





The legendary AE1 set new industry standards in audio performance from a compact enclosure, creating the company's product ethos maintained to this day





## OUR JOURNEY

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Acoustic Energy was founded in London, England in 1987 with the creation of the now-legendary AE1 loudspeaker. The AE1 redefined what was possible from a compact enclosure by setting new audio performance standards for dynamics, power and clarity previously unheard of outside larger, high-end speakers. These design principals have remained enshrined in the company ethos to this day...

All Acoustic Energy loudspeakers are subject to our rigorous design-process and carry the same DNA that's run through each product range for over 35 years. At prototype stage new designs are voiced through an exhaustive listening process, with electroacoustic measurement used to verify each step. They're then benchmarked against our historical references mirroring the dynamics, transparency, tonal accuracy and above all musical involvement necessary to warrant the Acoustic Energy marque.

From inception Acoustic Energy has garnered hundreds of awards and accolades from the world's Hi-Fi press. These and many other endorsements with critical acclaim from journalists around the globe help secure our proud, pedigree status as one of the most highly regarded brands in the audio industry today.

British owned and run, the company has been based in the heart of the beautiful Cotswolds, England since 1995. As music lovers, its directors combine over 100 years experience and knowledge in the audio industry with a passion for creativity, performance, quality and customer loyalty as core brand values.

Once becoming an Acoustic Energy owner, you're beginning an audio journey that'll provide decades of listening pleasure, whether new to our brand or upgrading. You're also buying into an exclusive club with the assurance of British design and engineering at its very best, backed by an industry-leading warranty support programme, all created... *for the love of music.*





## 500 SERIES

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Our flagship 500 Series comprises the AE500 stand-mount, AE509 and AE520 floor-standing loudspeakers. All models feature our newly developed carbon fibre tweeter and mid/bass driver, 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.

The new 25mm carbon fibre tweeter dome is lighter and more damped than typical hard dome materials, providing a lightning fast and accurate sound with optimum neutrality. Our extremely inert, cast aluminium WDT (Wide Dispersion Technology™) waveguide surrounding the tweeter ensures sweet, clear and natural vocals, whilst positioning close to the mid/bass driver improves dispersion and soundstage.

The new 125mm mid/bass drivers have been designed with oversized 35mm voice coils for low thermal compression and a highly dynamic yet controlled bass response. The woofers also have an optimised motor suspension system for maximum linearity and lowest distortion for mid-range definition, whilst the lightweight nature of the cone material increases transient speed and clarity.

These unique high and low frequency drivers are housed in our new Resonance Suppression Composite (RSC) cabinets evolved from the prestigious Reference Series and feature the same constrained layer composite material to greatly reduce cabinet acoustic radiation.

The 500 Series is available in high gloss Piano Black, White and American Walnut real wood veneer cabinet finishes.



## AE500

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A compact 2-way stand-mount/bookshelf loudspeaker for small to medium sized rooms.

Matching floor-stands are available for each finish.

Sensitivity: 87dB / Power handling: 120W  
Impedance: 6 ohms / Bandwidth: 45Hz – 28kHz

## AE509

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An MTM design, slim-line floor-standing loudspeaker suitable for medium to large sized rooms. Solid aluminium bars are supplied to ensure rigid floor-coupling and maximum stability, whilst reducing room to speaker interaction.

Sensitivity: 89dB / Power handling: 175W  
Impedance: 6 ohms / Bandwidth: 32Hz – 28kHz

## AE520

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Our flagship, slim-line floor-standing loudspeaker for medium to large sized rooms features two dedicated mid-range drivers from the MTM layout, with three additional low frequency drivers below. The solid aluminium bars are supplied to provide the same rigidity and room interaction benefits as the AE509.

Sensitivity: 90dB / Power handling: 300W  
Impedance: 6 ohms / Bandwidth: 30Hz – 28kHz



## 300 SERIES



Building on the hugely popular and universally acclaimed 100 Series, the 300 Series raises the performance bar by featuring multiple upgrades, all designed to improve both audio performance and aesthetics, befitting its more premium status. Bespoke new drive units have been designed in tandem to offer seamless tonal integration with low distortion and high-power handling benefits.

