

USB Digital to Analog Converter(DAC), HiFi Network Adapter & Player

# cocktailAudio N1SD



**DSD**  
Direct Stream Digital

**DXD**  
Digital eXtream Definition

**HD MUSIC**  
32Bit/384Khz  
High Resolution Audio

- |                        |      |     |
|------------------------|------|-----|
| APE/CUE                | MP3  |     |
| flac                   | WAV  | WMA |
| M4A                    | AAC  | Ogg |
| PCM                    | M3U  | PLS |
| ALAC                   | AIFF | AIF |
| HD FLAC (24bit/192KHz) |      |     |
| HD WAV (24bit/192KHz)  |      |     |

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# Contents

|  |    |
|--|----|
| Notification of GNU General Public License .....   | 2  |
| Important safety instructions .....  | 19 |
| <br>   |    |
| 1. <b>Product overview</b> .....   | 21 |
| 1-1. Front view .....  | 21 |
| 1-2. Rear view .....   | 21 |
| 2. <b>Prepare</b> .....  | 22 |
| 2-1. Check the contents of N15D package .....  | 22 |
| 2-2. USB Audio Class 2.0 Driver Software for Windows OS .....  | 22 |
| 2-3. How to install USB Audio Driver Software to Windows PC .....                                    | 23 |
| 2-4. Special software(Player) for DSD file on your Windows PC .....                                  | 25 |
| 2-5. Optional items, WiFi USB dongle .....   | 25 |
| 2-6. N15D purchased without storage .....  | 25 |
| 2-6-1. HDD installation .....  | 26 |
| 2-6-2. HDD Format .....  | 26 |
| 2-7. N15D purchased with an internal storage installed .....   | 26 |
| 2-8. Two(2) spaces of N15D local storage .....   | 26 |
| 2-9. Extra devices needed to use N15D .....  | 26 |
| 3. <b>Connection</b> .....   | 27 |
| 3-1. Connection to use N15D as an USB Digital to Analog Converter(DAC) .....                         | 27 |
| 3-2. Connection to use N15D as Network Adapter for existing Amplifier or DAC .....                   | 28 |
| 4. <b>Turn ON and Start</b> .....  | 29 |
| 4-1. When using N15D as an USB Digital to Analog Converter(DAC) .....                                | 29 |
| 4-2. When using N15D as Music Storage/Player, Network Adapter for existing<br>Amplifier or DAC ..... | 29 |
| 5. <b>SETUP</b> .....  | 30 |
| 5-1. Music DB .....  | 30 |
| 5-1-1. Display Mode .....  | 30 |
| 5-1-2. Cover View .....  | 31 |
| 5-1-3. Load .....  | 31 |
| 5-1-4. Sort .....  | 31 |
| 5-1-5. Search .....  | 32 |
| 5-1-6. Select All .....  | 32 |
| 5-1-7. Replaygain .....  | 32 |
| 5-2. Audio .....   | 33 |
| 5-2-1. DSD Native .....  | 33 |
| 5-2-2. Digital Out Volume .....  | 33 |
| 5-2-3. Digital Out .....   | 34 |



|   |    |
|---|----|
| 5-2-4. Gapless Play .....                                     | 34 |
| 5-3. Network .....  | 34 |
| 5-3-1. Network(Setup) .....                                   | 34 |
| 5-3-1-1. Wired Setup .....                                    | 35 |
| 5-3-1-1-1. DHCP(Auto IP) .....                                | 35 |
| 5-3-1-1-2. Static IP .....                                    | 36 |
| 5-3-1-2. Wireless Setup .....                                 | 36 |
| 5-3-1-2-1. Open SSID .....                                    | 36 |
| 5-3-1-2-2. Hidden SSID .....                                  | 37 |
| 5-3-1-2-3. WiFi Repeater Roaming function .....               | 37 |
| 5-3-2. Network Info .....                                     | 37 |
| 5-3-3. Wireless Info .....                                    | 37 |
| 5-3-4. Wake On LAN .....                                      | 38 |
| 5-4. Network Service .....                                    | 38 |
| 5-4-1. Samba Server .....                                     | 38 |
| 5-4-2. Network Sharing(Samba Client) .....                    | 39 |
| 5-4-3. UPnP Server .....                                      | 41 |
| 5-4-4. FTP Server .....                                       | 42 |
| 5-4-5. Shareplay(Airplay) .....                               | 42 |
| 5-5. Internet Service .....                                   | 43 |
| 5-6. System .....   | 43 |
| 5-6-1. OSD(On Screen Display) .....                           | 44 |
| 5-6-2. Auto Play .....  | 44 |
| 5-6-3. Resume Play .....                                      | 45 |
| 5-6-4. Factory Reset .....                                    | 45 |
| 5-6-5. HDD Sleep .....  | 45 |
| 5-6-6. Format Storage .....                                   | 46 |
| 5-6-7. File System Fix .....                                  | 46 |
| 5-6-8. Alarm .....  | 46 |
| 5-6-9. Auto Shutdown .....                                    | 47 |
| 5-6-10. ErP Regulation .....                                  | 47 |
| 5-7. Time .....   | 47 |
| 5-7-1. Time Format .....                                      | 48 |
| 5-7-2. Time Set(Internet) .....                               | 48 |
| 5-7-3. Time Set(Manually) .....                               | 48 |
| 5-8. Firmware .....   | 49 |
| 5-8-1. Current Version .....                                  | 49 |
| 5-8-2. Update manually(Firmware update manually) .....        | 49 |
| 5-8-3. Check now for new firmware and Update by network ..... | 50 |
| 6. <b>Using N15D with Music X App</b> .....                   | 50 |

|  |    |
|--|----|
| 6-1. Music DB .....  | 50 |
| 6-1-1. What is the Music DB of N15D .....                      | 50 |
| 6-1-2. How to make Music DB for N15D .....                     | 51 |
| 6-1-3. How to use Music X app for Music DB .....               | 51 |
| 6-2. Browser .....   | 55 |
| 6-3. Playlists .....   | 59 |
| 6-4. How to export Playlists .....                             | 60 |
| 6-5. i-Service .....   | 62 |
| 6-5-1. Online Music Services .....                             | 62 |
| 6-5-2. Airable Internet Radio .....                            | 62 |
| 6-5-2-1. How to add station to Favorites folder .....          | 62 |
| 6-5-2-2. How to record an internet radio .....                 | 63 |
| 6-5-3-3. How to set 'Reservation Recording' .....              | 63 |
| 6-6. Group Play .....  | 64 |
| 6-6-1. Look for devices available over Group Play .....        | 65 |
| 6-6-2. Start playing songs to set as server device .....       | 65 |
| 6-6-3. How to add client devices to Group Play by manual ..... | 66 |
| 6-6-4. Control devices .....                                   | 67 |
| 6-7. Power Off .....   | 68 |
| 7. <b>Specification</b> .....                                  | 69 |
| 8. <b>MQA (Master Quality Authenticated)</b> .....             | 70 |

## Important safety instructions

For your own safety, please read the following important safety instructions carefully before attempting to connect this unit to the main power supply. They will enable you to get the best performance from the unit.

1. Read the instructions.
2. Keep the instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not remove the casing of this product.
9. Only use this product indoors. Do not expose the product to water, rain or high humidity.
10. Keep this product away from direct sunlight, naked flames or heat.
11. Do not install near any heat sources such as radiators, heat registers, stoves, or other electrical equipment (including amplifiers) that produce much heat.
12. Do not place any other electrical equipment on the product.
13. Do not place any sources of danger on the product (e.g. objects containing liquid, burning candles)
14. This product includes batteries. Please refer to safety and disposal instructions for batteries in this user manual.
15. Unplug this product during lightning storms or when unused for long time.
16. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged, such as the power supply cord, damaged plug, liquid spillage, objects dropped on the unit, exposure to rain or moisture, does not operate properly, or has been dropped.
17. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection
18. If an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

### WARNING

- Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may be experiencing some hearing loss. Over time your hearing 'comfort level' adapts to higher volumes of sound, so after prolonged listening, what sounds 'normal' can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level.
- Loudspeakers : Before making any connections to loudspeakers, make sure all power is turned off and only use suitable interconnects.
- Only use attachments/accessories specified and supplied by the manufacturer.



This symbol 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.



This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance

#### FCC regulations

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT.

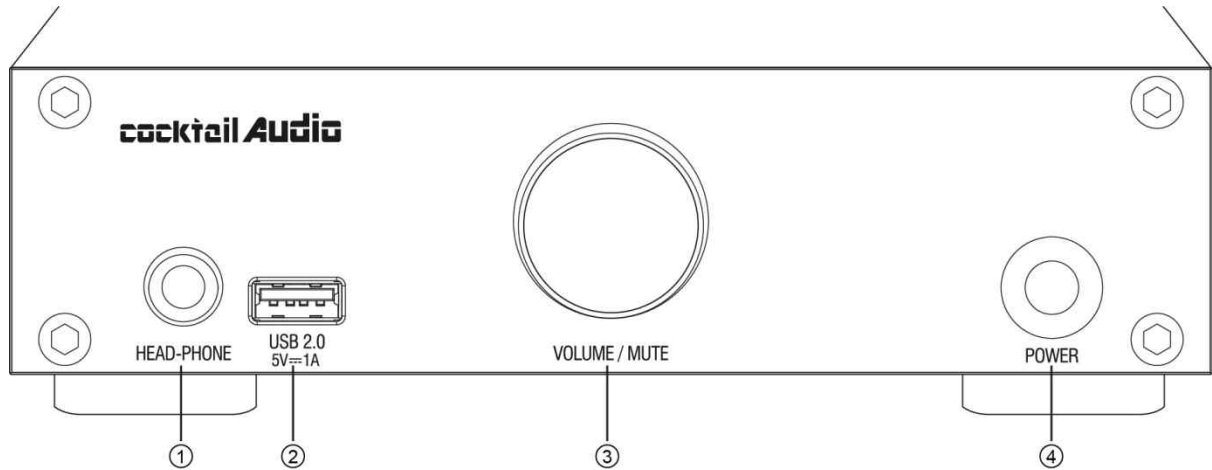


This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# 1. Product overview

## 1-1. Front View

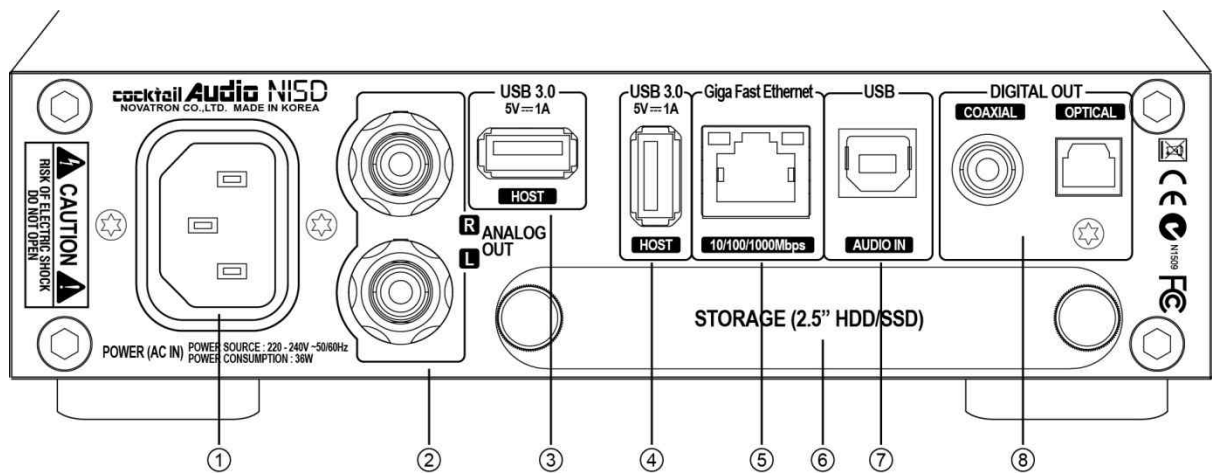


- ① Headphone Out
- ② USB2.0 Host Port
- ③ Volume/Mute knob
- ④ Power button

<NOTICE> Volume/Mute Knob : If you keep pressing Volume/Mute Knob for 5~6 seconds, you can reset Network Settings to Wired Network

<WARNING> You MUST power off by Power Button of remote app first before power it off by the power switch on the front. Otherwise, the storage installed inside of N15D may get damage.

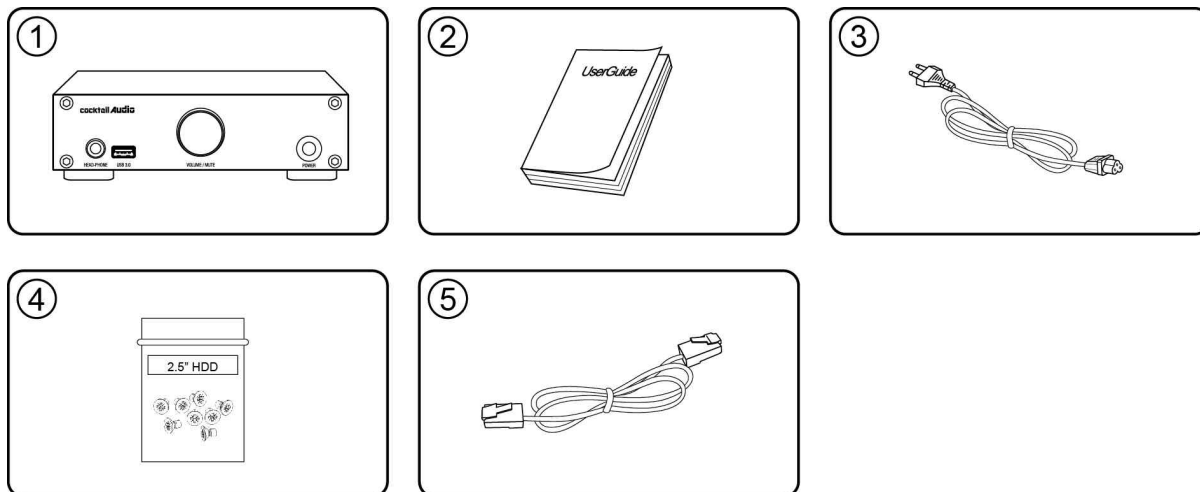
## 1-2. Rear View



- ① AC Power Inlet
- ② Analog Out
- ③ USB 3.0 Host Port
- ④ USB 3.0 Host Port
- ⑤ Giga Fast Ethernet LAN
- ⑥ 2.5" HDD or SSD Storage Deck
- ⑦ USB Audio IN
- ⑧ Digital Out(COAXIAL/OPTICAL)

## 2. Prepare

### 2-1. Check the contents of N15D package



- ① N15D unit
- ② User's Guide
- ③ Power cord
- ④ Screw for Storage Installation
- ⑤ Wired LAN cable

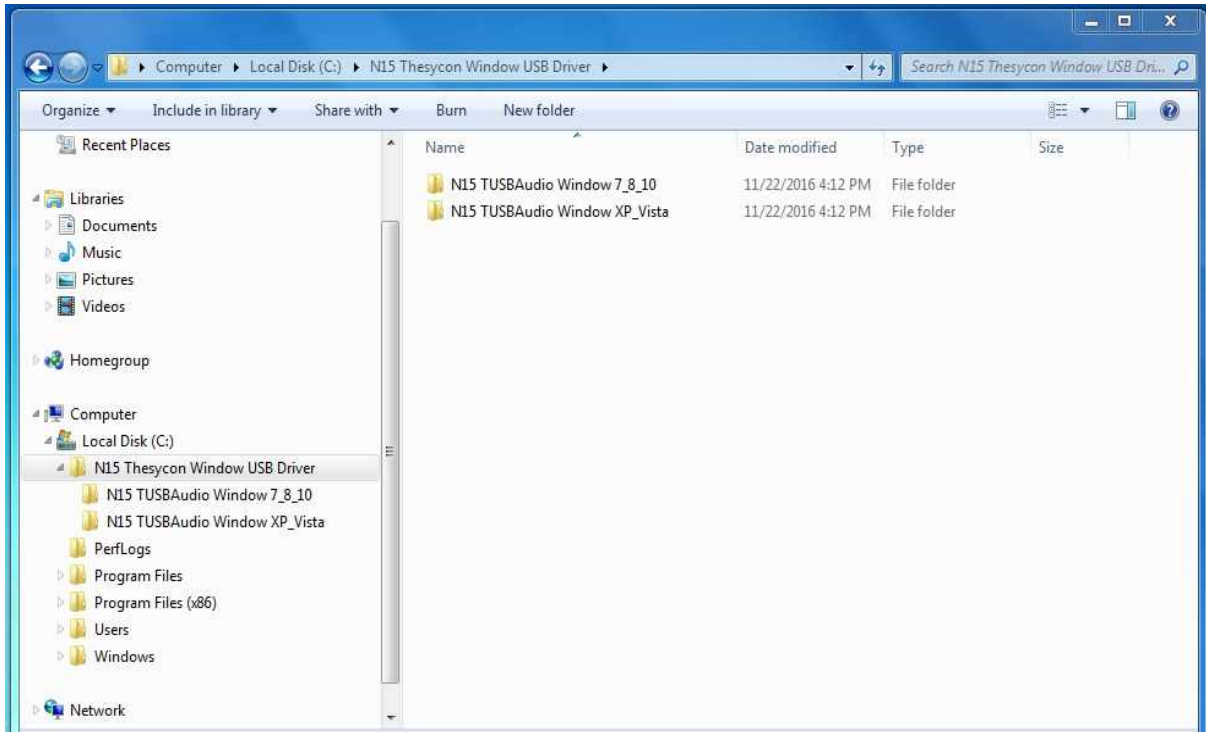
### 2-2. USB Audio Class 2.0 Driver Software for Windows OS

You should install USB Audio Class 2.0 driver software for Windows OS so that you could use N15D as an USB DAC with Windows PC properly.

