

**BluOS
CUSTOM
INSTALL
BROCHURE**

BluOS™

About Lenbrook International

Lenbrook International is a manufacturer of high performance consumer audio equipment, with distribution in over 80 countries globally. With a full range of competencies in electronics design and manufacture in its NAD Electronics brand, acoustic design in its PSB Speakers brand, wireless hi-res multi-room specialization in its Bluesound brand, and a whole-home music management software platform in BluOS, Lenbrook International is one of the most comprehensive and sophisticated houses of premium audio brands in the world.

NAD



BLUESOUND

psb
SPEAKERS



BLUESOUND
PROFESSIONAL

BLU
OS





PERFORMANCE

FLEXIBILITY

INTEGRATION

EASE OF USE

BluOS, the Foundation for Great Audio Distribution

If you plan to distribute audio throughout a home or yacht of any size, BluOS has the scalability and features required to meet the needs of even the most demanding design brief.

BluOS is an operating system which combines best in class streaming, content acquisition, music & playback management, with an intuitive user interface.

For over a decade BluOS has perfected its ability to deliver multiple streams of audio content from a variety of sources across multiple zones from a wide range of hardware in perfect sync.

Capable of transmitting lossless audio up to 24-bit / 192 kHz with no lag or loss of sound quality across up to 64 devices on one network, BluOS acquires content from all of the most popular music services, local network music libraries or external devices via analogue and digital connections.

A well-crafted distributed audio solution should blend into the home or yacht it is installed in. The BluOS ecosystem offers system designers the opportunity to demonstrate their creativity as they tailor the system to the specific requirements of each client.

Performance

Music is an important part of life. It's proven to help mood and wellbeing, and a well-designed audio system is one of the most enjoyable and value add parts of smart home or yacht and a great way to exceed a clients' expectations.

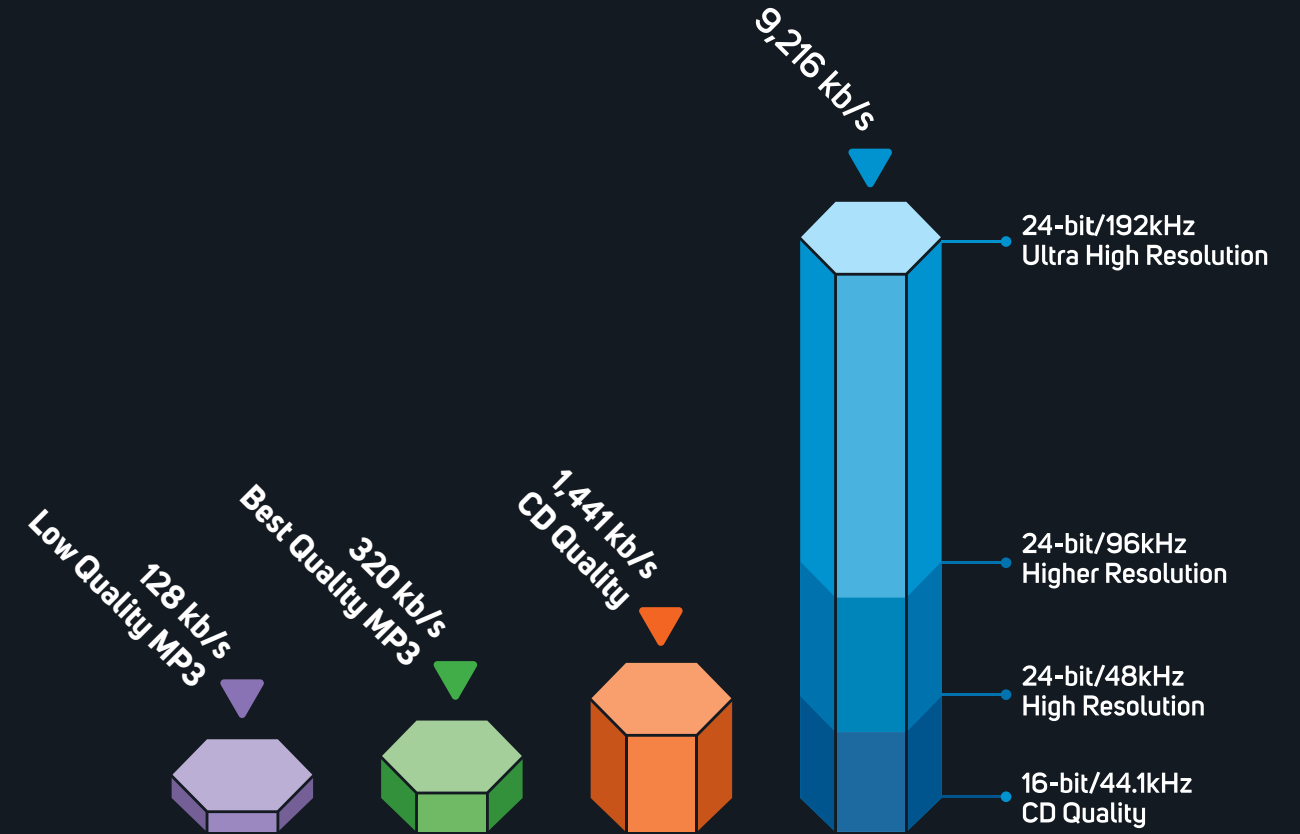
BluOS is a quality first platform, developed by a family company with over 5 decades of heritage in hi fi components & loudspeakers. It supports full hi-res 24-bit /192 kHz playback on all devices, including support for MQA (Master Quality Authenticated).

