

AE1 Active Speaker



TECHNICAL INFORMATION

TWEETER

The tweeter is an all-new Acoustic Energy designed 27mm metal dome unit designed to work in harmony with our Wide Dispersion Technology (WDT) waveguide. The result is perfect integration with the mid/bass driver, with extremely wide and spacious imaging.

DRIVERS

Key to the success of the AE1 Active design is its unique pure piston ceramic aluminium cone technology. Now in its fifth generation, this 125mm ceramic hard-anodised spun aluminium cone offers exceptional stiffness at low weight. This negates the cone flex and break-up nodes at frequencies typical of paper and plastic cone designs.

AMPLIFICATION

Electronically, the AE1 Active is proudly an all-analogue design focused on

performance without compromise. This includes wired analogue inputs, both balanced XLR and standard RCA, the highest quality linear power supplies and two pair-matched, high-performance 50Watt Class A/B amplifiers per speaker. While the design team experimented with wireless inputs, switch mode power supplies, Class D amplification and DSP, none delivered the audio performance befitting of a loudspeaker wearing the legendary AE1 badge.

CABINET

The cabinet is an extensively braced heavyweight fibreboard construction with internal damping panels and the introduction of a slot port to the AE1 design for the first time. With several Acoustic Energy models already benefiting from the company's R&D programme into slot port loading, the AE1 Active's port delivers unrivalled cross-sectional area, reduced baffle space and significantly reduced 'wind-noise' at high volumes.

SPECIFICATIONS

Drive Unit:	125mm ceramic aluminium sandwich cone
Tweeter:	25mm aluminium dome
Frequency Range:	42Hz – 28kHz (+/-6dB)
Input Sensitivity:	104dB for 1VRMS @ 1kHz
Peak SPL:	115dB
Maximum SPL:	105dB
Amplifier:	Class A/B with linear power supply
Power:	100w
Crossover Frequency:	3.5kHz 4th Order Linkwitz-Riley
Inputs:	RCA and Balanced XLR
Controls:	Volume adjust 0dB to -inf HF shelf +/-2dB LF shelf +/-2dB
Power Connection:	IEC C13
Voltage:	Switchable 110 / 240v
Safety Certification:	CE EN55013/20
Design:	2 way active
Cabinet:	18mm MDF with bracing and damping panels
Grilles:	Slim, cloth magnetic fit
Dimensions (mm):	300 x 185 x 250 (HxWxD)
Weight::	18kg (pair)