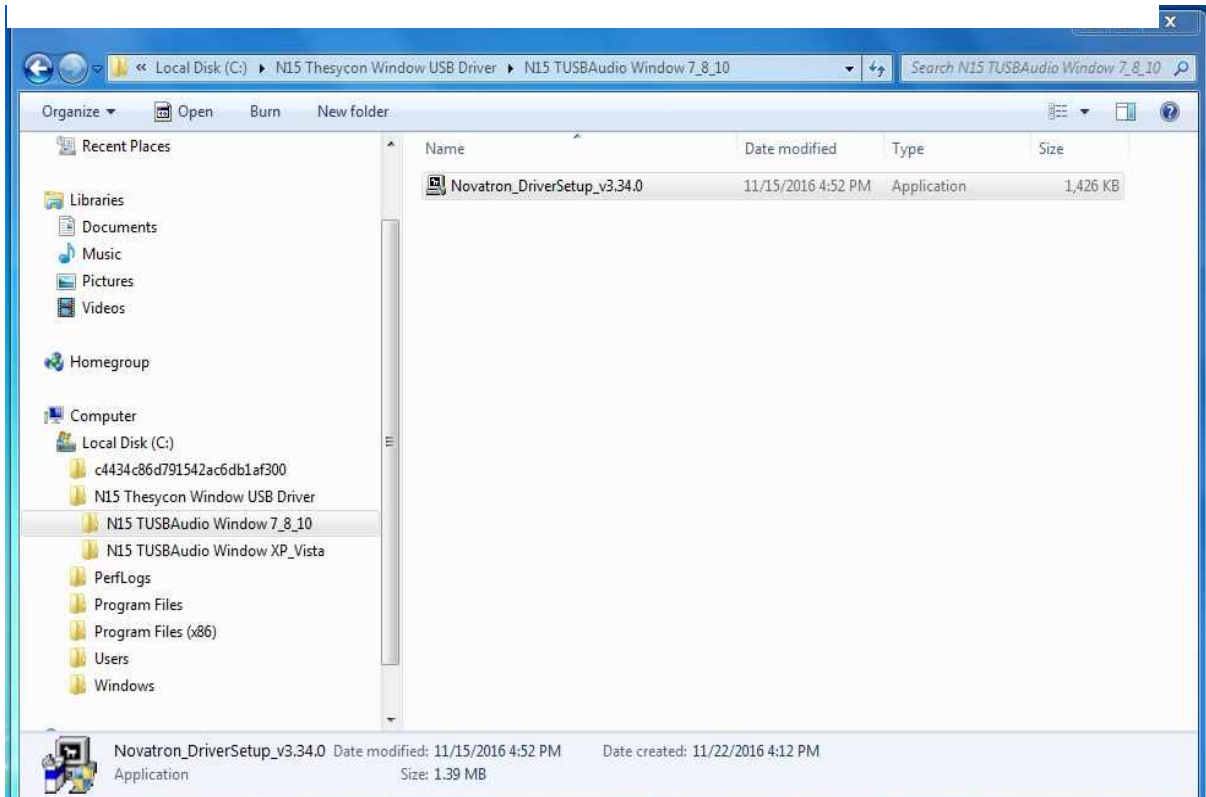
※ You can download USB Audio Class 2.0 driver software from our website, [www.cocktailaudio.com](http://www.cocktailaudio.com) or from our local distributor website.

## 2-3. How to install USB Audio Driver Software to Windows PC

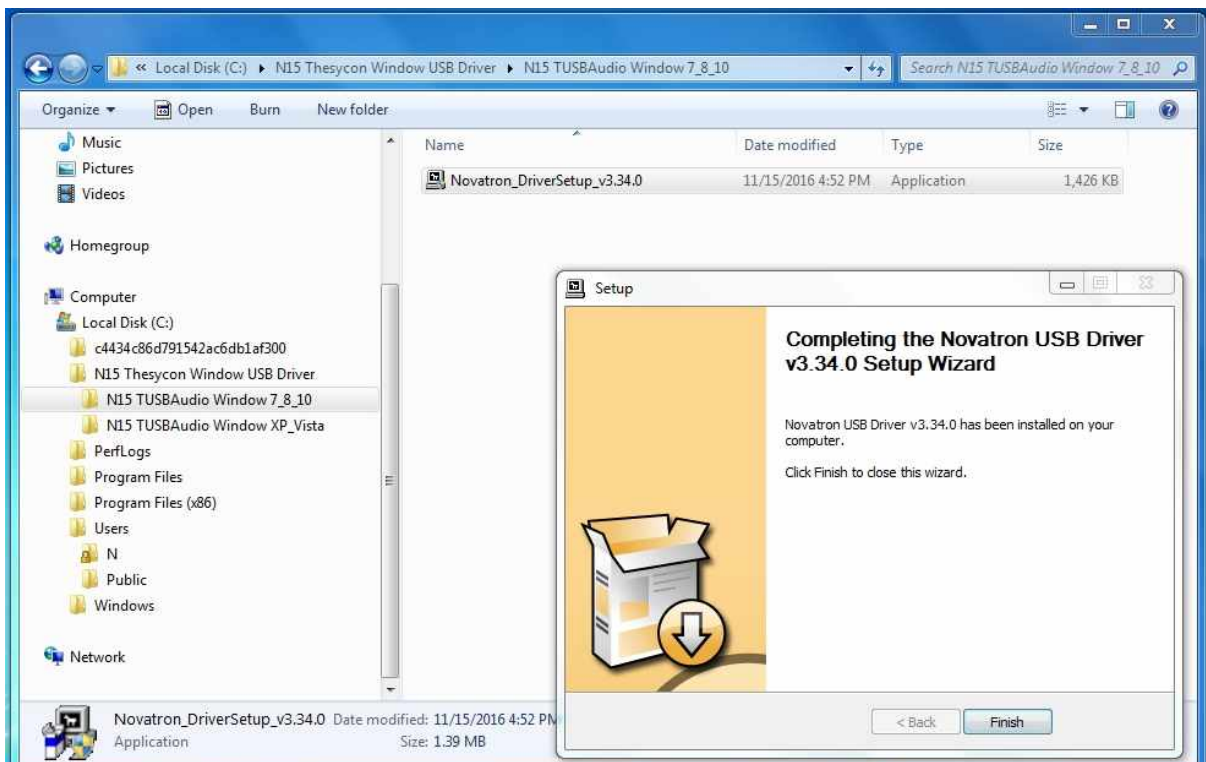
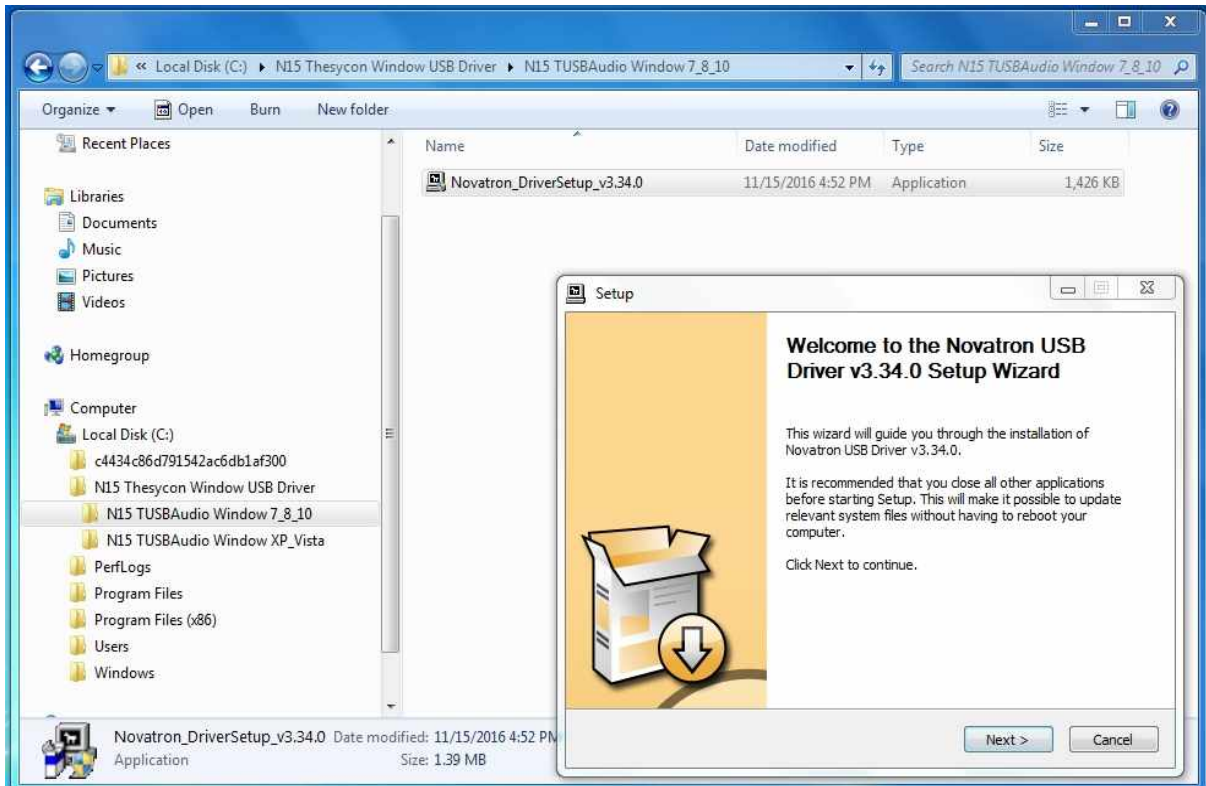
Unzip the downloaded Driver Software. Two folder will show up like below.



Select one suitable for your PC OS and run its EXE file with double click to install.



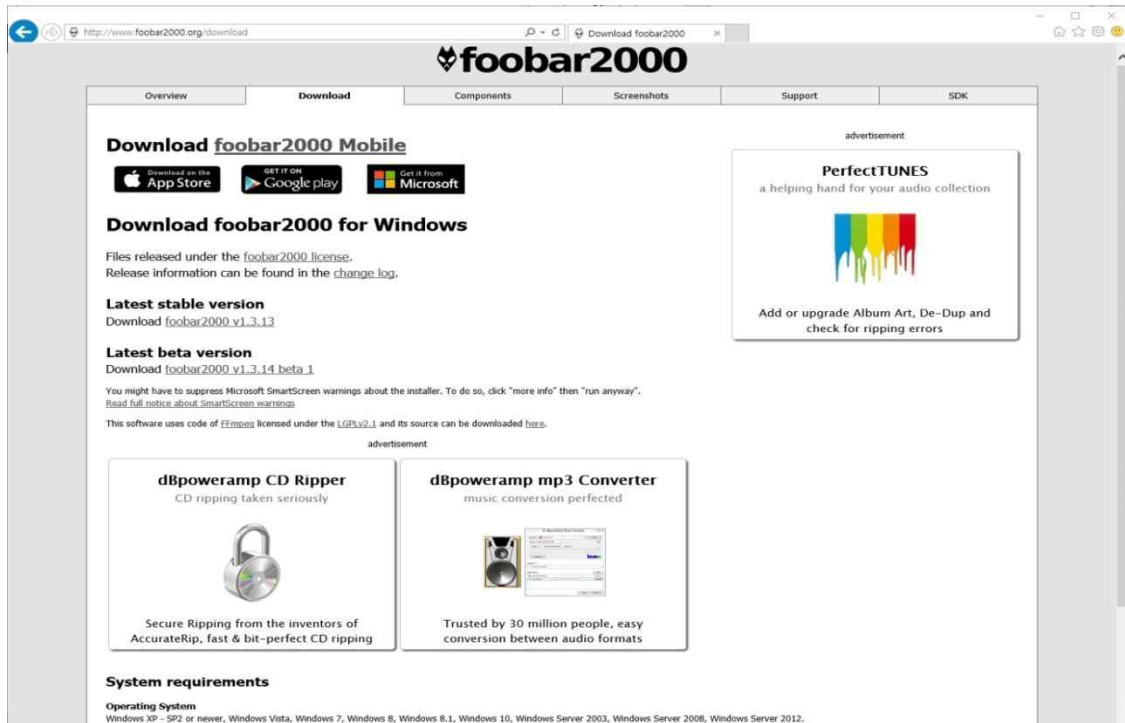
According to Setup Wizard, you can finish installation like below





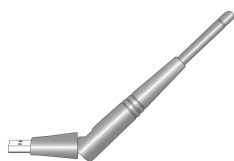
## 2-4. Special software (Player) for DSD file on your Windows PC

To play DSD file on your PC, you need to install a special software(player) like Foobar2000 or JRiver Media Center. You can download foobar2000 from [www.foobar2000.org](http://www.foobar2000.org), and install it into your PC. You can download JRiver Media Center from [www.jriver.com](http://www.jriver.com)



## 2-5. Optional items, WiFi USB dongle

If you purchased optional items, the WiFi USB dongle, it looks like below.



801.11b/g/n WiFi USB dongle

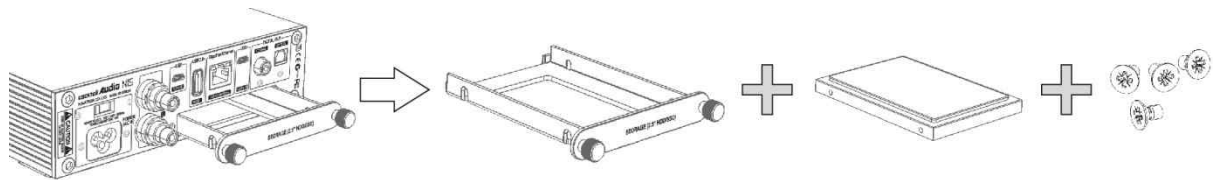
[NOTICE] The wifi dongle not approved by N15D manufacturer will not work properly

## 2-6. N15 purchased without storage.

If needed, you can install 2.5" SATA hard disk or SSD to N15D like below picture.

For formatting of the installed storage to N15D, please refer to the 5-6-6. Format Storage (Page 46)

## 2-6-1. HDD installation



【 TIP 1 】 N15D supports 2.5" SATA hard disk and solid state drive (SSD)

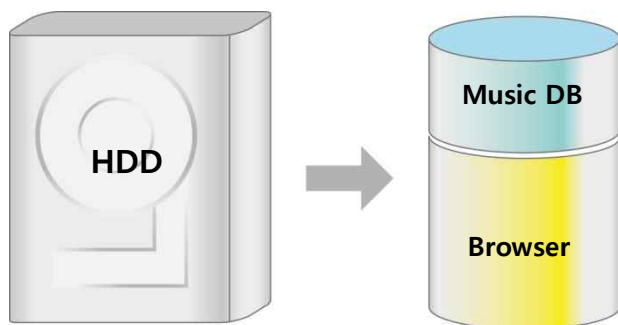
## 2-6-2. HDD Format

※ Refer to the 5-6-6. Format Storage (Page 46)

## 2-7. N15D purchased with an internal storage installed.

Check whether the storage is formatted, or not. If the storage is not formatted, please format it according to the 5-6-6. Format Storage (Page 46)

## 2-8. Two(2) spaces of N15D local storage



Local storage will be divided into two spaces. One is for Music DB area, the other is for Browser area.

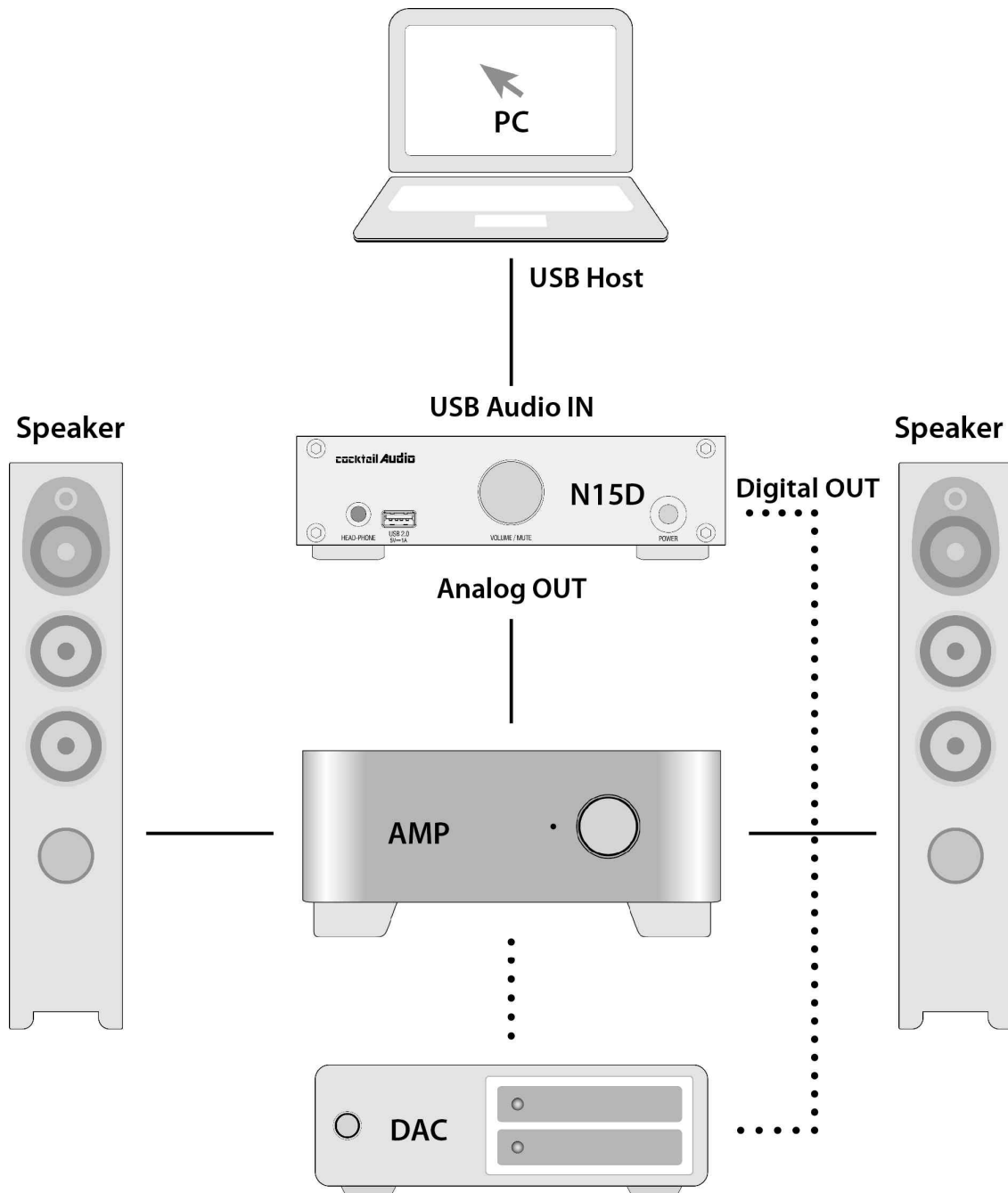
MusicDB area can't be seen at Browser.

