

# cocktail Audio N25 AMP

All-in-one HiFi Audio Streamer & Player



Qualcomm aptX HD



Just connect speakers  
to get a great HiFi system



Just connect speakers  
to get a great HiFi system

HD MUSIC  
32Bit/384Khz  
High Resolution Audio



## What is the cocktailAudio N25AMP

The N25AMP is the most advanced all-in-one network audio player in the world, featuring 150 watts powerful amplifier built-in, a Sabre<sup>32</sup> Reference DAC chip and high-performance Dual Core ARM Cortex A9 processor, running at 1.0Ghz. It has been designed to meet all the requirements of digital music playback, keeping pace with today's digital world. The N25AMP is based on long proven cocktailAudio technologies, such as the hardware circuit design and versatile custom-designed software, developed by in-house R&D team, to achieve the best audio performance and ease of use across all its functions.

Simply connect the bookshelf speakers and you will have a great HiFi system with wonderful sound. It offers high-quality playback from local USB storage, home network sources like NAS, major online streaming services, internet radio, DAB+/FM radio, aptX HD Bluetooth, Soptify Connect, Airplay for iOS devices and much more. Optionally, the N25AMP provides Bluetooth transmission, allowing playback of music from the N25AMP via Bluetooth headphones or speakers. It also supports playback covering a huge variety of audio format including DSD, MQA, DXD, HD FLAC, HD WAV CAF, ALAC, AIFF and more.

Additionally, for use as a complete and convenient music system throughout the home, the N25AMP provides not only Multiroom function(Group Play), carefully developed by cocktailAudio team over several years, but also a HDMI eARC Input to connect with TVs.

Finally, when paired with optional extras, you can expand its functionality as a music server, aptX Bluetooth transmitter, and more.

## Hardware Specifications

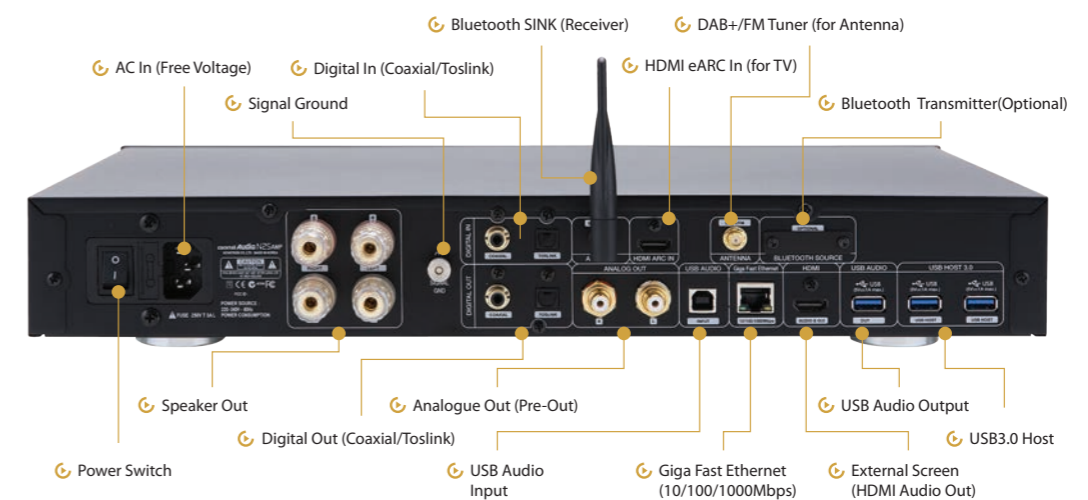
- Equipped with a high-performance dual core ARM Cortex A9 processor running at 1.0Ghz
- Combined with 150 watts powerful class D amplifier built-in
- ESS ES9018K2M Sabre<sup>32</sup> Reference DAC chip for D-A conversion
- USB Audio Class 2.0 output for connection to external USB DACs
- Isolated power supply circuit design, separate for digital and analogue sections, to remove electrical noise
- 4.6" TFT LCD screen (800 x 320 pixels) for intuitive GUI
- DAB+/FM tuner built-in
- HDMI eARC input built-in
- HDMI output for connecting external screens, such as a TV as the GUI screen, or for audio signal output
- Bluetooth receiver built-in, with support for SBC, AAC, aptX, aptX LL, aptX HD
- USB Audio Class 2.0 input
- High quality analogue output terminals
- Digital output (1 x Coaxial, 1 x Toslink)
- Digital input (1 x Coaxial, 1 x Toslink)
- USB 3.0 high speed host port x2, on the rear panel
- USB 2.0 host port x1, on the front panel
- Giga Fast Ethernet(10/100/1000Mbps) built-in
- Five (5) custom keys on the front panel for DAB+ or FM radio presets
- Precisely CNC-machined aluminum front panel and robust rigid steel chassis

