

# 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

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