## 2-9. Extra devices needed to use N15D

PC, Router, Wired LAN cable, Amplifier, Speaker, Control devices like smart phone or tablet PC

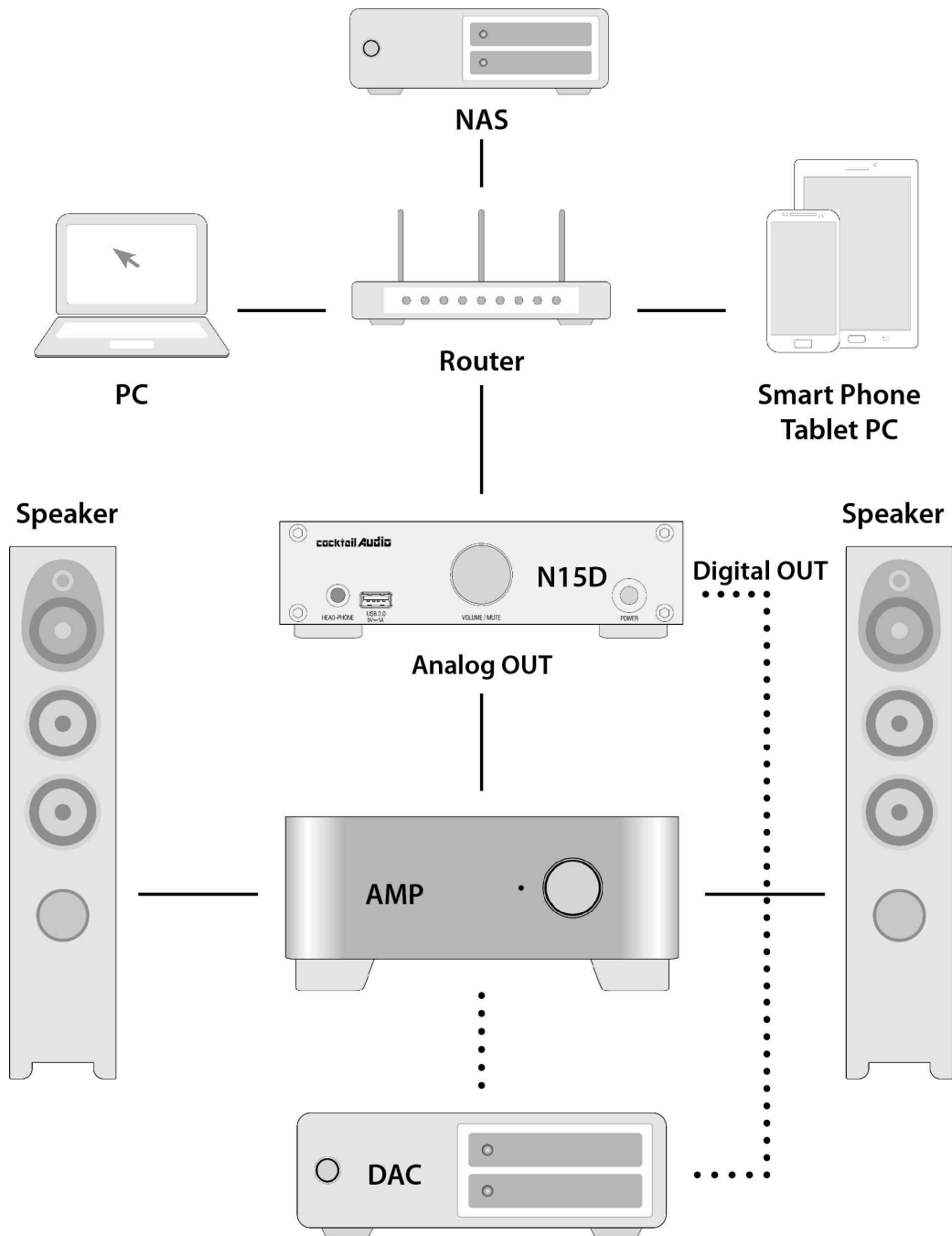
### 3. Connection

#### 3-1. Connection to use N15D as an USB Digital to Analog Converter(DAC)



You need a USB cable, USB Audio 2.0 Driver Software and Special Software(Player) like Foobar2000 to playback DSD file via your PC

### 3-2. Connection to use N15D as Network Adaptor for existing amplifier or DAC



You need network devices like Router, network cable, USB WiFi dongle(if you want to use wireless network), mobile device for remote control and Music X app

## 4. Turn On and Start

### 4-1. When using N15D as an USB Digital to Analog Converter(DAC)

- ① Install USB Audio 2.0 Driver Software to your Windows PC(Refer to 2-3 on page 23)
- ② Install a special software(Player) like foobar2000 if you want to play DSD file in your PC(Refer to 2-4 on page 25)
- ③ Connect N15D(USB Audio IN) and your PC(USB Host port) via USB cable
- ④ Remaining procedures will be understood easily

### 4-2. When using N15D as Music Storage/Player, Network Adapter for existing Amplifier or DAC

※ You need Wired LAN cable, Router, mobile device like smart phone, Music X NEO app, (WiFi USB dongle if you want to use wireless LAN)

※ Music X NEO app is available at Google Play Store and Apple App Store

- ① Install Music X NEO app to your mobile device
  - ② Connect Wired LAN cable to N15D and Router
- ※ For wired LAN connection, DHCP(Auto IP) is set as default
- ③ Check if your mobile device is connected to the Router to which N15D is connected
  - ④ Power ON N15D, then it will be connected to Wired Network automatically.
  - ⑤ Try starting Music X NEO app after around 40 seconds to one(1) minute
  - ⑥ Music X NEO App will detect N15D properly.
  - ⑦ Now, you can do settings at SETUP as you want, and enjoy using it

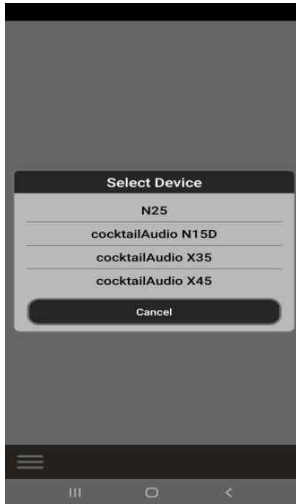
**<NOTE>** How to connect via Wireless LAN

※ You need to prepare the USB WiFi dongle that N15D manufacturer supplies

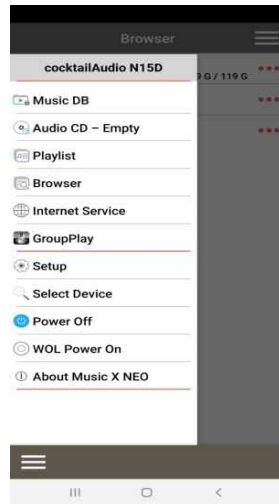
- ① First, N15D should be connected to network via Wired LAN
  - ② Insert WiFi USB dongle to N15D USB host port
  - ③ Go to SETUP>Network>Wireless Setup>
  - ④ There will be Scan AP List and Set AP Manually
  - ⑤ Remaining procedures will be understood easily as Music X NEO app will guide you.
- ※ For more detailed explanation, refer to 5-3-1. Network(Setup) on page 20

## 5. SETUP

※N15D is detected

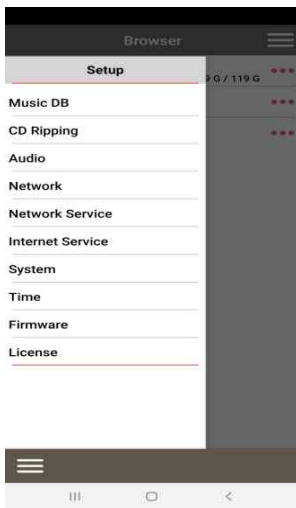


※ Home Screen



① Start MusicX NEO App to do settings at SETUP

② Click 'Setup' to go into Setup

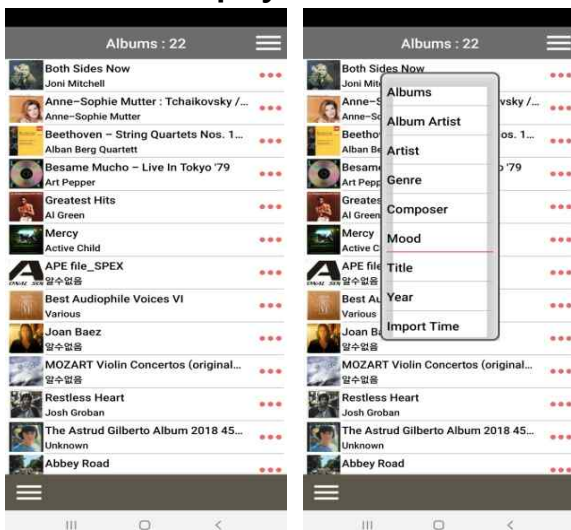


There are 10 items like Music DB, CD Ripping, Audio, Network, Network Service, Internet Service, System, Time, Firmware and License.

③ Click 'Music DB' to open Music DB item list like below

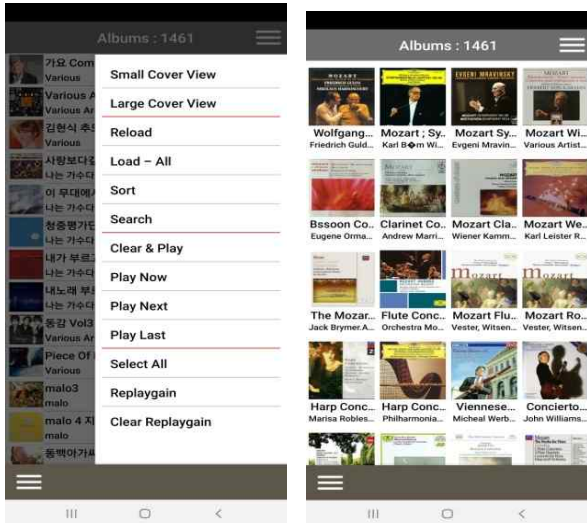
### 5-1. Music DB

#### 5-1-1. Display Mode



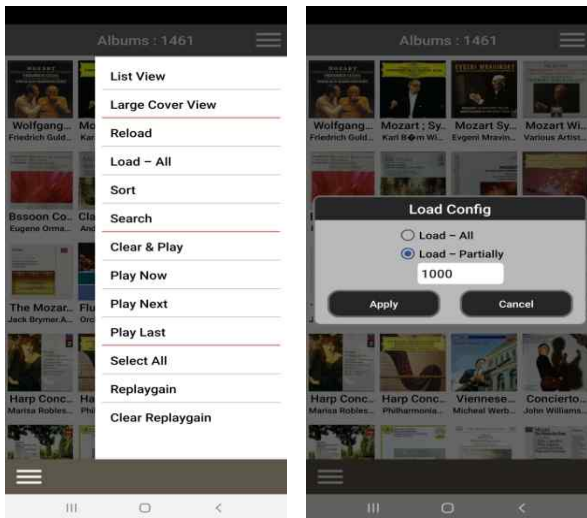
Click the Upper center display status menu (Status shown now is 'Albums : 22') to open 9 options to list up contents in Music DB as you want.

### 5-1-2. Cover View



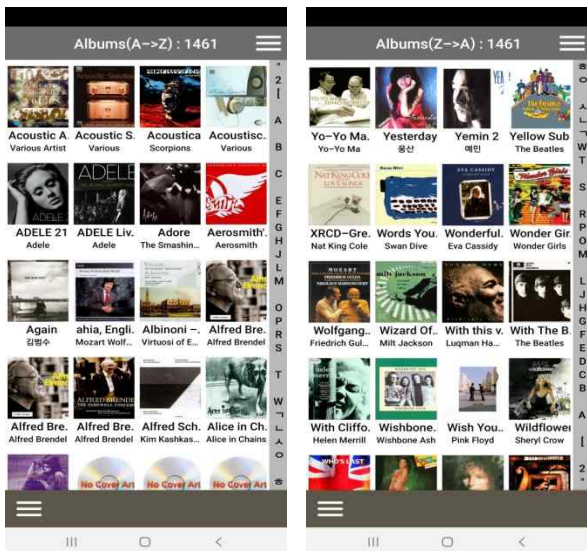
Click 'Cover View', you can see the list with small or large cover art.

### 5-1-3. Load



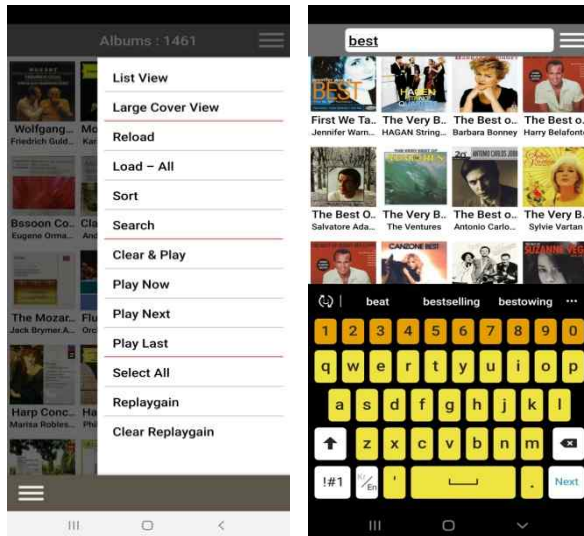
You can set the numbers of list with 'Load' menu

### 5-1-4. Sort



You can change the sort order of Genre, Album, Track... list with 3(three) modes like import time(default), alphabetical order (A~Z) or reverse alphabetical order (Z~A) by click the 'SORT' menu repeatedly.

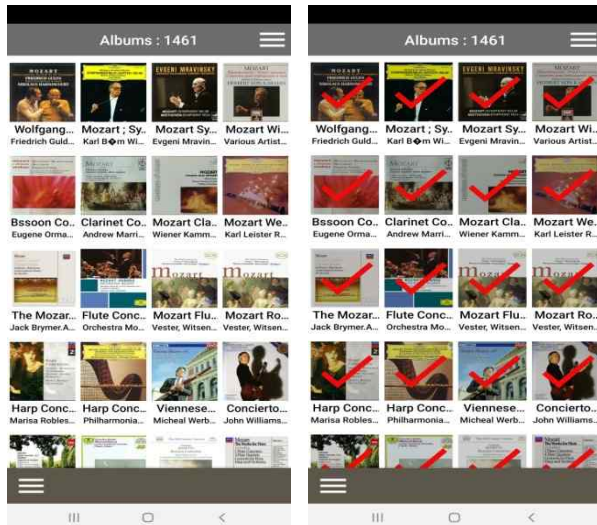
## 5-1-5. Search



Click the 'Search' menu, and enter the strings which you want to search.

Then you can see the all lists which have search strings.

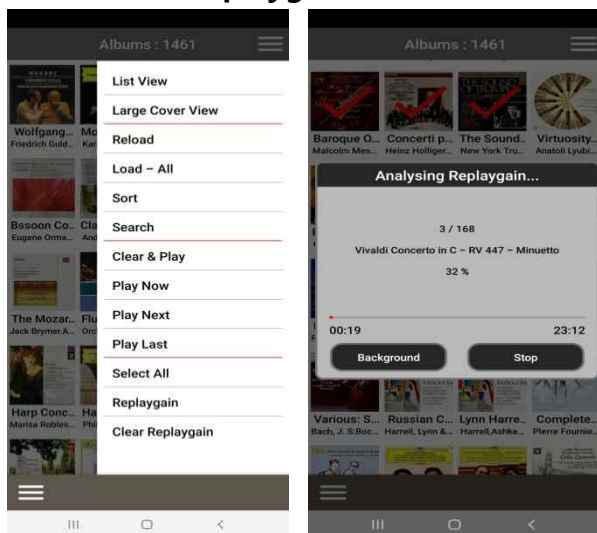
## 5-1-6. Select All



Click the 'Select All' menu, all listed albums, tracks will be selected.

