



○ **ALDERWOOD**

Hand Crafted Sound

Eros PRO

MANUAL CONTENTS - EROS PRO

Thank you for supporting Australian jobs, Alderwood products are proudly made in southwest Victoria by highly trained and skilled artisans. To ensure that this product provides you with many years of musical enjoyment please read and understand this manual before using our installing this product.


Director of Alderwood

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WARNING - Caution - VERY LOUD!

This product is capable of producing very high sound pressure levels. Care must be taken to install and operate correctly.

EROS PRO SPECS

Dimensions	7cm x 7cm x 7cm
Weight	285gm
Input Connection	Phoenix Contact 3.81mm
Frequency Range	150 - 20KHz
Nominal Impedance	8 Ohms
Sensitivity 1W/1M	88DB
Peak Output Full Range	106DB
Peak Output With Highpass	110 DB (white noise 200 highpass on 24DB oct slope)
Beamwidth	170 degrees Conical
Driver	1inch copper voice coil, alloy diaphragm
Power	50W
IP Rating	IP67 Dust safe/ Saltwater safe
Operating Temperature	-18 - 42degrees C



RUN IN PERIOD

Before leaving the factory this speaker has been tested and measured using state of the art electrical and acoustic analysis software as well as critical listening from highly trained ears. This only accounts to a runtime of 4 hours, you can expect the speaker to run in over the first 200 hours getting more detailed in the high frequencies and midrange as the rubber surround and the voice coil spider fibers soften, this is a process that cannot be hastened by playing the speaker at extreme levels. We recommend that you enjoy this time by playing your favorite albums going through different genres of music and revisit previously played songs after a while and see what new details you can notice that you haven't heard before.

INGRESS PROTECTION (IP RATING)

The Eros PRO is rated IP67, which offers complete dust protection and immersion in water up to 1 meter for up to 30 minutes. It is always recommend to install the speaker with as much protection from UV and direct weather for the best performance and lifespan.

AMPLIFIER SETUP

The Eros PRO covers the 150-20khz range, and as such will not benefit from bass boost or loudness settings. The following is a guideline of settings to apply to get the most from your Eros PRO.

- Bass controls set to 0
 - Amplifier crossovers set 150-200hz
 - Amplifier set to "small speakers"
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LIVE SOUND USAGE

To use the Eros PRO for live sound applications we recommend applying a highpass filter at 200hz with a 24DB/oct slope.

WIRING

The Eros PRO uses a Phoenix contact 3.81mm terminal plug, for discreet and simple wiring, this connector has exceptional electrical connection qualities and also allows for simple unplugging for quick de-installation when the need arises to repaint walls.

We recommend speaker cable thickness of 20-16g speaker cable be used, on long cable runs up to 80 meters we recommend 16g cable be used to avoid voltage drop. In humid or salt air environments tinned copper will resist corrosion and provide better signal integrity for many years longer than standard copper.

A speaker cable that has a black strip or identifying marker on one side will help when identifying which is negative and positive, we recommend that the side with a black strip is used as negative as a rule of thumb. It is of vital importance the all speakers used are wired the same to ensure proper sonic performance

Care must be taken when striping speaker cables, only strip 5mm off the ends and ensure no strands of wire are exposed or able to short out the connection which could result in damage to the amplifier or the speakers.

Use the supplied flat blade screwdriver to first loosen the 2 wire retaining screws, before inserting the wires and tightening the 2 screws till tight.

INSTALLATION

In the packaging you should find for 2 Eros PRO cubes:

2 brass wall mounts

2 wall screws 70mmx8g

1 small 2mm flat blade screwdriver

1 2mm allen key wrench

1 spare M4x5mm cone point grub screw

You will need a drill for installation and a Phillips head screwdriver

The wide off axis response of the Eros allows for many successful mounting possibilities. Speaker placement will depend on how the final system is to be configured and if its is for entertaining or critical listening

For critical listening we recommend 2 Eros PRO cubes installed at seated ear height spaced approximately 3 meters apart for a 3 meter seating distance, angled slightly towards seating with sub woofer against the same wall, firing towards the listeners

If predominantly used for entertaining installing the Eros cubes higher in the air and angling them downwards slightly will provide even sound coverage of large spaces densely occupied with people. The subwoofer will need to be placed within a radius of 7 meters, some trial and error will aid in finding the best place for your subwoofer.

Before carrying out any work ensure that there are no services behind wall, if unsure enlist the help of a tradesman or AV installer.

We recommend gently knocking on walls to check for potential rattles that may affect the sound before proceeding. (Wall mate plaster screws can be used for mounting the Eros PRO from plaster if used correctly, if a firm mounting cannot be established do not proceed to mount speaker.)