Using a hi-res audio source increases the amount of information being received by the playback devices. This not only helps to increase the overall quality of the music, it also improves intelligibility and

dynamics at lower volume levels – because music doesn't necessarily need to be loud to be enjoyed, even quieter background music should sound clear and detailed.

BluOS will not down-sample any hi-res source, even when players are grouped or used wirelessly. While we always recommend using the best quality source content, BluOS Enabled devices are engineered to not only thrive with hi-res audio streams but also to get the most out of compressed audio using high quality DACs and amplification.

If you really want to exceed your client's expectations, then providing a BluOS based audio system will play a key part in providing that "wow" factor to any space.



**One Ecosystem.
One App.
One Experience.**

**Up to 64
Zones/Players.**



Flexibility

BluOS ECOSYSTEM The choice is yours

Every client is unique , and every smart home or yacht project brings its own design challenges , meaning that as a specifier , you need an audio system which can be scaled and adapted easily.

No other music management system can match BluOS for the sheer breadth of hardware options; from a simple single zone streamer to a reference level hifi system, BluOS has it covered.

The wide range of playback devices from which to create a distributed audio system , perfectly tailored to the clients needs is a compelling offering for the system integrator.

The BluOS ecosystem now encompasses over 50 products . The growing list of BluOS enabled components range from wireless speakers to soundbars, hi fi components, AV Receivers and rack mountable streamers.

As many as 64 devices can be used on any one network. These can be connected via ethernet , or wi- fi, used in stereo , mono or multi - channel configurations, located centrally in rack or distributed around the property.

There are performance and connectivity options to match any requirement for any zone , from background music to critical listening hifi systems, media rooms, gaming systems and home theatres.





HUB



POWERNODE EDGE



NODE NANO



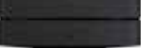
NODE



NODE ICON



POWERNODE



VAULT 2i



PULSE FLEX 2i



PULSE MINI 2i



PULSE 2i



PULSE M



PULSE CINEMA MINI



PULSE SUB+



C 700 V2
BluOS Streaming
Amplifier



C 379
Hybrid Digital DAC Amplifier



C 389
BluOS Streaming DAC



C 399
Hybrid Digital DAC Amplifier



C 3050
Stereophonic Amplifier



C 658
BluOS Streaming DAC



T 758 V3i
A/V Surround
Sound Receiver



T 778
AV Surround
Sound Receiver



CUSTOM INSTALL



CI S2
BluOS Streaming Module



CI PA4-60
Power Amplifier Module



CI SA2-120
BluOS Streaming
Amplifier Module



CI 16-60 DSP
16 Channel Amplifier



CI 8-150 DSP v2
Multi-Channel Amplifier



CI 8-120 DSP v2
8 Channel Amplifier



CI 980
Multi-Channel Amplifier



CI 580 V2
BluOS Network
Music Player



CI 720 V2
Network Stereo
Zone Amplifier



ALPHA IQ
BluOS Powered
Streaming Speaker



MASTERS



M10 V3
BluOS Streaming Amplifier



M23 V2
Stereo Power Amplifier



M17 V2i
Surround Sound
Preamp Processor



M33
BluOS Streaming
DAC Amplifier



M28
Seven Channel
Power Amplifier



M66
BluOS Streaming
DAC-Preamplifier



Learn More
about Bluesound
Product Line



Learn More
about NAD
Product Line



Listen To All The Music Ever Recorded

With all BluOS Enabled Players, you can instantly discover and enjoy millions of songs from your existing music services, tune in to your favorite internet radio stations and podcasts from around the world, or access and listen to the music collections stored on your smartphone, tablet, or laptop on any and every Player in your home. Simply tap/click the music you want to hear in the BluOS Controller app anywhere in the home and let any BluOS Enabled Player be the heart of your listening experience.

Ease of Use

A Better Music Experience Awaits

With a host of features to its name, BluOS gives you complete control of how and where you listen to your music. Whether it's grouping multiple BluOS Enabled players, or simply accessing a music streaming service, BluOS gives music lovers multiple ways to enjoy music.

