

Instruction Manual

Hugo TT

Desktop Headphone amplifier with Advanced DAC

Thank you for purchasing the Chord HugoTT. In order to get the most from your product, please take a few moments to read the instructions.

The HugoTT is an advanced desktop headphone amplifier and state of the art FPGA DAC with our latest WTA filter algorithm. HugoTT supports PCM formats up to 384kHz. It will also play DSD64 and DSD128 in DoP format.

Complete power isolation is assured by the use of rechargeable batteries with the addition of super capacitors to smooth out the instantaneous power demands. HugoTT was made for desktop use and will work wirelessly via bluetooth or can be connected via USB to give a direct digital audio signal as found on many devices and computers. You can also connect with BNC coax digital input, Optical TOSLink input and full sized B type USB inputs for both SD (up to 16 bit 48KHz) & HD (32 bit 384KHz & DSD).

HugoTT can be switched to line level output to connect into a preamplifier or used with its advanced volume control as a digital preamplifier directly into an amplifier. To complete the usability, HugoTT comes with remote control and display so the setup can clearly be seen across a room. HugoTT is a truly versatile piece of equipment to help enhance your listening experience.

Get to know HugoTT

HugoTT features several different inputs and output connections. Please choose the one that suits your source components.



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Operation

Turn on the power switch to the left, HugoTT will cycle through a sequence of colours and then be ready for operation. Select the input you wish to use and plug in your input cables and headphones, as appropriate. Adjust the volume to a comfortable listening level, the volume control will glow a range of colours from dark red for minimum volume, through to white for maximum volume.

Driver Installation

If you are using the high definition (HD) USB input with a Microsoft Windows™ Vista, 7 or 8 PC then you will need to install the driver software on the supplied memory stick. Before connecting to HugoTT, double click the driver file to open it and then click the setup file to start the installation process. Follow the screen prompts to complete the installation. Apple™ or Android™ platforms are driverless and do not require a driver to operate.

Bluetooth Input

HugoTT can play audio via a Bluetooth enabled device. HugoTT supports standard A2DP Bluetooth audio or the higher quality APTX Bluetooth Audio codec. Select the Bluetooth input indicated by a blue source light and BLTH on the display, then follow the instructions on your device to pair with HugoTT. The pairing code is 0000, if required.



Battery

Battery Life



Input



XFeed

When your battery LED starts to flash red, the device will become inactive and requires charging.
A white light will appear next to the crossfeed LED to indicate your device is charging.



suitable for all digital devices and computers



Colours blue to white provide high volume playback



Colours green to cyan provide mid volume playback



Colours red to yellow provide low volume playback



The colour white represents maximum volume.

Coax Input

Connect a coax digital signal to the BNC type coax socket and select the coax input indicated by the red source light and COAX on the display. This input can support sample rates from 44.1kHz to 384kHz.

Optical Input

Connect an optical digital signal to the TOSLink socket and select the optical input indicated by the green source light and OPT on the display. This input supports sample rates from 44.1kHz to 192kHz.

SD USB Input

The standard definition USB input allows media playback up to 16 bit 48kHz. This input does not require any drivers and will be compatible with all source components with a USB connection (USB drives and memory sticks are not supported).

Using an OTG (on the go) USB cable or the Apple™ Camera Connection Kit, HugoTT can be connected directly to a phone or tablet. This input supports sample rates from 44.1kHz to 48kHz.

Select the SD USB input indicated by the yellow source light and USBS on the display.

HD USB Input

The high definition (HD) USB input is the highest quality method of digital playback. This input is asynchronous and uses HugoTT's own highly accurate clock circuit. This input will support 384kHz PCM/DXD and also DSD64 and DSD128 in DoP format. No drivers are required for Apple™ and Android™ devices but for Microsoft Windows™, you must firstly load the drivers on the supplied memory stick. This input supports sample rates from 44.1kHz to 384kHz.

Select the HD USB input indicated by the white source light and USBH on the display.

