+44 (0) 1622 721 444 info@chordelectronics.co.uk chordelectronics.co.uk

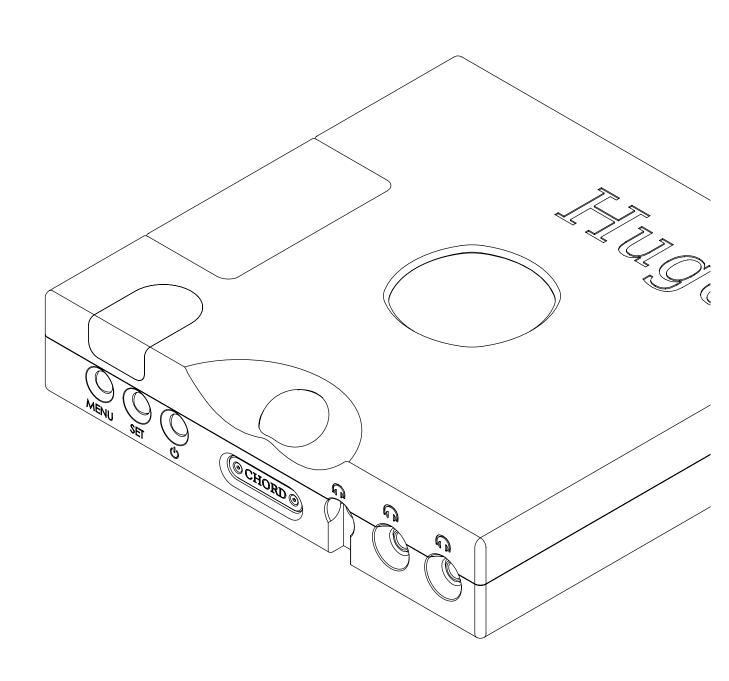
Hugo TT 2

Manual

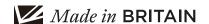
V.1.7



Chord Electronics Ltd.







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0.0 Contents

Safety instructions

1.0

- 1.1 Introduction
- 1.2 Protection against liquids & heat
- 1.3 Dismantling & Radio Frequency interference
- 1.4 Connecting your equipment

1.0 Safety instructions

interference
1.4 Connecting your equipment

Introduction

1.1



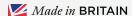
The Hugo TT 2 is an incredibly powerful and versatile digital-

to-analogue converter and pre/ headphone amplifier.

Before operation, we strongly advise you read this User Manual thoroughly.

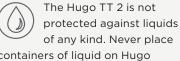
We also recommend that you store this User Manual, along with your original receipt of purchase, in a safe place should you require assistance in the future.





Protection against liquids & heat

1.2



containers of liquid on Hugo TT 2. Never allow Hugo TT 2 to come into contact with moisture or liquids; doing so could result in electrocution or damage to the Hugo TT 2's internal circuitry.

Be aware that liquids, including water that has dried, can leave minerals that can affect the PCB and other components, which could eventually lead to oxidisation and short-circuiting.

If the Hugo TT 2 comes into contact with moisture or liquids, immediately disconnect from the mains power supply, and connected equipment, and contact Chord Electronics for further advice.



The Hugo TT 2 has internal thermal protection which will

shut down the unit in the event of excessive temperatures being reached. Never operate the Hugo TT 2 near sources of heat or naked flames as this will decrease the lifespan of the internal components.

It is advised that you do not operate the Hugo TT 2 in an area of direct sunlight or on top of significant heat-producing devices.

Please be aware that it is entirely normal for the Hugo TT 2 to become warm during use, particularly within a stacked configuration.

If you are concerned about the temperatures, please switch the device off using the front panel or consider a different placement.

Dismantling & radio frequency interference

1.3



There are no userserviceable components within the Hugo TT 2

or its power supply. Dangerous voltages/currents exist within the **Hugo TT 2** and its power supply, posing a severe risk of electrocution and/or fire.



Never attempt to open, dismantle or apply internal third-

party devices to it or insert anything other than the listed interconnects or headphone adapters within this user manual.