## Versatile functionalities and usage

- Support for major music streaming services - Amazon Music, HighResAudio, TIDAL, TIDAL MQA, Deezer, Qobuz, Spotify Connect, Napster and Internet Radio(Airable)
- Replaygain function to normalize loudness for individual songs or albums
- MultiRoom function (Group Play)
- Spotify Connect and Apple Airplay
- Support for various file formats including MQA, DSD(64/128/256), DXD(24Bit/352.8Khz), PCM signal up to 32Bit/384Khz including 24Bit/192Khz WAV/FLAC and a full range hi-res audio file formats.
- High connectivity
- Versatile network functions such as UPnP Server/Client/Renderer, Samba Server/Client(Network File Server/Client) are supported
- Support as a certified 'Roon Ready' end point
- Multiple control methods with customized remote control App(NOVATRON MusicX NEO) for iOS and Android, desktop PC(Windows, Mac), IR remote control and well-organized functional keys on the device front

## Optional Functions

- Bluetooth transmission function, with optional Bluetooth transmitter module
- Music server with music database, with storage is connected





Listen without disturbing others or in other rooms of the house, using BT headphones or BT speakers, with the optional Bluetooth transmitter



### High performance system, with custom-designed software

Based on a dual core ARM Cortex A9 processor, running at 1.0Ghz, selected components and proven cocktailAudio software, the N25AMP meets all the requirements for modern digital music playback, with exceptional audio performance and versatile features.

### Superior sound quality through expert circuit design and carefully selected components

The N25AMP is built with premium components, such as the audiophile ES9018K2M DAC chips, as well as featuring enhanced hardware circuit design technologies, such as a clean power supply path through the use of separate digital and analogue parts, as a simplification of the signal circuit path. This results in the delivery of clear and transparent sound.

### Audiophile D-A converter Sabre32 Reference DAC

As the N25AMP is built based on the Sabre<sup>32</sup> reference DAC, ES9018K2M, it can be used as an audiophile D/A Converter, with a wide dynamic range and low distortion when connected to compact disc players or any other digital audio source.

### High connectivity for various external devices

The N25AMP has high connectivity by offering digital inputs (Coaxial/Toslink), HDMI eARC in, 3x USB host ports, digital outputs (Coaxial/Toslink), analogue output, USB audio input/output, HDMI output, GigaFast Ethernet LAN, etc.

### High performance class D amplifier built-in

The N25AMP offers dynamic total 150 watts powerful class D amplifier with lower harmonic distortion. Simply connect bookshelf or floorstanding speakers to get a great HiFi system with wonderful sound



### DAB+ and FM radio tuners

The N25AMP offers high quality digital radio via a DAB+ Tuner and also FM radio. Any song or broadcast can be recorded with high quality sound to external USB storage or NAS drives connected to the N25AMP.



### USB Audio Class 2.0 input

Equipped with a USB Audio Class 2.0 input, the N25AMP can work as a USB digital to analogue converter (DAC).



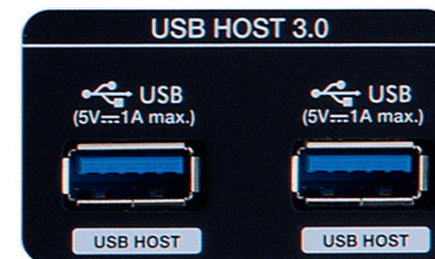
### USB Audio Class 2.0 output

An external USB DAC can also be connected, whilst using the N25AMP for its versatile streaming and music serving functions.



### 2x high speed USB 3.0 host ports and 1x USB 2.0 Host port

For quick data transfer via connected devices, such as external USB storage, the N25AMP offers 2x high speed USB 3.0 host ports at the rear and 1x USB 2.0 host port on the front panel.



### High quality analogue out terminals

A high quality, well-shielded, analogue out terminal guarantees lossless signal transmission.



