Owner'sManual

STAR Pure DSD DAC

DIGITAL - ANALOG CONVERTER-MUSIC SERVER

DAC+ Music Server+Volume Control
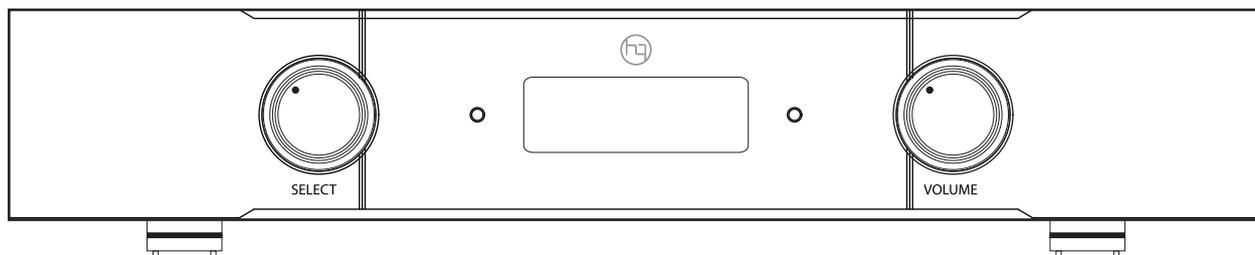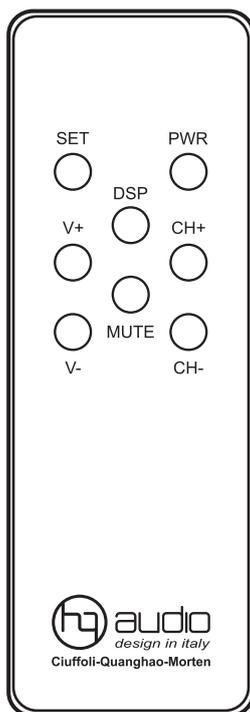
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USERSERVICEABLE PARTS INSIDE. REFER ERVICING TO QUALIFIED SERVICE PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Notice all warnings.

4) Follow all instructions.

5) Do not use this device near water.

6) Only clean with a dry cloth.

7) Do not block any ventilation openings. Install according to the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heating rods, stoves or other equipment (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarizing or grounding plug. A polarized plug has two blades with one larger than the other. The grounding plug has two blades and a third serial bar. Wide blades or third prongs are provided for your safety. If the supplied plug does not fit your socket, consult an electrician to replace the old socket.

10) Protect the power cord from being stepped on or pinched especially at the plug, power outlet and exit point of the device.

11) Use only the attachments / accessories specified by the manufacturer.

12) Use only with the cart, bracket, tripod, bracket or table specified by the manufacturer or sold with the device. When using a shopping cart, use caution when moving the cart / device combination to avoid injury from the beginning.

13) Unplug this device during lightning storms or when not in use for a long time.

14) Refer to all services for qualified service personnel. Service is required when the device is damaged in any way, such as a damaged power cord or plug, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture , does not work normally or has been removed.

Contents

Thank you for choosing Quang Hao Dac.

Read this guide carefully to get the best performance from this product.

Part I: DAC and advanced features

Some note:

 • **This device is designed for systems with input power: 220-230V AC.**

 • **Before installing this device, make sure your electrical outlet is safe enough, the devices in the system do not have electrical leakage, maybe the device will be damaged.**

 • **Do not place the device in or near places where the temperature and humidity are too high, as this may cause damage to the system.**

 • **When the power supply cord is broken, fire, break ... must ensure the correct type of wire with the current strength.**

 • **Should turn on the device before turning on the pre-amp system, amply, the system needs a certain time to boot and ready to use - about 2 minutes.**

 • **Do not place credit cards, lighters, or objects that are**

Connect and install

CAREFUL:

- Turn off the power for all devices before making a connection.

- Read the instructions of each component you plan to use with this device.

- Be sure to plug each plug securely. To prevent noise and noise, avoid the cable bundle that connects the signal with the AC power cord or speaker cable.

Network   **NAS**   **USB-MUSIC**   **Amplier**

ROUTER OUT

MUSIC FILES

USB MUSIC FILES

AUDIO IN (R)   AUDIO IN (L)

ethernet cable

USB cable

A

XLR cable   RCA cable   RCA cable   XLR cable

Connect XLR cables or RCA cables.

XLR pin assignment

1 2
1. COMMON
2. HOT (+)
3. COLD (−)
3

B

STAR PURE DSD DAC
MUSIC SERVER

Design in Italy

POWER

MUSIC SERVER

ETHERNET   USB 3.0   USB 2.0

DIGITAL INPUTS

COAXIAL   USB DAC   OPTICAL   AES/EBU

ANALOG OUTPUTS

RIGHT   LEFT

AC POWER ⚠ ZHI0N0S

C   **C**   **F**

Connected to Music server or computer

RCA coaxial digital cable   USB digital cable   Optical digital cable   XLR digital cable

D

Connect one of four cables.

RCA   USB   OPTICAL   XLR

CD, DVD, HD player, Computer

Wall outlet 220-230 VAC

Connect Music server to DAC

Music server   **DAC**

MUSIC SERVER

Ethernet   USB   USB

USB*A*Type   USB*B*Type

USB-A   USB-B

DIGITAL INPUTS

USB Input

STAR Pure DSD DAC is a special digital converter that does not use DAC chip including:

One DAC + one Music server + one Volume number with the most advanced features. Always decode DSD with: DSD x 1 to DSD x 8 with all different sampling inputs. STAR Pure DSD DAC optimizes digital music sources to bring the very natural sound quality, closest to the sound of vinyl records. STAR Dac brings convenience and savings to audio players as well as a markedly improved hi-end sound system.

Quang Hao products are designed in Italy and tested in Denmark, made in Vietnam.

Please read this User's Guide before installing and operating your device to make the most of its features.

Special characteristics and features

1- Do not use DAC chip.

2-Automatically receives input signals from 44kHz to DSD512.

3- Gain setting (amplified output signal): 0dB, + 6dB All, + 6dB DSD, + 12dB, + 18dB

4- Decode 4 DSD modes: DSDx1. DSDx2, DSDx4, DSDx8.

5- Analgue output balanced and unbalanced. Use transformer.

Signal input

1- Coaxial S/PDIF - RCA phono coaxial

2- Optical - TosLink optical

3- AES/EBU - balanced

4- I2S- trực tiụp tự Pi4 đụn DAC

5- USB 2.0 - Amanero USB

Output signal

1 x transformer SE - left and right channel

1 x Balance output- left and right channel

1 x DSD -32 bits Digital Volume Control

Operation features

Remote on / off

• Automatic detection / decoding of digital input.

• 4 modes DSD x 1, x 2, x 4, DSD x 8.

• Analog output and preset options.

• Infrared remote control cast aluminum.

• Music player for other decoders.

Front control function

POWER: turn on/off

VOLUME: up/down

SELECTOR:Select input digital

MUTE: Mute

Infrared control function

POWER: turn on/off

MUTE:

USB:

RCA: Select input Coaxial S/PDIF

XLR: Select input-balanced digital

OPT: Select input torxl

I2S: Select the input I2S- Muisc server Pi4

What is the difference between DSD and PCM?

DSD proved to be completely superior to PCM and compressed music formats both in terms of parameters and theoretical advantages. In addition, the DSD has a very high sampling frequency, so it is only necessary to use simple filters at low frequency during signal processing and decoding, similar to the filters in the speaker crossover. . Reducing the level of filtering will cause less difference in sound from the original. Only filtering the signal at a low frequency also helps the decoding process to achieve very high accuracy, less noise, noise and distortion, thereby producing sound with high, near-noise cleanliness like there's no background noise, the same static background.

In our audio performance tests, we are always looking to be sure of an objective result using many different people, systems, and ears. This means that the results here are not personal to me, to Andrea or Pavel Pogodin, and it is not as subjective as many other trials published online.

All tests done proved the validity of this adapter, it was much better than the Saber ES9018. The details are at the highest level, there is no fatigue while listening and the spatial reproduction is excellent.

In this design, we use CT7302 chip to receive input signals such as; Optical ports, spdf, aes, I2S, I2s-USB are diverse input options, with I2S output always on DSDx8- or DSD 512, and behind is FIF filter with R2R resistors (alternative) DAC chips), so the natural sound that most DAC chips do not have, excludes some classic chips like AD1865, PCM63, TDAC1541. This is a product combining classic and modern design, Quang Hao-Pavel Pogodin- Andrea hopes to bring you the most comfortable relaxing moments and enjoying the highest sound with the lowest investment cost. !!!

Music server

DAC incorporates Rasberry Pi4 to become a dedicated Music Server. Take advantage of endless digital music sources, especially DSD64,128, 256 formats that are very close to SA-CD sound. It is clear that time for using expensive CD packages and SA-CD is over.

This Music Server will let you choose the highest resolution audio files. Actually, DAC decodes all formats of digital music files up to DSD 512, and plays the best DSD 256.