If the Hugo TT 2 develops a fault or the casework becomes damaged, immediately disconnect from the mains power supply and connected equipment, and contact Chord Electronics for further advice.

With a thick, solid aluminium chassis, the Hugo TT 2's casework largely protects the sensitive internal circuitry from radio frequency interference. However, for optimal performance, it is recommended that the following points are observed:



1. Consider placing the Hugo away from wireless routers.



2. Separate the Hugo TT 2 from amplifiers using toroidal transformers.



3. Operate mobile phones at a distance to avoid interference.



Although the Hugo TT 2 is largely shielded, it can generate radio

frequency interference that may have an effect on radio and television reception. If this occurs, please reconsider

your placement.

Connecting your equipment

1.4

Before connecting the Hugo TT 2 to any equipment, consult the manufacturer's user guide to confirm compatibility.

When connecting the Hugo TT 2 to any equipment please make sure that all devices are off, including the Hugo TT 2.

Once connected, switch all equipment on starting with the source and ending with the amplification.

Initially, operate the any connected equipment on its lowest gain setting and lowest volume setting, gently increasing to a comfortable listening level.

Never operate connected equipment to the Hugo TT 2 at excessive sound levels; permanent hearing damage and loss can occur.

The included 15V 4000mA power supply simply plugs into the Hugo TT 2.

If the power supply is prematurely disconnected Hugo TT 2 may still remain active for up to 15 seconds, however, this may cause damage to connected equipment.

Never disconnect the power cable during operation. Only disconnect when Hugo TT 2 is off. If the power cable is disconnected during o peration there is a risk of damage to connected equipment.



Warranty

2.0

- 2.1 Warranty period & registering your purchase
- 2.2 Making a claim & warranty exclusions

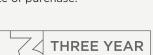
2.0 Warranty

Warranty period & registering your purchase

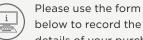
2.1

At point of sale, Chord Electronics Ltd. provides Hugo TT 2 with a comprehensive three-year warranty* which covers defects in materials and workmanship through fair wear and tear. The warranty will be void if any other PSU other than that supplied is used.

*The warranty is transferable with proof of purchase, however, warranty on ex-demonstration units begins from the retailer's date of purchase.



WARRANTY



details of your purchase in the event that these are required at a later date, we further advise that all purchases are registered with Chord

Electronics at: chordelectronics. co.uk/register-product/

RETAILER:	
PURCHASE PRICE:	
UNIT COLOUR:	
DATE OF PURCHASE:	
TRANSACTION ID:	

Making a claim & warranty exclusions

2.2

In the unlikely event of a claim, you must provide Chord Electronics with the details of the claim, including your original proof of purchase and serial number in order to validate the nature of the repair.

Upon receipt, Chord Electronics will make an assessment within 30 days and provide a reasonable solution.

All warranty repairs must be carried out by Chord Electronics or an approved service centre to guarantee the quality and safety of the repair.

WARRANTY EXCLUSIONS: The warranty does not cover connected equipment, personal injury or development natural patina of the metalwork and will be null and void if the following is applied: wilful neglect; modification or tampering of the product; improper use of the product; acts of God; damage caused by a connected device; mechanical shock; fire or application of excessive heat or repair/modification by a nonauthorised third-party vendor.

Getting to know Hugo TT 2 3.0

- 3.1 Getting to know Hugo TT 2 & drivers
- 3.2 The front panel
- 3.3 The top panel
- 3.4 The rear panel
- 3.5 The remote control

3.0 Getting to know Hugo TT 2

Getting to know Hugo TT 2 & drivers

The Hugo TT 2 is an extraordinarily powerful leading-edge DAC/preamplifier/ headphone amplifier featuring multi-award-winning FPGA technology plus supercapacitor energy storage.

With the Hugo TT 2 the possibilities are endless.

To get the very most out of the device for many years ahead, we recommend familiarising yourself with this user manual.