### 4.6 inch wide TFT LCD for intuitive GUI

Through a high-resolution 4.6" wide TFT LCD on the front panel, the N25AMP can be conveniently operated using cocktailAudio's intuitive GUI.

### HDMI eARC Input

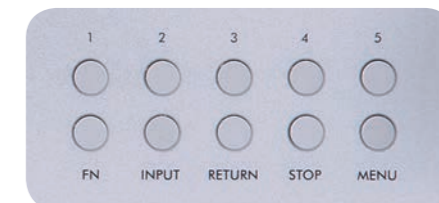
The N25AMP offers HDMI eARC(Audio Return Channel) input so that your TV can be hooked up to enjoy wonderful sound via the speakers connected to the N25AMP.

### HDMI out for external screens or audio out

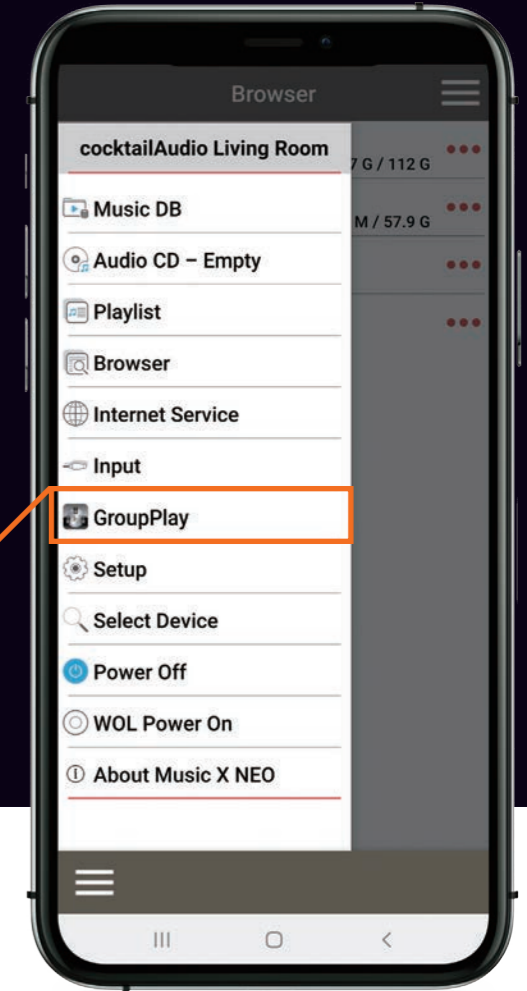
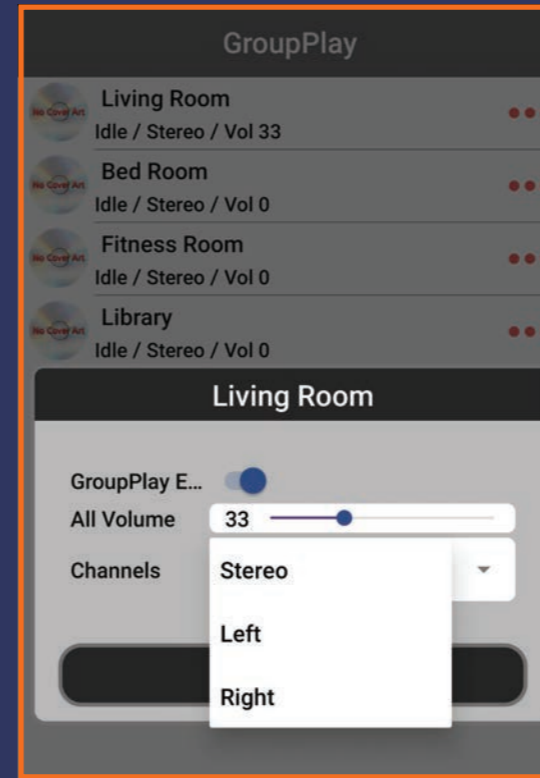
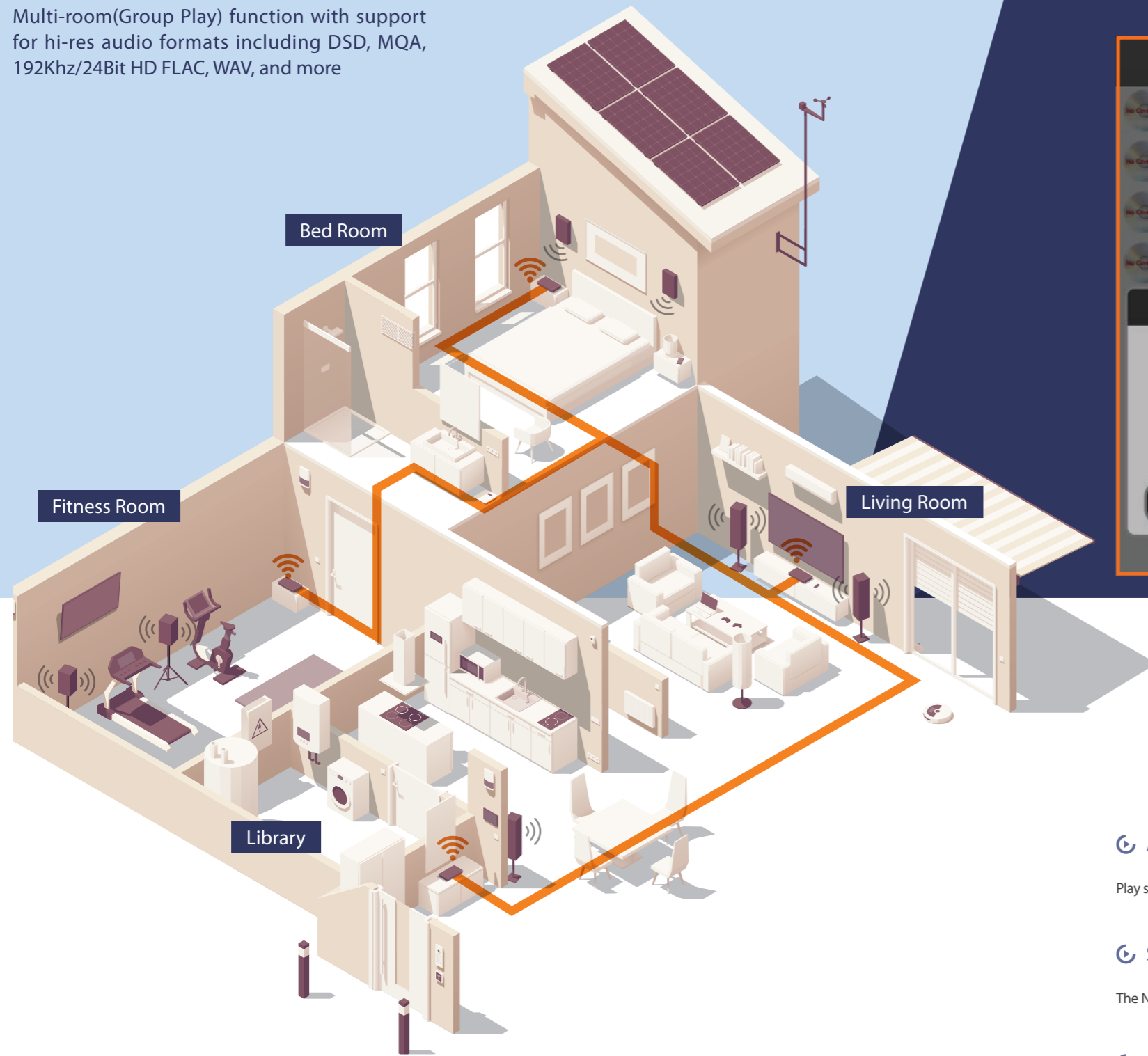
Connect external TV screens for a bigger GUI or a slideshow of photos while listening to your music collection. Alternatively, connection can be made to an AV receiver for audio out.

