

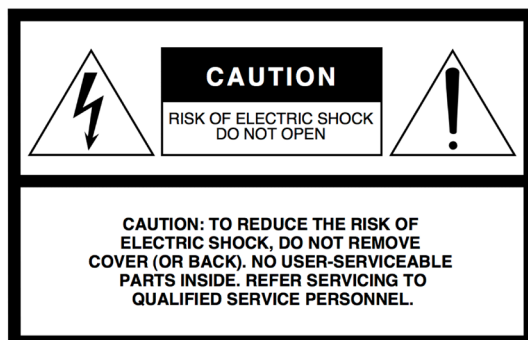
THE BOULDER MK II

PROFESSIONAL THREE-WAY ACTIVE STUDIO MONITOR

Owner's Manual



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 that produce heat.
9. Do not defeat the safety purpose of the polarized 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 stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. Use caution when moving the 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 BOULDER is set to the correct voltage (see 'Power' p.8)

Prior to power-up during day-to-day operation, ensure that THE BOULDER's gain level control knob is set to minimum (see p.12) 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 or to THE BOULDER.



CE

RoHS

UNITY AUDIO

THANK YOU

Thank you for buying the THE BOULDER by Unity Audio, one of the most accurate three-way active studio monitors available. We wish you many years of productive, trouble-free use from THE BOULDER.

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

- *Unity Audio*

Unity Audio has been at the leading edge of monitor design for many years. We pride ourselves in taking a fresh approach to designing and manufacturing products, using different materials in innovative ways.

We source quality components from reputable companies, working with skilled craftsmen, incorporating new ideas on traditional designs, in order to fine tune our products. Every Unity Audio product has been designed, built and tested all in the UK.

DESIGN PHILOSOPHY

Company founder Kevin Walker decided from the beginning that a sealed cabinet design would be employed exclusively to deliver fast transient dynamics and super accurate bass reproduction.

Good amplification is paramount to monitor performance so Unity turned to one of the best amplifier designers in the business. Tim de Paravicini from Esoteric Audio Research designed a custom discrete Class A/B amplifier that has become the amplification cornerstone of the Unity range.

ATTENTION TO DETAIL

Speaker cabinets, manufactured in the UK, use high performance Baltic Birch plywood rather than more commonly used and sonically inferior MDF.

Woofers and tweeter drive units have been carefully selected from European partners that have outstanding design, build and quality control standards. This focused approach to design and manufacturing has led to the Unity name becoming synonymous with high performance studio monitors.

USED BY THE WORLD'S BEST ARTISTS

Unity Audio active monitors are used by the world's best audio engineers, producers, Grammy award-winning artists, film composers, broadcasters, universities, mastering engineers and home studios.

Cementing Unity Audio's position as the reference loudspeakers of choice. The best selling British recordings of 2014, 2015, 2016 and the world's best selling recordings of 2015, 2016 all used Unity Audio studio monitors to help craft their sound, including albums by artists such as Adele, Coldplay, Sam Smith, Ed Sheeran, Iggy Pop, Royal Blood, Led Zeppelin, The 1975 and Rhianna.



CAUTION

HUMIDITY

For a superior and consistent sonic performance, considerable care has been taken in the manufacture of THE BOULDER to ensure that the cabinet is acoustically sealed. However, as with any electrical equipment, should you move THE BOULDER 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 BOULDER from its carton.

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

LISTENING LEVELS

THE BOULDER is capable of sound pressure levels (SPLs) in excess of 105dB. Avoid listening at sustained high levels, as this may cause:

- permanent hearing damage
- damage to the speaker.

MAINTENANCE

RUNNING IN

Speaker drivers contain moving parts. It is good practice to run in new speakers prior to normal use for improved bass extension, sweeter highs and a smoother performance overall. This process is also referred to as 'breaking in' or 'burning in'.

Unity has run in the monitor for a period in test. However we recommend a run-in period of at least 12 hours or overnight.