3.1

DRIVERS: The Hugo TT 2 is driverless with Mac OS X and Linux operating systems and only requires drivers for Windows.



These can be found on the product page at: chordelectronics.co.uk

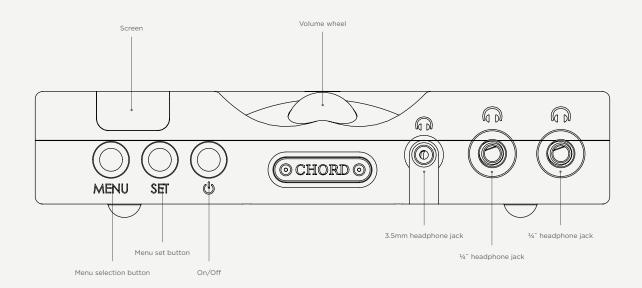


The front panel

3.2

Whilst an IR remote control is supplied, the front panel of the Hugo TT 2 is the main user interface and can entirely control all user-configurable options, inputs and volume.

There are an additional three headphone outputs which require no additional amplification for headphones up to and exceeding $800\Omega.$



The top panel

3.3

In addition to the front panel features, the top panel of the device gives visual feedback for the sample rate of the incoming audio file being played using a polychromatic scale illuminated via the looking glass.

The acrylic portion of the toppanel is not only an attractive detail, but houses the aerial for high-resolution Bluetooth playback.



3.3 The top panel3.4 The rear panel

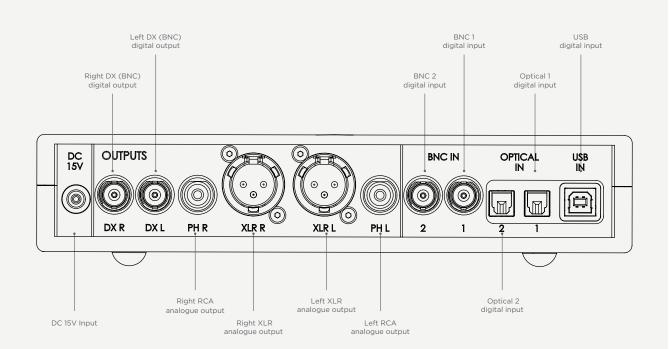
3.5 The remote control

The rear panel

3.4

The rear panel offers a comprehensive connectivity suite, featuring both standard connections and those which are used with other Chord Electronics' devices.

When installing any cable, you must make sure that they securly click into place, especially optical.



WARNING: Do not use any other power supply other than that supplied. Doing so will invalidate your warranty.

The top panel

3.4 The rear panel3.5 The remote control

The remote control

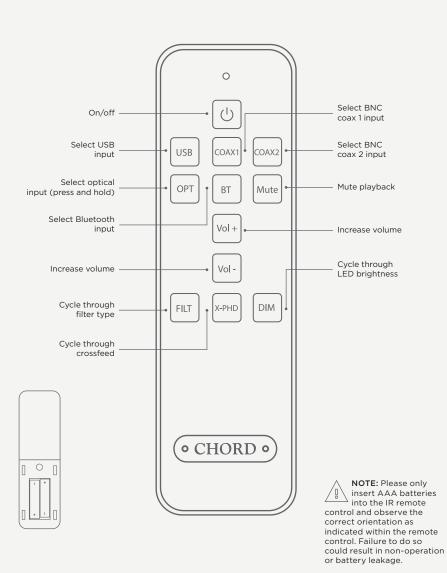
3.5

For convenience, a branded infra-red remote control is included with the device.

The remote will operate up to a distance of 10 metres with clear line-of-sight to the infra-red receiver within Hugo TT 2, which is located below the looking glass.

For best operation, do not operate the Hugo TT 2 within a cabinet or place other materials/ devices on top of the device.

Selecting optical input via remote: A single press of the OPT button will select the previously selected optical input. A longer press of 3-seconds will switch to the next optical input.