Computer: RASPBERRY PI 4

Software: volumio

https://volumio.org/

Play all formats supported DSD256-512.

Play music from hard drive, from NAS drive ..

Listen to music over 100 radio stations in the world.

Play online music:

Airplay, Youtube, Spotify. Tidal, Google, Play Squeezelite and UPnP, Tidal, Qobuz.

Play AirPlay music: iTunes, iphone, iPad ...

And many other advanced features.

Connect wifi, spread network, things by mobile phone, ipad, computer

FRONT
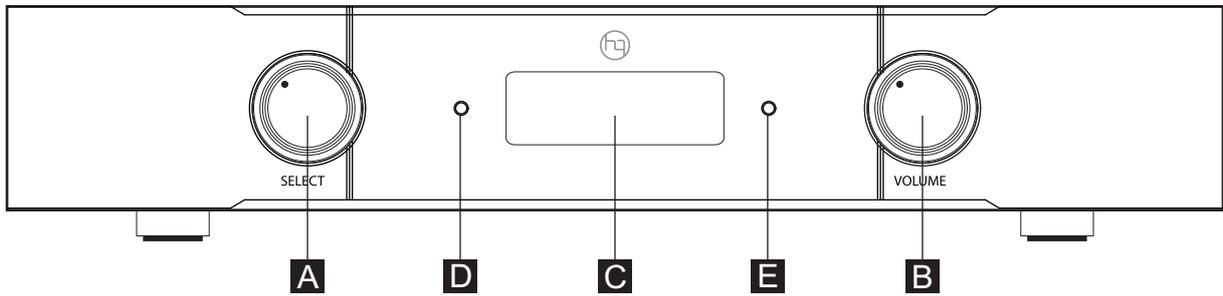
A **turn on / off and select input**

1. Click: turn off the power
2. Rotate left or right to select digital input

C **volume up down and mute**

1. Click: Mute
2. Rotate left or right to increase the volume
Rotate left to decrease the volume

B Screen display

D Receiver control

E Led standby

BACKSIDE
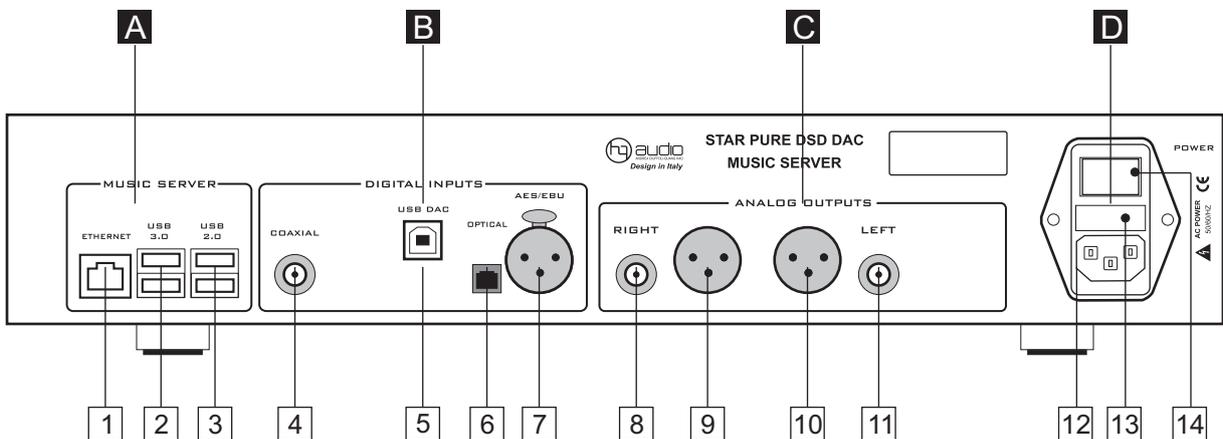
A MUSIC SERVER

B Digital inputs

C Analog Outputs

D Power Supply

1 Lan network	6 Optical input	11 RCA left ouput
2 USB input-MS	7 XLR digital input	12 Switch solid state and Tube
3 USB output to DAC	8 RCA right ouput	13 Fuse
4 Coaxial input	9 XLR right ouput	14 Power switch
5 USB input	10 XLR left ouput	

REMOTE CONTROLLER

**Note: Buy CR 2032 battery
and install the controller
before use**
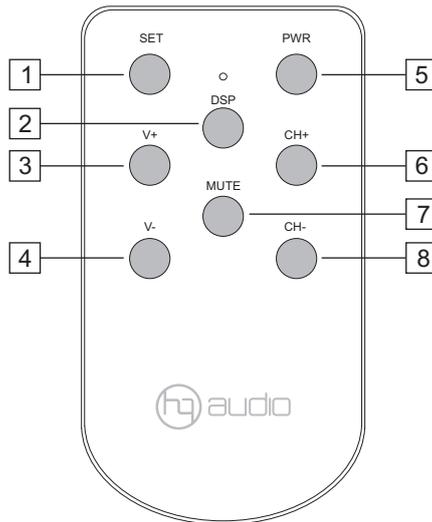
1	Setting
2	Turn off the lcd
3	volume up
4	volume down
5	turn on/off-standby
6	input selection
7	mute sound-save settings
8	input selection

Screen display

USB input ʰᑫ Vol -dB
DSD 512
L-R Bal
DSD 8x
32
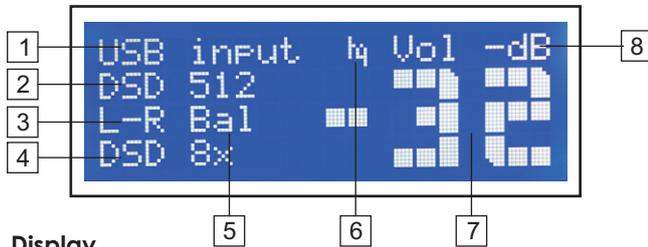
Display

1	Display input	5	Balance/unbalanced
2	Display frequency	6	Logo HQ
3	Show channel	7	Volume level
4	DSD mode	8	dB volume

The screen displays the installation mode

USB input ʰᑫ Setting
Amp +6dB ALL
L-R Bal
DSD 8x
32
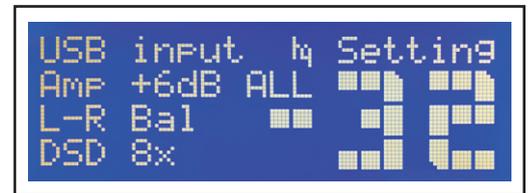
Figure 1

For example: setting the largest volum mode

1. Return the volume to 0 dB.

2. Press the SET button on the remote

3. Press the MUTE button to save the settings.

4. Press the SET button again to exit the setting mode.

5.Start DAC and enjoy the result.

Install the features

Use the remote control to set and remember settings such as:

volume level, select input, invert channel to the left of right channel output,

Select filter mode, Select filter frequency.

Using:

1. On the remote control, press:

SET, the screen displays: Setting. (see Figure 1)

2. Click the installation options button:

a, V +, V-: select output gain: 0dB, + 6dB, + 12dB, + 18dB

b, PWR: invert left and right output (L-R)

c, CH +, CH-: select the decoding mode DSD x1 to DSD x8.

When the installation process is as expected, press the: (Mute) button to save all settings, then press the SET button to exit the program.

Next, restart the DAC, and enjoy the music with the settings just set!

Important:

The DSD decoding modes x1, x2, x4, x8 are great options to suit your listening style and sound system. Experience it and enjoy it as you like! Thanks

The installation mode on the control

1	install and exit	5	reverse (L-R)
2	Unbalanced/balanced	6	DSDx8
3	+dB	7	save settings
4	0dB	8	DSDx1
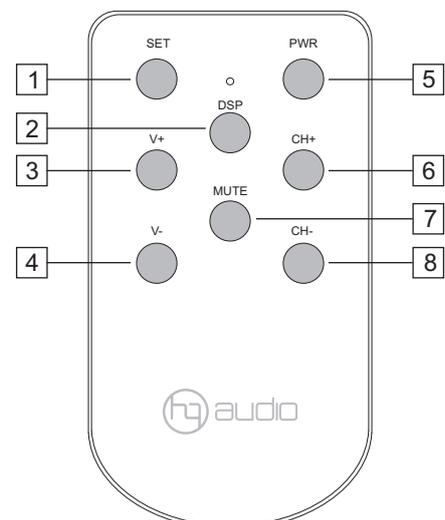
STAR Pure DSD DAC is a special digital converter that does not use DAC chip with the following advantages:

1- Do not use DAC chip.

2-Automatically receives input signals from 44kHz to DSD512.

3- Gain setting (amplified output signal): 0dB, + 6dB All, + 6dB DSD, + 12dB, + 18dB

4- Decode 4 DSD modes: DSDx1. DSDx2, DSDx4, DSDx8.

5- Analgue output balanced and unbalanced.

A- Set gain as desired:

When you see a lack of gain (the volume is too small when the volume is turned up to near 0dB, use this advanced set gain feature to set the gain as desired with 4 modes: 0dB, + 6dB All, + 6dB DSD, + 12dB, + 18dB.

