

# ADVANCED INFORMATION AE500

The AE500 is a new compact stand-mount loudspeaker from our flagship 500 Series. Following on from the award winning AE100 and AE300, the AE500 offers a significant step up in audio quality, materials, and cabinet finish. The 500 Series features our newly developed carbon fibre tweeter 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 125mm mid/bass driver includes a 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.

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.

The 2way crossover uses 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.

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

Finished in a choice of Piano Gloss Black, Piano Gloss White or American Walnut wood veneer finishes, the AE500 will easily integrate within any home décor placed on speaker stands or bookshelves.



## AE500 Specifications

- Drive Unit: 125mm Carbon Fibre cone
- Tweeter: 25mm Carbon Fibre dome
- Bandwidth: 45Hz-28kHz (+/- 6dB)
- Sensitivity: 87dB
- Peak SPL: 113dB
- Power Handling: 120w
- Crossover frequency: 2.8kHz
- Impedance: 6ohms
- Design: 2 way
- Dimensions: 310 x 185 x 260 (HxWxD)
- Weight: 8Kg (per speaker)
- Finishes: Piano Black Gloss, Piano White Gloss and American Walnut wood veneer