Setting up Hugo TT 2 4.0

- 4.1 Placement
- 4.2 Connecting Hugo M Scaler to Hugo TT 2
- 4.3 Connecting HugoTT 2 to pre-amp or amplifer

4.0 Setting up Hugo TT 2

Placement

4.1

Whilst the Hugo TT 2 will operate normally within a stack of other Chord Electronics' Table Top (TT) components, it is recommended that the device is allowed to 'breathe'.

Allocating 10cm of space around it to convection-cool during operation is advised.

As the infra-red remote control requires a direct $^{f \lambda}$ line of sight to the viewing portal, avoid placing objects on top of the Hugo TT 2 or placing it within enclosures.



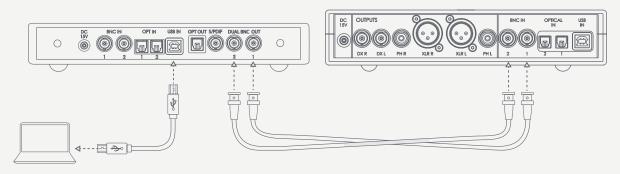
Connecting Hugo M Scaler to Hugo TT 2

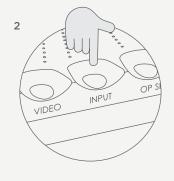
Connecting Hugo M Scaler to Hugo TT 2

4.2

You must connect your sources digital output to one of the M-scalers inputs, for example, computer via USB or CD transport via BNC, M Scaler's output can then be connected to Hugo TT 2 via DUAL BNC

Ensure you have selected the correct 'input' on the front panel of the Mscaler, purple is 'automatic'. Please follow the step-by-step guide on the following page for complete setup.





3 Input selection colours

COLOUR	INPUT
	USB
	BNC 1
	BNC 2
	Optical 1
	Optical 2
	Automatic
	Dual BNC

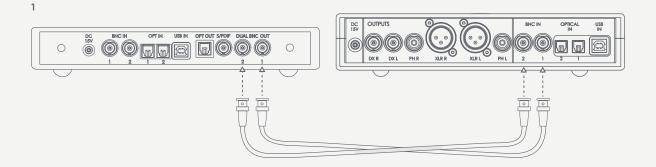
Connecting Hugo M Scaler to Hugo TT 2

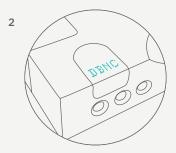
4.2

Using the supplied BNC cables, it is simple to connect the Hugo M Scaler to the Hugo TT 2:

- 1) Turn off the Hugo M Scaler, Hugo TT 2 and any other connected equipment
- 2) Locate BNC Output 1 on the Hugo M Scaler and connect to BNC Input 1 on Hugo TT 2
- 3) Locate BNC Output 2 on the Hugo M Scaler and connect to BNC Input 2 on Hugo TT 2

- 4) Turn on all equipment, including the Hugo M Scaler and Hugo TT 2
- 5) Cycle through the inputs on Hugo TT 2 until 'DBNC' is displayed
- 6) Connect the output of the digital source to the digital inputs of the Hugo M Scaler





Connecting Hugo M Scaler to Hugo TT 2

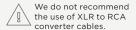
Connecting HugoTT 2 to pre-amp or amplifer

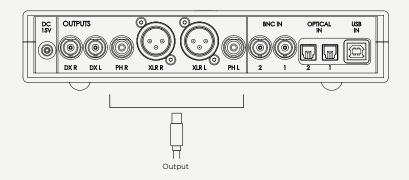
4.3

To connect Hugo TT 2 to a preamp, integrated or power amp, you should connect the outputs of Hugo TT 2 to the inputs of your preamp, integrated or power amp;

- 1) Locate the outputs on the back of the unit shown below.
- 2) Paying close attention to the left and right channels, insert the cables in to Hugo TT 2.
- 3) Ensure the cables click into the connectors securely.

- 4) Using the Menu and set buttons, cycle through the inputs on Hugo TT 2 until 'DAC' or 'AMP' is displayed on the screen (see section 7 for more information)
- 5) Please do not connect both XLR & RCA to amplifiers simultaneously, this will damage TT 2.





