Automated Setup & Calibration Function

- the volume using the subwoofer's "BASS LEVEL" control to maintain proper balance.
- Polarity/phase; This should be adjusted for smoothest frequency response near the crossover point.
- EQ settings; if your receiver/processor allows you to see the eq settings for each channel, verify that it is not adding any extra "limiter", or "HPF" to the subwoofer channel, and that it is not adding a high level of boost (e.g. >+3dB) or cut (e.g. -10db).

NOTE:

In some installations, automated room eq algorithms may make undesired changes to the subwoofer signal settings trying to obtain what they believe is the best room response curve. In some systems these changes have been known to degrade the overall sound quality of the subwoofer. If using a receiver/processor with automated room eq function, we advise you listen to the system first with the eq disabled, then again with the eq enabled, to determine if the changes are beneficial.

Care of your speaker

Your new speakers do not require any regular maintenance or calibration. Normal dusting or cleaning of the surface for appearance purposes is all that is required.

Cabinet and baffle

Avoid using harsh detergents or chemicals when cleaning the cabinet. Abrasives, detergents, or cleaning solutions may damage the finish on the cabinet. We recommend using only a damp cloth or automotive grade "quick detailer" designed for painted surfaces, plastic & metal trim, to clean the cabinet.

Grille

The cloth grill may be carefully cleaned using a vacuum. Animal hair can be removed using masking tape or similar. Avoid using brushes with stiff bristles that may damage the grill cloth.

Woofer/Tweeter

DO NOT use liquids, brushes or a vacuum to clean the drive units. Avoid touching the tweeter dome as this could result in permanent damage.

Troubleshooting and service

If you should experience a problem with the operation of your speaker, here is a quick trouble shooting guide to help:

Problem: Speaker has no output

- Check to insure the speaker wire is connected securely at both the amp and speaker connections
- Make sure the binding posts are snug
- If only using 1 set of wires (no bi-wire), make sure the gold plated jumpers are properly connecting HF to LF for both + and - connections. The binding posts should be snug to the jumper.
- Verify the source is working (try connecting to a speaker you know is working)
- In some cases the source material may not play all 5.1 or 7.1 speakers all of the time (i.e., 2 channel stereo will not have any output at the center channel)

Problem: Speaker has weak bass or image is poor	- Check to insure the speaker wire is connected with correct polarity (+ to +, - to -) - If only using 1 set of wires (no bi-wire), make sure the gold plated jumpers are properly connecting HF to LF for both + and - connections. The binding posts should be snug to the jumper.
Problem: Intermittent Sound	- Check for loose, frayed or shorted speaker wire. It is possible for frayed wire to touch the other terminal creating a short or intermittent short. - Make sure the binding posts and jumpers are snug
Problem: Sound coming from woofer or tweeter only	- Both HF and LF inputs must be connected. Typically, you will use the included jumpers for this. If you are Bi-wiring, check that all wires are connected securely at both the amp and speaker connections. - If only using 1 set of wires (no bi-wire), make sure the gold plated jumpers are properly connecting HF to LF for both + and - connections. The binding posts should be snug to the jumper. - Make sure the binding posts are snug
The following conditions require service by qualified technician:	- The unit has been exposed to excessive liquid. - The speaker sounds abnormal and there is a "burned" smell. - You dropped the speaker and you hear something is loose inside. In this case if you use it, you risk damaging the amplifier. - Part of the cabinet, drivers, or electronics have been physically damaged.

Technical specifications

Construction type	2-way, coaxial driver
Enclosure	Sealed
Frequency range	90-30,000 Hz
Crossover point	3 kHz
Sensitivity	87 dB
Impedance	6 Ohms
Power handling	20-100W
Terminals	5-way Gold-plated binding posts
Color	Stealth Black and Pure White
Dimensions	5.1" x 7.1" x 7.9" / 146mm x 180mm x 200mm (HxWxD)
Weight	7.5 lbs / 3.5 Kg each

Specifications subject to change without notice.

Service & support

"Do It Yourself" - Service

We allow a "do-it-yourself" approach on all Aperion products. If you are able to find out what part of the loudspeaker is defective, you are fully allowed to unmount that part (which would normally be a driver, a filter or the amplifier) and send it back to us for exchange.

IMPORTANT!

Always contact your dealer or us before taking the loudspeaker apart. It can also help you in locating the issue. You can of course always choose to return the whole loudspeaker; therefore you should save the original package.

To aid service, Aperion products are constructed and produced using common technology, so that basically most people are able to "unscrew" the loudspeaker using common tools.

If something is broken

If you cause additional defects by yourself when unmount the defective part, the warranty still applies if it is obvious that the part had a manufacturing defect. In other cases however, the warranty does not apply if you cause other defects on the loudspeaker.

Where to send the product for a warranty repair

For questions regarding service, contact us by email: customerservice@aperionaudio.com
Website: www.aperionaudio.com

ALWAYS pack the product / part very carefully. Unfortunately damages during transportation are very common. If the speaker is poorly packed, the shipping company will not compensate damages. Always enclose a copy of the receipt and a description of the defect.

Support

If you have any question, comments, or concerns, please don't hesitate to contact any of our home theater gurus at 888.880.8992 or through a live chat via our website at www.aperionaudio.com, or we'll be happy to help you out with anything and everything you need.

Thank you for your purchase!

Contact Us

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Aperion Audio
www.aperionaudio.com
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Express Limited Warranty

Aperion Audio provides a transferable limited warranty of 5 years on all cabinets and 5 years on drivers for Novus speakers.

These warranties cover all defects in material and workmanship with the following specific exceptions:

- Damage caused by improper installation or adjustment
 - Damage caused by accident, unreasonable use, or neglect
 - Damage caused by an act of God
 - Damage from failure to follow instructions contained in the Owner's manual
 - Damage from repairs performed by someone not authorized by Aperion Audio
 - Any unit on which the serial number has been effaced, modified, or removed
 - Damage occurring during shipment, other than that arranged by Aperion Audio
- Units which have been altered or modified in design, appearance or construction

This warranty covers only the actual defects within the products themselves. IT DOES NOT cover costs of in-stallation in (or removal from) a fixed installation, or normal set-up, claims based on any misrepresentation by the seller, or performance variations resulting from installation related circumstances such as signal quality, AC power or incompatibilities with other system components.

During the warranty period, Aperion Audio will, at its option, either repair the defect, or replace the defective product, or the defective parts, or components thereof with the then current product/ component in use by Aperion Audio, at no charge to the owner for parts and labor covered by this warranty. If necessary repairs are not covered by this warranty, or if a unit is examined which is not in need of repair, you will be charged for the repairs and/or the examination.

If non-warranted repairs are needed, we will notify you of the estimated cost and ask for your authorization to perform said repairs. You must pay shipping charges incurred in getting your product to and from Aperion Audio.

Please save the original shipping cartons, as the unit **MUST** be returned in the original carton and packing.



www.aperionaudio.com

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