How to set gain as follows:

Step 1: On the controller facing DAC, press the button: SET

Step 2: The display switches to the setting mode as shown below

Bước 3: nhớn nút V+, V- qua lới đớ chớn gain hiớn thớtrên LCD: 0dB, +6dB All, +6dB DSD, +12dB, +18dB.

Bước 4: Nhớn nút MUTE đớ lưu cài đớt gain-trên man hinh chớ Sếtting chuyớn thanh SAVE trong vai giây.

Bước 5: Nhớn nút SET đớ thoát cài đớt va thướng thức mớc gain vớa chớn.

Important note:

1- default gain is installed: + 12dB.

2- For the best sound, choose gain at: 0dB or + 6dB DSD, which is the mode we recommend.

3- If you use Pre amplifier after DAC, you should set -10dB and use pream volume - this is very important.

Set left channel reversal - right output: L and R

When you see that the sound emitted from the left and right channels is not right with the headphones, check the left-right output connections correctly. If you have connected correctly and the audio is in the wrong channel, you should set it to the left and right by:

Step 1: On the controller facing DAC, press the button: SET

Step 2: The display switches to the setting mode as shown above

Step 3: Press the SWP button back and forth to select the L-R channel displayed on the LCD: reverse L-R or R-L

Step 4: Press the MUTE button to save the gain-setting on the Setting screen to SAVE in a few seconds.

Step 5: Press the SET button to exit the settings and enjoy the correct output channel as you like.

B-Set the advanced DSD decode mode

This is a DAC without a DAC chip that uses only FIR filters, and the DSD decode mode is converted from the input chip to the filter, thus making the most natural sound output. Especially the DSD format brings full sound similar to coal disk. With 4 modes: DSDx1, DSDx2. DSDx4, DSDx8 gives players a diverse selection of products. We recommend that you experience all 4 modes to fully enjoy this superiority. DSDx8 is the recommended option.

How to set the DSD decode mode as follows:

Step 1: On the controller facing DAC, press the button: SET

Step 2: The display switches to the setting mode as shown below

Step 3: Press the CH +, CH- back buttons to select LCD display: DSDx1, DSDx2, DSDx8- (look at the LCD screen to select).

Step 4: Press the MUTE button to save the gain-setting on the Setting screen to SAVE in a few seconds.

Step 5: Press the SET button to exit the installation and enjoy the newly installed DSD sound.

C- Balanced and unbalanced outputs

DAC has 2 output modes:

1- Unbalanced (RCA) SE mode.

2- Balance (balanced) BNC mode

3- Only one output can be used at a time: that is, when using an unbalanced RCS output, the balanced output cannot be used.

How to install balanced and unbalanced output:

Step 1: On the controller facing DAC, press the button: SET

Step 2: The display switches to the setting mode as shown above

Step 3: Press the DSP button back and forth to select Unbalanced or Balanced displayed on the LCD: Unbalanced and Balanced back and forth

Step 4: Press the MUTE button to save the gain-setting on the Setting screen to SAVE in a few seconds.

Step 5: Press the SET button to exit the settings and enjoy the correct output channel as you like.

See more on how to set up features using the remote control page 8

TO GET THE HIGHEST EFFICIENCY
AND ENJOY THE SPECIAL FEATURES OF THE PRODUCT,
PLEASE STUDY THE INSTALLATIONS CAREFULLY
AND USE THIS PROFICIENCY AS A SKILL.

Normal mode
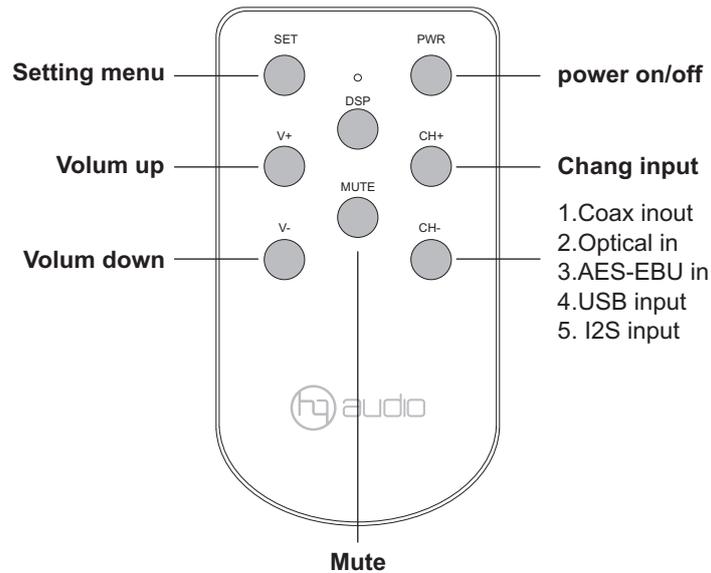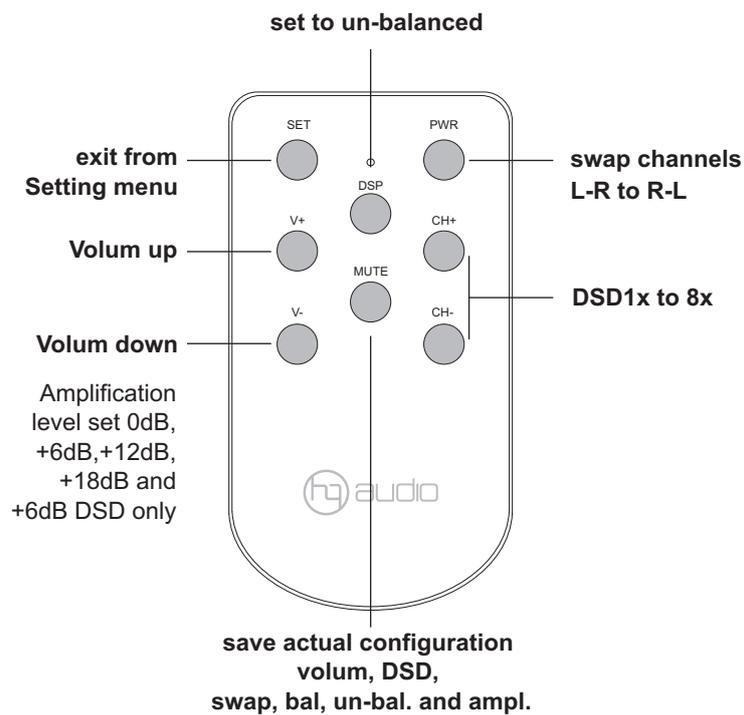
Setting menu — SET

○

PWR — **power on/off**

DSP

Volum up — V+

CH+ — **Chang input**

MUTE

1.Coax inout
2.Optical in
3.AES-EBU in
4.USB input
5. I2S input

Volum down — V-

CH-

ⓗ audio

Mute

Installation mode

set to un-balanced

**exit from
Setting menu** — SET

ⓟ

PWR — **swap channels
L-R to R-L**

DSP

Volum up — V+

CH+

MUTE

CH- — **DSD1x to 8x**

Volum down — V-

Amplification
level set 0dB,
+6dB,+12dB,
+18dB and
+6dB DSD only

ⓗ audio

**save actual configuration
volum, DSD,
swap, bal, un-bal. and ampl.**

CAREFUL:

- Turn off the power for all devices before making a connection.

- Read the instructions of each component you plan to use with this device.

- Be sure to plug each plug securely. To prevent noise and noise, avoid the cable bundle that connects the signal with the AC power cord or speaker cable.

1. Turn on the switch after the machine	2. Press the front SWITCH button or press PWR button on the control	3. DAC starts after 1 minute Information display screen
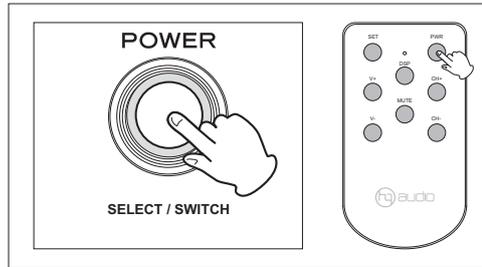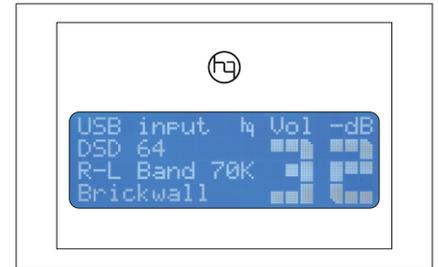
Figure 1

Figure 2

Figure 3

1. Turn on the power switch behind the DAC - Figure 1

2. Press the SELECT / SWITCH button on the DAC (or PWR button on the control) - Figure 2

DAC boots with standby mode 60s, the display is full of information - Figure 3

3. Turn on the amplifier and play music through DAC to enjoy the music.

INSTALL THE AMANERO USB DRIVER

OEM Combo384 Module

A. Install on Windows computer

1-Download the latest driver from Amanero's website

http://www.amanero.com/drivers.htm

Device Drivers

download Combo384 Driver for Windows 10

----

download Combo384 Drivers for Windows XP Win7 Win8 32/64bit

2- Unzip the installation package and double-click Install.exe to start the installation.