How to navigate the menus

5.0

- 5.1 The screen & navigating the menu
- 5.2 The volume ball & its colours and the Sample rate indicator

5.0 How to navigate the menus

The screen & navigating the menu

5.1



THE SCREEN:

For optimal audio performance, the screen

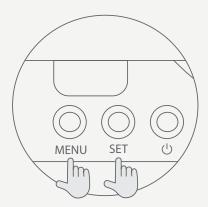
of Hugo TT 2 is designed to time out 10-seconds after a period of inactivity. It will be reactivated after a button is pressed on the remote control, or after a menu button is pressed.

The sample rate will continue to illuminate, along with the volume ball unless amplification mode has been activated.

THE MENU: To advance your way through the menu of Hugo TT 2 you may press the 'MENU' button until your chosen setting is displayed. To cycle through the available settings please press the 'SET' button.

Once the 'SET' button is pressed, you do not have to press any other button, the mode will be activated.





The Volume ball & its colours and the Sample rate indicator

5.2

VOLUME: The volume ball on the front of the unit is responsible for attenuating the signal and providing visual feedback of the range that it is configured to. Hugo TT 2 will remember your previously used volume settings if the unit is switched off.

To reduce the level lightly press and roll the ball to the left, and to raise the level lightly press and roll the ball to the right.

Whilst changing the volume the exact level will be displayed on the screen, and the colour of the ball will change through a polychromatic scale as pictured below.

SAMPLE RATE INDICATOR:

During playback, the sample rate will be indicated temporarily on the screen and within the viewing glass which can be found on the top of Hugo TT 2.

Hugo TT 2 is capable of playing files up to 768kHz 32-bit and DSD 512. This is indicated by the following colours:



NOT SEEING A CHANGE IN COLOUR FOR SAMPLE RATE?

If you are unable to see the associated change during playback, this is due to your music playback application, or audio sample rate settings, or not sending the appropriate sample rate through to Hugo TT 2.

Please consult your music playback application user manual for more information.



Sample frequencies in kHz



Gain range and input

6.0

- 6.1 Gain range
- 6.2 Input

6.0 Gain range and input

Gain range

6.1

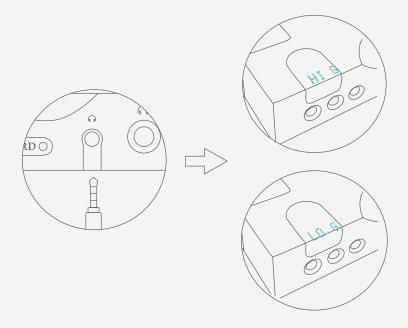
Hugo TT 2 has a variety of settings to suit various equipment and environments. Please take a moment to familiarise yourself with their meanings and how they may impact your experience.

Before connecting Hugo TT 2 to any equipment it is highly recommended that you manually configure the device to operate in low gain range. The gain ranges are represented as LO G (low gain) or HI G (high gain). Low gain is -9dB lower, or times 0.35. The output voltage at both gain levels is 4.3 V RMS at OdB.

Gain range is only available when Amplification, or Headphone mode is selected, as when DAC mode is enabled the option will send a fixed 2.5 V RMS output and not offer any user selectable range.

When changing from GAIN mode the outputs are muted for 16 seconds as the analogue is reinitialised. The display will show the mode set during this period. When the volume is displayed, then H (high gain) L (low gain) is shown on the display together with the volume setting in dB.

Warning: Hugo TT 2 is capable of delivering huge amounts of output power whilst in this mode never dramatically increase volume. Doing so could be a risk to your equipment and your hearing!



Inputs, sample rates & DSD labeling

6.2

Hugo TT 2 has a total of 6x digital inputs, 1x digital outputs and 5x analogue outputs (not independently controlled).

