AELITE on-wall

# Owner's manual

AELITE on-wall

ACOUSTIC ENERGY

# Introduction

**Congratulations on choosing the Acoustic Energy AELITE On Wall Loudspeakers.These powerful two-way loudspeakers feature metal diaphragm technology and are capable of outstanding performance. Please take a few moments to read this manual. The advice it contains will enable you to get the very best performance out of your Acoustic Energy loudspeakers.**

The ***AELITE*** *On Wall* speakers utilise metal cone mid-bass drive unit technology, proven in our Reference Series. The rigid anodised alloy cones ensure pure piston action and also act as heat sinks for the bonded voice coils. These features provide exceptional clarity, transparency, dynamics and power handling.

The tweeters - or treble drivers - are high-quality neodymium units with silk fabric domes integrating smoothly with the rest of the system.

All drive units are fully magnetically shielded so that the speakers can be used in close proximity to a TV screen or monitor for AV applications.

The Acoustic Energy ***AELITE*** *On Wall* loudspeakers use quality OFC internal wiring, which enhances detail and transparency.

# Positioning

The ***AELITE*** *On Wall* speakers should be mounted on a solid wall or partition using the fixing points that are provided on the rear. Rigid support is essential for the speakers to develop their full detail and dynamic performance.

A drilling template is provided to ensure accurate spacing for these fixings;  however a suitable fixing method should be chosen to suit the wall construction. If in doubt then please contact a professional, as these speakers are heavy.

Due to the comprehensive fixing points the ***AELITE*** *On Walls* can be mounted vertically or horizontally, which makes them ideal for placement around screens for AV use. Closeness to room boundaries has a major impact on the low frequency performance. This effect is relied upon to correctly balance the response of the speaker.

When using your speakers with a suitable AV amplifier/processor and Subwoofer (such as the ***AELITE*** *Sub*), it is advisable to set the speaker's size to 'small' as this will the correctly feed the low audio information through the subwoofer giving you an improved power response and better blended sound from your system. If the filter point is variable it should be set to 80Hz

# Connection

**Warning**
Check that your amplifier is switched off before installing your loudspeakers. Failure to do so may result in speaker or amplifier damage.

**Conventional**
Normal passive wiring requires shorting links to be in place between the treble and mid/bass sections. The positive (ribbed) cable from the amplifier positive (or red) terminal should connect with the positive (red) terminal on the loudspeaker. Similarly the negative (smooth) cable should connect the amplifier negative terminal (black) to the negative terminal (black) on the loudspeaker.

**Bi-wiring**
Bi-wiring separates the bass and treble ground paths in the loudspeaker and offers sound quality advantages. An extra set of cables is required. Note that the shorting links are removed between the treble and mid/bass sections and should be stored for later use if conventional, passive driving is required.

Two pairs of cables are connected to the amplifier terminals. One cable of each pair should connect to the treble section and one to the mid/bass section. The positive (ribbed) cables from the amplifier positive (or red) terminal should connect with the positive (red) terminals on the loudspeaker. Similarly the negative (smooth) cables in each pair should connect the amplifier negative terminal (black) to the negative terminals (black) on the loudspeaker.

**Bi-amping**
Bi-amping adds a second amplifier to the system. One power amplifier drives the treble section of both loudspeakers; a second drives the mid/bass sections. **Note that the shorting links must be removed. Failure to do so will result in damaging the amplifiers.**

As regards the loudspeakers, wiring for bi-amping is achieved in much the same way as bi-wiring. Treble amplifier positive (red) terminals should be connected via the ribbed cable to the positive (red) HF terminal on the speaker. Similarly, treble amplifier negative is connected to the negative (black) HF terminal on the speaker. Repeat this process with the mid/bass amplifier and LF terminal pair.

**After wiring up**
Lower the volume to the minimum, switch on the amplifier, select the signal source and then raise the volume to the listening level required.

# Specifications

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|---|---|
| **HF unit** | Neodymium tweeter with high dispersion diaphragm.<br>Ferrofluid cooled and damped.<br>Magnetically shielded.<br>Exclusively profiled. |
| **LF unit** | Twin 110mm units featuring die-cast chassis. Lightweight alloy cones with 32mm coils. High-power, long-throw magnet systems. Magnetically shielded. |
| **Crossover** | @3.3kHz, 3rd order, high power |
| **Power Handling** | 175W max (undistorted program drive) |
| **Frequency response ±3dB** | 80Hz to 23kHz (on wall) |
| **Frequency response ±6dB** | 68Hz to 21kHz (on wall) |
| **Sensitivity** | 90 dB/W |
| **Impedance** | 6 ohm (4 ohm minimum) |
| **Cabinet** | Sealed, high absorbency, low resonance enclosure with real wood veneered front baffle (except silver version). |
| **Terminals** | Gold-plated 4-way binding posts. |
| **Weight** | (excl. packaging) 7kg |
| **Dimensions** | (WxHxD) 186 x 530 x 110 mm |

# Warranty

Your Acoustic Energy loudspeakers are guaranteed against original defects in materials, manufacture and workmanship for 3 years from the date of purchase. Please retain all original packaging materials for possible future use. We suggest that you complete details of purchase now and keep this information in a safe place for future reference.

Under this warranty Acoustic Energy agrees to repair any defect or, at the company's discretion, replace the faulty component(s) without charge for parts or labour. This warranty does not imply any acceptance by Acoustic Energy or its agents for consequential loss or damage and specifically excludes fair wear and tear, accident, misuse or unauthorised modification.

This warranty is applicable in the United Kingdom only and does not in any way limit the customer's legal rights. Claims and enquiries under the warranty for AE products purchased outside the UK should be addressed to the local importers or distributors.

If you have reason to claim under the warranty please contact your dealer in the first instance.

Your Name: .....
Your Address:.....
.....
Dealer's Name: .....
Serial Numbers: .....Date of Purchase: .....

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