Then you can manage the selected lists like Play, Replaygain.

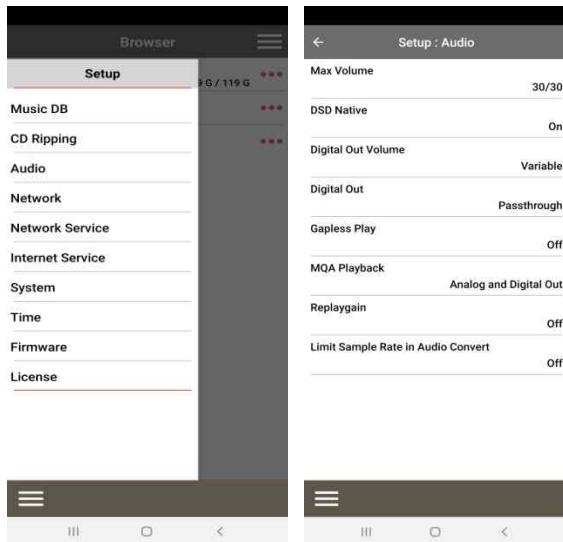
## 5-1-7. Replaygain



Click the 'Replaygain' menu, you can get the Replaygain value of each tracks.



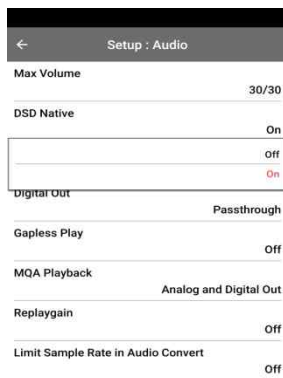
## 5-2. Audio



Click 'Audio' to open setting items for Audio.

There are Eight(8) items like Max Volume, DSD Native, Digital Out Volume, Digital Out, Gapless Play, MQA Playback, Replaygain, Limit Sample rate in Audio Convert

### 5-2-1. DSD Native

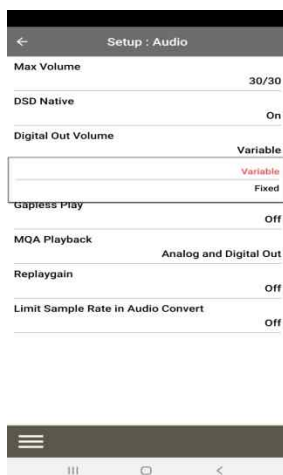


1) DSD Native ON(default): When playing DSD file, signal will go out via N15D Analog Out only.

2) DSD Native OFF: When playing DSD file, signal (PCM) will go out via both of Analog Out and Digital Out



### 5-2-2. Digital Out Volume

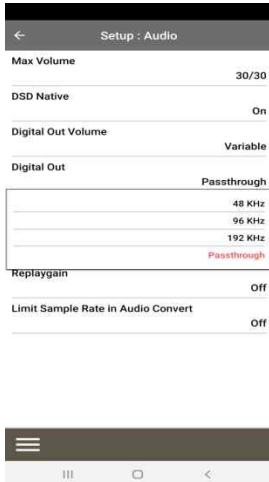


You can select Digital Out Volume as 'Variable' or 'Fixed'  
Default is 'Variable'

※ Variable : You can control volume by N15D

※ Fixed: You can't control volume by N15D

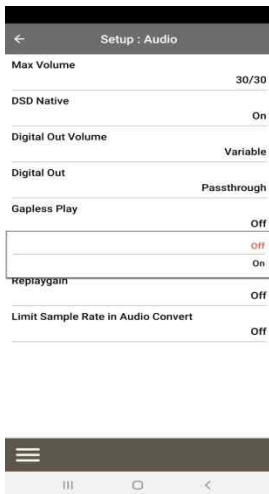
### 5-2-3. Digital Out



You can select one of four(4) options like Pass-Through, 48Khz, 96Khz and 192Khz.

- 1) Pass-through : Original resolution(Frequency)
  - 2) 48Khz : Max 48KHz frequency
  - 3) 96Khz : Max 96KHz frequency
  - 4) 192Khz : Max 192KHz frequency
- ※ Default: 96Khz

### 5-2-4. Gapless Play



The N15D supports gapless playback function for MP3 files, WAV, FLAC and DSD files only.

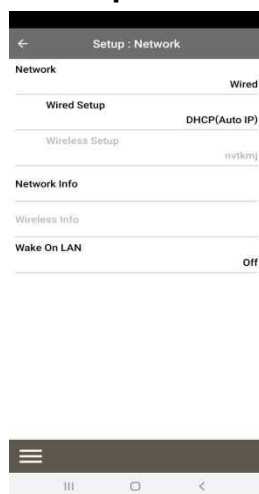
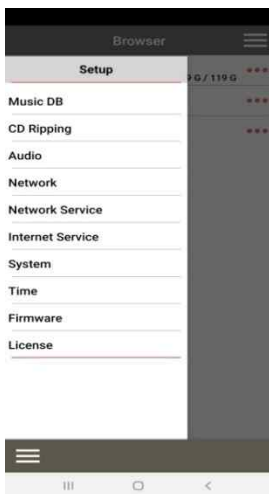
※ Default: ON

※LAME-encoded MP3 files only supported

※The Gapless play function works properly on 'Repeat All' and 'Normal' modes only. For example in 'Shuffle' mode Gapless play is not supported

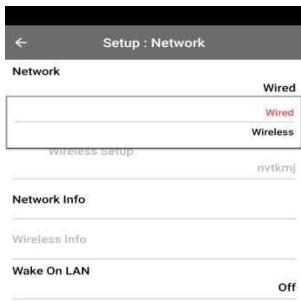
## 5-3 Network

### 5-3-1. Network(Setup)

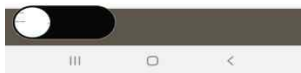


① Click 'Network' to open network setup option like left.

② Click 'Network' of right picture to open the option of 'None', 'Wired' or 'Wireless' like below picture.



- ③ Select Wired or Wireless as you want
- ④ Click 'Left Arrow' on the top to go back previous screen
- ⑤ Click 'Wired Setup' to do settings for Wired LAN

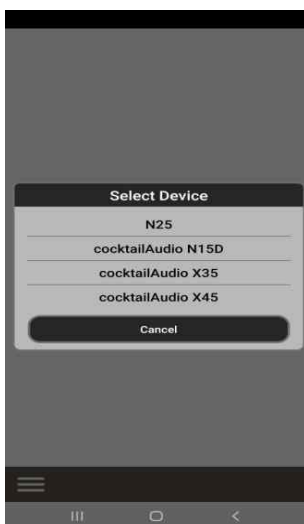


### 5-3-1-1. Wired Setup

#### 5-3-1-1-1. DHCP(Auto IP)



- ① Click 'DHCP(Auto IP) and click OK( You don't need to enter any value)
- ② Popup window will show up like below



- ③ Connected!
- ④ Select 'cocktailAudio N15D' and you can start Music X NEO app with N15D

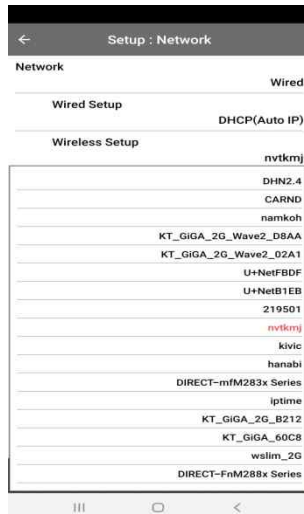
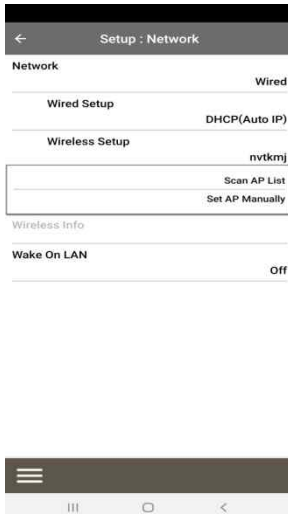
### 5-3-1-1-2. Static IP



- ① Click Static IP
- ② Enter the values such as; IP Address, Subnet mask, etc.
- ③ Select OK

### 5-3-1-2. Wireless Setup

#### 5-3-1-2-1. Open SSID

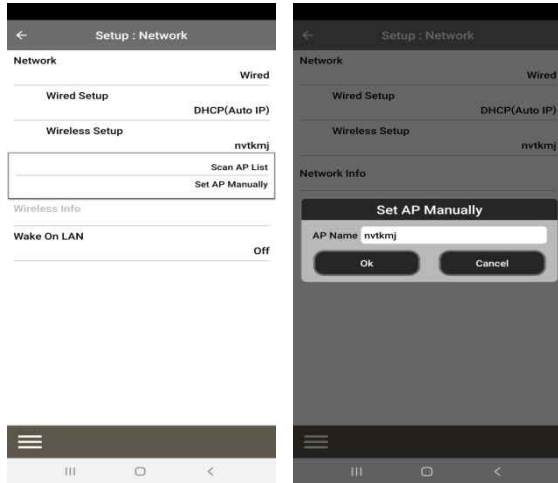


- ① Click 'Scan AP List'
- ② Select AP you want



- ③ Enter password'
- ④ Click OK to connect

### 5-3-1-2-2. Hidden SSID

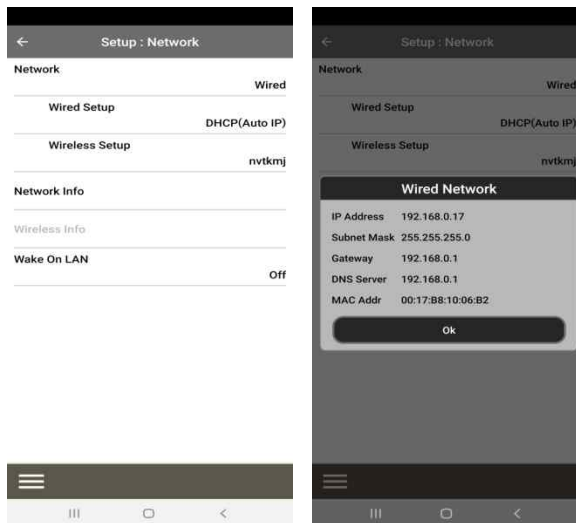


- ① Select 'Set AP Manually'
- ② Input AP name and click OK
- ③ You will be asked to input password
- ④ Input password to connect

### 5-3-1-2-3. WiFi Repeater Roaming function

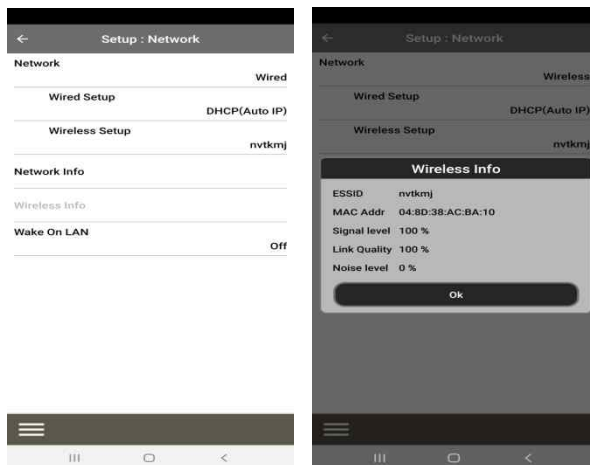
In case that signal strength of the connected AP goes down -45db, the N15D will be connected to the AP which has same SSID and better signal strength if it is detected

### 5-3-2. Network Info



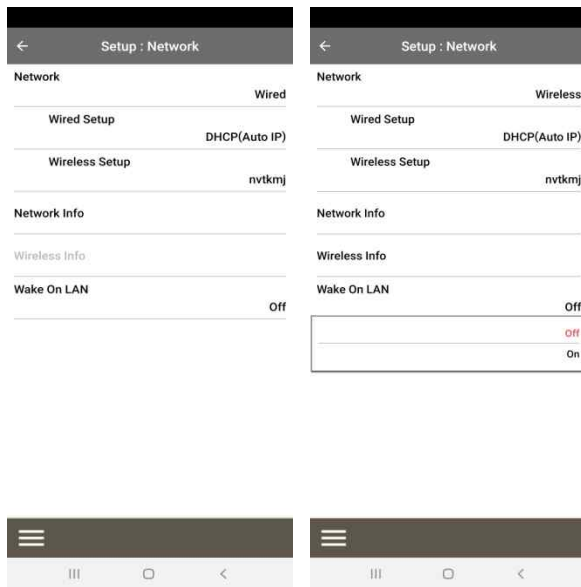
Select Network Info to check network information like left picture.

### 5-3-3. Wireless Info



Select Wireless to check Wireless LAN signal strength

## 5-3-4. Wake On LAN

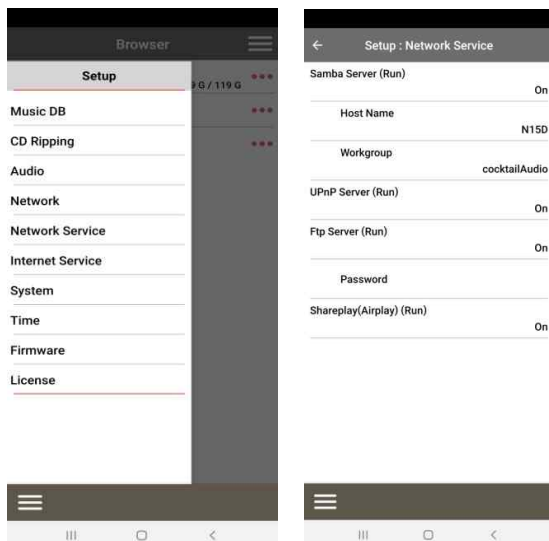


If Wake ON LAN is set as ON, N15D can be powered ON by a signal from outside via network.

※ Default: OFF

<NOTICE> In case that Wake ON LAN(WOL) is set as ON, N15D Power LED on the front will stay as Blue when power it off by remote App. If WOL is set as OFF, Power LED will blink when power it off by remote App.

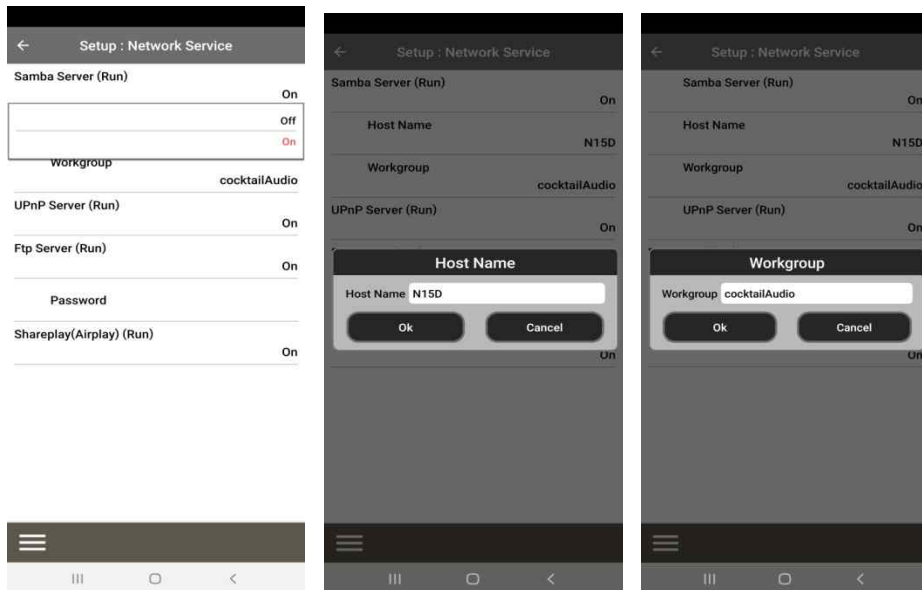
## 5-4. Network Service



Click 'Network Service'. There are several items like Samba Server, UPnP Server and FTP Server and Shareplay(Airplay). You can setup each function like below.

### 5-4-1. Samba Server

If you want to see the folders in the N15D hard disk through your network connected PC you can set up the following:



- ① Set 'Samba Server' as ON(※ Default: OFF)
- ② Click 'Host Name' and 'Workgroup'
- ③ Enter host name(default: N15D) and workgroup name(cocktailAudio) and confirm with the OK

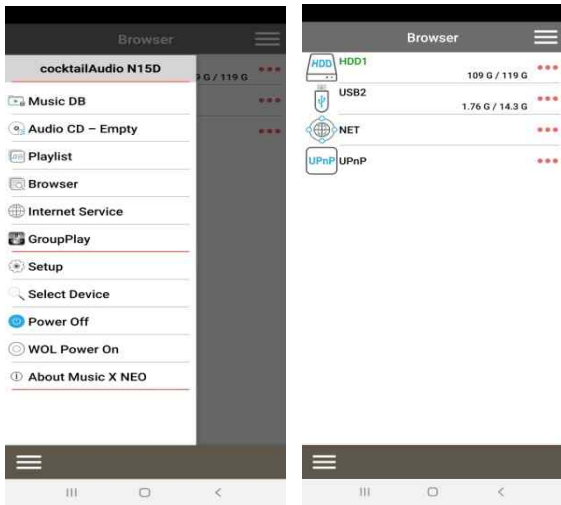
※ **How to see the folders of the N15D hard disk on your PC screen (based on Window 7 )**

- ① Click the 'START' icon on the left/bottom on your monitor.
- ② Select 'Computer' and click it.
- ③ You may see 'Network'
- ④ Click 'Network', then you may see all servers (The N15D default host name is N15D) connected to local network.
- ⑤ Select 'N15D' and click it.
- ⑥ You may see the two folders, LocalStorages and MusicDB.