Follow the instructions. In most cases, you only need to accept the default on the following screens.

Select Install, Next

Run and install Combo384-ASIO32-select Next
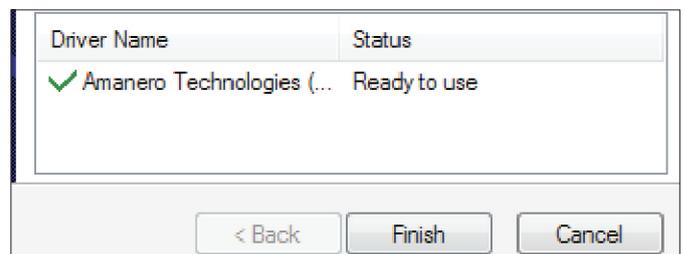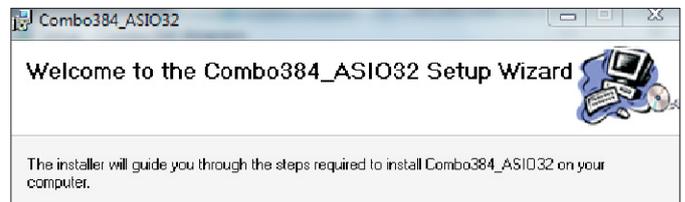
The computer has been installed with USB driver and ready to use.

B. Install on Mac / Linux computers

• No drivers needed for these operating systems. • See restrictions in specification.

C. Install on Pi3 server-located in DAC

C. Install on Pi3 server-located in DAC

JRiver DSD setting screenshots

The JRiver is more simple and with this configuration you can play 44,88,96,192,384KHz, DSD files and SACD ISO.

download the last player: http://www.jriver.com.

it's best to buy a license for Jriver

A. Install Jriver on the computer

After installing Jriver on your computer, you set up the settings as instructed below:

1. Run Jriver and select Tool/Options/Audio
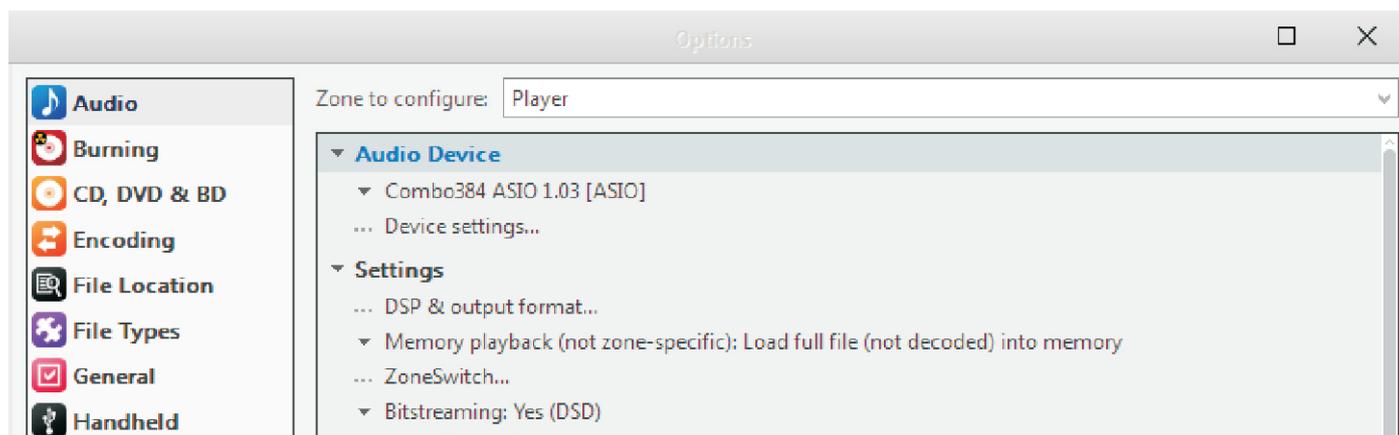
2. Set up the following sections:

a. Audio Device: *to choose Combo384 ASIO 1.03[ASIO]*

b. Settings

    Memory playback(not zone-specific) to choose: *Load full file into memory.*
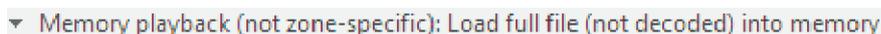
    Bitstreaming: to choose: *Yes (D*
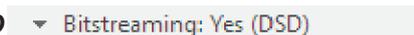
c. Setup is complete: Save

3. Ok- you've set up driver installation. Open music and enjoy the sound of DSD

B. Using Foobar2000
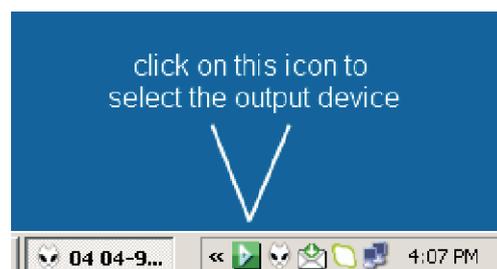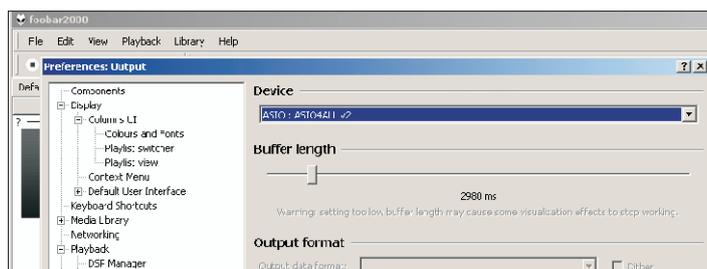
To use Foobar2000 much more complicated, we recommend that you do not use this software

You can follow the instructions on: http://hifiduino.wordpress.com

Or go to our website for more information: http://www.audiodesignguide.com/DAC32/index2.html

Or search for instructions on the internet yourself.

Audirvana on MAC OS configuration:

The Audirvana is more simple and with this configuration you can play DSD files and SACD ISO.

download the last player: https://audirvana.com/

it's best to buy a license for Audirvana

Audirvana
The Sound of Your Dreams

A. Install Audirvana on your computer

After installing Audirvana on your computer, you set up the settings as instructed below:

Set up the settings

General Optimization

☑ **Deactivate completely iTunes own playback**
Note: this option should be enabled for playing proxy files

Sound Quality optimizations at the expense of convenience functions

☑ **Deactivate volume control by iTunes**

☑ **Deactivate play position control by iTunes**

Native DSD Capability | DSD over PCM standard 1.0 ⇕

Max sample rate limit | No Limit ⇕ | Spl rate switch
☑ Limit max bitdepth to 24bit instead of 32bit

☑ Optimize System for Audio Playback
Audirvana Plus priority | Very High ⇕
☑ Disable Spotlight
☑ Disable Time Machine
☑ Disable detection of iDevices on USB

Converter: | iZotope 64-bit SRC ⇕
Quality | Fastest ——————◇———— Best
Advanced parameters
Steepness: ———————◆———— 97 dB
Filter max length: ——◆——————— 500,000 Samples

AudioUnits
☐ Use AudioUnits effects
No Effect ⇕
No Effect ⇕
No Effect ⇕
No Effect ⇕

MUSIC SERVER – GUIDE MANUAL

DAC Quang Hao product is not only pure DAC, but also has a Music server feature - a music player. With this feature, HQ-Audio gives users maximum convenience in organizing, managing and performing music through an optimized operating system for the device.

HQ uses the Raspberry Pi3 "microcomputer" for the music server part. Raspberry Pi3, Pi4 is rated and recognized as playing music better than computers.

HQ Music Server

RASPBERRY PI B, B +

Software: Volumio or Moode audio

Play all formats supported DSD256-512.

Play music from hard drive, from NAS drive ..

Listen to music with 100 radio stations in the world.

Play online music:

Airplay, Youtube, Spotify. Tidal, Google, Play Squeezelite and UPnP, Tidal, Qobuz.

Play AirPlay music: iTunes, iphone, iPad ...

And many other advanced features.