The 28mm aluminium dome tweeter houses our WDT (Wide Dispersion Technology™) surround and the 130mm aluminium mid-bass driver uses a ceramic aluminium sandwich cone with an ultra-shallow profile and long throw motor system. This new driver boasts improved dispersion, extended bass slam and overall power handling.

The cabinet enclosures are crafted from an inert 18mm high density MDF material with proprietary internal bracing technology to reduce cabinet colouration.

The 300 Series is available in high gloss Piano Black, White and Walnut real wood veneer cabinet finishes.



## AE300

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A compact 2-way stand-mount/bookshelf loudspeaker for small to medium sized rooms.

Matching floor-stands are available for each finish.

Sensitivity: 86dB / Power handling: 100W  
Impedance: 6 ohms / Bandwidth: 45Hz – 30kHz

## AE308

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A powerful new subwoofer for both 2.1 hi-fi and multi-channel home cinema systems, designed to complement and seamlessly integrate with the AE300s, AE309s and AE307 loudspeakers.

Power handling: 500W / Bandwidth: 26Hz – 120kHz / Driver: 12" bass driver / DSP modes

## AE309

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A slim-line floor-standing loudspeaker suitable for medium to large sized rooms and supplied pre mass-loaded to reduce interaction with the floor.

Sensitivity: 89dB / Power handling: 175W  
Impedance: 6 ohms / Bandwidth: 38Hz – 30kHz

## AE307

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A new centre channel loudspeaker designed to optimise dialogue within home cinema and multi-channel music systems.

Sensitivity: 89dB / Power handling: 175W  
Impedance: 6 ohms / Bandwidth: 42Hz – 30kHz

## AE320

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A taller, slim-line, 3-way floor-standing loudspeaker suitable for medium to large sized rooms. Also supplied pre-mass-loaded, these series flagships offer a serious upgrade to the AE309s.

Sensitivity: 90dB / Power handling: 200W  
Impedance: 8 ohms / Bandwidth: 35Hz – 30kHz



## 100 SERIES

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The latest adaptation of Acoustic Energy's globally acclaimed 100 Series features an all-new, innovative design from the ground up.

The new 100 Series introduces a plethora of evolutionary improvements focused on refining the listening experience. All models (aside from AE108<sup>2</sup> Subwoofer) feature our WDT (Wide Dispersion Tweeter) waveguide for improved dispersion, now taking cues from our 500 Series with mid/bass drivers moved closer to the tweeter. The drive units are all-new and designed in tandem to offer seamless integration along with improved response and power handling. Slot ports to the rear of each cabinet reduce chuffing & distortion, thanks to a new tooled vent to further smooth airflow. Finally, as a first at this price point, the 100 Series uses HDF (High Density Fibreboard) construction to allow thinner cabinet walls with no loss in mass or stiffness – the result is larger internal volume providing deeper bass response for minimal external size increase.

This elegant, compact yet powerful range of speakers embodies all the qualities Acoustic Energy is renowned for, while taking advantage of everything we've learned in our continuous journey of development.



## AE100<sup>2</sup>

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The AE100<sup>2</sup> is a compact standmount/bookshelf speaker that exhibits qualities which perfectly embody those of Acoustic Energy.

Sensitivity: 87dB / Power handling: 120W  
Impedance: 6 ohms / Bandwidth: 51Hz – 26kHz

## AE109<sup>2</sup>

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A slim-line, 2.5 way floor-standing loudspeaker suitable for medium to large sized rooms and supplied pre mass-loaded with 8mm floor spikes to add damping and reduce interaction with the floor.

