

CRANBORNE AUDIO

Congratulations on your purchase of Carnaby HE2 and thank you for selecting Cranborne Audio to be a part of your music creation process.

Please download the full User Manual from the Carnaby HE2 product page on the Cranborne Audio website

www.cranborne-audio.com

Carnaby HE2 Quick Start Guide

Safety Information	2
General Safety	2
Installation notes	2
Power Safety	3
CE Certification	3
FCC Certification	4
RoHS Notice	4
Instructions for disposal of WEEE by end users in the European Union	4
Electromagnetic Compatibility	5
Package Contents	5
Front Panel Controls and Connectors	6
Rear Panel Controls and Connectors	8

Safety Information

General Safety

- Read these instructions carefully
- Keep these instructions
- Heed all warnings
- Follow all instructions
- Do not use this apparatus near water
- Clean only with a dry cloth
- Do not block any ventilation openings and install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of a grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades with a third grounding prong. The wide blade or the 3rd prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories recommended by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.
- Do NOT modify this unit, alterations may affect performance, safety and/or international compliance standards.
- Cranborne Audio does not accept liability for damage caused by maintenance, repair or modification by unauthorised personnel.

Installation notes

- When installing the apparatus either fit it into a standard 19" rack or place it on a secure level surface.
- If the unit is rack mounted, fit all rack screws.
- When rack mounting, allow adequate ventilation above and below the unit to enable cooling.
- Ensure that no strain is placed on any cables connected to this apparatus. Ensure that all such cables are not placed where they can be stepped on, pulled, or tripped over.



WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

ATTENTION: Afin de réduire les risques de choc électrique, ne pas exposer cet appareil à l'humidité ou à la pluie.

Power Safety

- The unit is supplied with an internal power supply and suitable mains lead. Only use the supplied mains lead, however if you decide to use a mains lead of your choice, bear in mind the following:
 - Refer to the rating label of the unit and always use a suitable mains cord.
 - The unit should ALWAYS be earthed with the earth on the IEC socket.
 - Please use compliant 60320 C13 TYPE SOCKET. When connecting to supply outlets ensure that appropriate sized conductors and plugs are used to suit local electrical requirements.
 - Maximum cord length should be 4.5m (15')
 - The cord should bear the approval mark of the country it is to be used.
- Connect only to an AC power source that contains a protective earthing (PE) conductor.
- Only connect the unit to single phase supplies with the neutral conductor at earth potential.

GB The apparatus shall be connected to mains socket outlets with a protective earthing connection.

DEN Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

FIN Laite on lilettävä sojamaadoituskoskettimilla varustettuun pistorasiaan.

NOR Apparatet må tilkoples jordet stikkontakt.

SWE Apparatens skall anslutas till jordat uttag.



ATTENTION: Un-earthed metal parts may be present inside the enclosure. No user serviceable parts inside - to be serviced only by qualified personnel. When servicing, disconnect all power sources before removing any panels.

CE Certification



This unit is CE compliant. Note that any cables supplied with Cranborne Audio equipment may be fitted with ferrite rings at each end. This is to comply with the current regulations and these ferrites should not be removed.

FCC Certification

- Do not modify this unit! This product, when installed as indicated in the instructions contained in the installation manual, meets FCC requirements.
- Important: this product satisfies FCC regulations when high quality shielded cables are used to connect with other equipment. Failure to use high quality shielded cables or to follow the installation instructions may cause magnetic interference appliances such as radios televisions and will void your FCC authorisation to use this product in the USA.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

RoHS Notice

Cranborne Audio complies with and this product conforms to European Union's directive 2011/165/EU on Restrictions of Hazardous Substances (RoHS) as well as the following sections of California law which refer to RoHS, namely sections 25214.10, 25214.10.2, and 58012, Health and Safety Code Section 42475.2, Public Resources Code.

Instructions for disposal of WEEE by end users in the European Union



The symbol shown here, which is on the product or on its packaging indicates that this product must not be disposed of with other waste. It is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for recycling waste electrical equipment and electronic equipment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



WARNING: cancer and reproductive harm -
www.P65Warnings.ca.gov



Evaluation of apparatus based on altitude not exceeding 2000m. There may be some potential safety hazard if the apparatus is operated at altitude exceeding 3000m.



Evaluation of apparatus based on the temperate climate conditions only. There may be some potential safety hazard if the apparatus is operated in tropical climate conditions.