Connect wifi, spread network, things by mobile phone, ipad, computer
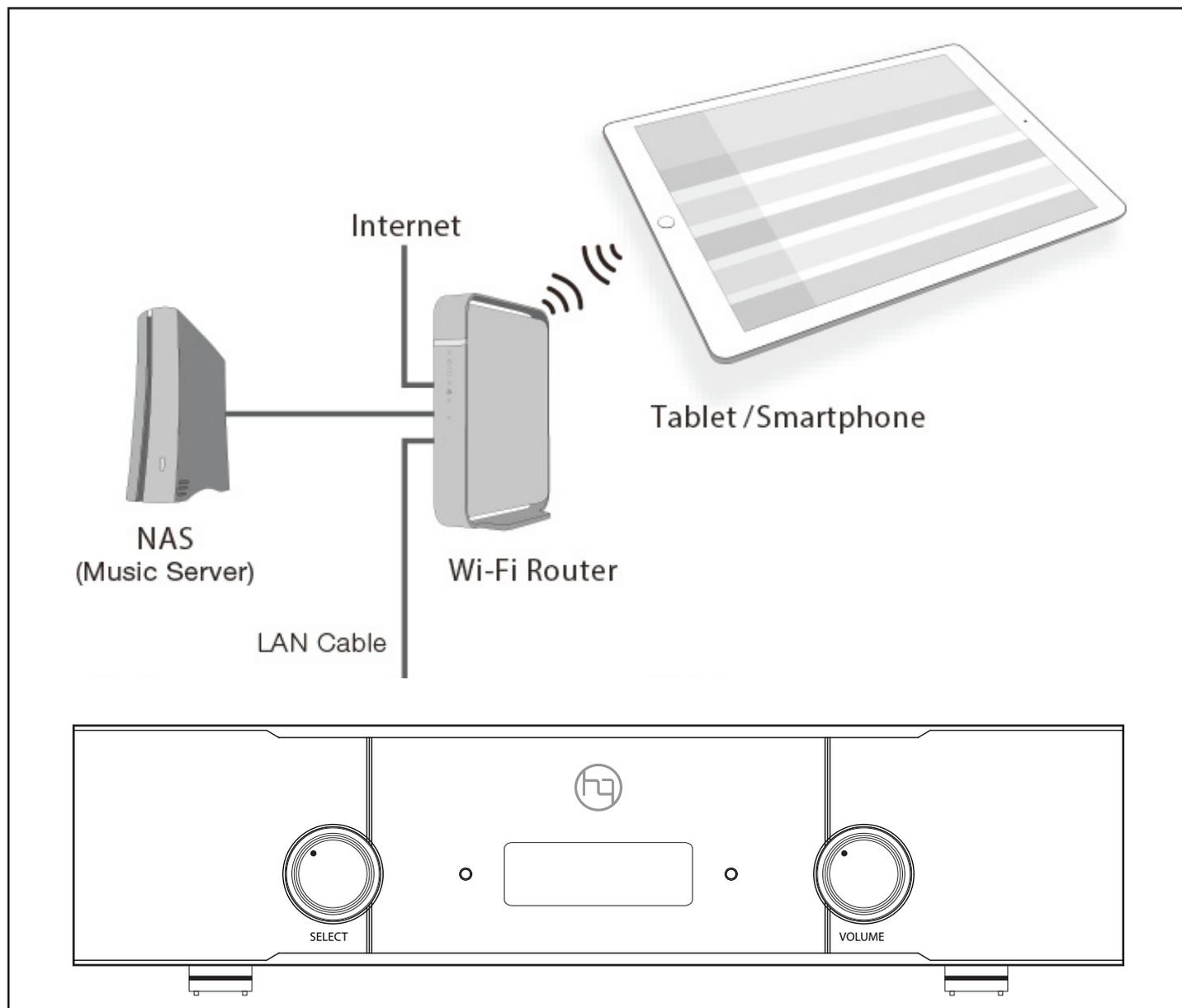
MUSIC SERVER CONNECT

A. Connect to the Music Server

1. Connect Music Server to DAC with USB cable type A and B as shown below

2. Connect the hard drive containing the music file to the Music Server at the USB 3.0 port.

Note: (best to use in Mobile Hard Drives) type 2-4T of WD, Samsung, Toshiba ... and absolutely should not use external hard drives (hard drives with Dock HDD) , because it is easy to cause conflicts and damage Pi3, Pi4.
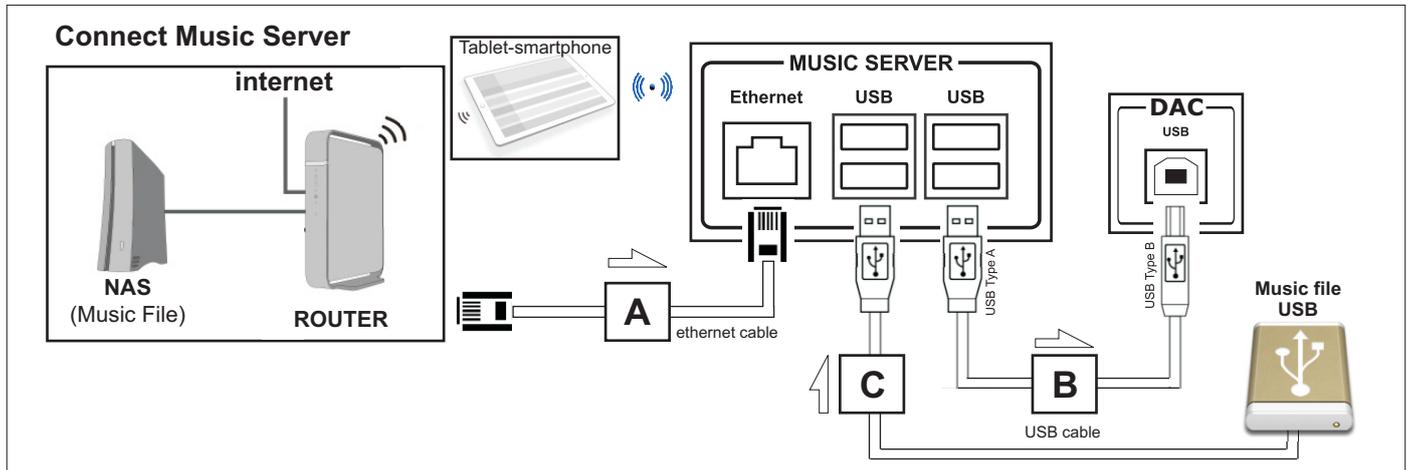
There are 2 ways to control music playback for Music Server: Wifi and Lan network:

1. When the network is not plugged in, after 2 minutes, the WiFi of the computer automatically turns on the wifi: volumio

Wifi connection is just a matter of convenience and not optimal for audio. It is wifi that is the biggest confounding factor when using electronic lights. We recommend using a LAN connection - This is the best way to fully enjoy your music!
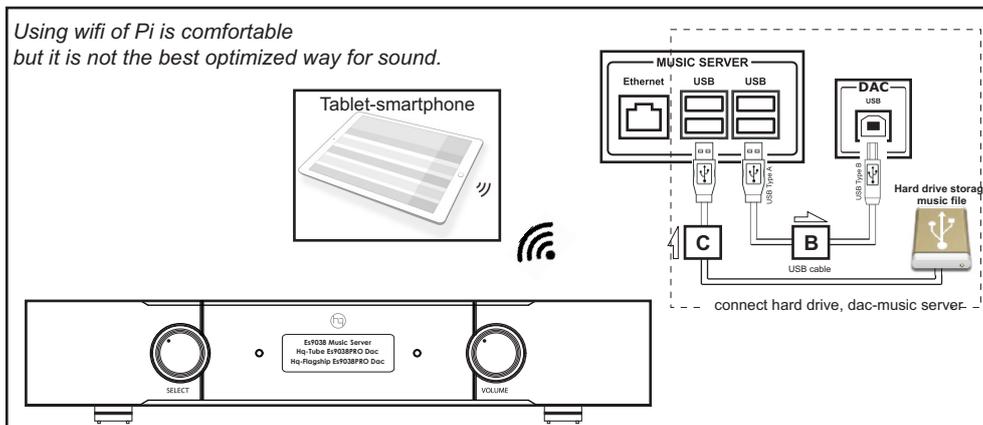
1.Way 1-Connect wifi

1. WiFi connection: - Do not use network cables Lan-position A

1.1. Turn on DAC, wait for 2 minutes then use smartphone, tablet or pc to connect Wifi **Volumio** of DAC, password: **volumio2**

1.2. Use browser of smartphone, tablet or pc (Chrome, Firefox, Safari..), enter address ***192.168.211.2*** and go

Before doing 1.2, you should clear history and cache of browser for faster

1.3. Play music:***- The phone screen will display the music playing interface with the Volumio displayed***

2. Way 2- Best

2. Connect the Lan network to Music server: - Connect the LAN cable to position A - when using the Lan Wifi network, it will automatically disconnect. This connection can both control the music and the network. Only this connection can play online music: Youtube, Spotify. Tidal, Google. Stream music and Nas Drive.

