



Alta Audio

Alyssa Special Edition



BROCHURE

Specifications

Height: 14.5 inches, 15 inches with spikes

Width: 8 inches at top, 9.6 inches at bottom

Depth: 13.25 inches at top, 14.25 inches at bottom

Weight: 28 lbs

Driver complement:

- One 6 inch midrange woofer with Titanium Former

- One 2 1/2 inch Neodymium Ribbon Tweeter

Sensitivity: 87.5 dB / 2.83 Volts @

Frequency response: 32Hz to 47kHz +/- 3 dB

Impedance: 4 Ohms

Requirements: 50 to 150 Watts per channel

Alta XTL Bass with DampHard faceplate

Black Onyx, Rosewood, Beech, All High Gloss

Design Features

1. Ribbon Tweeter:



Dynamic Ribbon Tweeter

A 4th generation ribbon tweeter with excellent clarity and dynamics powers the exceptional upper register of the **Alyssa**.

- 7x 4th generation ribbon driver technology
- 7x 2 1/2 inch long ribbon
- 7x 12mm width reinforced sandwich ribbon diaphragm
- 7x High power handling, low distortion, very fast transient response
- 7x Strong Neodymium magnet
- 7x Extremely clear, fast, flat high-end response
- 7x Extends over an octave above the scope of human hearing

Exceptional Midrange/woofer with Titanium Former

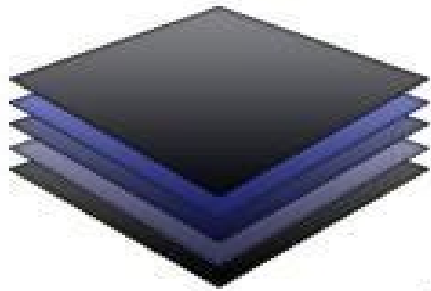


Six inch woofer with a 3.1 inch diameter long throw voice coil using a high powered motor allowing for smooth air flow melds seamlessly into the ribbon tweeter thanks to its low mass and high speed, while performing incredible feats in bass response thanks to the Alta XTL bass tuning system.

The Midrange/Woofer's former (bobbin) is 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 voice coil is 3.1 inches in diameter. Titanium is an expensive and difficult material to work with, but well worth it for the increase in quality and performance.

DampHard construction: What is DampHard?

As a designer, you try to design a cabinet that doesn't resonate. Resonances cloud



DampHard

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.

What is Alta XTL?

XTL stands for Extended Transmission Line, an Alta Audio proprietary technology used in 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.

Special Edition

Our Special Edition level of the Alyssa comes from our state-of-the-art design and parts used in the Aphrodite. Our crossovers are hand-built and ear tuned. The highest-level parts are used, measured to be precisely on specification and fine tuned to bring the response to very tight tolerances.

Exotic Silver Coated Deoxygenated single crystal copper cables are used with Teflon insulation. Multiple cables are used and combined in variable diameters to smooth out micro resonances. All wiring is direct point to point eliminating the circuit board and any associated electromagnetic interaction. Silver foil capacitors with exceptionally low ESR, hand calibrated multiple noninductive resistors and high gauge Litz inductors fill out the component list.

Most importantly, every part is chosen through a listening process that insures the delivery of the ultimate in inner detail, clarity, musicality, smoothness, and air.

The Special Edition speakers came to existence by command performance. Several Alta aficionados, who loved the sound of their speakers, wanted to hear just how good they could be if they were hand built to the ultimate level without regard for cost. We were not disappointed.