Sensitivity: 89dB / Power handling: 175W  
Impedance: 6 ohms / Bandwidth: 41Hz – 26kHz

## AE120<sup>2</sup>

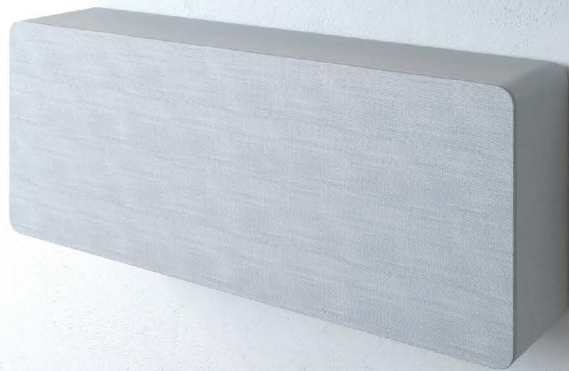
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This series flagship is a 3-way, slim-line floor-standing loudspeaker for medium to large sized rooms and supplied pre mass-loaded with 8mm floor spikes to add damping and reduce interaction with the floor.

Sensitivity: 90dB / Power handling: 200W  
Impedance: 6 ohms / Bandwidth: 39Hz – 26kHz







## AE105

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A versatile, 2-way loudspeaker primarily designed for wall mounting, the AE105 is equally suited to a bookcase or shelf position.

Sensitivity: 91dB / Power handling: 120W  
Impedance: 6 ohms / Bandwidth: 35Hz – 26kHz

## AE107<sup>2</sup>

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A centre channel loudspeaker designed to optimise dialogue within home cinema and multi-channel music systems.

Sensitivity: 90dB / Power handling: 175W  
Impedance: 6 ohms / Bandwidth: 55Hz – 26kHz

## AE108<sup>2</sup>

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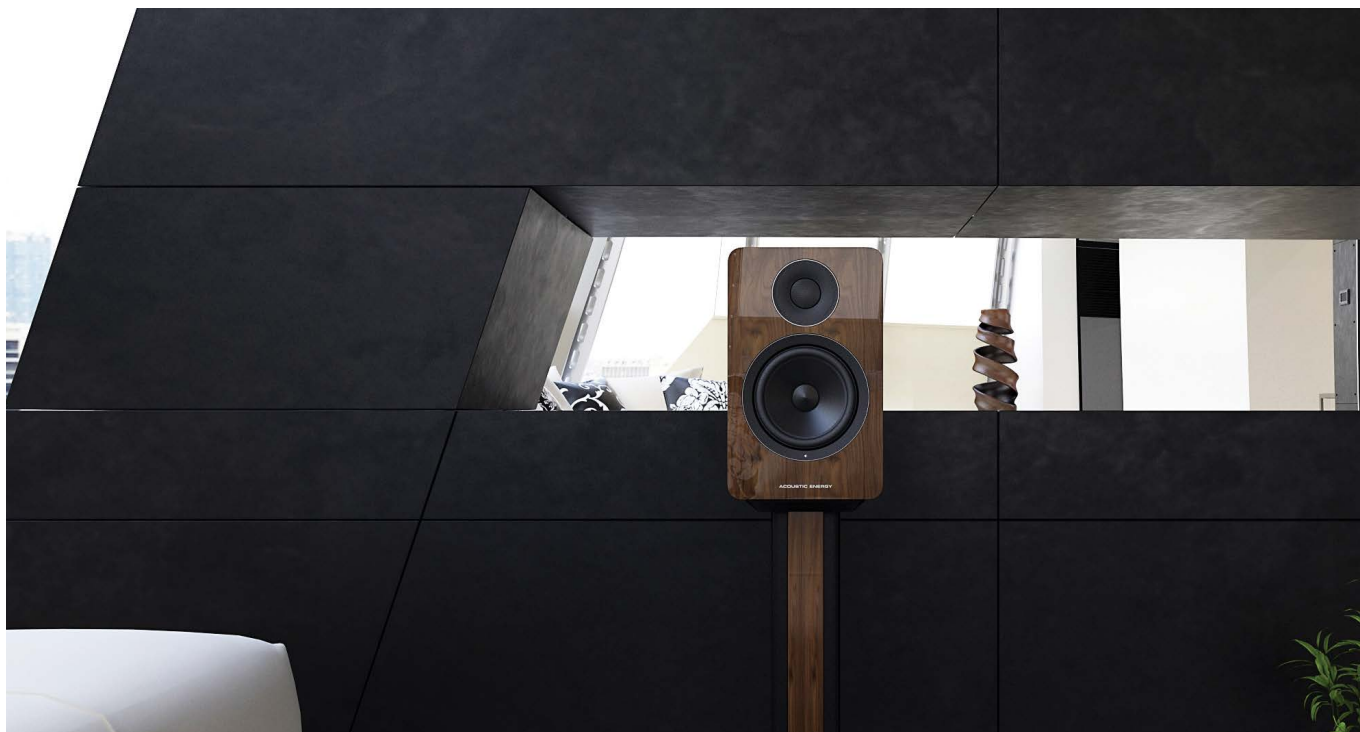
The AE108<sup>2</sup> is a compact, yet powerful active subwoofer for both 2.1 hi-fi and multi-channel home cinema systems, designed to compliment and seamlessly integrate with the AE100<sup>2</sup>s, AE109<sup>2</sup>s and AE107<sup>2</sup> speakers.