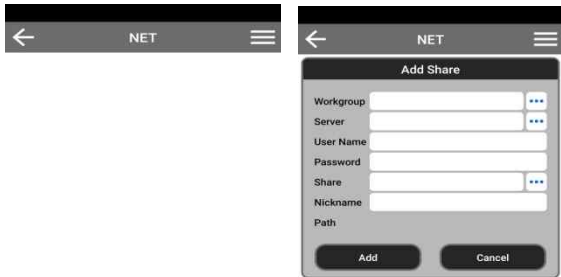
※ **WARNING : You must NOT access to the MusicDB folder related to database. If you delete or edit something inside of the folder, it will make MusicDB serious trouble.**

## 5-4-2. Network Sharing(Samba Client)

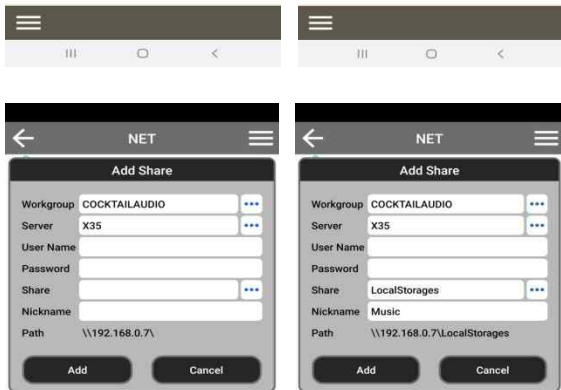
You can connect the N15D and the storage devices in the same network. If you want to stream the file in remote devices and play it with N15D, you need to do 'network sharing' first as below.



- ① Go to Browser and click 'NET' when network is enabled
- ② Click the menu icon on the right/top to open 'Add Share' screen like below



- ③ Click 'Workg... >' to get Workgroup and Server like below.



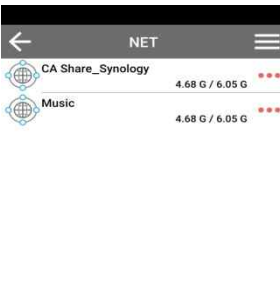
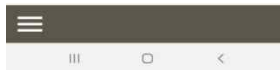
- ④ Select Workgroup and Server you want







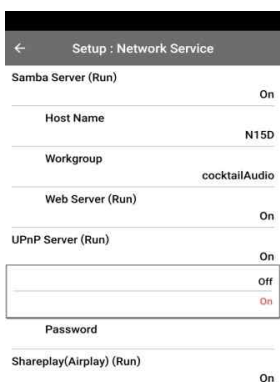
- ⑤ Click 'Share.....>' to get shared folder
- ⑥ Select shared folder(for example, Users) and confirm with OK



- ⑦ Shared folder, Users is added completely like left picture.

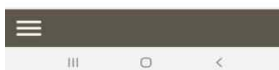


### 5-4-3. UPnP Server

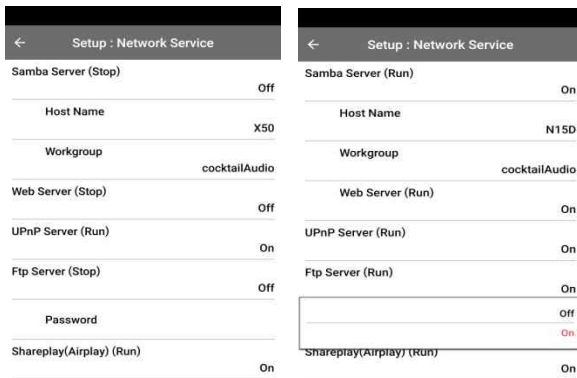


If you have a device (like a PC) which supports UPnP client protocol, you can play music stored in the N15D Music DB through the UPnP device.

※ Default: ON



## 5-4-4. FTP Server

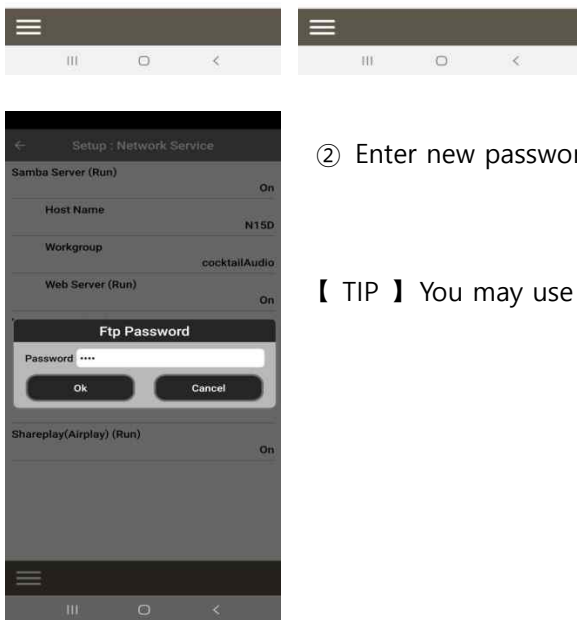


① Select FTP Server and set it as ON to use FTP Server function

※ User Name is fixed as 'Guest'

※ Default password is 0000

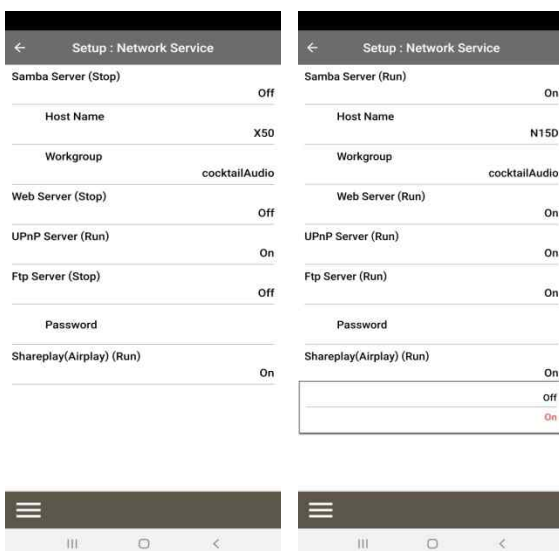
You may change password should you wish to like below.



② Enter new password and confirm it with OK

【 TIP 】 You may use the FTP software like 'File Zilla'

## 5-4-5. Shareplay(Airplay)



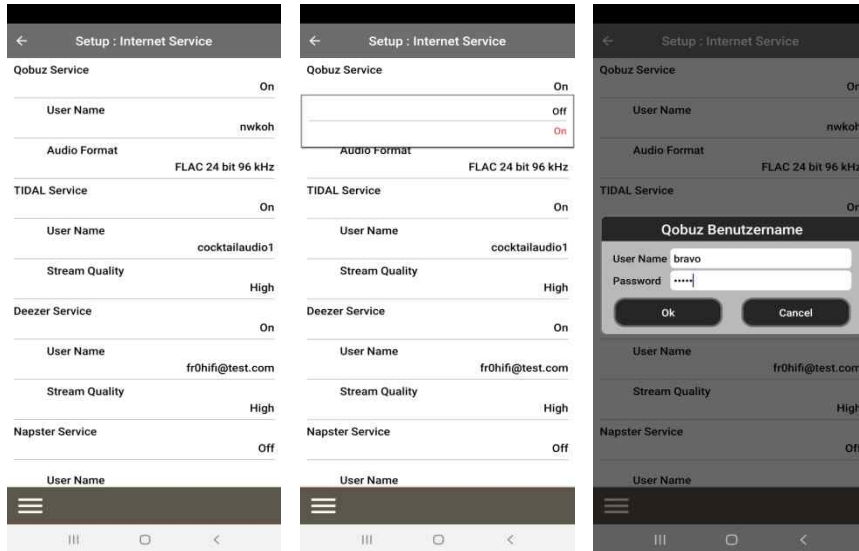
You can set Airplay function as OFF if needed

※ Default: ON

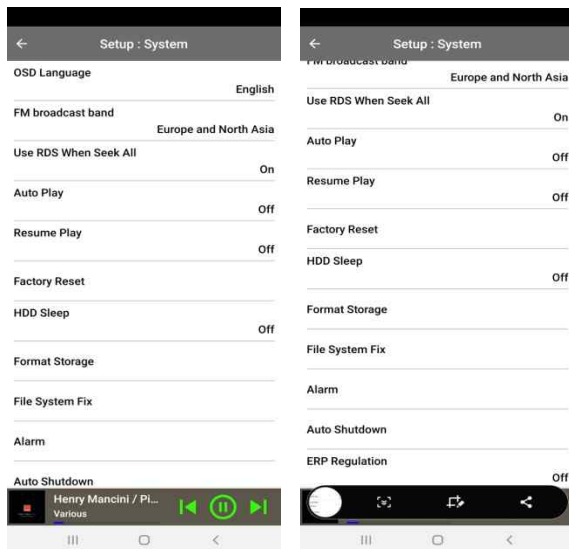
## 5-5. Internet Service

N15D integrated Online Music Services into its software. So, you can play Qobuz, TIDAL, Deezer, Amazon Music, HighResAudio and Airable Internet Radio/Podcast with N15D directly if you subscribe for those services and put their user name and password here properly.

✘ No need subscription for Airable Internet Radio/Podcast

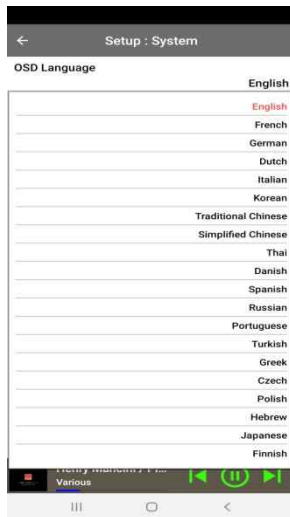


## 5-6. System



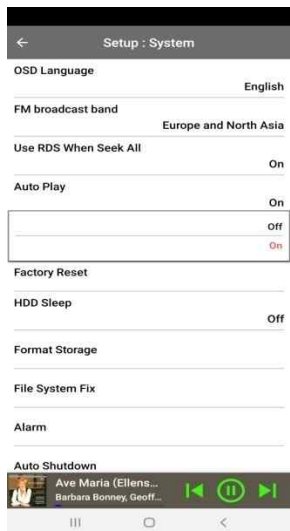
Click 'System' to do settings for various functions like left

## 5-6-1. OSD(On Screen Display) Language



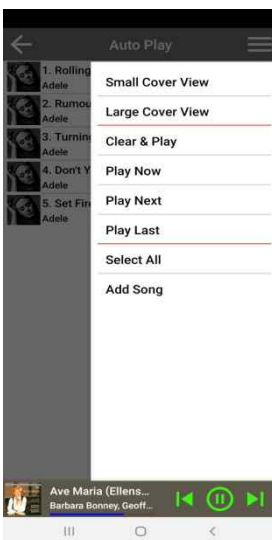
Select a language you want to use

## 5-6-2. Auto Play



When the power is ON, Auto Play function allows the N15D to boot up and start playing automatically the song in the Auto Play folder in the Playlist on the home screen.

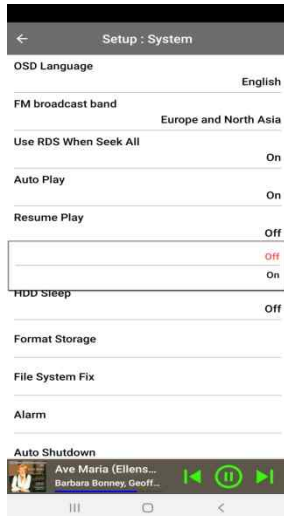
Select Auto Play and confirm with the OK button. You can set it to ON or OFF.(※ Default : OFF)



How to insert songs into Auto Play folder

- ① Go into 'Playlists' to display 'Auto Play'
- ② Click 'Auto Play' to open
- ③ Click 'Bar Menu' on the right/top
- ④ Select 'Add New Songs'
- ⑤ Music X NOE app will guide you to finalize it.

### 5-6-3. Resume Play



When you boot up the N15D, it will automatically resume playing the music in the Music DB, Browser or i-Radio from where it was last stopped.

Select Resume Play to set it as "ON" or "OFF"

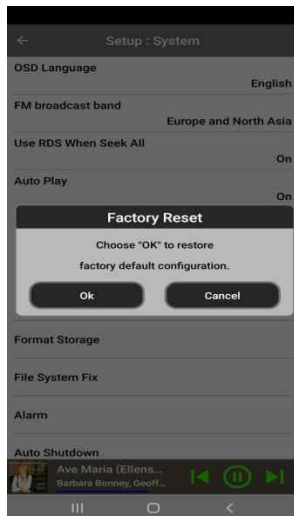
※ Default is OFF

#### 【 TIP 】

※This function does NOT work in the case that the 'Alarm' function or 'Auto Play' function is enabled.

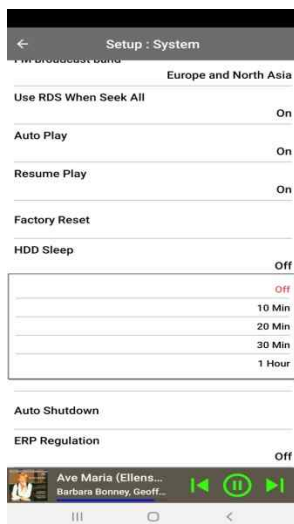
※Function priority : Alarm function ----→ Auto Play function -----→ Resume Play function

### 5-6-4. Factory Reset



To restore changed values of setup, click 'Factory Reset' to run it.

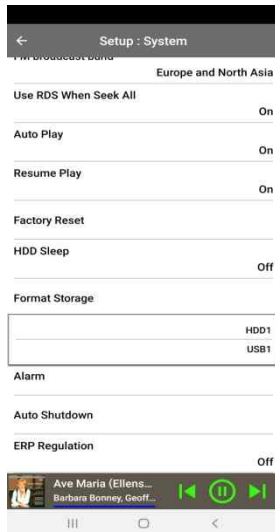
### 5-6-5. HDD Sleep



You can make N15D HDD go to sleep mode by this setting. There are five (5) options like OFF, 10 Min, 20 Min, 30 Min and 1 Hour. During the selected time, if no access to HDD, the HDD goes into sleep mode.

※ For the N15D to wake up from HDD sleep mode, it takes 3~4 seconds. During this time, the N15D's response to the input signal from remote app will be delayed.

## 5-6-6. Format Storage

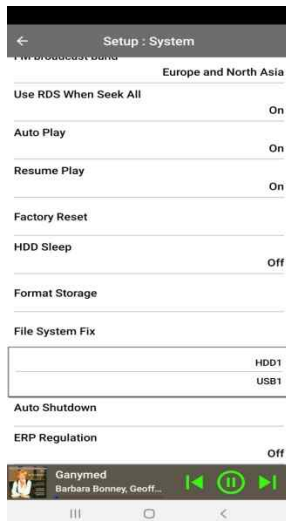


※ NOTE: HDD Format function of the N15D does not support multi-partitioning. If you like to make two (2) partitions on the HDD we recommend this is done using your computer.

※ NOTE: The N15D offers the function to format internal hard disk and external USB devices also. The format procedure is same for the both storages.

<NOTICE> If you format HDD, all data in the HDD will be lost

## 5-6-7. File System Fix

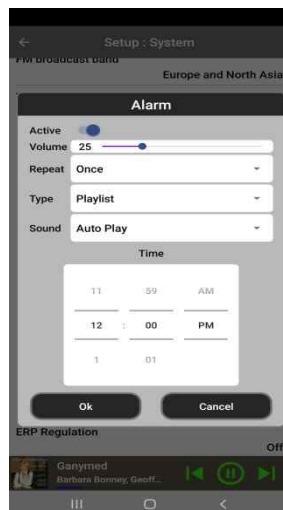
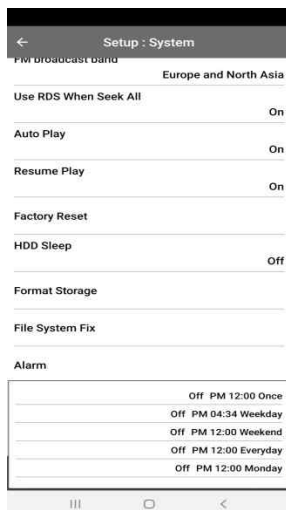


When you suspect there is some problem in the file system of storages like internal HDD or connected USB storage, you can try this function to remove some error in file system of storages.

Select File System Fix and Click the target storage.

**【 Caution 】** We recommend you NOT to run this function if the file system of the N15D hard disk has no problems.

## 5-6-8. Alarm

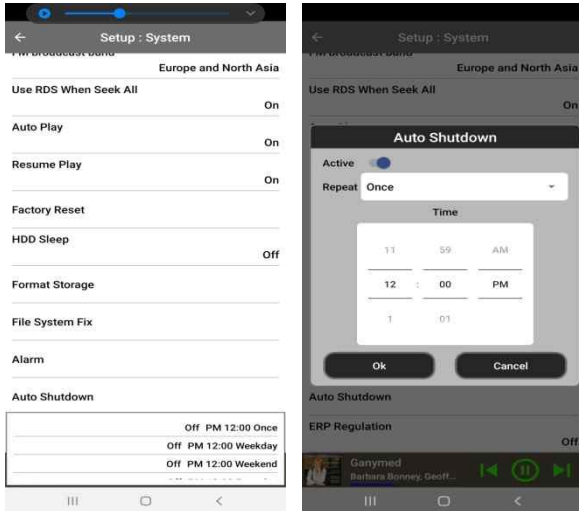


You can set six (6) alarm settings on the N15D

- ① Go to SETUP>System>Alarm
- ② You can set it as you want

※ Make sure to set 'Snooze' to the right side to make Alarm setting enable.

