

IMPORTANT SAFETY INSTRUCTIONS



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

- Prior to power-up for the first time ensure that the **The Avalanche** is set to the correct voltage
- Prior to power-up during day-to-day operation, ensure that **The Avalanche's** gain level control knob is set to minimum and/or that the audio source level from the mixing console, digital audio workstation, etc., is set to zero.
- Failure to follow these instructions may result in damage to your hearing, **The Avalanche**, and lead to a possible fire risk.
- To avoid electric shock remove power cord before replacing fuse.

CAUTION

Humidity

For a superior and consistent sonic performance, considerable care has been taken in the manufacture of **The Avalanche** to ensure that the cabinet is acoustically sealed. However, as with any electrical equipment, should you move **The Avalanche** from a cold environment into a warm room, condensation may form on the components inside. To avoid damaging the product please allow it to reach room temperature before operation.

Unpacking & handling

Care should be taken when removing **The Avalanche** from its carton.

The speaker cone (diaphragm and surround) is a delicate component. Do not touch at any time.

Listening levels

The Avalanche is capable of sound pressure levels (SPL's) in excess of 105dB. Avoid listening at sustained high levels, as this may cause:

- Permanent hearing damage
- The speaker to overheat, leading to a fire hazard.

THANK YOU!

Thank you for purchasing THE AVALANCHE from Unity Audio Limited, our 12” active studio Subwoofer. We wish you many years of productive and trouble free use.

This manual is intended to provide you with information regarding the operation, care and technical specifications of The Avalanche. Should you require any further information on any of these topics, please don't hesitate to contact us using the details on the back of this manual.

For more information on our growing line of professional studio monitors, please visit www.unityaudioproducts.co.uk

Please read this user manual and keep it in a safe place.

IN THE BOX



Bypass Foot Pedal



The Avalanche



IEC Lead

THE CONTROL PANEL



1. **Frequency Crossover selector switch** - Presets for Rock & Boulder + “Vari” for custom crossover
2. **Gain Control** - Allows you to increase/decrease the source signal from the XLR inputs (4 & 5)
3. **High/Low Frequency Crossover** - Activated when “Vari” is selected (1). Allows independent frequency selection of both hi-pass and low-pass filters
4. **Balanced Inputs/Outputs** - Balanced XLR Left (a) and Right (b)
5. **IEC Mains Input Socket** - See important safety instructions (pg.1) and power (pg.5)
6. **Phase Invert Switch** - Inverts the polarity of the low frequency signal passing through the Subwoofer by 180 degrees
7. **Bypass Foot-pedal Input** - Connects to the latching bypass foot pedal provided
8. **Voltage Selector** - Indicates the voltage setting. Voltage is factory set. See ‘Important Safety Instructions’ and ‘Power’.
9. **Power Switch** - Switches the unit on / off

INSTALLATION & USE

INSTALLATION INTO THE STUDIO

Power

The voltage options are 230V or 115V, set using the voltage selector switch (see diagram on pg 4). Before powering up, please ensure that the Voltage selection is correct for your region. Please refer to the power requirements section of the specifications for regional power requirement information. The Avalanche receives power from the included IEC mains cable.

Connecting Rocks / Boulders

The Avalanche has been specifically designed to compliment Unity Audio's current monitor range. As you can see on the control panel, two crossover presets - 'R60' for the Rocks & 'B50' for Boulders have been optimised for quick set up. Use a Male to Female balanced XLR cable to connect the respective outputs of the Avalanche to the inputs of either Rocks or Boulders.

Connecting to Third Party Monitors

The Avalanche can also make a great addition to other studio monitor models. Simply switch the Crossover settings to 'Vari' and adjust the crossover frequency to best match your monitors capabilities.

Positioning

The position of the Avalanche in your control / mixing room is important to how it balances with satellite monitors. The best method for positioning will be down to your own ears and personal preference. Here are a few points to help get you started:

It is recommended that the Avalanche is placed at the same distance as the satellite monitors from the listening position. This will minimise interference caused by phasing. If you still find that there are phasing issues, try switching the 'Phase Switch' (fig.6) to invert.

It is also important to note that walls relatively close to the Avalanche can increase the sound pressure levels produced. This can impair the balance of the subwoofer in the room.

Bypass Foot Pedal

A bypass foot pedal is included with the Avalanche. Plug the pedal into central XLR connector labelled 'Bypass Remote' (see pg. 4 fig. 7). The bypass pedal is latching. Pressing the pedal once engages bypass mode, which directs audio straight out to the satellite monitors without engaging any of the filters. Pressing the remote again will re-engage the Avalanche.