Power handling: 150W / 10" bass driver  
Bandwidth: 30Hz – 110Hz



## AE1 ACTIVE

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A 2-way stand-mount speaker with integrated class A/B amplification and fully active filter network providing all the power and impact you would expect from the original AE1 housed within a self-powered, fully active package. Ideal for direct connection to audiophile DAC/Preamps and Hi-Res streamers, the AE1 Active merges three decades of AE1 refinement with Acoustic Energy's expertise in the active studio monitor sector. This new Active model offers all the musical insight and detail that has made the AE1 the audiophile's small speaker of choice for over 30 years.

Key to the success of the AE1 Active design is its unique pure piston ceramic aluminium cone technology for the mid/bass driver. Now in its fifth generation, this 125mm ceramic hard-anodised spun aluminium cone offers exceptional stiffness and low weight. This negates the cone flex and break-up nodes at frequencies typical of paper and plastic cone designs. The tweeter is an all-new AE designed 27mm metal dome unit, engineered to

work in harmony with AE's WDT (Wide Dispersion Technology™) waveguide.

Electronically, the AE1 Active is 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. The active design also offers the ability for accurate tuning to the listening room and placement, thanks to +/- 2dB control trims for bass and treble response and high-quality analogue volume pots for systems without level control on the source component.



Externally, the AE1 Active gets a wholly redesigned cabinet featuring an extensively braced heavyweight fibreboard construction with internal damping panels, finished in various high gloss finishes. The slot duct port to the rear delivers unrivalled cross-sectional area, reduced baffle space and significantly reduced 'wind-noise' at high volumes.

The AE1 Active maximises all the benefits of an active loudspeaker design; reducing crossover losses, eliminating speaker cable influences and delivering unequalled dynamic power and presence. The result is an active speaker rivalling passive speaker / external amplifier systems at many times its price. No other small speaker gets close to the AE1 Active's performance and is equally enjoyable in the home or recording studio.

The AE1 Active is available in Piano Black, Piano White and Piano Walnut real wood veneer finishes with optional matching stands.



Sensitivity: 104dB / Power handling: 200W system  
Bandwidth: 42Hz - 28kHz / Inputs: RCA and Balanced XLR  
Amplifier: Class A/B with linear power supply





## WHAT THE PRESS SAY



AE320 | Stereonet | July 2022

"Acoustic Energy's AE320 is an object lesson in what's possible from a speaker of this price. It has no obvious weak points, unlike so many rivals, and this, in turn, lets you enjoy its strengths – which are myriad."



AE520 | HiFi+ | March 2021

"There's a tremendous sense of purpose to the way the AE520 go about creating music."



AE509 | HIFICritic | September 2022

"... the Acoustic Energy AE509s really should be on your 'must audition' list – at this price I think they'll trounce much of the competition."



