

# ADVANCED INFORMATION AE509

The AE509 is a new slim-line floor-standing loudspeaker with compact dimensions, suitable for medium to large sized rooms. Similar to the AE500 comparison, the AE509 offers higher levels of performance and finish than its 300 Series equivalent. The 500 Series features our newly developed carbon fibre tweeters and mid/bass drivers, designed to match the pistonic power and accuracy of our legendary ceramic aluminium drivers but with improved self-damping for a smoother, more transparent sound.

Our new 500 Series tweeter features a brand new 25mm carbon fibre dome. Carbon fibre is much lighter and better damped than other typical hard dome materials and provides a lightning fast, natural sound which will surprise the listener with its neutrality. The new cast aluminium WDT waveguide on the high frequency driver is positioned close to the mid/bass driver for optimum dispersion and is extremely stiff to reduce vibration being passed to the tweeter, ensuring sweet, clear and natural highs.

The two 125mm mid/bass drivers include new oversized 35mm voice coils for low thermal compression and very high motor force factor to provide a highly dynamic yet controlled bass response. The woofer has an optimised motor and suspension system for maximum linearity and lowest distortion ensuring mid-range definition, whilst the lightweight nature of the carbon fibre cone material increases transient speed and clarity.

The AE509 is a Mid Tweeter Mid/Bass (MTM) driver layout with a 2 way crossover using high voltage polypropylene film wound capacitors and air core inductors at critical locations for optimum dispersion, through a smaller acoustic source size within the crossover region.

These unique drivers are housed in our new 18mm Resonance Suppression Composite (RSC) cabinets, evolved from the prestigious Reference Series and featuring the same constrained layer composite to greatly reduce cabinet acoustic radiation, which would otherwise colour the sound.

Offering unparalleled levels of performance, quality and value the result is an audio product with clean, uncluttered lines delivering a thrilling and powerful presentation discerning Acoustic Energy owners have come to expect for over 30 years.

The slim-line cabinets are finished in Piano Gloss Black, Piano Gloss White or American Walnut wood veneer finishes. Solid Aluminium bars are supplied to ensure rigid floor-coupling and maximum stability, whilst the stiffness of the metal structure reduces the room to speaker interaction.



## AE509 Specifications

- Drive Units: 125mm Carbon Fibre cones
- Tweeter: 25mm Carbon Fibre dome
- Bandwidth: 32Hz-28kHz (+/- 6dB)
- Sensitivity: 89dB
- Peak SPL: 115dB
- Power Handling: 175w
- Crossover frequency: 2.9kHz
- Impedance: 6ohms
- Design: 2 way
- Dimensions: 1000 (1050 with spikes) x 185 x 280 (HxWxD)
- Weight: 22Kg (per speaker)
- Finishes: Piano Black Gloss, Piano White Gloss and American Walnut wood veneer