- 1)** Take the brass wall mount out of its packaging and locate the 2mm allen key in wall mounting kit
- 2)** Use the 2mm allen key to loosen a few turns of the M4 grub screw located halfway on the side of the brass bracket, this should only be finger tight from factory. Take care not to loose the grub screw, a spare is provided in kit if one is lost.
- 3)** You should now be able to slide the wall fixture out of the back of the bracket, this is the part you will screw firmly to the wall. Supplied in the kit is a wall screw 70mm x 8g this is designed to be long enough to go through plaster and secure to a wall stud, if being installed into an older home with a hardwood frame, pre drilling the mounting hole with a 2mm drill bit may make installation easier, hand tightening with a Phillips head screw driver is recommended.
- 4)** Re-assemble bracket with parts removed in step 2. Before tightening the allen key try to point the threaded end to a position that will allow for the Eros Pro to be threaded on with ease.
- 5)** Remove your Eros PRO from packaging. On the back in the center you will find a phillps head bolt. This is to be removed with a screwdriver to expose the mounting thread. Under no circumstances can the speaker be used without either the phillps head bolt or the wall mount in place, this speaker cabinet runs at high pressure and running the speaker depressurized can damage your speaker and degrade its sound.
- 6)** Carefully line up the back of the Eros PRO to the wall bracket thread and gently turn the Eros Pro clockwise from front to thread in place. Care must be taken not to cross thread the Eros Pro when starting to turn. Thread on until firm, if ball mount starts to spin you can tighten it further with the allen key and the proceed to thread the Eros until firm (If thread gets tight and wont allow the Eros Pro to be fully threaded in place the thread might be cross

threaded, in this case carefully turn the Eros Pro anti clockwise to remove it and have a second attempt at lining up the threads.)

7) Using allen key loosen the grub screw to allow for rotating and aiming at desired location, it is also now time to plug in the speaker, depending on the location of the wiring it may require you to have the speaker upside down to better hide the cables. This is completely fine and will not affect the performance. When aimed at desired area tighten the grub screw firmly to lock the Eros Pro in place.

SUBWOOFER SETUP

For best results use an Alderwood subwoofer with your Eros PRO speakers. They are precisely matched to the high-speed response times needed and are specifically designed to cover large spaces with ease.

How you setup your subwoofer will depend on your own personal tastes as well as the size and shape of the room.

Turning off the subwoofer crossover on your amplifier setup menus will provide the best results, if you cannot turn it off, set the crossover point as high as possible eg 200hz. This avoids doubling up on crossover filters* as most subwoofers have settings for adjusting crossover points on the back of them.

* Having 2 sets of crossovers trying to perform the same task will cause signal delays and phase issues at the crossover point and will affect the way the Eros Pro and subwoofer blend together a crossover setting of 70-100hz will often have enough bleed through midrange to blend seamlessly with the cubes and create a cohesive sound front.

If only 1 subwoofer is being used we recommend it is placed on the same wall as the cubes are mounted, beside the entertainment/TV cabinet is a popular location

To set the bass level first set the subwoofer out volume on your amplifier to minimum. Then turn the volume up on your subwoofer to at least $\frac{3}{4}$ of max volume. Next play some of your favorite tracks and bring the volume up on the amplifier to the level you like your bass to be at.

For **maximum dynamic range** and overall sonic quality the settings you wind up using might look something like this

- Amplifier subwoofer out setting -5 or turned down lower than normal

- Alderwood Atlas Pro setting at $\frac{3}{4}$ volume -5 to-10

This does 2 things:

1) Keeps the signal gain in the minus which has less distortion and allows for more dynamic range with high resolution music and movie formats

2) Having a higher volume setting on the subwoofer provides more current to the drive units helping to maintain voice coil control during intricate music with rapid speaker direction changes leading to less harmonic distortion and a much cleaner more defined bass.



TROUBLE SHOOTING

Sound is crackly or distorted at low volume	<ul style="list-style-type: none">- Check phoenix connector for loose strands of wire between the two contacts.- Ensure the terminals are done up tightly.- Check the wiring going into amplifier for shorts
Speaker sounds distorted at high volume	<ul style="list-style-type: none">- Check that you have applied the "small speaker" settings on your amplifier- Some amplifiers only have a crossover setting, set this to 200Hz for maximum performance <p>Double check your wiring is correct (look for any loose wires)</p>
No sound	<ul style="list-style-type: none">- Check all connections- Check that your amplifier is set to the right input.- Check power
Not enough bass / Tinny sounding vocals	<ul style="list-style-type: none">- Check that your amplifier is set to "small speakers" in the setup menu or set crossover at 200Hz.- Check that subwoofer is turned on, properly connected to your amplifier.- Some amplifiers have an "extra bass" setting. This sets the subwoofer in a sub-satellite configuration.

WARRANTY

This product is covered by a 5 year warranty against defects and workmanship including commercial usage.

Alderwood reserves the right to repair or replace defective products in the event of a warranty claim

Not covered under warranty

- Damage to drivers from excessive volume or incorrect amplifier settings being used. A repair fee may be charged for improper use.

-Natural paint fading over time from direct placement in weather.

-Damage to input connector from wrong grade of cable used for outdoor conditions.





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