AE109<sup>2</sup> | HiFi Choice | August 2022

"More than anything else, the AE109<sup>2</sup> is also a fine demonstration of the worth of the affordable floorstander concept and the virtues it offers."



AE1 Active | Stereonet | December 2021

"It sounds much bigger than it really is, with a punchy, musically articulate character that's a pleasure to listen to regardless of the type of music you play."



AE109<sup>2</sup> | The Ear | February 2022

"So long as the price doesn't double when Acoustic Energy read this, I think we have here the 'bargain of the moment' when it comes to accomplished loudspeakers; certainly, at entry-level, but almost at any level. The AE109<sup>2</sup> really are that good."



AE500 | HIFICritic | January 2023

"This compact speaker is surprisingly sophisticated, beautifully made and highly musical on all kinds of programme, winning a HIFICRITIC Best Buy award."



AE1 Active | HiFi Pig | April 2022

"They do a very good job at getting across a musical performance in a way that is exciting and engaging. The pick out for me is in their excellent soundstaging abilities..."



AE320 | Audiograde | April 2022

"More importantly though, these speakers serve up cohesive and immensely rich sounds across the frequency range with a mature weight and balance, making them outstanding value for the money."



AE320 | HiFi World | February 2022

"... clean and clear without any sharpness from the tweeter – something I greatly appreciate, something the company constantly achieve."



AE100<sup>2</sup> | Pursuit Perfect System | Feb 2022

"The sound stage is wide, really wide, really tall at times and really deep at times and I find that massively impressive and it's also very, very open."



AE1 Active | A British Audiophile | Dec 2020

"If there's a better way of spending £1000 on speakers and amplifiers then I'm not aware of it."





AE520 | Hi-Fi World | December 2020

"A coolly accurate sound with very deep bass and great sound staging. Impressive."



AE320 | HIFICritic | March 2022

"It is therefore with confidence that I am able to say that the AE320s are an excellent all round loudspeaker."



AE320 | The Ear | May 2022

"They perform exceptionally well with most genres of music, they seem to be very well made and in terms of value for money I cannot think of anything that betters them. The designers at Acoustic Energy have done an excellent job in creating a large loudspeaker that outperforms its pay grade."



AE309 | Stereonet | October 2022

"As with all the products from this company right now, it's an expressive, fluid-sounding design that soon makes you forget about hi-fi and instead connects you to the music."



AE500 | Pursuit Perfect System | May 2021

"Very much an all-round speaker, female vocals in particular sound fantastic, all vocals do!"



AE1 Active | Stereonet | April 2021

"The Acoustic Energy AE1 Active is a baby power-house that provides a seriously grown-up sound for far less money than you would expect. Indeed I'd say it's astonishing value for money, as you're removing the need to buy a potentially costly power amp too – plus the speaker cabling that goes with it. Not only that, it is good looking and very well made too."



AE100<sup>2</sup> | Hi-Fi Choice | June 2022

"Overall then, the outstanding thing about the AE100<sup>2</sup> is that it suffers from none of the usual cheap speaker nasties."



AE100<sup>2</sup> | A British Audiophile | March 2022

"Genuinely superb, clarity, the sound staging ability and the tonality of the AE100<sup>2</sup> that impresses and really isn't what you'd expect from a speaker around this price."



AE500 | The Ear | May 2021

"At first I thought I had left my usual £3,700 monitors connected since I could not believe how authoritative the compact boxes sounded and how a large a sound they could generate, way beyond their physical size."



AE509 | Audiograde | December 2021

"There's a smoothness to the way this speaker presents music and a complete lack of harshness to its delivery, sounding refined and engaging even at high volume levels. I suspect that the level of treble clarity is a result of the carbon fibre material used in the tweeter and its finesse is applauded"



AE100<sup>2</sup> | Stereonet | January 2022

"... it delivers an impressively uniform sound at low, medium and high-volume levels. So, if you are in the market for a little loudspeaker that's sonically bigger than its compact cabinet suggests, you're on the right track here – it certainly puts a smile on your dial!"



## **ACOUSTIC ENERGY** *for the love of music*

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