# ADVANCED INFORMATION
# AE509²

ACOUSTIC ENERGY
*for the love of music*

**The AE509² floorstanding model brings key technologies and engineering developments from the award-winning Corinium project into a high-performance loudspeaker. Designed as a complete acoustic system, it combines advanced drive units, a refined crossover and an evolved cabinet design to deliver greater clarity, openness and musical realism.**

At its heart is a new 29mm soft dome tweeter, developed during the Corinium programme and introduced into the 500 Series for the first time. This advanced high-frequency unit provides enhanced detail, refinement and integration, contributing to a smooth and natural presentation throughout the frequency range.

The carbon fibre bass and midrange drivers have been extensively redesigned with a new shallow-profile cone geometry and a completely new motor system featuring an ultra-linear inductance profile. These developments reduce coloration and distortion while improving transparency, resulting in greater clarity, texture and realism, particularly through the critical midrange.

The crossover network has also been completely revised, with a focus on minimising group delay to improve timing and integration between the drive units. This enhanced coherence creates a more seamless soundstage and a stronger sense of musical unity.

These innovations are housed within Acoustic Energy's proven RSC (Resonance Suppression Composite) cabinet construction, now enhanced by a faceted trapezoidal cabinet design that helps disperse internal reflections and further reduce cabinet coloration. Cabinet, drivers and crossover have been developed together as a unified system to maximise overall performance.

Premium finishing touches include refined cabinet styling, upgraded solid aluminium feet with black spikes, premium silicone trims and a screen-printed logo, giving the AE509² a sophisticated appearance that matches its acoustic performance.

The result is a loudspeaker that retains the scale, authority and engaging character of the original AE509 while delivering significant improvements in naturalness, transparency and coherence. The AE509² represents the latest evolution of Acoustic Energy loudspeaker design, combining flagship-derived technology with the outstanding value that defines the 500 Series.



### Specifications

- **Drive Unit:** 125mm, carbon fibre cones
- **Tweeter:** 29mm soft dome
- **Frequency Range:** 32Hz - 28kHz (+/- 6dB)
- **Sensitivity:** 89dB
- **Power Handling:** 175w
- **Crossover Frequency:** 3.4kHz
- **Impedance:** 8ohms
- **Design:** 2 way
- **Grilles:** Slim, cloth magnetic fit
- **Dimensions (mm):** 1000 x 185 x 270 (HxWxD, exc. spikes)
- **Spike Thread Size:** M8
- **Weight:** 19kg (each)
- **Finishes:** Piano Gloss White, Piano Gloss Black and American Walnut wood veneer



All specifications and images are correct at the time of going to press.
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