Electromagnetic Compatibility

EN 55032:2015, Class B, EN 55016-2-1:2009 A1 2011, EN 55016-2-3:2010 A1 2010, EN 55035:2017, EN 61000-4-2:2009, EN 61000-4-3:2006 A1 2008 A2 2010, EN 61000-4-4:2012, EN 61000-4-5:2014 A1 2017, EN 61000-4-6:2014, EN 6100-4-11:2004 A1 2017, EN 61000-3-2:2014, EN 61000-3-2:2013, FCC Part 15B Class B, ANSI C63.4:2014, ICES-003 Issue 6: Class B

Audio input and output ports are screened cable ports and any connections to them should be made using braid-screened cable and metal conductor shells in order to provide a low impedance connection between the cable screen and the equipment.

WARNING: Operation of this equipment in a residential environment could cause radio interference.

Environmental

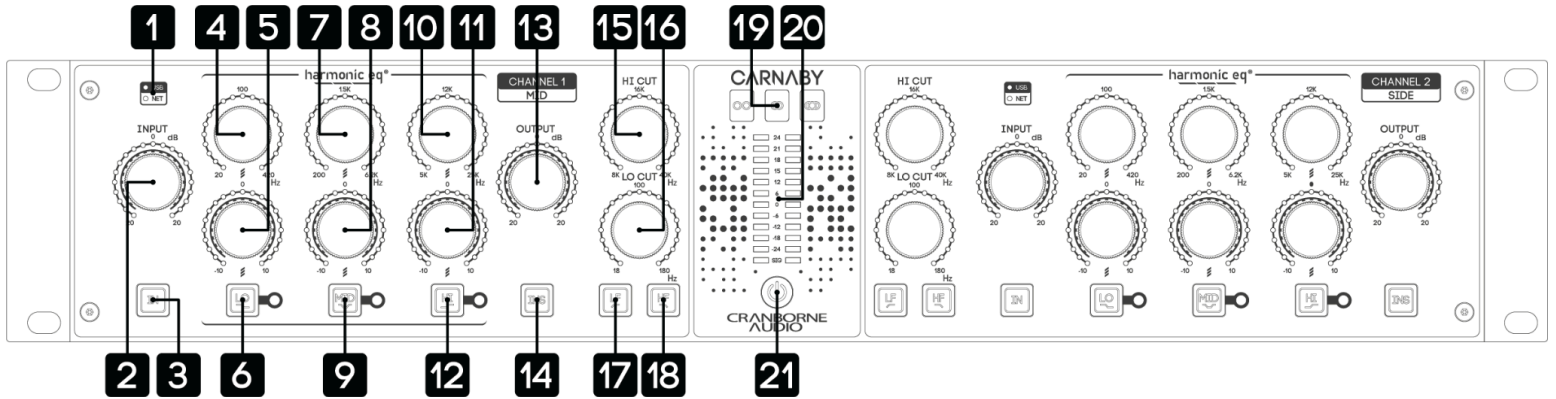
- Operating Temperature: +1 to 30 degrees Celsius.
- Storage: -20 to 50 degrees Celsius.

Package Contents

So now your Carnaby HE2 is out of its packaging, you're probably itching to get it powered on and making music! But before you get started, please read the sections below that will help guide you through the process of setting up Carnaby HE2.

The following items can be found in the packaging alongside Carnaby HE2:

- IEC power cable
- Allen key (2mm)
- Quickstart/User Guide

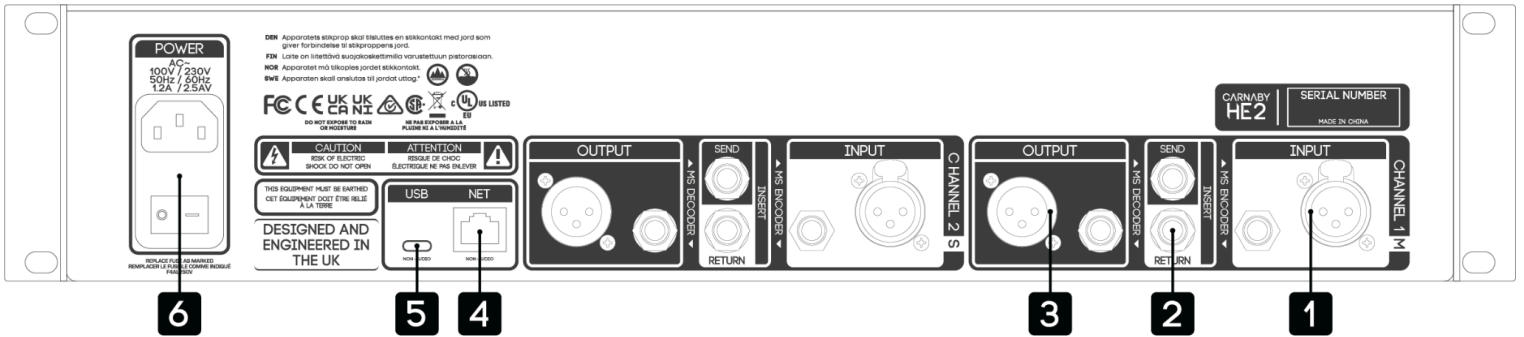


Front Controls and Connectors

<p>[1] USB/Net Indicators: Showing when data is travelling over the USB and/or Net ports.</p>	<p>[5] Lo Level Control: [±10dB, 0.5dB steps] Adjusts up to 10dB of boost/cut for the low shelf filter at the frequency set using the Lo Frequency Control [4]. This control progressively increases the amount of harmonic saturation added to the signal above the selected frequency in boost and cut positions.</p>
<p>[2] Input Level Control: [±20dB, 1dB steps] Adjusts the input level and internal saturation circuits. Set around 0dB for nominal settings or push higher for more harmonic saturation.</p>	<p>[6] Lo Band Bypass Button: Engages & disengages the Lo Band for processing.</p>
<p>[3] IN Button: Acts as a bypass control for Carnaby HE2.</p>	<p>[7] Mid Frequency Control: [200Hz - 6.2kHz] Adjusts the mid-point frequency of the mid peaking filter and sets the start frequency where the harmonic saturation is filtered into the dry signal.</p>
<p>[4] Lo Frequency Control: [20Hz - 420Hz] Adjusts the corner frequency of the low frequency shelf filter and sets the start frequency where the harmonic saturation is filtered into the dry signal.</p>	<p>[8] Mid Level Control: [±10dB, 0.5dB steps] Adjusts up to 10dB of boost/cut for the mid peaking filter at the frequency set using the Mid Frequency Control [9]. This control progressively increases the amount of harmonic saturation added to the signal within the selected frequency in boost and cut positions.</p>

Front Controls and Connectors (cont.)

<p>[9] Mid Band Bypass Button: Engages & disengages the Mid Band for processing.</p>	<p>[16] Lo Cut Filter: Progressive slope high-pass filter. 1st order 6db per octave, 2nd order 12db per octave, 3rd order 18dB per octave. -3db, 8kHz -40kHz. [-3db, 18kHz-180Hz]</p>
<p>[10] Hi Frequency Control: [5kHz - 25kHz] Adjusts the corner frequency of the high frequency shelf filter and sets the start frequency where the harmonic saturation is filtered into the dry signal.</p>	<p>[17] LF Bypass Button: Engages and disengages Hi Cut Filter [15].</p>
<p>[11] Hi Level Control: [±10dB, 0.5dB steps] Adjusts up to 10dB of boost/cut for the high shelf filter at the frequency set using the HI FREQUENCY CONTROL [7]. This control progressively increases the amount of harmonic saturation added to the signal above the selected frequency in boost and cut positions.</p>	<p>[18] HF Bypass Button: Engages and disengages Lo Cut Filter [16].</p>
<p>[12] Hi Band Bypass Button: Engages & disengages the Hi Band for processing.</p>	<p>[19] Function Button: Selects between Carnaby HE2's (L-R) Dual Mono, Stereo & Mid/Side functions.</p>
<p>[13] Output Level Control: [±20dB, 1dB steps] Adjusts the output level of the module post processing. Set in accordance with the Input Level Control [2] to maintain unity through the module.</p>	<p>[20] 12 Segment LED Meter</p>
<p>[14] Insert Button: Engages & disengages the Carnaby HE2 Insert.</p>	<p>[21] Power Switch: Safely powers on and off Carnaby HE2. Tap to power on, press and hold to power off.</p>
<p>[15] Hi Cut Filter: Progressive slope low-pass filter. 1st order 3db per octave, 2nd order 6db per octave, 3rd order 12dB per octave. [-3db, 8kHz-40kHz]</p>	



Rear Connectors

<p>[1] Channel Input: Connects balanced XLR or 1/4" live-level analogue inputs into HE2.</p>	<p>[4] Net Input: Network Control via VST/AU/AAX will be available.</p>
<p>[2] Channel Insert Send/Return: Connects external equipment in-line for processing by HE2. Post input level & pre output level Utilises a standard Y-split or insert cable. (Tip=send, Ring=return).</p>	<p>[5] USB port: Used only for software updates and non-audio purposes such as external control & digital recall via VST/AU/AAX plugin will be available. Cannot be used as an audio interface.</p>
<p>[3] Channel Output: Sends balanced, line-level output for connection to external converters and equipment.</p>	<p>[6] Power: Provides Carnaby HE2 with power via the provided IEC AC power cable.</p>

For more information and guidance, please read your devices' User Manual or visit the Cranborne Audio website:

www.cranborne-audio.com