Where DSD is played back, Hugo TT 2 will display the following:

DSD 1 = DSD 64

You can use the menu to navigate through these inputs, but please use the table below to familiarise yourself with the available sample rates: DSD 2 = DSD 128

DSD 4 = DSD 256

DSD 8 = DSD 512

USB*	44.1kHz to 768kHz 16bit to 32bit - DSD 64 to DSD 256 (DoP interface), 16bit to 32bit - DSD 64 to DSD 512 (native USB interface)
BNC 1	44.1kHz to 384kHz 16bit to 24bit
BNC 2	44.1kHz to 384kHz 16bit to 24bit
Optical 1	44.1kHz to 192kHz 16bit to 24bit
Optical 2	44.1kHz to 192kHz 24bit
Bluetooth	АРТХ
Dual BNC**	Special operation - DBNC: 88.2kHz to 768kHz 24bit

 $^{^*}$ USB is natively compatible with all Mac OS X and Linux machines without the use of drivers. Windows machines may require a driver, available on the Chord Electronics website.

^{**}Dual BNC is reserved for special operation with Chord Electronics partnering products. Dual BNC does not appear within the menu by default, it will only appear when successfully connected to a partnering product.

Playback modes

7.0

- 7.1 Playback modes
- 7.2 Headphone mode
- 7.3 Amplification mode
- 7.4 DAC mode

7.0 Playback modes

Playback modes

7.1

Hugo TT 2 has three userselectable modes tailored to the intended operation for the device: Headphone mode, Amplification mode and DAC mode.

When headphones are connected to Hugo TT 2, for protection, the device will enter Headphone Mode where only the headphone outputs are enabled. It will not be possible to manually deselect this; only removing the headphones will disengage this mode.

When headphones are disconnected, it is possible to navigate between Amplification Mode or DAC Mode by pressing the 'MENU' button found on the front panel of the device until either 'AMP' or 'DAC' is displayed. Pressing 'SET' will cycle between and engage each mode.







DAC mode



Amplification mode

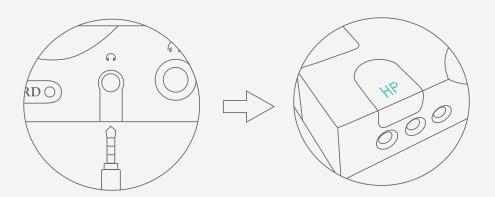
WARNING: For the protection of your hearing and equipment, please do not navigate between the AMP and DAC without disconnecting Hugo TT 2 from any other device or a source of music.

Headphone mode

7.2

When the Hugo TT 2 detects that headphones have been inserted into one of the three front-panel connectors, the device will enter Headphone Mode, which is for headphone listening only.

When this mode is entered, the Hugo TT 2 will remember the last-used settings (including volume) and will effortlessly drive any impedance headphones including but not limited to 16Ω to $800\Omega s$, without the need for an external headphone amplifier.



WARNING For your protection, when headphones are connected to the Hugo TT 2, you will be unable to manually exit Headphone mode until they are disconnected.

Amplification mode

7.3

Providing headphones are not connected to the Hugo TT 2, Amplification Mode can be manually engaged.

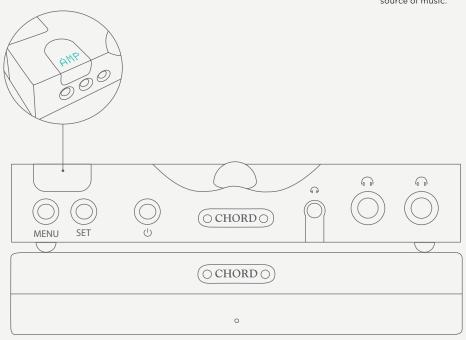
Amplification Mode utilises the Hugo TT 2's digital preamplifier, enabling the volume/output level to be controlled via the volume wheel, or remote control.

Please note that once the Hugo TT 2 enters Amplification Mode, 8W on RCA and 20W on XLR, the rated spec is 7W/8 RCA and 18/8 (XLR balanced).

This enormous power reserve is available thanks to a very high power discrete output stage and super-caps to supply huge dynamic currents.