Having observed the warnings on page 3 of the manual, connect an audio playback device (CD, MP3 player, etc.) to THE BOULDER speaker(s). Place the playback device in loop mode and play dynamic music through THE BOULDER at a moderate level; enough to drive (move) the speaker diaphragm a reasonable amount.

POWER

THE BOULDER voltage is factory set for your geographic region.

An arrow on the voltage setting label (see p. 12) indicates the voltage setting of THE BOULDER.

IMPORTANT: ensure that THE BOULDER is set to the correct voltage for your region. Voltage settings must be set by the factory and cannot be switched by the user. If THE BOULDER is set to the incorrect voltage for your region, contact Unity Audio or your local distributor. **DO NOT** power it up!

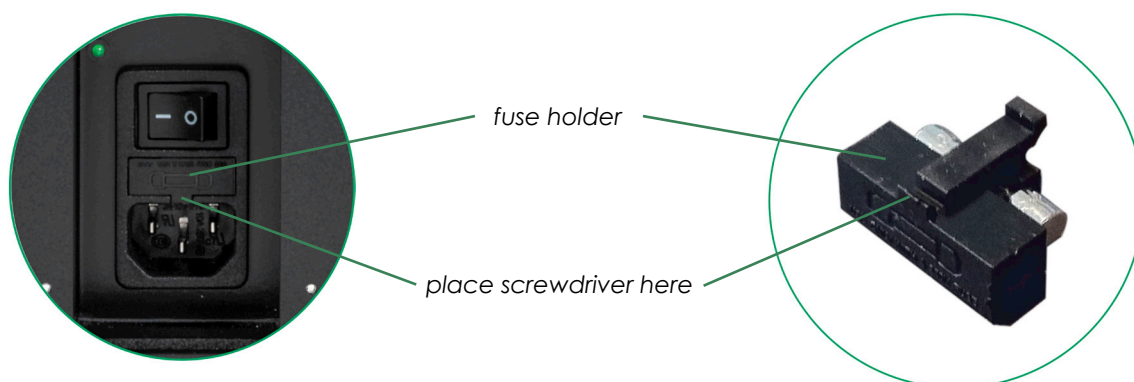
FUSE REPLACEMENT

The fuse is located on the rear of THE BOULDER in the fuse holder between the power switch and IEC mains input socket [see below].

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 'Specifications' (p.15) for fuse type.}. Push the fuse holder back into position. **WARNING:** only replace the fuse with the correct value fuse.



CABINET CARE

Clean the cabinet with a soft, lint-free cloth. The use of solvents or abrasive cleaners should be avoided.

POSITIONING

For best results, THE BOULDER should be placed on a sturdy speaker stand such as THE MONOLITH by Unity Audio.