### Five front panel preset soft keys

The front panel features five preset soft keys for DAB+/FM radio or internet radio stations



Multi-room(Group Play) function with support for hi-res audio formats including DSD, MQA, 192Khz/24Bit HD FLAC, WAV, and more



### Multi-room (Group Play) function

CocktailAudio's in-house software team have developed a multi-room (Group Play) function so even hi-res music, including DSD, MQA, 192Khz/24Bit HD FLAC, WAV can play seamlessly in any room of the home wirelessly. Play the same song in every room or play the same song with two devices as Left/Right channel in perfect sync.

### Built-in aptX HD Bluetooth receiver

Send music to the N25AMP conveniently from portable devices via Bluetooth, with support for various audio codecs such as SBC, AAC, aptX, aptX LL, aptX HD.



### Roon Ready

As the N25AMP is 'Roon Ready' and is certified as an end point, you can control the N25AMP with Roon, one of the best ways to access digital music playback.



### Apple Airplay and Spotify Connect

Play songs from iOS devices and music from Spotify via the N25AMP.

### Support for MQA

The N25AMP supports MQA file format as it complies with MQA requirements.

### Remote control with customized remote App - MusicX NEO

Control the N25AMP wirelessly with the customised remote-control app, MusicX NEO, which is developed carefully by an in-house R&D team for complete yet simple and intuitive control.

### Major music streaming services integrated

Stream music from tens of thousands of internet radio stations, Spotify Connect, Amazon Music, TIDAL, Deezer, Napster, Qobuz, HighResAudio, etc.

### Support for a wide range of file formats

The N25AMP supports most existing music file formats, such as MQA, DSD(64/128/256), DXD(24Bit/352.8Khz), PCM, 24Bit/192Khz WAV/FLAC, AAC, CAF, ALAC, AIFF, AIF, MP3, APE/CUE, Ogg, M3U, PLS, etc.

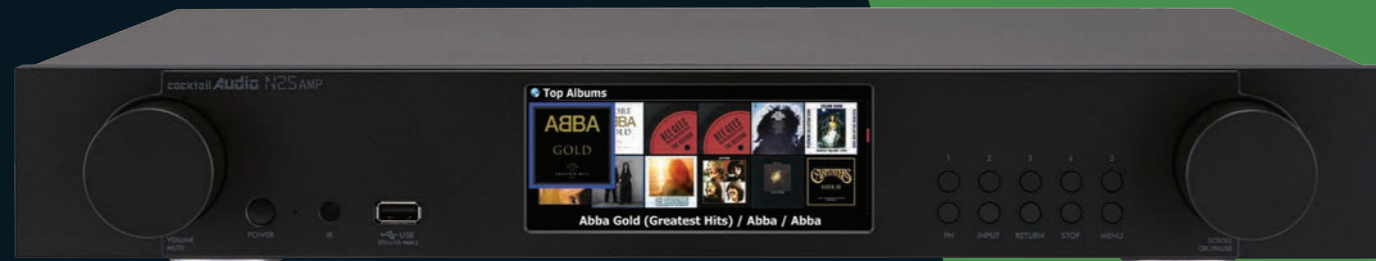
### Versatile networking & app control with MusicX NEO

Connect the N25AMP to your network for streaming music to and from other devices such as NAS drives, shared folders on PCs and control it all remotely via MusicX NEO. The N25AMP also supports various network protocols including UPnP Server/Client/Renderer, Samba Server/Client, etc.

### Rugged and durable full-size casing

The N25AMP front panel is formed of 10mm thick aluminium, manufactured by precise CNC cutting, then attached to a rugged metal chassis. This solid and stable construction aids high quality playback by reducing unwanted resonance.

Feel great and dynamic sound delivered by a combination of Sabre<sup>32</sup> reference DAC, carefully selected components and circuit design technology of cocktailAudio



Build Music database from the scanned metadata of the music files in the connected USB storage or CD Drive

Expand the functionality of the N25AMP with additional peripherals.



### 🔄 aptX HD Bluetooth transmitter

Send music streamed or served via the N25AMP to Bluetooth headphones or Bluetooth speakers. The optional N25AMP Bluetooth transmitter module supports various Audio Codec like SBC, AAC, aptX, aptX LL, aptX HD.

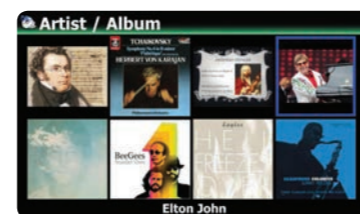
\* Bluetooth transmitter module required

### 🔄 Create the Music database from the scanned metadata of the music files in the connected USB storage

Connect the external USB storage to the N25AMP to store large amounts of music files. The N25AMP will scan all music files stored in the USB storage, and will build the Music database from the scanned metadata only without transferring the music files themselves.

### 🔄 Clever and convenient functions with Music Database

The N25AMP has an intuitive and powerful Music Database built-in, which offers simple and convenient functions to manage music collections, such as SEARCH, list views by text or cover art, SORT, and various view types (album, artist, etc.).



