



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

Acoustic Energy was originally founded in West London in 1987. Our first product was the legendary world-renowned loudspeaker, the AE1. Originally designed as a near field monitor by Phil Jones, his goal was to “*improve the quality of music reproduction by absolute resolution, as good music should not be played on bad speakers*”. The AE1 set new industry standards in audio performance from a compact enclosure, creating the company's product ethos maintained to this day.

In the mid-90s Acoustic Energy partnered with an overseas manufacturer, enabling the brand to expand its global reach through a wider product portfolio. To facilitate this growth, the company moved from London to the heart of the Cotswolds, where we remain today.

In 2017 Acoustic Energy became wholly British owned again by four directors. Music lovers Mat Spandl, Neil Truckell, James Luce and Martin Harding (not pictured) have been involved with the company for over 25 years and combine 100 years of experience in the audio industry. Our loudspeakers have always received critical acclaim from audio journalists around the world, helping to secure our status as one of the most highly regarded British brands in the audio industry.

This overview merely showcases our current portfolio, so we'd strongly recommend experiencing our loudspeaker systems for yourself in one of the authorised dealers throughout the UK, or over 50 countries around the world we now export to.

OUR PHILOSOPHY

Our simple philosophy is to employ technology wisely, thoroughly and elegantly with one objective in mind – to accurately transfer the amplified signal into audible energy and faithfully reproduce even the most complex and dynamic musical programme... all for the love of music.



500 SERIES



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



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

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

AE509



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



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: 32Hz – 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



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

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

AE308



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



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



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



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



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 AE108² 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.

AE100²



The AE100² 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

AE108²



The AE108² 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 AE100²s, AE109²s and AE107² speakers.

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

AE109²



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

AE107²



AE120²



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

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

AE1 ACTIVE



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.



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



AE309

Hi-Fi World | October 2018

“Conclusion: Acoustic Energy’s AE309 may look a little meek and mild, but certainly doesn’t sound like it. Partnered with good-quality amplification, it delivers a very grown-up rendition of whatever type of music you choose to play.”



AE309

Hi-Fi Choice | November 2018

“Their sound is viscerally gripping and a totem of hi-fi: listen to them and I guarantee you will be wowed by their delivery – a notch above most else.”



AE509

A British Audiophile | October 2021

“I was playing that Ernest Ranglin album, Below The Bassline, which has a lot of low frequency info and it digs down very deep I can testify it was not only enjoyed by myself but also my neighbours”



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.”



AE520

HiFi+ | March 2021

“There’s a tremendous sense of purpose to the way the AE520 go about creating music.”



AE500

Persuit Perfect System | May 2021

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



AE520

Hi-Fi World | December 2020

Verdict? “A cooly accurate sound with very deep bass and great sound staging. Impressive.”



AE520

Stereonet | December 2020

“This combination of the AE520’s tonal smoothness allied to its large, visceral sound is really what defines this speaker, yet it isn’t everything. The light weight of its carbon fibre cones and dome make for a fast and agile sound... If you’ve got a large listening room and a serious source and amplifier to back it up, this should be right at the top of your audition list.”



AE1 Active

The Ear | December 2017

“This speaker rocks and the impact of drums and other instruments is explosive thanks to its dynamic capabilities” and “Recommended and not only for performance, they are a steal.”



AE1 Active

Hi-Fi Choice | March 2017

“It’s hard to think of any other comparably priced standmount that images with such solidity or resolves voice, instrument timbre and ambient information more naturally” and “DISLIKE: Nothing.”



AE509

Hi-Fi Choice | December 2019

“The AE509 is a seriously worthy flagship and as such should be placed high on any audition wish list.”



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”



AE300

Hi-Fi Choice | March 2018

“With the silky tones of Sinead O’Connor on her version of ‘Peggy Gordon’ from ‘Sean-Nos Nua’ the intakes of breath between the lines took me aback. This was as realistic as it comes from a set of compact standmount loudspeakers. So much so I could not help playing the track again and again to revel in the levels of detail revealed.”



AE320

Hi-Fi Choice | January 2022

"Acoustic Energy's new AE320 does an awful lot at the price. It gives an incredibly big and strong sound for the money, yet isn't crude and doesn't misbehave in any other respect. It's a very good all-rounder, with nothing whatsoever about it that lets the side down at all – compared with rivals."



AE500

The Ear | December 2021

"I still regret letting them go and wish I had simply purchased the review pair. There's probably no greater endorsement than that."



AE1 Active

HIFICritic | October 2017

"...it punches well beyond its size and price. It is capable, musical, entertaining and clearly great value, ...a Best Buy rating is clearly appropriate."



AE500

Stereonet | November 2019

"At this precise moment, the new Acoustic Energy AE500 is the best all-round standmount loudspeaker that I have heard at this price point. It does so much so well yet is largely free of vices, so it's really hard to say anything against it. If you're in the market for a great affordable small speaker, then it's here right in front of you."



AE520

Hi-Fi Choice | November 2020

"Overall this is the most impressive new flagship floorstander. It's an excellent all-rounder with no obvious vices and a lot to be proud of."



AE1 Active

The Audiophile Man | April 2018

"What I liked about the bass was that it didn't showboat but sat within the mix. It retained its individual nature and was both effective and powerful but didn't pretend that it was the star of the show. That is, it didn't swamp the soundstage but knew its place and was more effective because of it."



AE509

Hi-Fi Choice | December 2019

"I love the AE509's clean, detailed, fast, adrenaline fuelled sound, combined with a high degree of refinement and superb sense of sophistication."



AE1 Active

Stereonet | April 2021

"The Acoustic Energy AE1 Active is a baby powerhouse 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."



AE300

Persuit Perfect System | September 2020

A highest accolade award of "Special Performer" and also the AE300 was awarded "Best in Class" for the smaller speakers category.



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."



AE300

Hi-Fi World | April 2019

"What the AE300 does, it does very well and is always a pleasure to listen to – in its own special way it makes music magic, and you can't say fairer than that."



AE1 Active

A British Audiophile | December 2020

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

ACOUSTIC ENERGY

for the love of music

Acoustic Energy Loudspeakers
Unit 1, Trull Farm
Trull, Tetbury
GL8 8SQ
UK

Copyright ©2022 Acoustic Energy Loudspeakers Ltd.

Acoustic Energy reserve the right to change technical specifications without notice.

Please visit our website (acoustic-energy.co.uk) for more information, reviews, images and full specifications.



For the very latest news, reviews and product information please visit our website or follow our social media channels.