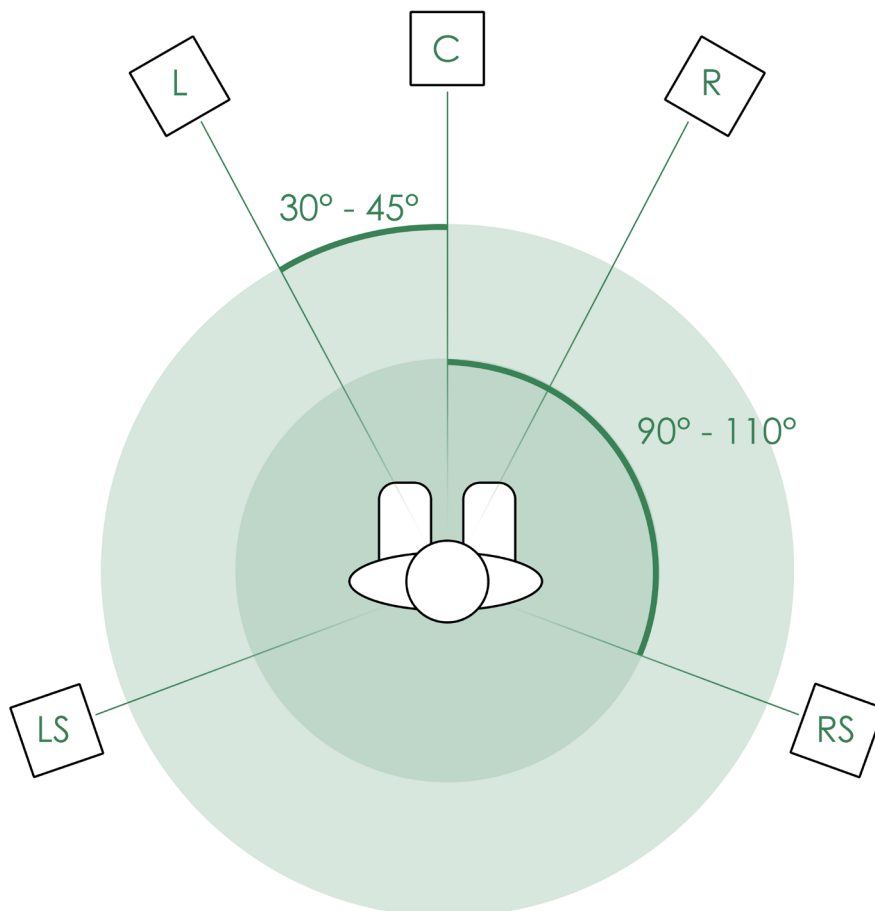
If left untreated, room acoustics (room modes) can seriously affect the accuracy of audio reproduction, especially at lower frequencies. The following guidance is here to help minimise the effects of any acoustic problems.

THE BOULDER is designed as a near/midfield studio monitor and should therefore be positioned, ideally, between 1 and 3 metres from the listener. The studio monitor(s) should be placed upright and directed toward the