



Alta Audio
Hestia Titanium



Owner's Manual



Congratulations

Congratulations on your purchase of the **Alta Audio Hestia Titanium** speakers. Your purchase indicates you are a listener at the highest levels in the audio world. The Hestia will enhance your appreciation for all of the music you listen to. They are designed to most closely match the sound of live music. Everything about this speaker has been designed with only the highest level of performance in mind.

Before Beginning

Please make sure to inspect the speaker carefully. If you notice any damage please inform the dealer immediately. If the loudspeaker was shipped to you, you must notify the carrier. Please save all packing materials. Should it become necessary to transport this loudspeaker, proper packing will help to prevent damage. If the carton has strapping, slide the straps off. Do not cut them so that they could be used for repacking if necessary.

Warranty

The speaker comes with a 90 day limited warranty extendible to a 5 year warranty when registered within 14 days of purchase. The warranty is limited to defects in manufacturing and workmanship. Please be sure to operate the speaker within its power handling parameters. Damage can result from overdriving the speaker, or the amplifier powering it, and is not covered.

[Full warranty information is located on the last page of this manual](#)

Speaker Spikes

The speaker comes with 1 ½ inch adjustable spikes that have two segments and are cone shaped. They screw into the bottom just inside of the four corners. Four small metal pucks are also included for the spikes to sit on. Be careful, the spikes are sharp! You may want to experiment with speaker placement before putting the spikes on the speakers. When the spikes are installed you should hear increased resolution, detail and control. The bottom segment adjusts for floor variations, and can be used to adjust the tilt of the front face of the speaker.

Ribbon Tweeter Covers

The ribbon tweeters have magnetic covers on them to protect them from stray metal pieces. Take off the grills and slide them off before play. Save them for shipping.



Connection

The Hestia uses two standard + and – cable connections to your amplifier with high amperage shielded 5 way binding posts allowing for several connections including spade lugs and banana plugs. Jumpers are included, but can be removed for bi-wiring, or bi-amping. The upper connector drives the entire panel, while the lower connector drives the XTL bass unit. It is recommended that you wait until the speakers are broken in before experimenting with choice of speaker cables. Use of cable incorporating filter networks is not recommended. The cleanest conducting cable will sound best. The speakers will clearly show you how open and musical a particular cable is.

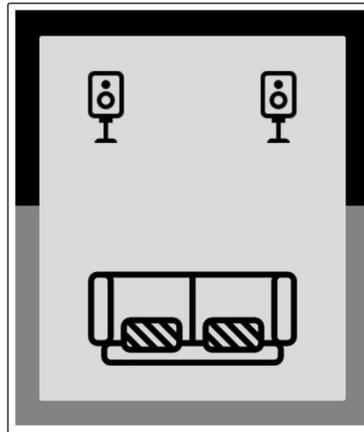
Breaking in the speakers

Although we start the break in process on all speakers, it takes about 200 hours of play before the speakers start to display their full resolution with intimate detail and extended bass. The Hestias will continue to break in until about 500 hours of play. If they are left off for a significant period of time, they will need a few hours of break in again.

Room Acoustics

The acoustics of the room can be as important as any other component of your system. A good room is neither too live (reflective) nor too dead (absorptive). Imaging is usually best achieved in a symmetrical setting with the walls behind and to the sides of the speakers absorptive while the walls behind and to the sides of the listeners are relatively reflective. This is called the live end dead end room (LEDE).

Damped



Reflective



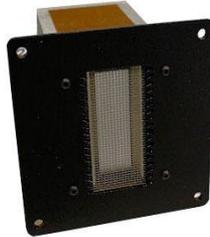
Positioning

The dipole configuration of the Hestias dictates that care must be taken with placement in the room for maximum imaging and proper tonal spectrum balance. We recommend that you experiment with loudspeaker placement in order to obtain the best spectral balance, openness, and perception of depth. For good results the speakers should be no closer than 24 inches from the rear wall with at least 3 feet to the side walls. The space between the loudspeakers should be free. Moving the system toward a wall will increase bass level but may reduce imaging clarity and openness. Moving speakers too far into a room can result in a thin overall presentation with loss of bass foundation. The speakers will

normally work well slightly angled toward the listener for accurate sound staging. While the openness of the Hestia allows for excellent listening from most positions in a room, the sweetest spot is between and in front of the speakers from a distance equal to 1 1/2 times the distance between the speakers with the tweeters aligned to ear-level.