## 5-6-9. Auto Shutdown



The N15D will power off automatically at the assigned date and time.

- ① Click SETUP>System>Auto Shutdown
- ② Set time as you want
- ③ Confirm with OK

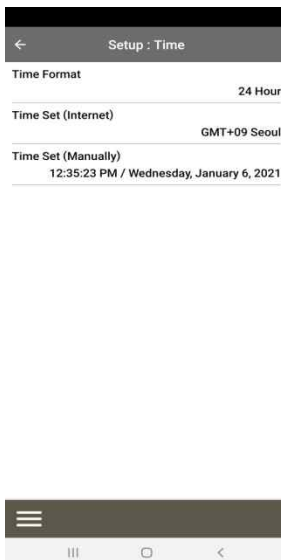
## 5-6-10. ERP Regulation



According to ErP Regulation, the N15D will be powered OFF automatically after 20 minutes without any working or input signal if this setting is ON.

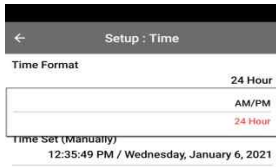
※ Default : OFF

## 5-7. Time

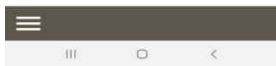


You can set time format and time via internet or by manually here.

### 5-7-1. Time Format



N15D can display one of two ways, AM/PM or 24Hours. You can select one of them



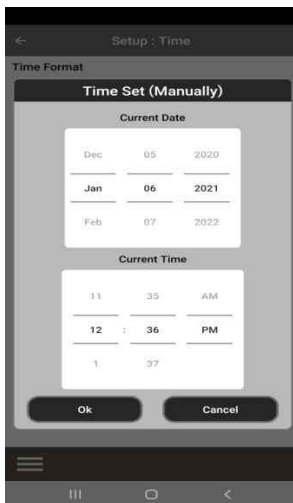
### 5-7-2. Time Set(Internet)



Click 'Time Set(Internet)' to set your time zone via Internet



### 5-7-3. Time Set(Manually)



Without a network (internet) connection, you can set time manually. Click 'Time Set (Manual)' to set time manually.



## 5-8. Firmware



You can check the current firmware version, install new firmware and check if there is new firmware available at our firmware server



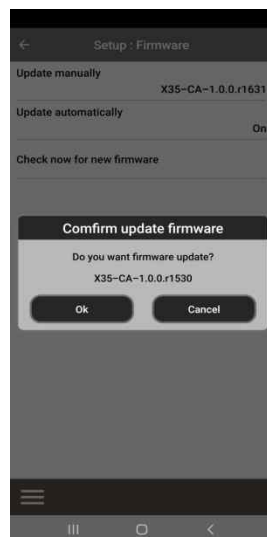
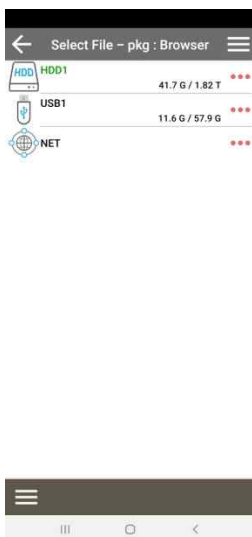
### 5-8-1. Current Version



You can find the version of firmware which is installed at your N15D

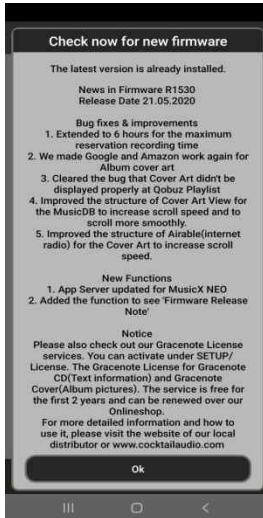


### 5-8-2. Update manually(Firmware update manually)



- ① Obtain the new firmware first and put it onto the root directory of USB memory stick or HDD of N15D.
  - ② Plug the USB memory stick into the USB host port of the N15D.
  - ③ Go to SETUP and click Firmware and click 'Update Manually'
  - ④ Look for new firmware pkg file and click it to start update
- <WARNING> Don't power off during firmware update. We recommend to wait minimum 5 minutes

### 5-8-3. Check now for new firmware and Update by network



When you want to check if your N15D has the latest firmware installed or higher version is available in firmware server, click 'Check now for new firmware'

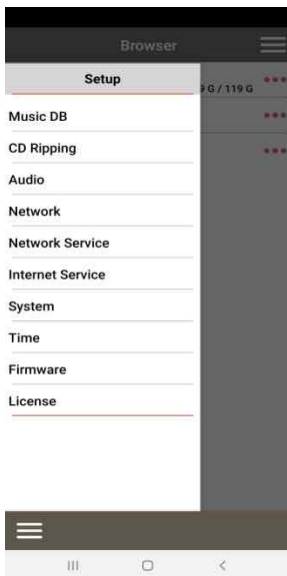
If there is higher version is available in our server, you will be asked if you want to update it now.

<WARNING> Firmware Update by network

After downloading new firmware, it will take around minimum 3 minutes to finalize firmware update. You must not power off during firmware update.

## 6. Using N15D with Music X NEO App

### 6-1. Music DB



※ For this function, you need to set a storage for N15D Music DB. Local HDD, USB storage, or NAS can be a storage for N15D Music DB

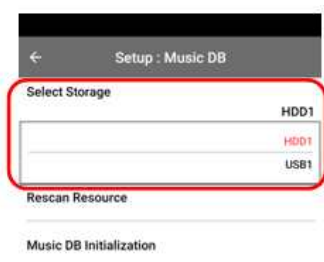
#### 6-1-1. What is the Music DB of N15D

The Music DB is a database created with only index (tag info, metadata and cover art) of music files stored in each folder of the storages connected to N15D. The music files themselves will remain in their original locations. Users can easily register(scan) music files to the Music DB by folder unit, and remove it from the Music DB easily. If you do CD ripping with N15D, ripped files will be stored in the 'My Music' folder of main storage (green colored storage in the Browser mode), and index

data of the ripped files will be registered(scanned) to the Music DB automatically.

Once creating Music DB, it will be very helpful for you to enjoy your music collection with various functions like search, display, editing, classify, making playlist, export song and various view modes, etc.

### 6-1-2. How to make Music DB for N15D



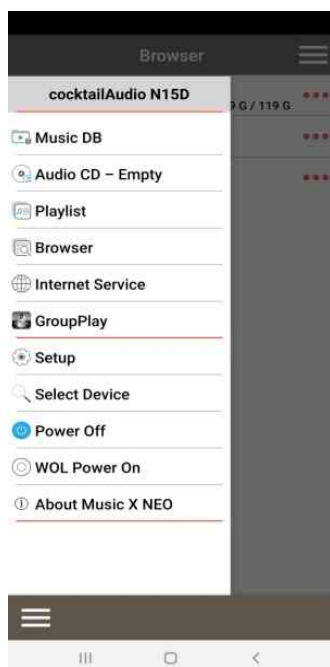
- ① Connect storage to N15D
- ② Go to SETUP>MusicDB>Storage
- ③ Click the storage you want to set as main storage
- ④ Prepare music songs to USB, local HDD or NAS
- ⑤ Go to Browser and run 'Scan Music DB' function

※ NOTE:

The ripped files of CDs will be stored in the 'My Music' folder in the main storage (green colored storage). The album cover art of all albums in the Music DB will be stored in the main storage. So, if you remove the main storage, album cover art may not be listed properly on the album cover art list mode for the Music DB.

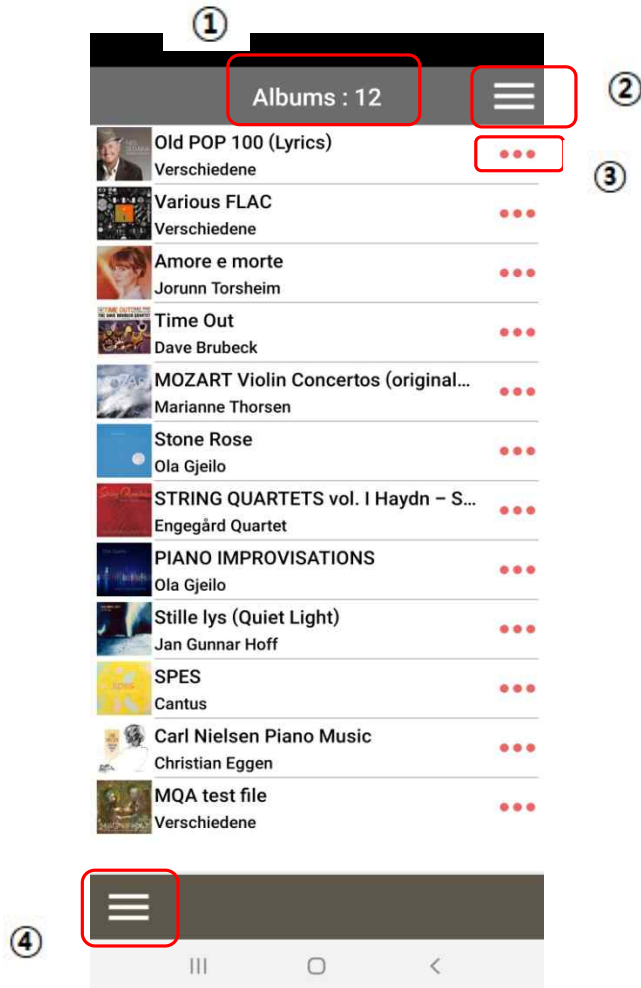


### 6-1-3. How to use Music X NEO app for Music DB

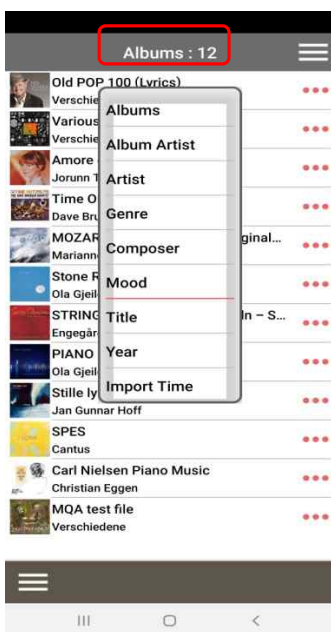


Go into Music DB by clicking 'Music DB'

## ※ Main Screen of Music DB



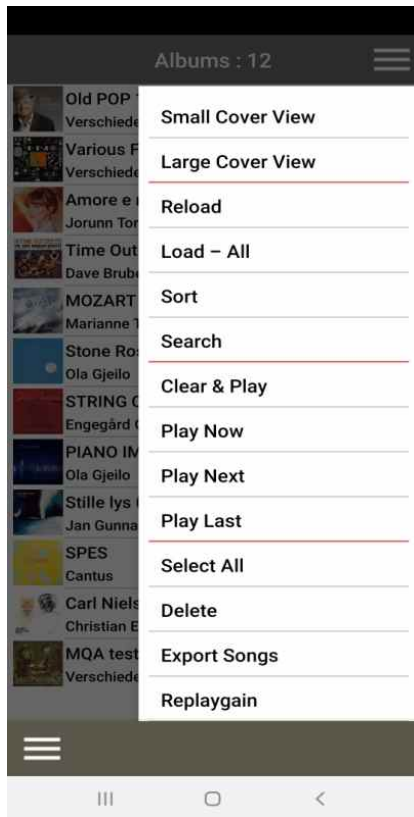
### ① Albums



This is 'Display Mode'

You can change 'Display Mode' by clicking 'Albums : 12'. Then you can select one of 9(nine) display mode.

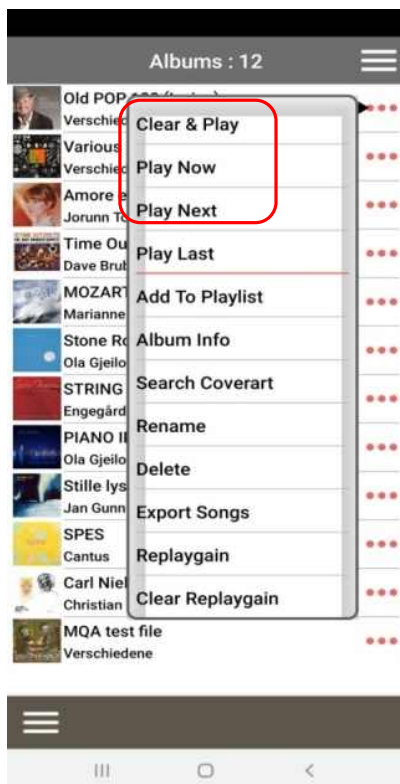
## ② Execution Menu Icon



This is for executing of various functions.

For example, if you click this icon, you can change cover view mode, play selected albums, Load the MusicDB files, sort, search, delete, export songs, get the Replaygain value, and so on...

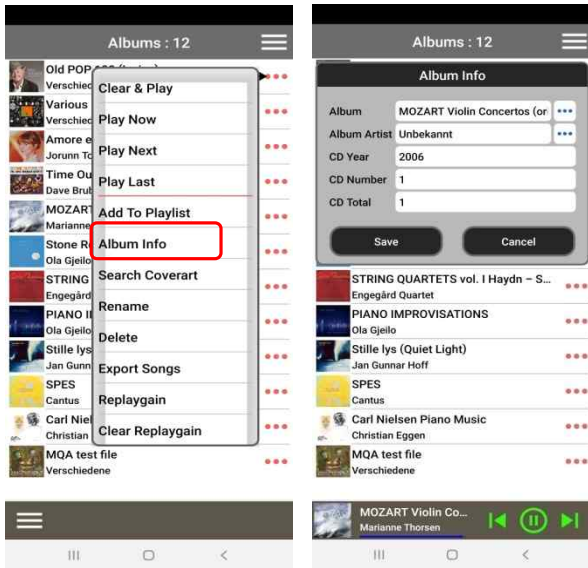
## ③ Triple dots



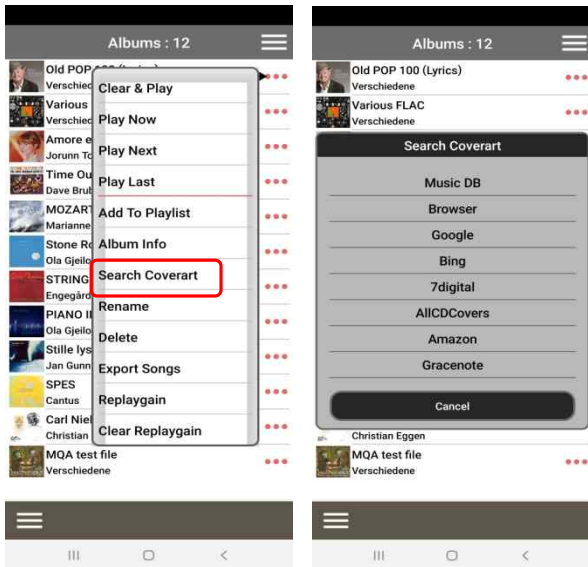
This is for opening menu popup of each albums or tracks

There are various functions.

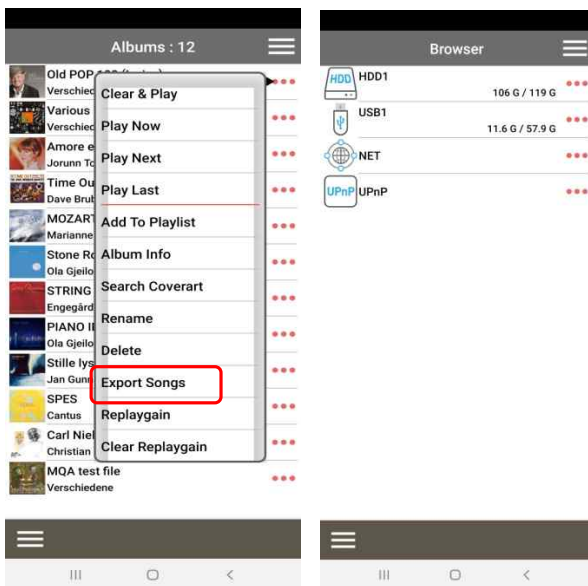
You can playback the album or track with click the 'Clear & Play', 'Play Now', 'Play Next' and 'Play Last'.



You can see the album information and edit the information with 'Album Info' menu.

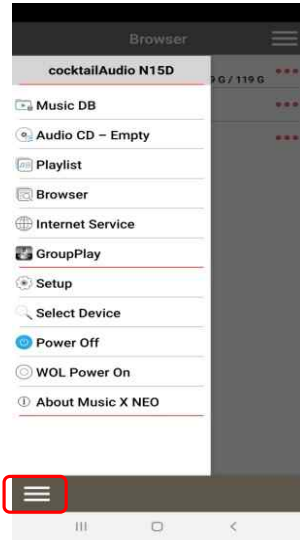


Add or Change the cover art with various cover art server like Google, Amazon, Bing,...