listener. A stereo pair of BOULDER monitors should be equidistant from the listener and between 1.5 and 1.8 metres apart, placed upright and directed toward the listener with the coaxial midrange/tweeter at around ear level.

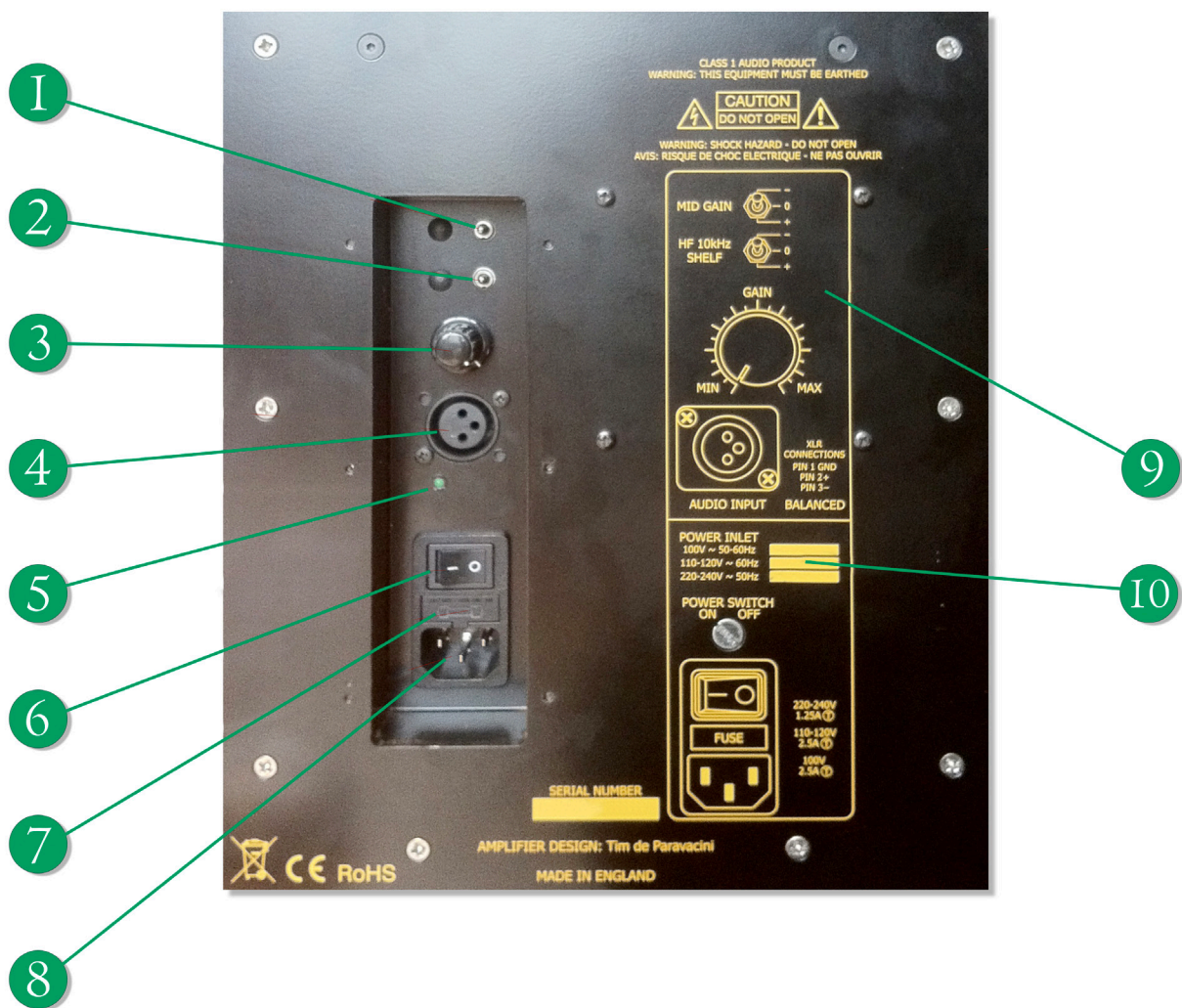
Small adjustments to the speaker placement and/or their angle to the listener, and/or the listener's seating position, will help the listener locate the audio 'sweet spot', i.e. a strong central audio 'image'.