In most circumstances, where a simple attenuation of the 3V line-level signal is required to match a preamplifier, or power amplifier, you must operate the Hugo TT 2 in Low Gain mode and significantly reduce the volume before raising to a comfortable listening level.

> WARNING: For the protection of your hearing and equipment, please do not navigate between the AMP and DAC without disconnecting Hugo TT 2 from any other device or a source of music.



DAC mode

7.4

With headphones disconnected, DAC Mode is selectable. DAC Mode can be employed when used within a conventional audio system, where an external amplifier is present. When this mode is selected, a 2.5V via RCA and 5V via XLR Line-Level signal will be present on the outputs

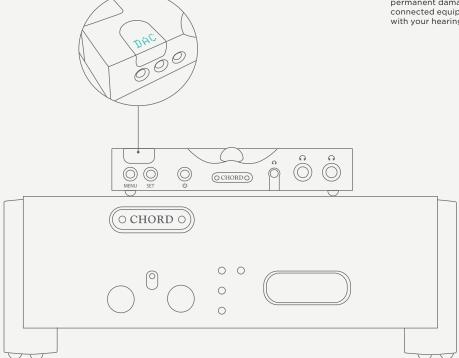
As the output level is fixed within DAC Mode, the Volume ball (and remote control volume) will no longer respond and will no longer illuminate.

Before connecting the Hugo TT 2 to other components, for example a preamplifier or amplifier, please consult the respective user manuals, as they may require a signal less than 2.5V - 5V RMS to provide optimum performance. If you require a line-level signal, less than 2.5V - 5V, please use Amplification Mode in low gain mode and attenuate the signal as appropriate.

When changing from DAC/AMP mode the outputs are muted for 16 seconds as the analogue is reinitial-ised. The display will show the mode set during this period.

> **NOTE:** As the output level is fixed on this mode, the volume ball will become unresponsive and will no longer illuminate.

WARNING: Never connect any device incapable of attenuating a line level signal to Hugo TT 2 in DAC Mode. Doing so could result in permanent damage to any connected equipment, along with your hearing.



Special features

8.0

- 8.1 Crossfeed (XFD) & Filters (FIL)
- 8.2 Display dimming, settings memory, supercapacitors & galvanic isolation
- 8.3 Display messages

8.0 Special features

8.2 Display dimming, settings memory, supercapacitors & galvanic isolation

Crossfeed (XFD) and Filters (FIL)

8.1

CROSSFEED: Crossfeed is a form of digital processing that blends the left and right channels of a stereo recording to achieve a speaker-like presentation during headphone-listening. It is also a separately configured option when not in Headphone Mode.

The Hugo TT 2 has four available modes of Crossfeed, shown as XFD

on the display:

XFD0: No crossfeed.
XFD1: Minimal crossfeed.
XFD2: Moderate crossfeed.
XFD3: Broad crossfeed.

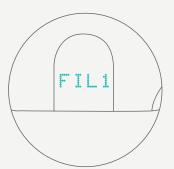
FILTER: The Hugo TT 2 has the ability to alter the way in which it processes and filters the incoming audio data, which, in turn, has a multi-faceted effect on the presentation of audio. These modes can be especially useful with DSD recordings.

FIL1 - Incisive neutral: the default filtering characteristic; the absolute reference.

FIL2 - Incisive neutral with HF roll-off: contains the same fundamental filtering characteristics of FIL1, however, the HF filter is intended to remove the HF noise from HD (88.2 to 768 kHz) recordings.

FIL3 - Warm: a secondary filtering characteristic for the Hugo TT 2 with a subtle warming tonality.

FIL4 - Warm with HF roll-off: contains the same fundamental filtering characteristics of FIL3, however, the HF filter is intended to remove the HF noise from HD (88.2 to 768 kHz) recordings.