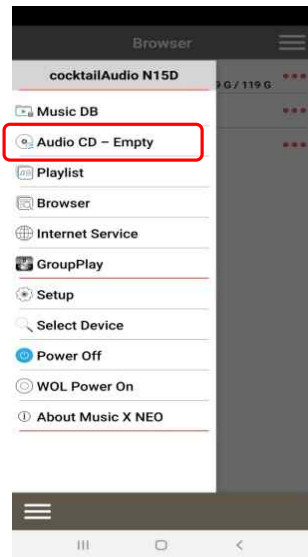


You can export the MusicDB files to the storage on the browser with 'Export Songs' menu.

#### ④ Main Menu icon

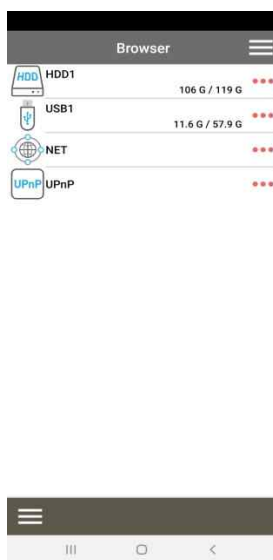
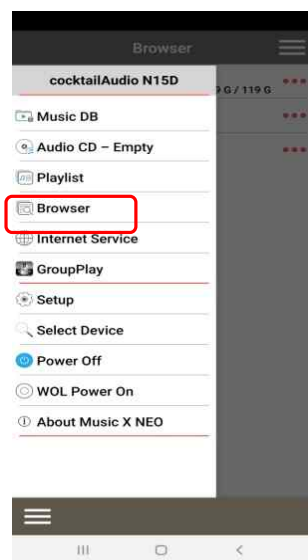


This is to return to the main menu screen of the N15D



If you connect the external USB ODD to N15D, and insert the CD album, this menu will be activated. Then you can play the CD or rip the CD album.

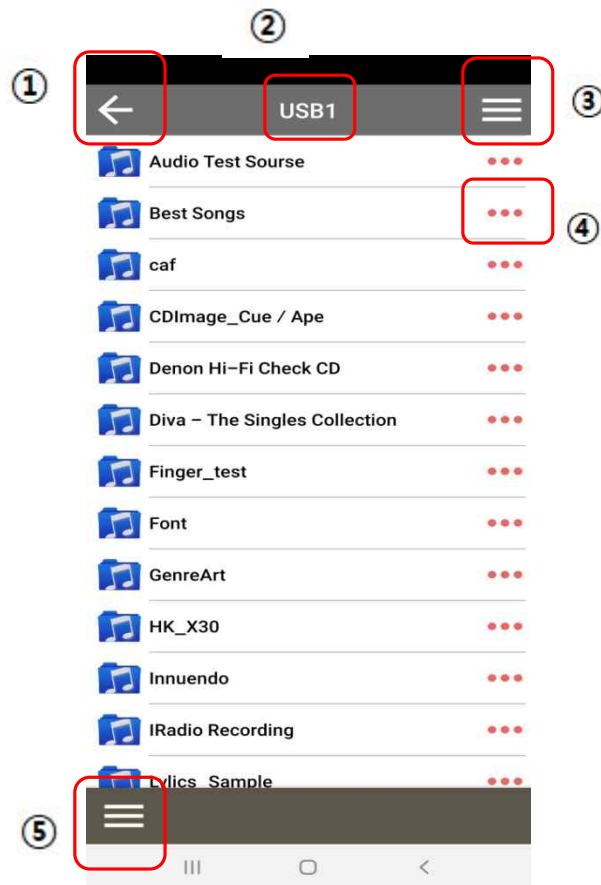
### 6-2. Browser



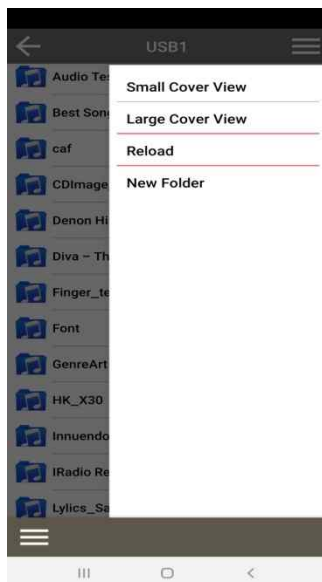
Select storage where songs you want to play are stored

※ How to add a 'shared folder' into NET  
Refer to 5-4-2. Network Sharing (Samba Client) (on page 26)

## ※ Play in Browser Mode



- ① **Left Arrow**                      Go back to previous screen
- ② **USB1**                              The storage you selected
- ③ **Menu Bar**

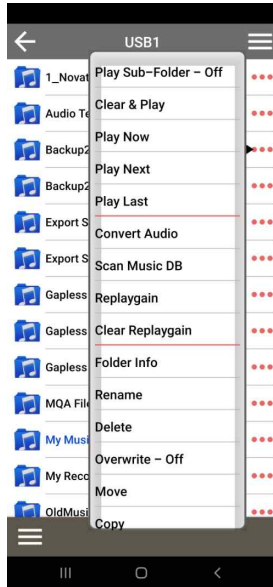


This is for opening files 'View Mode' to show the files with Cover art.

And can make the new folders with 'New Folder' menu.



#### ④ Triple Dot

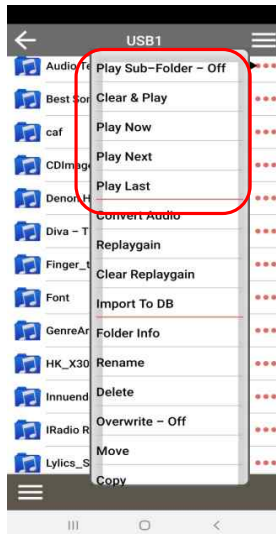


This is for opening the menu popup window

There are various functions like 'Play, audio format Convert, Replaygain, Scan Music DB, Rename, Delete, Move, Copy.

※ 'Scan Music DB' function.

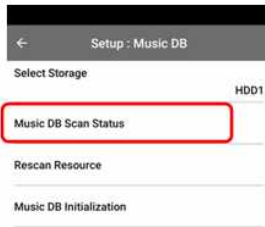
This is for making Music DB for N15D



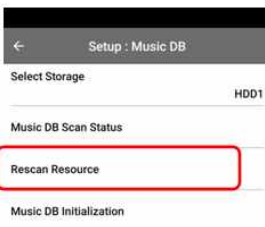
You can playback the folder, sub-folder or tracks with click the 'Play Sub-folder-On', 'Clear & Play', 'Play Now', 'Play Next' and 'Play Last'.



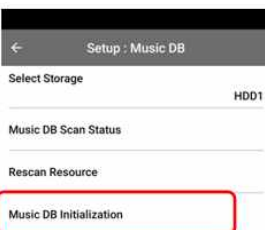
You can convert the audio file format to click the 'Convert Audio' menu.



If you want to see scanning status, go to SETUP > Music DB > Music DB Scan status



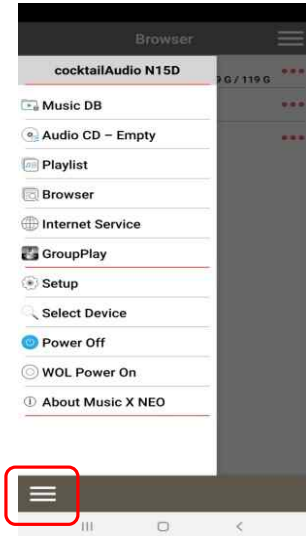
To synchronize contents in Music DB and in folders of storages already scanned to Music DB, please go to SETUP > Music DB > Rescan Resource



Music DB Initialization will remove all scanned index of music files and Playlist, and will rescan(register) all music files in the 'My Music' folder only to Music DB again.

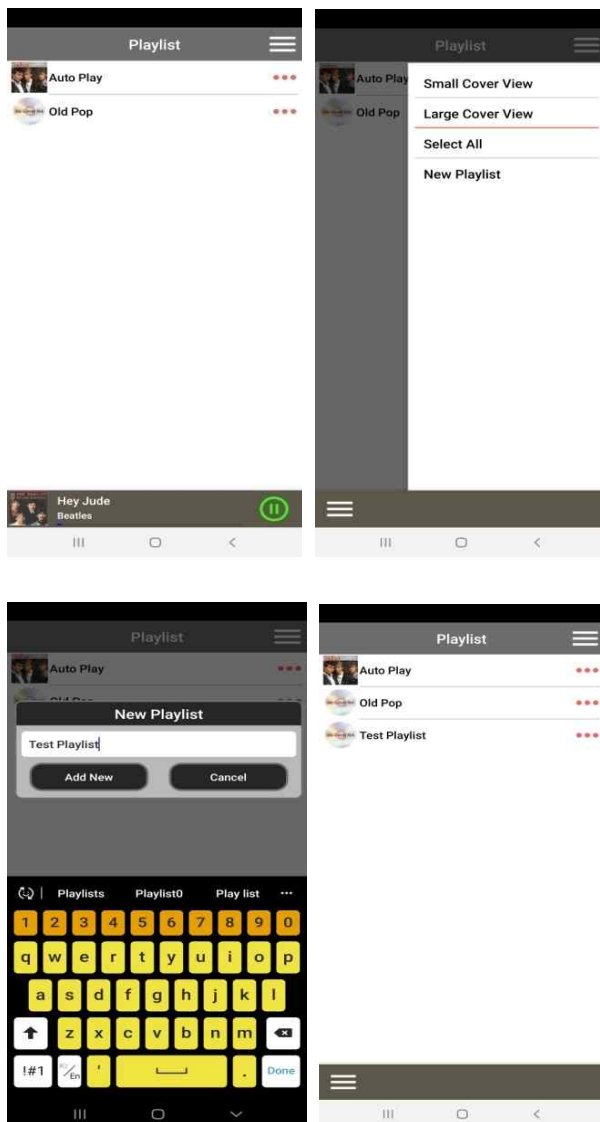


## ⑤ Main Menu icon



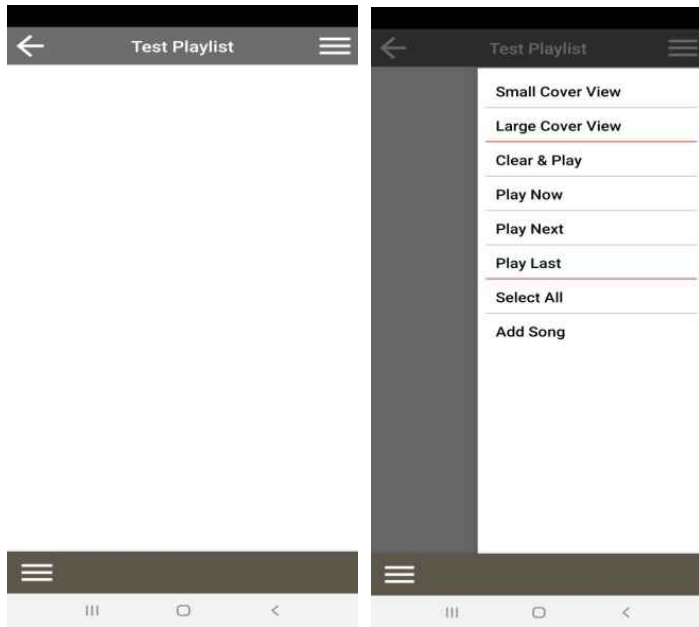
This is to return to the main menu screen of the N15D

## 6-3. Playlists



- ① Click 'Playlists' to go into Playlist Screen like left
- ② Click 'Bar Menu' on the right/top to create a playlist

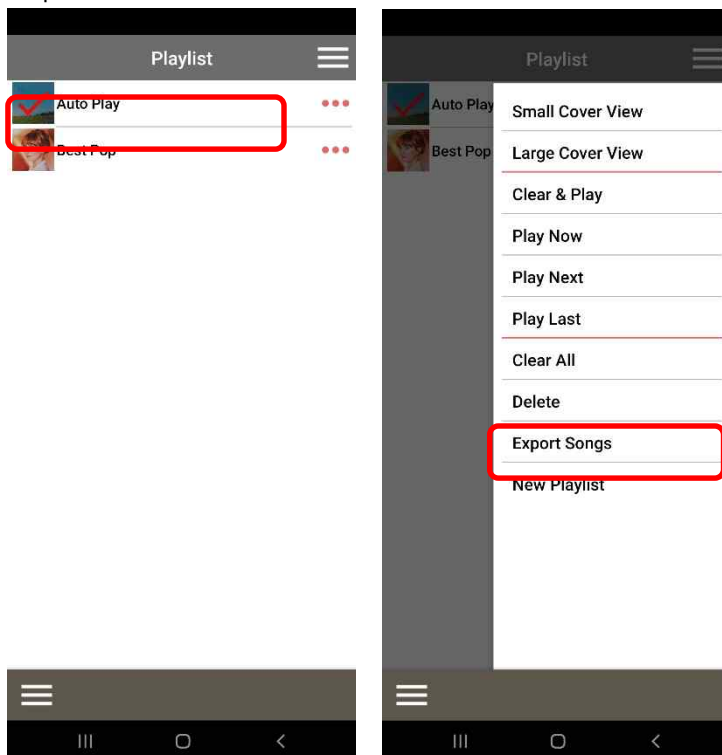
- ③ For example, input playlist name and confirm with OK
- ④ Then, 'Test Playlist' will be listed like left
- ⑤ Click 'Test Playlist' to open the playlist like below.



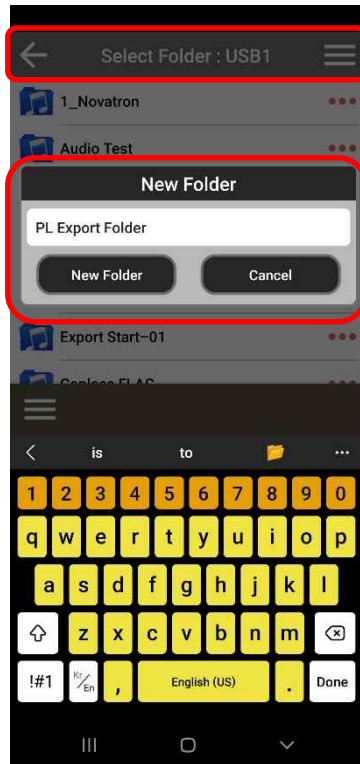
- ⑥ Click 'Bar Menu' on the right/top to add new songs
- ⑦ You may understand following procedure easily. We think no more explanation is needed.

### 6-4. How to export Playlists

You can export Playlist to other storage devices such as; an external HDD or USB by following the steps below;

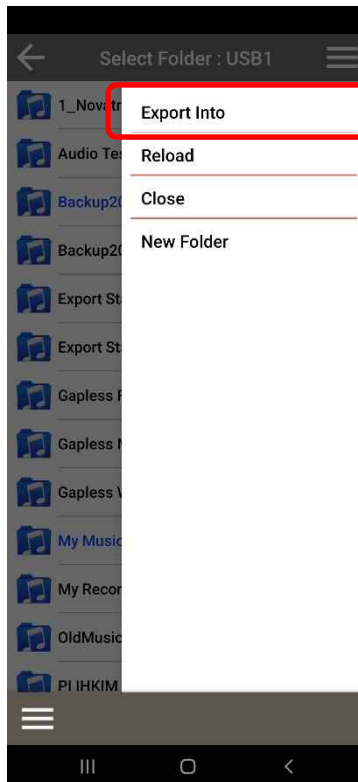


- ① Go into the Playlist. Select the Playlist folder which you want to export.
- ② Press the top right MENU key and click the 'Export Songs'.



③ Select the destination folder of connected storage.

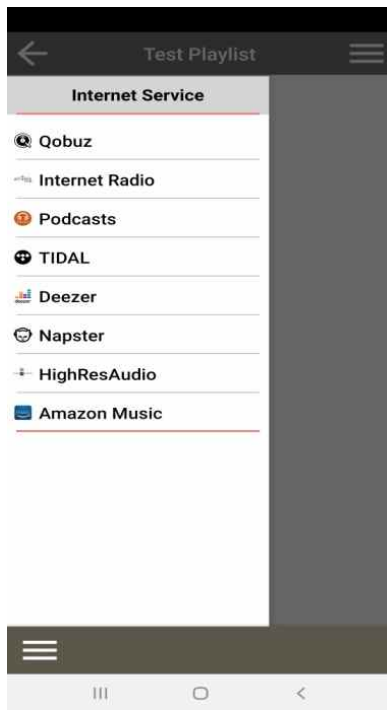
④ You can make the new folder under the selected storage for export.



⑤ Press the 'Export Into' menu for start exporting.

## 6-5. i-Service

### 6-5-1. Online Music Services



If you subscribe for TIDAL, Deezer, Qobuz, Napster, HighResAudio and Amazon Music, you can play them directly with N15D easily.

※ You need to set User ID and Password for it at 'SETUP>Internet Service'.

### 6-5-2. Airable Internet Radio

You can enjoy various internet radio, recording it and reservation recording also.