Each monitor should also be equidistant from side walls and not too close to any wall or other reflective surface, or the corners of the room. Again, since room modes can influence what you hear in many ways, some experimentation may be needed to find the optimum speaker placement. Nevertheless, measures should be taken to remove any acoustic anomalies caused by the room.

The following diagram is a guide for optimum 5.1 surround speaker placement.



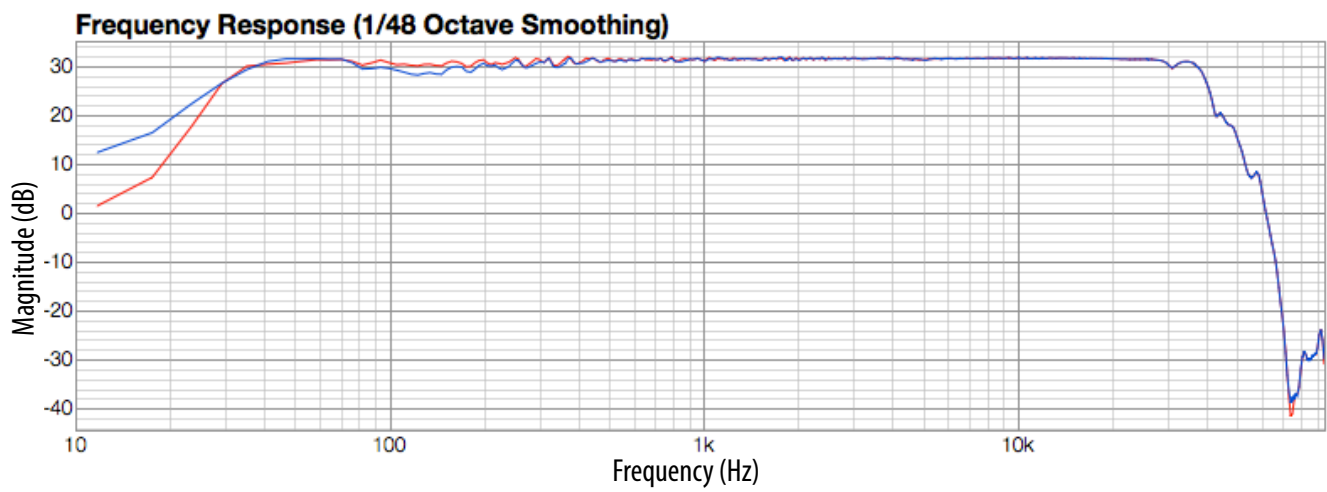
REAR PANEL



1. **Mid cut/boost switch** - 3-position mid-range frequency (694Hz-2.5kHz) gain switch: up: -2.5dB cut; centre: off; down: +2.5dB boost.
2. **HF 10kHz Shelf switch** - 3-position high frequency shelf switch: up: -2.5dB cut; centre: off; down: +2.5 boost.
3. **Gain control knob** - This control knob allows adjustment of the input signal at the XLR input. Turning the knob anti-clockwise lowers the volume; turning the knob clockwise increases the volume.
4. **Balanced XLR input** - pin 1: ground, pin 2: hot (+), pin 3 cold (-).
5. **LED power indicator (on/off)**.
6. **Power switch (on/off)** – (see Important Safety Instructions, p.3, and Power p.8).
7. **Fuse holder** – (see Important Safety Instructions, p.3, Power and Fuse Replacement, p.8).
8. **IEC mains input socket** – (see Important Safety Instructions, p.3, and Power, p.8).
9. **Rear panel guide** – this panel provides important information about control and connectivity of THE BOULDER.
10. **Voltage setting label** - An arrow on this label points towards the voltage setting of THE BOULDER. The voltage is factory set (see Important Safety Instructions, p.3, and Power, p.8).

RESPONSE CURVES

Frequency Response: 33Hz-38kHz +/- 3dB



SPECIFICATIONS

GENERAL SPECIFICATIONS

Type:	3-way active monitor with coaxial midrange tweeter
Crossover Frequency:	694Hz; 2.5kHz
Frequency Response:	+/- 3dB 39Hz-30kHz
Maximum Output Level:	113 dB (1m on-axis)
Mid Cut/Boost +/- 2.5dB	
HF EQ Shelf @ 10kHz +/- 2.5dB	

ENCLOSURE

Closed cabinet design
30mm Corian front baffle
18mm grey Baltic birch 9-ply cabinet

SPEAKER UNIT

LF:	2x 8" woofers/220mm woofers
MF/HF:	Coaxial 5" midrange and 50kHz folded ribbon tweeter (4Ω)

AMPLIFIER UNIT

4 x bespoke true class A/B 100 watt Esoteric Audio Research discrete amplifiers, one per driver	
Total Output Power:	200W
Input Sensitivity/Impedance	+4 dB/20 kΩ (Balanced XLR)
Level control	

POWER

Power Indicator:	LED
Power Requirement:	
Europe:	220-240v AC, 50 Hz
USA & Canada:	110-120v AC, 60 Hz
Japan:	100v AC, 50/60 Hz
Other:	220-240v AC, 50 Hz
Fuse:	1.6A 'T' for 230v, 3A 'T' for 115v 20mm type

OPTION

Monolith 3 leg stand. Dimensions - 390mm deep x 268mm wide x 614mm high. Weight 34Kg, Avalanche sub-woofer, B.A.B.E

DIMENSIONS

Weight 34Kg/74.95 lbs
390mm deep x 268mm wide x 614mm high. 15.35" deep x 10.55" wide x 24.17" high

Specifications and appearance are subject to change without notice. © Unity Audio Limited



WARRANTY

This product carries a one year warranty.

Please complete and return the enclosed product registration form, or go on-line to;

<http://www.unityaudioproducts.co.uk/product-registration.php>

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

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



CONTACT US

Unity Audio,
Unit 3 Hall Farm,
Little Walden,
Essex CB10 1XA

Tel: (0044) (0)1799 520786

sales@unityaudio.co.uk
www.unityaudioproducts.co.uk



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