### 🔄 Edit music tag info

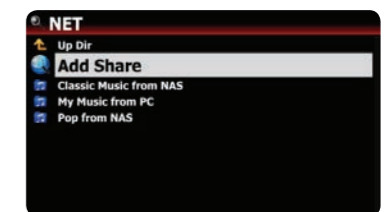
Change or enter information about each album, track or recording for easy browsing. Use a USB keyboard to edit song tag information easily.

### 🔄 Optional WiFi USB dongle for wireless networking

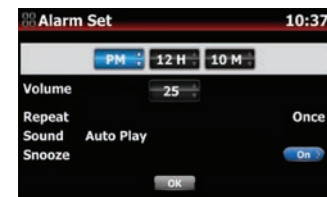
For wireless networking an optional USB WiFi dongle can be purchased.

### 🔄 Create the Music database from the scanned metadata of the music files stored in the NAS drives

Add the shared folders to the N25AMP by the NET share on the Browser. The N25AMP will scan all music files stored in the shared folders of the NAS drives, and will build the Music database from the scanned metadata only without transferring the music files themselves.



Comprehensive and clever functions,  
included for greater flexibility and control  
of the user experience



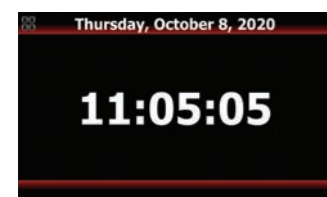
### Alarm

Set an alarm so the N25AMP turns on at a predetermined time.



### Sleep function

Automatic power down, with a single press of the remote control, after a preset time.



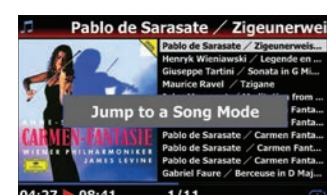
### Clock & Display OFF

Press CLOCK on the remote control to show the current time.



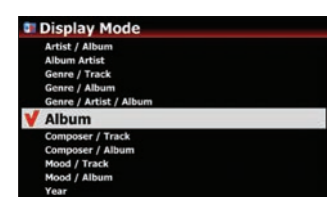
### Seek to Percent mode

The 'Seek to Percent' function offers a quick way to jump to any point in a track using the number buttons on the remote.



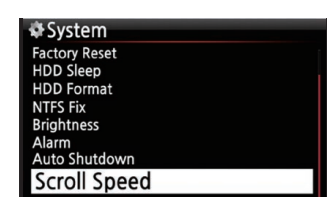
### Jump to Song Mode

During playback, a press of the CAP/NUM button on the remote will toggle the 'Jump to Song' or 'Seek to Percent' functions. In 'Jump to Song', pressing a number will skip to that track.



### Display mode

Change the display mode of the Music DB to list by Album, Genre, Track, Artist, Composer, Year, Mood, etc.



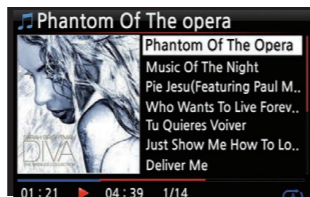
### Scroll Speed

Control the text scroll speed on the screen.



### Listing by Text or Cover Art

Switch between album or song lists, displayed with text or cover art, with one press of the remote control.



### Section Repeat

Set specific sections to play on repeat.



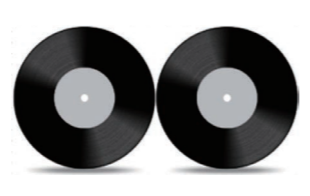
### HDD Format

Quickly format hard disks with Linux or NTFS file systems for use with the N25AMP.



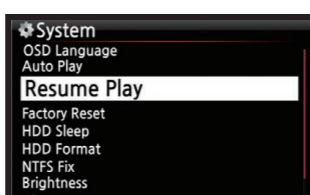
### Auto Shutdown

Schedule a time for the N25AMP to power down.



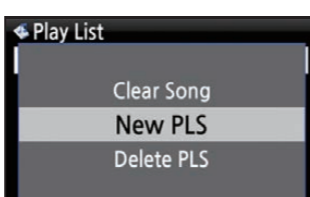
### Gapless Playback

Set the N25AMP to ignore gaps between tracks for unbroken playback.



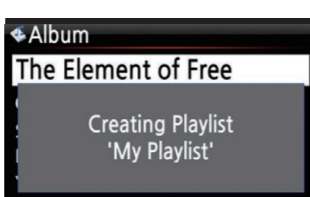
### Resume Play

After power on, playback is automatically resumed from wherever it was last stopped.