Headphones

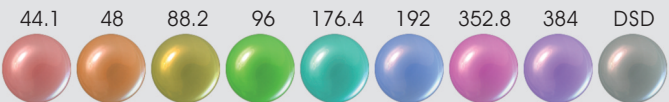
Up to three sets of headphones can be connected at the same time to share the listening experience. There are two 6.35mm jack sockets and a smaller 3.5mm socket. The high current output stage will work with headphone impedances as low as 4 ohms or up to several hundred ohms so there is no restriction on headphone choice or type.

Power Connection

HugoTT has been designed to be permanently connected to the AC power adapter. Plug in the supplied power adapter to HugoTT. The bright white charge light will illuminate through the lens. When fully charged (approx 5 hours) the charge light will switch off. It is safe to leave the power adapter connected continuously to charge and power HugoTT. The charge status is indicated by a colour changing LED under the lens, blue being fully charged and will change to green and red as the batteries discharge. When there is no power left, the light will flash red and the output will mute. If the AC power adapter is accidentally disconnected then HugoTT will continue to run from internal batteries but the power adapter should be reconnected as soon as possible. If the batteries are run down completely then HugoTT must be switched off then the AC power adapter reconnected. Leave HugoTT for at least 30 minutes to recharge before switching back on. **Please ONLY use the power adapter supplied. Using a non-genuine power adapter may void your warranty.**

Sample Frequency Lights

Each digital sample frequency received will cause Hugo to illuminate different colours to indicate correct operation. The key below shows which colour indicates the sample rate.



HugoTT with remote control

HugoTT remote functions



Volume keys



The up and down keys are to 'scroll' through the inputs manually



Numbers 1-5 select source inputs

- 1: USBH (HD USB)
- 2: USBS (SD USB)
- 3: OPT (Optical)
- 4: COAX (Coaxial)
- 5: BLTH (Bluetooth)



Mute outputs

The functions listed here have no use or compatibility with the HugoTT.



Crossfeed

There are three crossfeed modes that enhance the listening experience to give a more spatial 'out of the head' stereo sound field. Using advanced filtering and delay, the normal headphone stereo image is converted to give the effect of a much bigger sound stage as though you are listening to large loudspeakers or live music. The modes are indicated by the crossfeed light under the lens.

No light – Normal mode with no crossfeed, display will show NONE

Red light – Minimum crossfeed (9dB 700Hz), display will show MIN

Green light – Medium crossfeed (6dB 700Hz), display will show MED

Blue light – Maximum crossfeed (4.5dB 700Hz), display will show MAX

Line Level Volume Output

Press and hold the Crossfeed switch whilst turning on to activate line level volume output. The volume control will illuminate light blue. Using this mode, HugoTT can be used as a standalone DAC into a preamplifier with volume control. Please note the volume control is still active in this mode so the volume can quickly and easily be reduced, if necessary.

Warning! – Line Level Output Mode will set the volume on all outputs including the headphone outputs to full level. Do not plug in or use headphones when activating line level mode. To reset back to standard volume output, press and hold the crossfeed switch whilst turning on again.

Specifications

Inputs:

- 1 x Optical TOSLink 24-bit/192kHz-capable
- 1 x RCA coaxial input 24-bit/384kHz-capable
- 1 x Driverless USB input 16-bit/44/48kHz-capable
(designed for tablets/phones with no high resolution software)
- 1 x HD USB input 32-bit/384kHz and DSD128-capable
(phone/computer/tablet playback; driverless on Apple / Android)
(Requires driver installation on Microsoft Windows machines)
- 1 x A2DP/APTX Bluetooth 16-bit/44/48kHz-capable. Up to 5m range.

Outputs:

- 2 x 6.35mm headphone jacks
- 1 x 3.5mm (1/4-inch) headphone jack
- 1 x (pair) stereo RCA phono output
- 1 x Fully Balanced XLR connections

Power supply:

12V 0.5A

Dimensions:

235mm x 45mm x 225mm (width, height, depth)

Weight:

3Kg



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