Use the software: Advanced IP Scanner (search on the network) and install on the computer, phone and turn on the selected software: Scan the IP address, Address the newly found Ip address (eg 192.168.1.99)
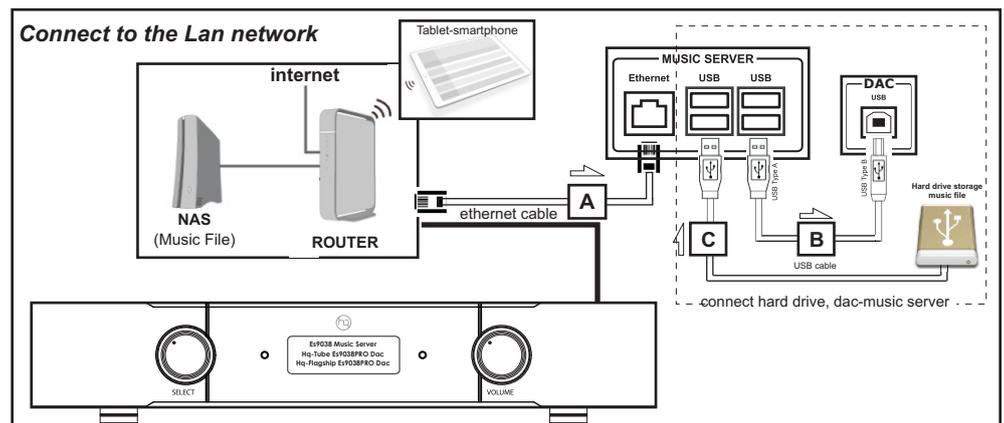
This is an overview to demonstrate the set up and common functionality of Volumio, the audiophile audio player with Raspberry Pi.
Before you use this guide make sure you have a high quality DAC such as Quanghao- DAC to enjoy the great audio quality.

You can see the user guide here: https://volumio.org/volumio-guide/

1. Connect to Wifi

Start DAC, wait 2 minutes. Using a mobile phone or Ipad connected to the DAC of the DAC is:

This example uses iPhone. Setup using a computer or Android phone will be similar.
When starting up for the first time, a wifi access point called "volumio" will be available. Connect to it with password "volumio2". After connected to "volumio" wifi, below page will be shown. You can change the language later.

Go to Network Settings

Configure Volumio to connect to your own wifi Scroll down until you see your own wifi access point.
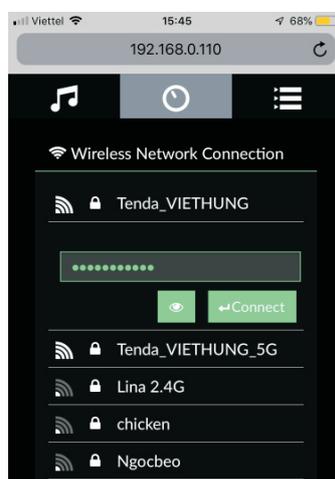
2. Accessing Volumio device

Using browser

Go to http://volumio.local or http://volumio/

Using IP Address. You can check your IP address
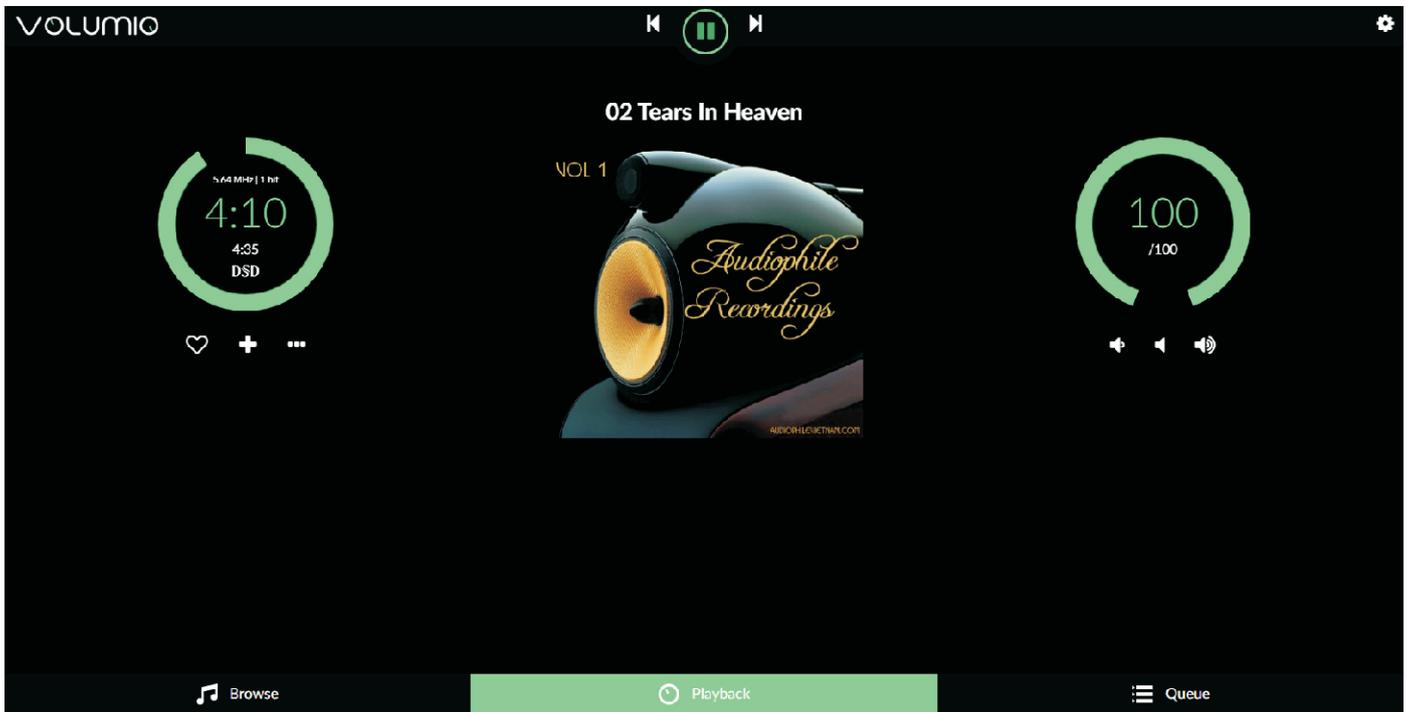
With Mobile (Mobile Browser / iOS App / Android App)
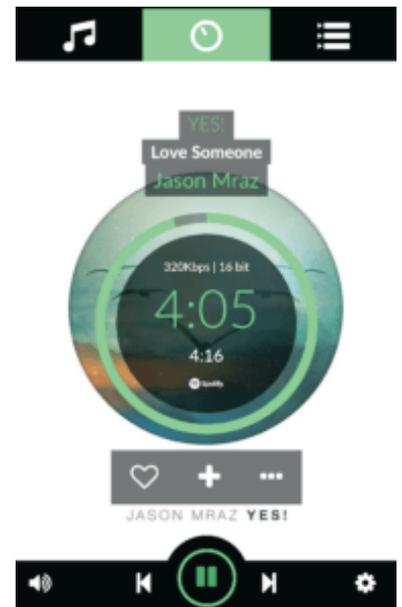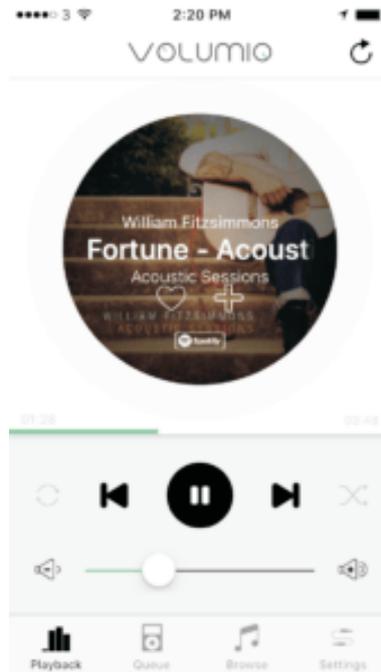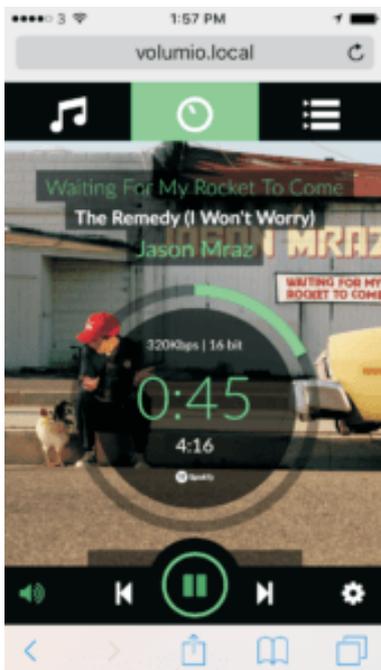
3. Copy music files to Internal Storage

After connecting Volumio to network, you can then access the storage directly from your computer.