Design Features

1. State of The Art Ribbon Tweeter



A ribbon tweeter unlike any other; the ribbon tweeter is the best performing tweeter we've ever heard, or tested. Custom built to our specifications its clarity and dynamics are unmatched. The Titanium Hestia centers this exceptional ribbon tweeter between the upper midrange and lower midranges creating a unified pulse and extending the high-end over an octave above the scope of human hearing.

- Custom designed ribbon tweeter
- Extremely clear, fast, flat high-end response
- Extended response of over an octave above the scope of human hearing

2. Dynamic Upper Midrange:



- Carbon fiber/Rohacell composite cone for enhanced midrange detail
- 3.1" Large Hexatech™ Aluminum underhung VC
- Titanium coil bobbin
- Hybrid™ Neodymium/Ferrite magnet system
- Uniflow™ Aluminum diecast chassis
- High power handling
- Wide range of operation

3. Smooth Lower Midranges



- Aluminum diecast chassis
- Neodymium magnet system
- Titanium coil bobbin
- 3.1" Large Aluminum voice coil
- Coppersleeve Motor
- High power handling

4. State of the Art Woofer:



Tuned into our Alta XTL system for fast extended bass response, our proprietary woofers go below the human hearing range to play even the lowest notes from the largest pipe organs clearly and without distortion.

- Uniflow™ Aluminum diecast chassis
- High flux double Ferrite magnet system
- Coppersleeve Neolin Motor
- 5.1" Large Hexatech™ Aluminum voice coil
- Titanium coil bobbin
- One piece paper cone/center dome
- Accucenter™ self centering cone assembly

5. All voice coils use Titanium Formers:

All of the formers (bobbins) are made of titanium for smoother more extended dynamics, power handling, and frequency response. Titanium's added stiffness also allows for a larger voice coil. The midrange voice coils are 3.1 inches in diameter and the woofer voice coils are 5.1 inches. Titanium is an expensive and difficult material to work with, but well worth it for the increase in quality and performance.

6. Dipolito design:

In a D'Appolito configuration a midrange is placed above and below the tweeter to create a unified wideband pulse response that most closely mimics the original sound pulse. In our configuration there are two 7 inch midranges below and one 6 inch midrange above the ribbon tweeter. In the crossover passband with the tweeter, the output of the two lower midranges matches the output of the single 6 inch midrange above the tweeter, thus creating a unified pulse, but in the woofer crossover passband the two 7 inch lower midranges have the extended lower midrange and bass response needed to meld seamlessly into the woofer.

The midranges are also in a dipole open baffle configuration. This setup gives a larger more palpable feeling of stage size with the midrange driver at the top casting images realistically high and clear. Blending in the pinpoint accuracy of the monopole ribbon tweeter keeps the individual images from becoming diffuse or bloated and lays them out realistically on the sound stage.

7. DampHard construction:

What is DampHard?

As a designer, you try to design a cabinet that doesn't resonate. Resonances cloud and distort the music, and locate your speaker in space, causing you to hear the speaker and its location in the room rather than the music itself. Standard design strategies involve putting heavy padding material inside the cabinet to dampen unwanted resonances. Excessive internal dampening causes the lower frequencies to become muddy and distorted, giving a booming, humming quality to the sound that removes the clarity of the bass. When you have excessive dampening material, you're hearing the padding instead of the music.