8.2 Display dimming, settings memory, supercapacitors & galvanic isolation

Display dimming, settings memory, supercapacitors & galvanic isolation

8.2

DISPLAY DIMMING: For darker environments, bright LEDs may present a challenge, therefore, Hugo TT 2 offers two brightness settings that can be toggled between within the settings menu;

Full - DIM1: Absolute brightness, designed for well-lit rooms.

Low - DIM2: Low brightness, perfect for dimly lit environments.



Absoloute brightness



Low brightness



SETTINGS MEMORY: The Hugo TT 2 remembers previous settings, includ-

ing volume and filters, even when powered down (or with the power supply removed). You do not have to perform any special actions.



SUPERCAPACITOR ENERGY STORAGE:

The Hugo TT 2 uses a bank of six supercapacitors within the power supply unit. The supercapacitors are capable of delivering huge linear dynamic currents with a peak output of 5A and 9.3V RMS.

Therefore, please respect the output power of Hugo TT 2 and, once all equipment is correctly connected, gently increase the volume until sufficient. Never overload a device with power.



GALVANIC ISOLATION:

Galvanic isolation involves isolating the

power rails of the data USB input, allowing for greater sonic performance. The Hugo TT 2 features a Class 2 Type-B USB input with this protection. No special attention or cables are required to allow it to however, the USB +5V VBUS must be connected and powered, as the USB decoder device is powered from this line.

8.1 Crossfeed (XFD) & Filters (FIL) 8.3 Display messages
8.2 Display dimming,
settings memory,
supercapacitors & galvanic
isolation

Display messages

8.3

During use of Hugo TT 2 you may encounter a number of on-screen display messages. Please use the graph to discover their meanings.

P LO	Power input has too low voltage
P HI	Power input has too high voltage
OT L	Over temperature left - check cabling for short circuits
OT R	Over temperature right - check cabling for short circuits
OT F	The FPGA has exceeded maximum temperature - please improve ventilation
DC L	DC has been detected on digital input, left. If present with no digital source a fault has been found.
DC R	DC has been detected on digital input, left. If present with no digital source a fault has been found.
CHG	Hugo TT 2 is charging the super-capacitors
STBY	Hugo TT 2 is entering standby mode
НР	Headphone mode is entered
DAC	DAC mode is entered
DSD1	DSD 64 is playing back
DSD 2	DSD 128 is playing back
DSD 4	DSD 256 is playing back
DSD 8	DSD 512 is playing back
AMP	Amplifier mode is entered
XIP	No input detected



RED Declaration of Conformity

We, Chord Electronics Ltd, a company trading under the laws of the UK, having its principal place of business at The Pumphouse, East Farleigh, Kent, UK hereby

declare under our sole responsibility that our product containing wireless radio modules with trademark of Chord Electronics Ltd and with model name of

HugoTT2

to which this declaration relates, conform with the essential and other relevant requirements of the Radio Equipment Directive (RED) 2014/53/EU. Specifically, but not limited, to the following harmonized standards and/or documents:

SAFETY of information and communication technology equipment (Article 3.1(a))

EN 62368-1:2014+A11:2017

EMC for broadband data transmission systems (Article 3.1(b))

- EN 301 489-1 v2.2.3 and EN 301 489-17v3.2.4
 - Radiated Radio Frequency Electromagnetic Field Immunity, EN 61000-3-2:2019 + A1:2021

SPECTRUM for wideband transmission systems in 2.4 GHz ISM band (Article 3.2)

- ETSI EN 300 328 v2.2.2 (2019-07)
 - o RF output power
 - Accumulated Transmit Time, Frequency Occupation and Hopping Sequence
 - o Hopping Frequency Separation
 - o Occupied channel bandwidth
 - o Transmitter unwanted spurious emissions in the out-of-band and spurious domains
 - o Receiver spurious emissions
 - o Receiver blocking

Supplementary information:

- Technical File held by: Chord Electronics Ltd UK

Place and date of issue:- East Farleigh, Kent, UK 31st August 2022

Senior Contact: Matthew Bartlett Job Title: Managing Director

compliance@chordelectronics.co.uk



Chord Electronics Ltd.