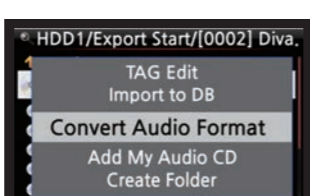
### Make Playlists

Create permanent playlists for favourite music.



### 'My Playlist'

My playlist is a special 'virtual playlist' for creating a play cue. It disappears when playback is stopped.



### Audio file format conversion

Convert existing audio files into other formats, (e.g. mp3, FLAC, WAV, MP4) for use on other devices - digital audio player, smart phone, car stereo, etc.

## Customized remote control App for mobile & desktop PC(Windows, Mac)



Model name	cocktail Audio N25AMP			Remarks
Host CPU & Memory	CPU: Dual Core ARM Cortex A9 running at 1.0GHz			
	Main Memory: DDR-1066 1GByte			
	NAND Flash 8GByte			
Display	4.6" TFT LCD(800 x 320pixels)(* able to connect to ext. screen via HDMI out)			
Interface	Key & Jog(Volume/Scroll), IR Remote Control, Customized Remote App for iOS and Android devices			
Amplifier (Speaker Out)	Rated output 75W + 75W@1Khz, 8ohm, 0.1% THD (Total 150W) (Max Total 230Watts)			
Analog Out (Sabre <sup>32</sup> ES9018K2M DAC)	Unbalanced (PRE-OUT)	RCA, Dynamic Range: 127dB (Max 2Vrms, Stereo) THD +N: -110dB(0.0003%) Frequency Response : 20~80KHz(±0.2dB)		
Digital out (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		
	USB Audio x 1	USB Audio Class2.0 Output		
	HDMI Out x 1	HDMI Audio Out(*Shared with HDMI Out for external screen)		
Digital Input	COAXIAL x 1	Sample Rate: up to 24bit/192Khz		
	TOSLINK x 1	Sample Rate: up to 24bit/192Khz		
	HDMI eARC IN	Up to PCM 192KHz/24Bit		
USB Audio Input (USB DAC)	USB B type connector, USB Audio Class 2.0 input (support up to PCM 384KHz/32Bit, DSD Native 256, and DoP 128)			
Bluetooth SINK(Receiver)	BT 5.0 supports	Profile : A2DP/AVRCP Audio Codec: SBC, AAC, aptX, aptX LL, aptX HD		
TUNER	DAB+ / FM Radio	Selectable for DAB/DAB+ or FM Radio		
Connectivity	USB Host	USB3.0(5V/1A) x 2 at rear USB2.0(5V/1A) x 1 at front		
	Network	Wired	Giga Fast Ethernet(10/100/1000Mbps)	
		Wireless(Optional)	** 802.11b/g/n WiFi USB dongle(Optional)	
Codec & Format supported	MQA, PCM 384KHz/32Bit, 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, CAF, Ogg Vorbis, PCM, M3U, PLS, etc			
Network Protocols Supported	UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc			
Internet Services	Internet Radio	Airable		
	Online Music Services	Amazon Music, TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, HighResAudio, Spotify Connect		
Supported OSD languages	English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Simplified Chinese, Japanese, Korean,(To be added by request)			
Isolated Power management	Linear Transformer	For audio signal management		
	400W internal SMPS	For digital CPU management		
Power Source	220V area	AC 220V - 240V, 50/60Hz		
	110V area	AC 110V - AC 120V, 50/60Hz		
Mechanical	Material	Front	10mm thickness aluminum by CNC cutting	
		Knob	Aluminum by CNC cutting	
		Body	Metal	
	Dimension	Without foot	440mm(W) x 260mm(D) x 61mm(H)	
		With foot	440mm(W) x 260mm(D) x 73mm(H)	
Certificate	CE, FCC, EMI, etc			
Optional Items				
WiFi USB Dongle	* Only the WiFi USB Dongle(802.11b/g/n) that the N25AMP manufacturer provides will work properly with the N25AMP			
USB External Storage	* Various brands of external USB storages available in the markets will work with the N25AMP			
Bluetooth Transmitter	* Only 'Bluetooth Transmitter Module' that the N25AMP manufacturer provides will work properly with the N25AMP * BT5.0 supports, * Profile: A2DP/AVRCP * Audio Codec: SBC, AAC, aptX, aptX LL, aptX HD			

\*\* Specification to be changed without notification