MAINTENANCE

Fuse replacement

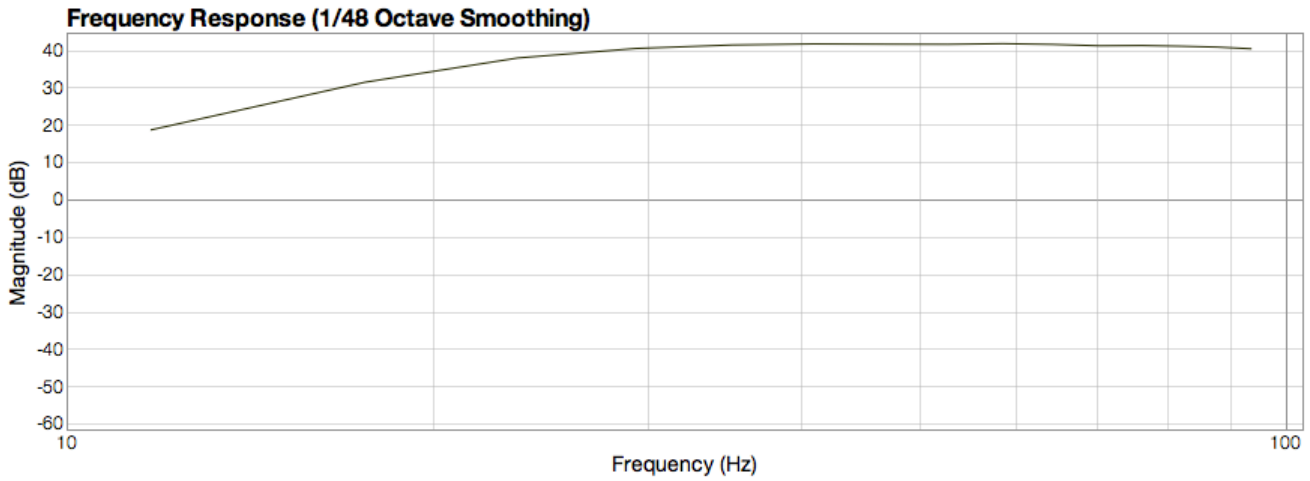
The fuse is located on the control panel of the Avalanche beneath the IEC mains input socket (see diagram on pg 4). Remove the mains lead. Prise out the fuse holder by placing a small slotted screwdriver into the slot located on the underside and near the front of the fuse holder. Carefully pull the fuse holder outwards. Replace the fuse (see specs for fuse type). Push the fuse holder back into position

Cabinet Care

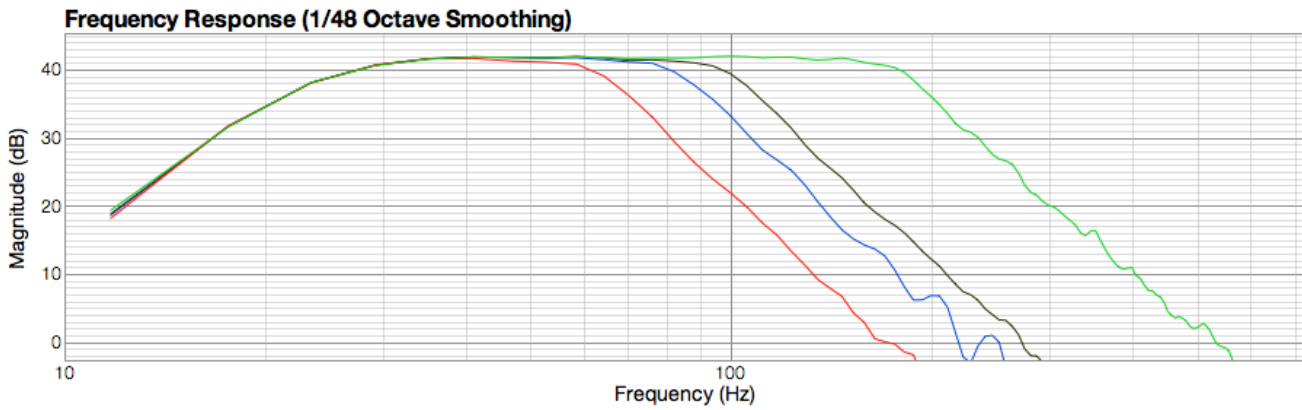
Clean the cabinet and control panel with a soft, lint-free cloth. The use of solvents or abrasive cleaners may cause damage to the finish / components and should be avoided

FREQUENCY RESPONSE CURVES

No Filter Engaged - Low Freq Roll-off



Low Pass Filters Engaged



Key:

- Red** = 40Hz (*Vari setting*)
- Blue** = 50Hz (*B50 setting*)
- Black** = 60Hz (*R60 setting*)
- Green** = 120Hz (*Vari setting*)

SPECIFICATIONS

General Specifications

Type	12" Active Subwoofer
Freq. Response	22-120Hz
Crossover Freq.	Rock Preset - 60Hz Boulder Preset - 50Hz Variable - 40-120Hz
I/P	2 x Balanced XLR Inputs
O/P	2 x Balanced XLR Outputs
Other	1 x Remote Bypass XLR Input
Max Output	150 Watts

Enclosure

Sealed Aperiodic Vent Cabinet Design

Dimensions & Weight

Height	540mm (with rubber feet)
Length	430mm
Width	430mm
Weight	37.5kg

Speaker Unit

Manufacturer	Wavecor
Size	12"
Impedance	4 ohm
Direction	Downward firing

Amplifier Unit

Amp Units	2 x Bespoke True Class A/B 75 Watt Esoteric Audio Research discrete amplifiers
Total Output Power	150 Watt
IP Sensitivity/Impedance	+4dB / 20k Ω (Balanced XLR)
Level Control	

Power Requirement

Europe:	220-240V AC, 50Hz
USA & Canada:	110-120V AC, 60Hz
Japan:	100V AC, 50/60Hz
Other:	220-240V AC 50Hz

Accessory

Bypass Controller

Latching foot-switch (included)

WARRANTY INFORMATION

This product carries a **1 Year Warranty**

If you suspect a problem, please contact your dealer, who will advise you on the appropriate action.

Any unauthorised repairs or modification to this product will nullify the warranty.

Note: Specifications and appearance are subject to change without notice.
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