NEOLITH mk2

Active Sub + Column Array

Item ref: 171.238UK

User Manual

Version 1.0

⚠ Caution: Please read this manual carefully before operating
Damage caused by misuse is not covered by the warranty

Introduction

Thank you for choosing the NEOLITH mk2 all-in-one active sub + column array.
This product is designed to provide medium to high power output for a wide range of sound reinforcement applications.
Please read this manual to achieve optimum performance from your speaker cabinet and avoid damage through misuse.

Package Contents

- NEOLITH mk2 active sub cabinet
- NEOLITH mk2 column speaker
- Integrated connection pole
- IEC power lead
- Column bag and sub slip cover

This product contains no user-serviceable parts, so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original package and proof of purchase for any possible replacement or return issues.

Warning

To prevent the risk of fire or electric shock, do not expose any of the components to rain or moisture.
Avoid impact to any of the components.
No user serviceable parts inside - refer servicing to qualified service personnel.

Safety

- Please observe the following warning conventions

⚡	**CAUTION: RISK OF ELECTRIC SHOCK** **DO NOT OPEN**	⚠

⚡	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit

⚠	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

- Ensure that the correct mains lead is used with adequate current rating and mains voltage is as stated on the unit.
- Avoid ingress of water or particles into any part of the housing. If liquids are spilled on the cabinet, stop using immediately, allow the unit to dry out and have checked by qualified personnel before further use.

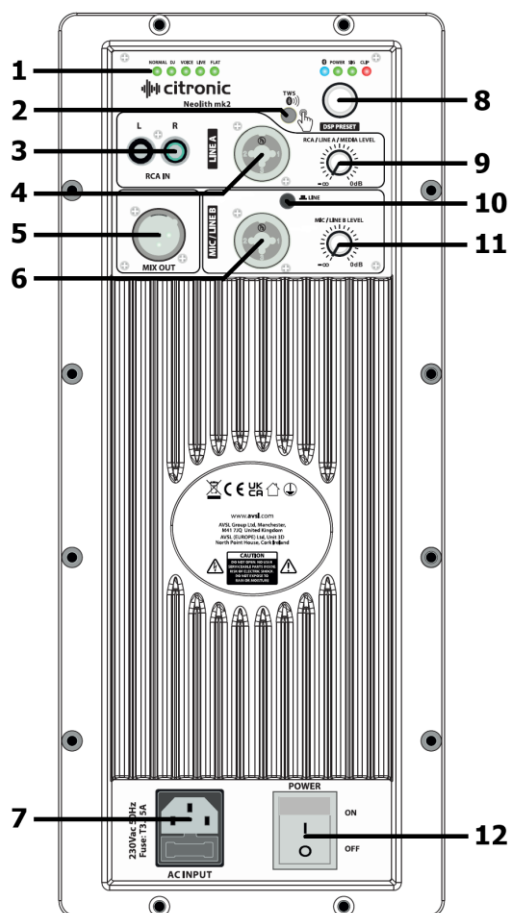⚠ **Warning: this unit must be earthed**

Placement

- Keep the electronic parts out of direct sunlight and away from heat sources.
- Position the cabinet on a stable surface or stand that is adequate to support the weight of the product.
- Allow adequate space for cooling and access to controls and connections at the rear of the cabinet.
- Keep the cabinet away from damp or dusty environments.

Cleaning

- Use a soft dry or slightly damp cloth to clean surfaces of the cabinet.
- A soft brush can be used to clear debris from controls and connections without damaging them.
- To avoid damage, do not use solvents to clean any parts of the cabinet.

Rear panel layout

1. DSP setting indicators
2. Bluetooth/TWS pairing button
3. Line A in L+R RCA sockets
4. Line A in combo XLR/jack socket
5. MIX OUT line output XLR
6. Mic/Line B in combo XLR/jack socket
7. IEC mains power inlet and fuse holder
8. DSP preset selector
9. RCA/Line A/Media Level control
10. Input B Mic/Line level switch
11. Mic/Line B / Media Level control
12. POWER on/off switch

Setting up

Position your Neolith mk2 sub cabinet on a stable surface capable of supporting the weight and vibrations from the cabinet. Insert the supplied pole into the mounting socket on top of the sub cabinet. The pole should only fit in the correct orientation and makes speaker contacts for the column speakers. Mount the column speaker onto the pole at the desired height adjustment, again taking care to ensure correct connection.

Aim the sub and column towards the audience or listeners and not in direct line of sight with any microphones that are fed into the Neolith mk2 to avoid feedback (howling or squealing caused by the mic "hearing" itself)

Connect the input signal for the Neolith mk2 to either the XLR, 6.3mm jack or L+R RCA sockets on the rear panel (4, 3, 6). If the input signal is a microphone or other low impedance signal, use Mic/Line input B (6) and press in the MIC/LINE level switch (10). For standard LINE level inputs, keep this switch at the OUT position.

If the signal into to the Neolith mk2 cabinet (and the internal Bluetooth player) is to be linked onto a further Neolith or other active PA speaker, the signal can be fed from the MIX OUT line output XLR to further equipment (5)

When all necessary connections are made, turn both LEVEL controls (9, 11) fully down and connect the supplied IEC power cable (or equivalent) from the mains power supply to the power inlet (7), ensuring the correct supply voltage.

Operation

Whilst playing a line input signal into the Monolith mk3 (or speaking into a connected microphone), gradually increase the relative level control (9, 11) until the sound output can be heard and then gradually increase to the required volume level.

The Neolith mk2 has a 5-preset internal DSP to offer different EQ profiles suitable for different applications. Select from Normal/DJ/Voice/Live/Flat by rotating the selector (8) and the relative LED will be lit (1)

Bluetooth

To play tracks wirelessly from a smart phone (or other Bluetooth device), press the Bluetooth/TWS pairing button (2) and a Blue LED will flash to indicate pairing mode. In the smart phone Bluetooth menu, search for a Bluetooth device with the ID name "Neolith" and select to pair. Once paired, audio played from the smart phone will be streamed wirelessly through the Neolith mk2. If using 2 Neolith mk2 sets, setting Bluetooth pairing on one unit and then on the other will initiate TWS (True Wireless Stereo), which pairs both units as a stereo pair and pairing the first unit to a smart phone will result in full stereo playback across both sets.

When the Neolith mk2 is not in use, turn down the level controls before powering down and disconnect the mains supply before disassembly.

Specifications

Power supply	230Vac, 50Hz (IEC)
Fuse	T3.15AL 250V (5 x 20mm)
Construction	15mm MDF with texture polyurea coating
Output power : rms	400W
Output power : max.	800W
Audio source	Internal Bluetooth receiver
Inputs	Mic/Line(XLR/Jack) and Line (Jack/RCA)
DSP settings	5 x preset tone profiles
Output	Line out (XLR)
Sub driver	1 x 250mmØ (10")
Column drivers	4 x 90mmØ (3.5") Neodymium
Sensitivity	94dB
Frequency response	55Hz - 20kHz
Height	1.72m (assembled)
Dimensions : sub cabinet	450 x 400 x 320mm
Weight : sub cabinet	15.95kg
Dimensions : column	520 x 143 x 111mm
Weight : column	2.95kg