Alta's solution to this is our proprietary material DampHard: a multi-layered, multi-density material that makes up the walls of all our high-end speaker cabinets. Where standard MDF or other materials would allow certain frequencies to resonate the cabinet, DampHard remains dead to virtually all vibration. This allows us to heavily cut down on a cabinet's internal padding, maintaining the clarity of the bass. Coupled with our Alta XTL technology, DampHard allows us to create a truly superior cabinet that acts like a musical instrument, extending the range and clarity of the bass, while keeping the cabinet resonance-free. This combination in all our high-end speaker models creates an unparalleled bass response complete with all the clarity and dimensionality of the music.

8. XTL Bass:

What is Alta XTL?

XTL stands for Extended Transmission Line, an Alta Audio proprietary technology used in all our speakers. We developed XTL using specialized sonic geometry to tune our cabinets like musical instruments, allowing all our speakers to deliver unprecedented clear, fast, and powerful bass.



Standard transmission lines can make the bass slow and distorted. The difference between Alta XTL and a standard transmission line is that we tune the cabinet at multiple frequencies, not just one. Think of it like a cello amplifying and extending the notes played off the strings. Our cabinets are tuned to extend the bass of a driver, giving a clean fast bass response that is in a different class than standard transmission line designs.

Coupled with our DampHard technology, Alta XTL shines to create a clear and musical extended resonance free cabinet.

Specifications

Height: 53 3/4 inches

Width: 15 inches at the bottom narrowing to 8 1/2 inches on top

Depth: 18 inches at bottom

Weight: 135 lbs

Driver complement:

1 Titanium former 10 inch Woofer in Alta XTL bass tuning

2 Titanium former 7 inch lower midranges

1 Hex cone titanium former 6 inch upper midrange

1 Amorphous core high output ribbon tweeter

Sensitivity: 90 dB / 2.83 Volts @ 1Meter

Frequency response: 28Hz to 47kHz +/- 3dB

Impedance: 4 Ohms

Requirements: Minimum 50 to 400 Watts, Can be Bi-wired, or Bi-amped

Configuration: Open backed Dipolito

Alta Audio Technology:

- DampHard Construction
- XTL Bass

90 Day Warranty*

1. Alta Audio LLC. (hereafter referred to as Alta Audio) warrants to the original purchaser that this loudspeaker is free from defects in material and workmanship under normal use and authorizes free service and/or parts replacement at an States of Alta Audio authorized service facility for a period of 90 days from date of purchase (by the original purchaser only) in the United America.
2. All Parts except the cosmetics are warranted for 90 days from date of purchase and will be replaced if in the sole judgement of Alta Audio they shall be deemed defective over and above that considered to be normal wear. This warranty does not apply to equipment showing abuse or damage or to parts that in our judgement are not defective; nor does it extend to any equipment that may have been tampered with, altered, or repaired outside an Alta Audio authorized service facility.
3. Proof of purchase (sales receipt) must be presented to the Alta Audio authorized service facility whenever any warranty service is required.
4. Loudspeakers sent to Alta Audio for service must be sent in original packaging with freight and insurance charges prepaid by the owner.
Loudspeakers will be returned freight prepaid.
5. In all cases of in-transit damage a claim must be filed against the carrier by the purchaser.
6. This warranty is in lieu of all other warranties expressed or implied and there are no other warranties valid. No one is authorized to assume any liability on behalf of Alta Audio or impose any obligation on it in connection with the sale of any equipment other than as stated in this warranty. Alta Audio shall not be responsible in any way for consequential or indirect damages or liabilities resulting from the use and operation of the product covered herein or resulting from any breach of this warranty or any implied warranty relating to the said product.

*This warranty represents a limited warranty as per definition of the Federal Trade Commission (Magnuson - Moss Warranty Act).

Extended 5 Year Warranty

To extend your warranty for a full five years you must register your warranty on the Alta Audio site within 14 days of the date of purchase. Your warranty does not cover abuse - such as burned voice coils or ruptured cones - due to excessive power or malfunctioning amplification equipment. This extended warranty contains identical provisions as the 90 day warranty - but for a period of five years after the date of purchase to the original owner. This warranty must be registered to be valid.

For full 5 year warranty coverage please register your warranty within 14 days of purchase at:
alta-audio.com/support/warranty-information

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Huntington, NY 11743
Tel: 631 424-5958

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