With Windows: using file explorer, go to \\volumio.local

With macOS: using Finder > Connect to Server, enter server address smb://volumio.local , connect as Guest and mount "Internal Storage"

With macOS: using Finder > Connect to Server, enter server address smb://volumio.local , connect as Guest and mount "Internal Storage"

Go to Internal Storage, this is the micro sdcard on the Raspberry Pi

Go to Internal Storage, this is the micro sdcard on the Raspberry Pi
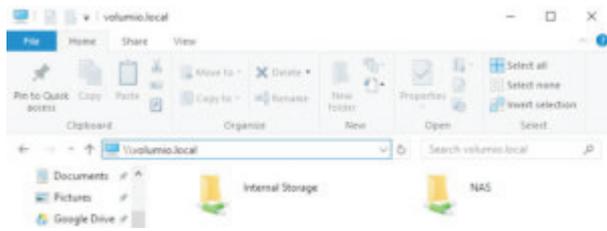
Copy your music files into Internal Storage
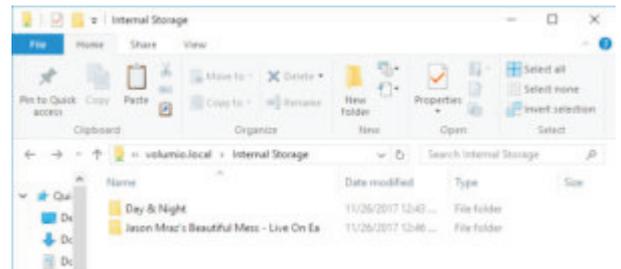
4. Playback music files

Using App or Browser (http://volumio.local) or http://volumio/

Go to Browse, select Media Library / Artists / Album and choose the songs you like to play

5. Spotify Plug-in Setup and Usage

Using browser, go to http://volumio.local or http://volumio/ go to plug in settings. Go to "Search Plugins" and install the Spotify

Under "Installed Plugins", enable the Spotify plug in and choose Settings and enter your Spotify username or password. If you used facebook as your spotify login, you need to create your spotify login and password.

With macOS

using Finder > Connect to Server, enter server address smb://volumio.local , connect as Guest and mount "Internal Storage"

Go to Internal Storage, this is the micro sdcard on the Raspberry Pi

If setup is successful, you will see a Spotify icon in playback.

With macOS

using Finder > Connect to Server, enter server address smb://volumio.local , connect as Guest and mount "Internal Storage"

Go to Internal Storage, this is the micro sdcard on the Raspberry Pi
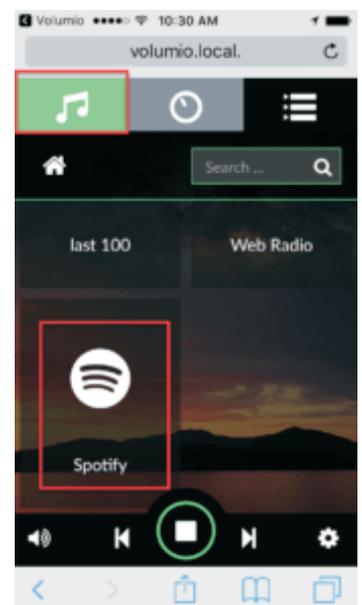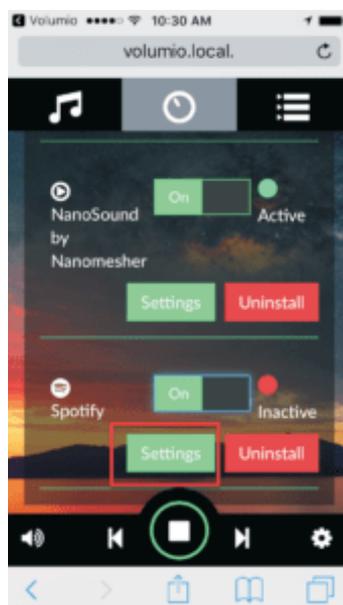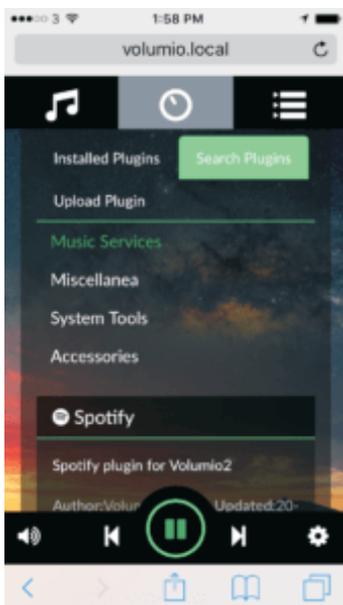
You can then search with Spotify or use your playlists.
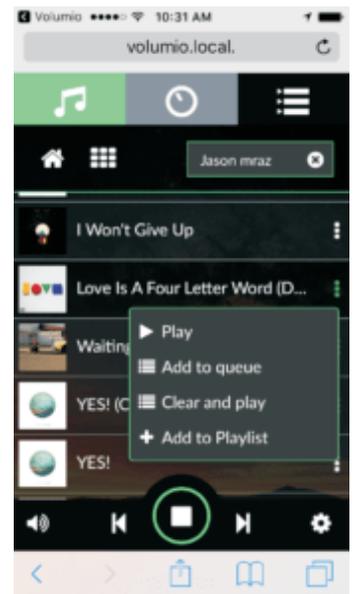
6. Using Airplay

Using Airplay is extremely easy with Volumio, make sure you your Volumio device and ios are on the same Wifi network, then choose "Volumio" and airplay device
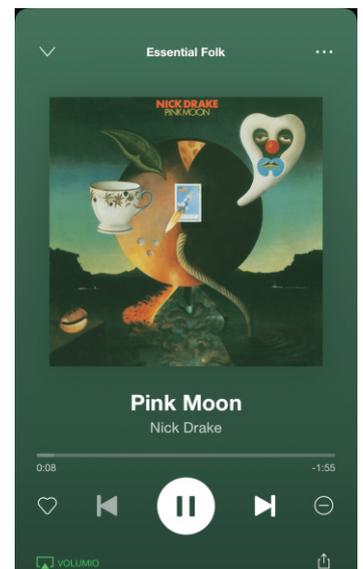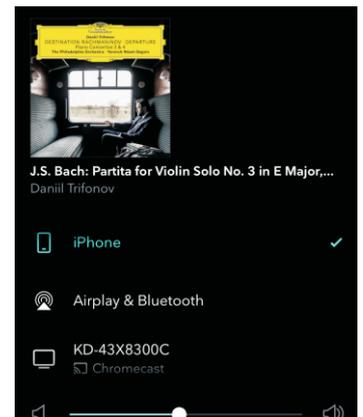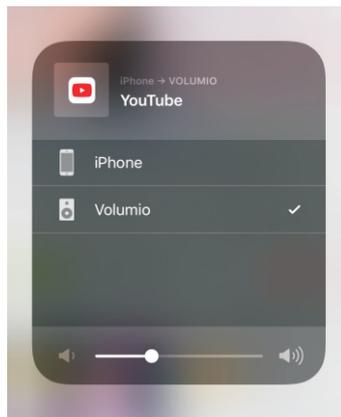
Note: You can see more instructions for use at the home page of Volumio:

https://volumio.github.io/docs/

7. Spotify Connect

If you are a Spotify premium user, you are probably quite used to the spotify app's user interface, whether it is mobile or on computer. The idea is to control using Spotify App / Web interface and play on Volumio, so that you can enjoy Spotify audio in your HiFi connected to your Volumio.

Here's the instructions to setup:

Under plug-in, install the "Volumio Spotify Connect2" plugin. (Credit to @balzure and @ashthespy for this great work)
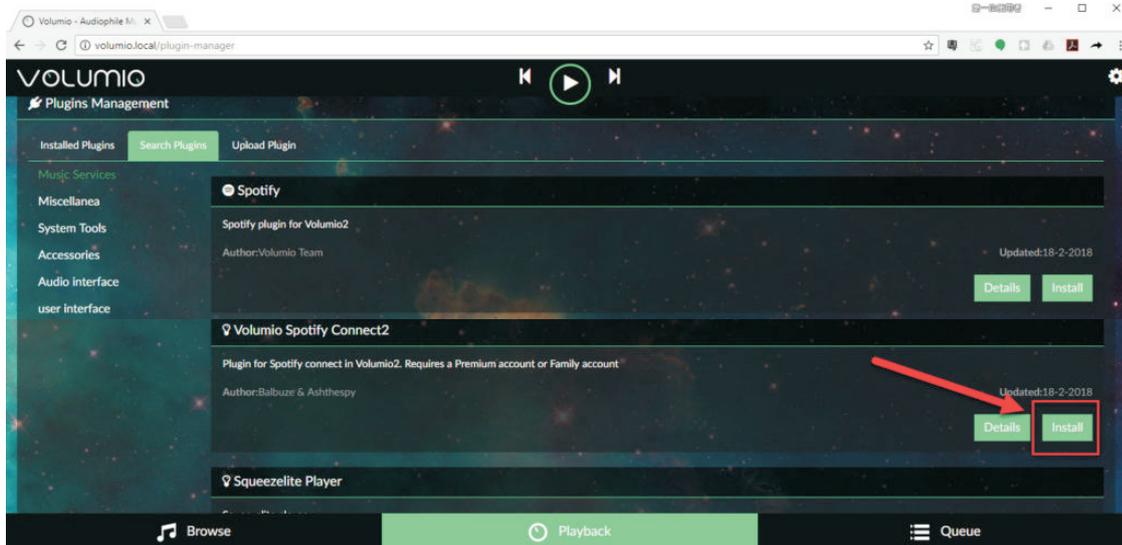
After installed, enable the "Volumio Spotify Connect2" plugin. You might also like to change the Settings such as start up volume
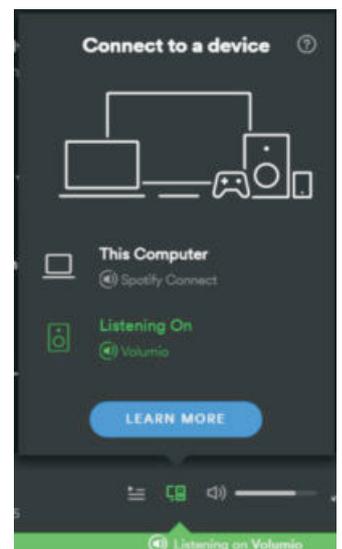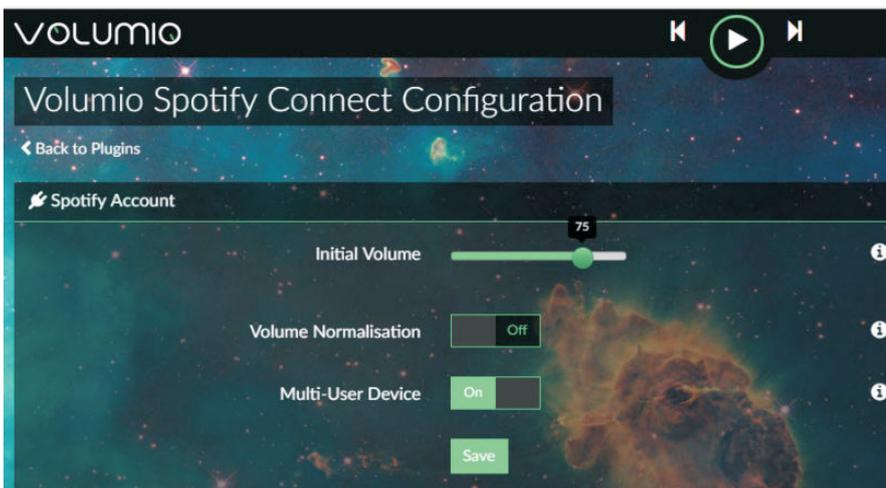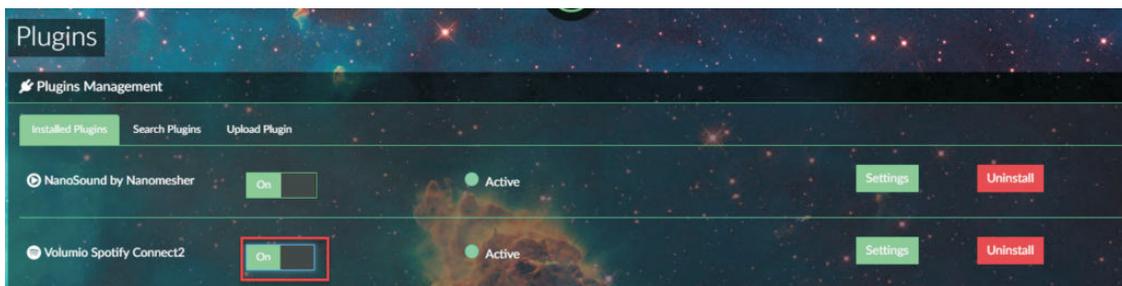
Using Spotify App, you can now see "Volumio" under devices (or whatever name you changed in Volumio)

Playback music files

Using browser
Go to http://volumio.local or http://volumio/
Using IP Address. You can check your IP address
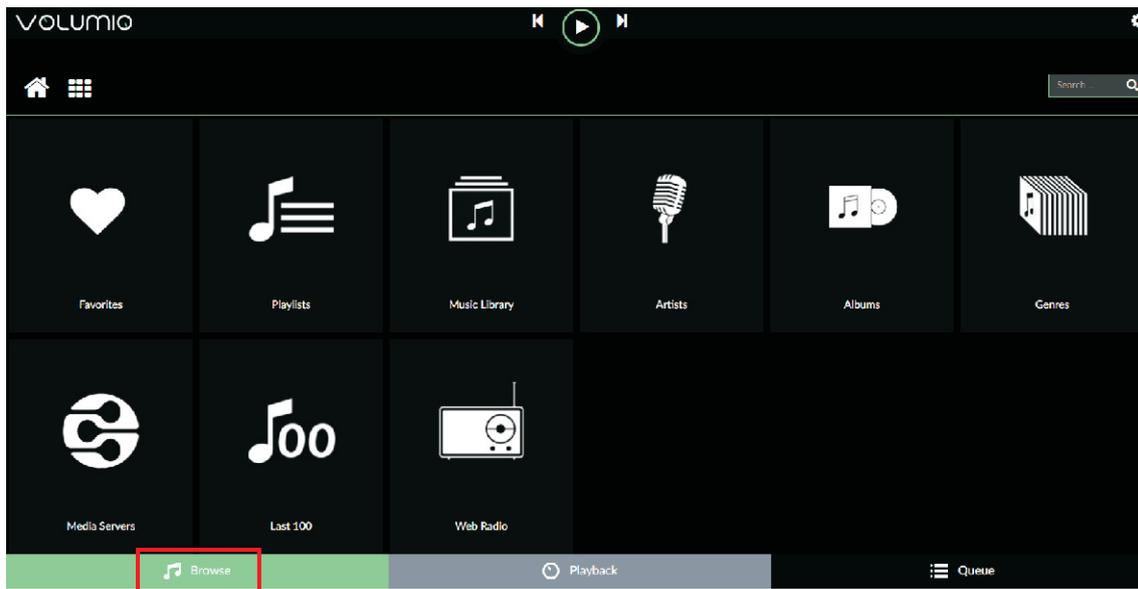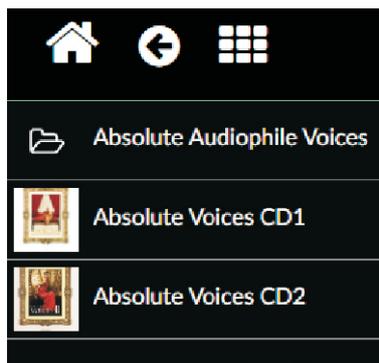
1 **2** **3**
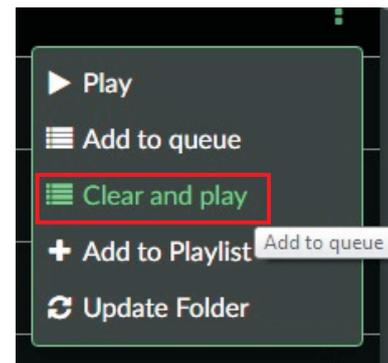
Music playing interface

SPECIFICATIONS

Main DAC:	Star Pure DSD
	Support 44,88,96,192,352,384KHz PCM and DSD to play SACD ISO.
	Full ground isolation from USB module.
	Digiltal supply & Analog supply - LT3042-Ultralow Noise
Resolution:	DSDx1, DSDx2, DSDx2, DSDx8 32bits
Audio Outputs:	2 x RCA phono, 2 x Balanced XLR
Output impedance: (analog)	undrer 1000 ohms
Output Levels:	3.0V RMS fixed, 3.0V RMS Balanced.
Frequency Response:	10Hz to 20kHz +0.1dB
Total Harmonic Distortion:	<0.015%
Digital Inputs:	1 x Amanero USB
	1 x Coaxial S/PDIF - RCA phono
	1 x Optical - TosLink optical
	1 x AES/EBU - Balanced
	1 x I2S - direct to music server
Input Format Support:	
Spdif, Optical, AES/EBU:	PCM 16-24Bit /44.1kHz, 48kHz, 88.2kHz, 96kHz, 76.4kHz, 192kHz.
USB:	PCM 16-32Bit /44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz 705.6kHz, 768kHz DSD DSD64/128/256 (DoP/dCS) DSD64/128/256/512 (ASIO Native)
	PCM 16-32Bit /44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz, 705.6kHz, 768kHz DSD DSD64/128/256 (DoP/dCS) DSD64/128/256/512 (ASIO Native).
Music Server: P34, B+	Interface and music player software
	Moodeaudio - Runeaudio - Volumio
Wifi:	802.11 b/g/n Wireless LAN.
Ethernet:	802.11 b/g/n Wireless LAN.
USB:	2 x USB 2.0 ports, 2 x USB 3.0 ports
USB:	2 Gb
Remote Control:	Turn on / Set / Volume / Mute / Select signal channel
Mains Power:	220V-240V, 50/60Hz
Power Consumption:	<100W
Dimensions (H x W x D):	80 x 380 x 435 mm
Weight:	10kg
Finish:	Silver, black
Note:	*Specifications may be subject to revision.*

The design team behind the Star Pure DSD works on separate technical aspects of the project and are dedicated electronics engineers with more than 50 years experience as audiophiles. This ensures an open mind to audible phenomena.

The design team bring to their labors skill, pride and with an unbridled enthusiasm which takes the engineering and critical evaluation of Audio equipment to new levels, reflected in the exacting standards to which every product is designed and manufactured.

To ensure the highst standard of each Star Pure DSD, it will before leaving the factory be verified and final tested to ensure the final voicing. This verification is ensured personally by Hq-Audiodesign.