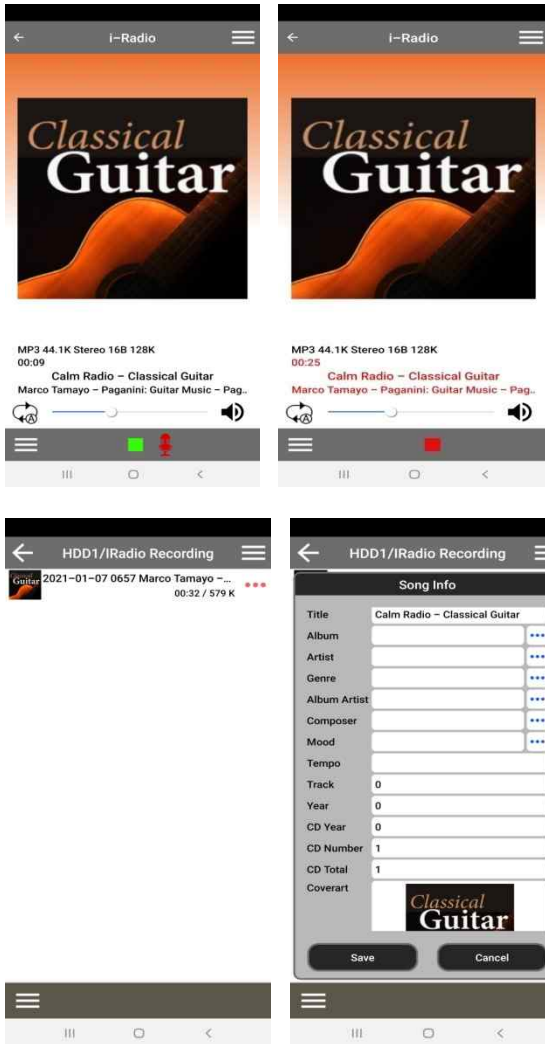
※ No need subscription for Airable Internet Radio and Podcast

#### 6-5-2-1. How to add stations to Favorites folder



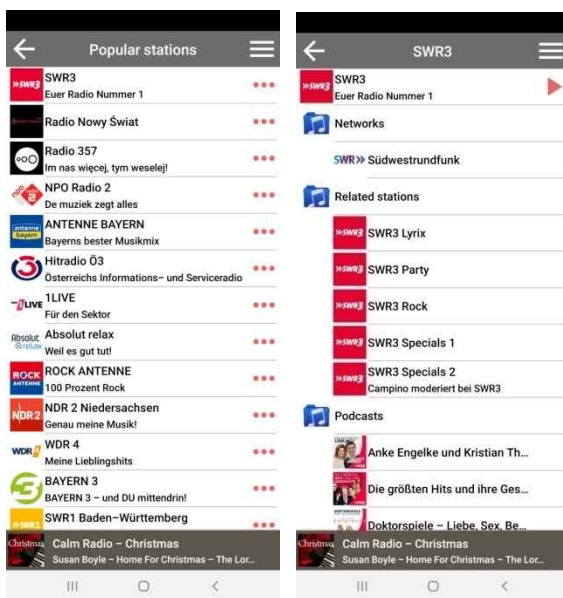
On the station list, click 'Triple dot' menu on the right end to add the station to Favorites folder

## 6-5-2-2. How to record an internet radio

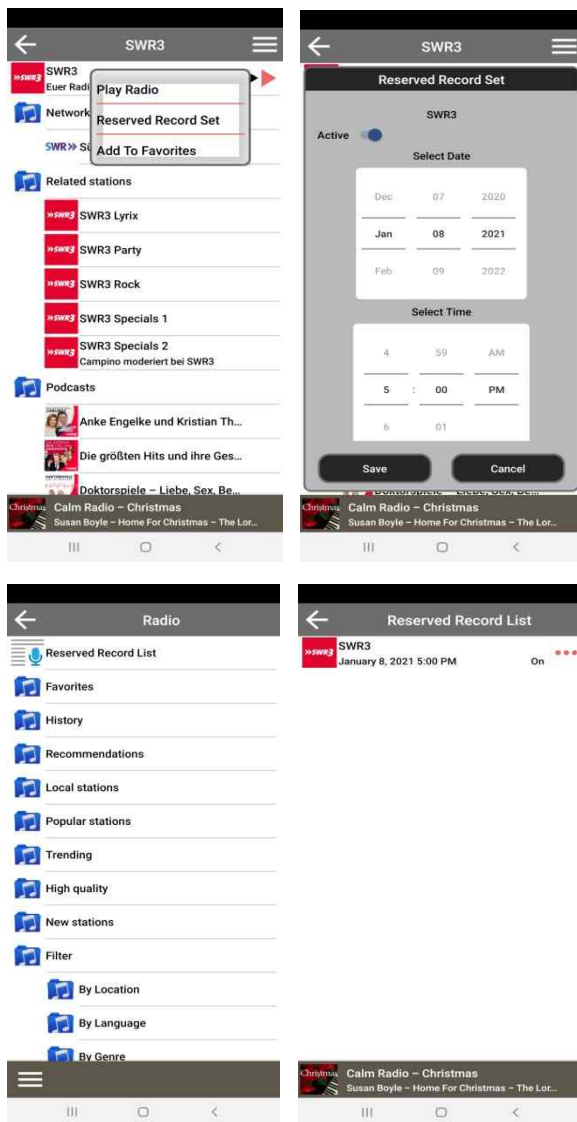


- ① Start playing a station
- ② Open 'Playing Screen' and click RED color mike icon.
- ③ Then it start recording.
- ④ Click 'REC' to start recording
- ✖ If you click the RED square box, it will stop recording.
- ⑤ To see recorded file, go to Browser>HDD
- ⑥ There will be 'iRadio Recording' folder
- ⑦ Recorded files will be stored in the iRadio Recording folder.
- ⑧ If you click 3(three) dots on the right, you can do Edit the recorded file, or Import to DB, etc.

## 6-5-2-3. How to set 'Reservation Recording'



- ① First, select any station which you want to record. It does not matter any folders like Favorites folder, Local stations, Popular stations.
- ② Make selected station ready to play.
- ③ Click red 'Triangle' icon on the target station to start procedure.



- ④ Click 'Reservation Set' to open setting screen
- ⑤ Input target date and time and recording duration time as you want.

You can check If it is set properly.  
Go back to the first i-radio screen and click 'Reserved Record List' on the top to see all reservation recording list

※ How to see 'recorded file' is same as 'iRadio Recording' function like above.

## 6-6. Group Play

Multi-room (Group play) function lets you play hi-res music including DSD, MQA and 192Khz/24Bit HD FLAC, WAV seamlessly in any room of the home wirelessly. You can play the same song in every room or play the same song with two devices as Left/Right channel in perfect sync.

- ※ Multiple devices are required for this function
- ※ External Inputs like digital/Analog inputs don't support Multiroom function
  - Multi-room supported: MusicDB, Browser (USB storage, UPnP, NAS), CD Play, i-Radio, streaming service like Tidal, Qobuz, etc.
  - Multi-room not supported: Digital/Analog Input, Roon, Spotify Connect.



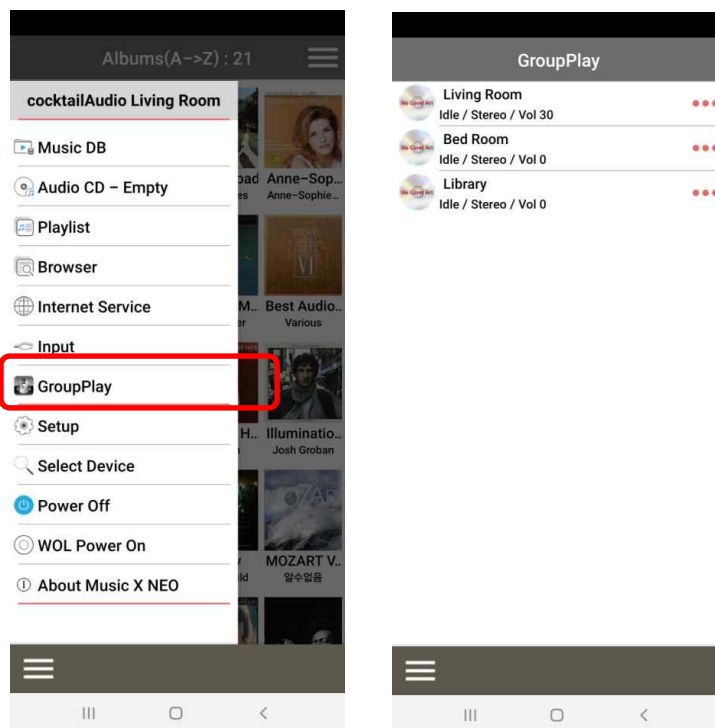
## 6-6-1. Look for devices available over a Group Play

Click the 'GroupPlay' icon on the MusicX NEO, you can find out all devices available over a Group Play like below screen

**For example**, you can see the three (3) devices of Living Room, Bed Room, Library like below screen.

All three (3) devices are currently in the status of idle

- Living Room device: This is set as 'GroupPlay Enabled'
- Bed Room device: This is set as 'GroupPlay Enabled' and 'Auto Join'
- Library device: This is set as 'GroupPlay Enabled' and 'Manual Join'



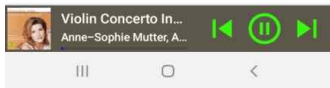
## 6-6-2. Start playing songs to set as server device

Once you play music on the Living room device, the three (3) devices will be like below

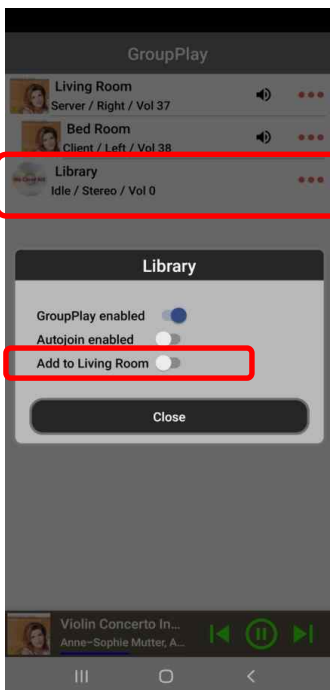
- Living Room device: This will be server device
- Bed Room device: This will be a client device and automatically joined to the Group Play, because this device is set as 'Auto Join'
- Library device: This will be still idle, because it is set as 'Manual Join'



You can add the Library device to the Group Play by **Manual Join** method

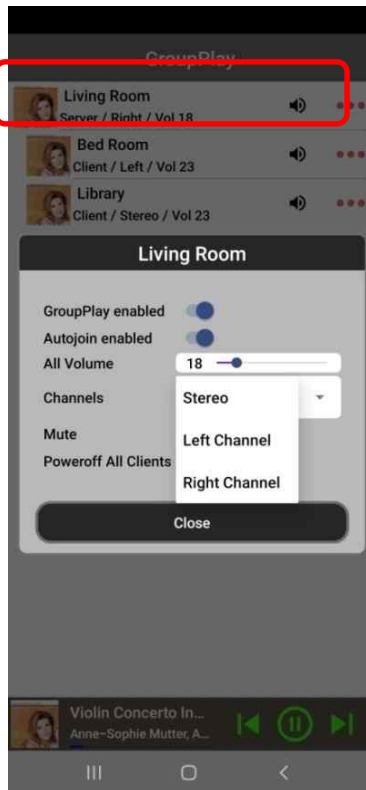


### 6-6-3. How to add client devices to Group Play by manual



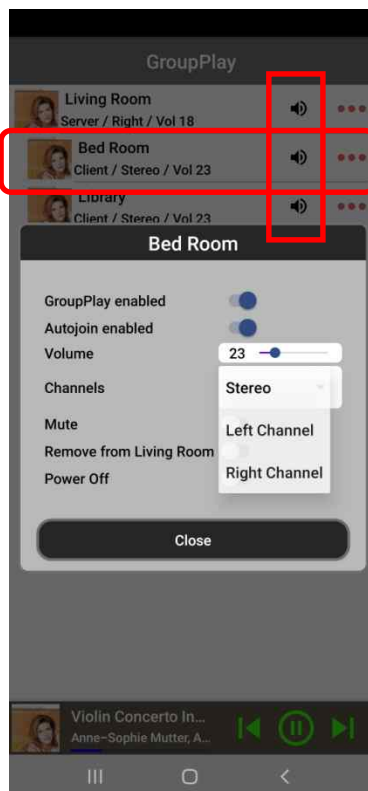
- ① On the above screen of devices list, tapping the area marked with a square on the screen will pop up the setting window.
- ② For 'Add to Living Room' on the pop up window, drag to enable to add the Library device into the Group Play as a client

## 6-6-4. Control devices



### For server device (Living Room)

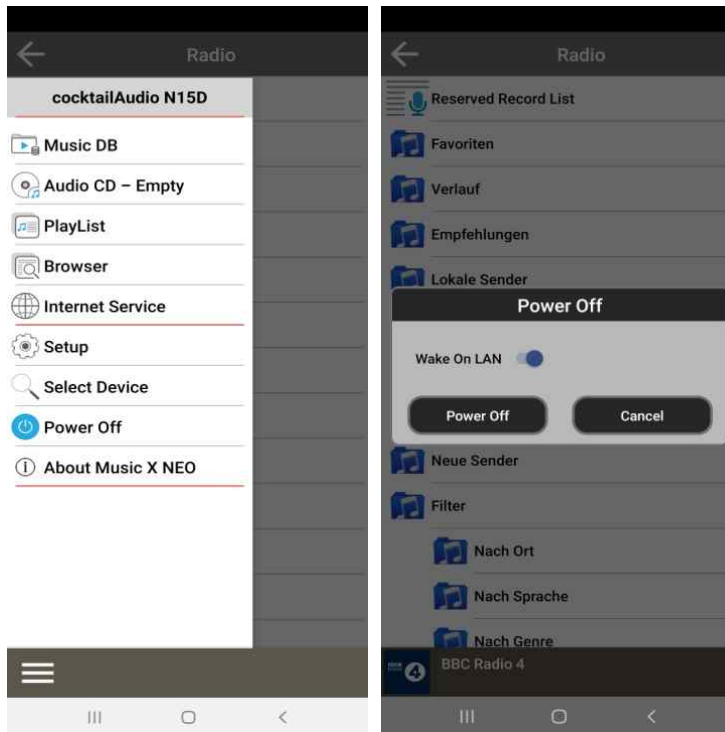
- ① Tap the area marked with a square to pop up control window
- ② You can control volume of all devices including client devices at the same time, and can set channel of the server device as you want like Stereo, Left channel or Right channel. You can also do Mute and power off all clients



### For client device (Bed Room)

- ① Tap the area marked with a square to pop up control window
- ② You can control volume of client device, and can set channel of the client device as you want like Stereo, Left channel or Right channel. You can also do Mute and power off the client device
- ③ Tap the 'speaker' icon marked with a vertical square, the tapped device will be muted immediately

## 6-7. Power Off



Click 'Power Off' : To power off N15D

<NOTICE> In case that Wake ON LAN(WOL) is set as ON, N15D Power LED on the front will stay as Blue when power it off by remote App. If WOL is set as OFF, Power LED will blink when power it off by remote App.

<NOTICE> You MUST power off by Power Button of remote app first before power it off by the power switch on the front. Otherwise, storage installed inside of N15D may get damage.

## 7. Specification

| Model name                      | N15D  |   | Remarks                              |  |  |
|---------------------------------|---|---|--------------------------------------|--|--|
| Host CPU & Memory               | CPU: Dual Core ARM Cortex A9 running at 1.0GHz  |   |                                      |  |  |
|                                 | Main Memory: DDR-1066 1GByte  |   |                                      |  |  |
|                                 | EMMC 8GByte   |   |                                      |  |  |
| Storage                         | SATA II Interface<br>2.5inch HDD or SSD Support   |   |                                      |  |  |
| Interface                       | Customized Remote Control App(NOVATRON MusicX)<br>Web Interface Control   |   |                                      |  |  |
| Digital Out<br>(Variable/Fixed) | COAXIAL x 1   | S/PDIF 75ohm RCA, Sample rate: up to 24bit/192Khz                               |                                      |  |  |
|                                 | TOSLINK x 1   | S/PDIF, Sample rate: up to 24bit/192Khz   |                                      |  |  |
| Analog Out                      | RCA(L,R)  | Fixed/Variable, 4.5Vrms(Max)  |                                      |  |  |
|                                 | Headphone   | 6.35mm Jack, 80mW at 300ohms  |                                      |  |  |
| Audio Input                     | USB Audio In  | USB Standard B Connector, USB Audio Class 2.0 Input                             |                                      |  |  |
| Connectivity                    | USB Host  | USB2.0(5V/1A) x 1 at front  |                                      |  |  |
|                                 |   | USB3.0(5V/1A) x 2 at rear   |                                      |  |  |
|                                 | Network   | Wired   | Giga Fast Ethernet (10/100/1000Mbps) |  |  |
|                                 |   | Wireless (Optional )  | WiFi USB Dongle via USB Host Port    |  |  |
| Codec/Format supported          | DSD(DSD64, DSD128, DSD256), DXD(24Bit/352.8KHz), HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, Ogg Vorbis, PCM, M3U, PLS, etc |   |                                      |  |  |
| Network Protocols Supported     | UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, Web Server, etc   |   |                                      |  |  |
| Internet Services               | Internet Radio  | Airable   |                                      |  |  |
|                                 | Online Music Services   | TIDAL, Deezer, Qobuz, Spotify Connect, Napster, Amazon Music, HighResAudio, etc |                                      |  |  |
| Power Source                    | 220V – 240V ~50/60Hz (* 110V area : 100V – 120V ~50/60Hz)   |   |                                      |  |  |
| Dimension                       | 180mm(W) x 180mm(D) x 45mm(H) without foot  |   |                                      |  |  |
| Certificate                     | CE, FCC, EMI, etc   |   |                                      |  |  |

※ Specification may be changed without notification.

## 8. MQA (Master Quality Authenticated)

MQA is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download.

Visit [mqa.co.uk](http://mqa.co.uk) for more information.

N15D includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

The LED light next to MQA logo on the Now Play screen glows green or blue to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

The MQA logo is a trade mark of MQA Limited.