BluOS is a feature rich, intuitive and stable platform for your whole home audio system.

Simple Setup

Add BluOS devices to any system and use the app to setup and connect. Device discovery via Multicast makes initial set up quick and simple. Diagnostics within the BluOS controller help you ensure an optimal network connection.

Streaming Made Easy

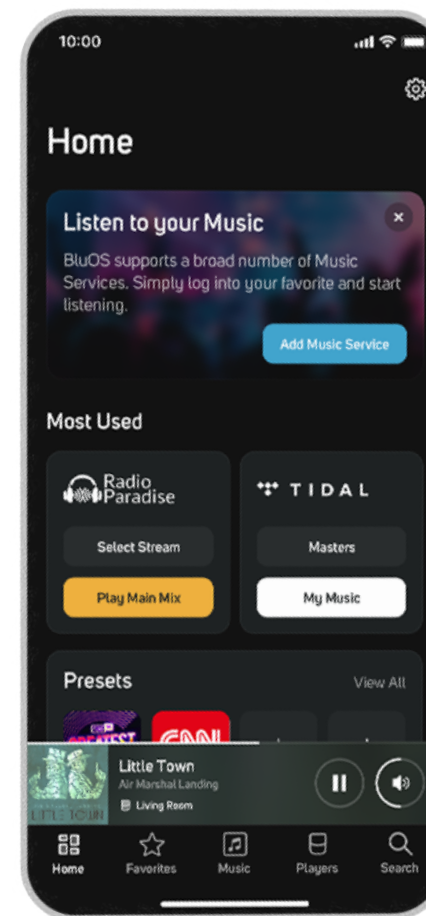
Many popular music streaming services and internet radio apps are built right into BluOS, giving you an all-access pass to millions of songs and the freedom to listen to everything you want to hear. Use the BluOS Controller from iOS, Android, or desktop or stream straight from your music service app using AirPlay 2, Spotify Connect, Tidal Connect or AptX Bluetooth.

Access Music Libraries

Easily connect and share your music collection from a computer, network-attached storage drive or a USB drive connected to a BluOS player to share local music libraries across the BluOS network. Plus listen to music stored on your phone or tablet using high-quality Bluetooth.

IR Learning

All BluOS devices can receive IR signals and within BluOS is the ability to learn the IR commands from any remote.



Expand Music to Other Rooms

Using our intuitive app you can group all your BluOS Enabled devices together and listen to music in perfect sync throughout the home.

Fixed Groups

Some BluOS devices are also compatible with setting up fixed stereo and multichannel groups. The follow me feature allows users to move their music from room to room as they move around the house.

Presets

If you have a favourite playlist or album on a music streaming service or network library or just want a shortcut to an external input, these can be save as presets, making it quick to access from a 3rd party keypad or control system.

Source Management

BluOS allows you to hide and rename sources. Digital inputs have the option of signal sensing and AV mode for correcting Lip Sync issues.

Everything You Need

Control your music and adjust the volume in any room, get rich album artwork and detailed artist info, right from the Now Playing screen. Even check what quality you are streaming at to ensure the best possible listening experience.



Integration Partners

We believe that working with other brands gives installers and end users the maximum amount of choice when it comes to specifying and using their audio system.

We maintain an open API and integrate with all of the main home automation brands.

Many of our 3rd party control drivers are created and supported in-house, by our own quality assurance team to ensure that they are always maintained and up-to-date with new BluOS hardware and firmware releases.

Source Capture

Bluesound HUB

Complete your system with the HUB, a versatile accessory that can capture a wide variety of external audio sources, allowing them to be played back on across a BluOS network.

For digital devices the Hub has HDMI, Optical, Digital Coaxial inputs, and for analogue sources it has RCA inputs and a MM phono stage for adding a turntable.

Once connected, any device becomes available as a source to all BluOS players on the same network, and can be played back without latency, meaning that you can capture the audio from a TV and access it from a rack based BluOS device without worrying about lip sync issues.

Each Hub is capable of providing one digital and one analogue source simultaneously to any or all BluOS players, which can be up to 64 on a single system.



Local Music Library

Bluesound VAULT 2i

Rip it. Download it. Store it. The VAULT 2i is a Bluesound Node 2i, with the additional feature of a 2TB HDD and a CD drive, which allows you to either rip your CD collection in bit-perfect, high-resolution formats or copy your existing music library over from another drive, allowing it to be indexed and shared across the rest of the BluOS network.

The Vault 2i is a useful tool for music lovers who already have a large music collection, as well as being a back up device in situations where the internet connection may not be reliable for streaming, such as remote rural locations or at sea.

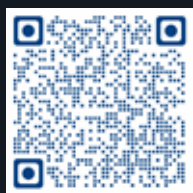
In addition, BluOS can connect with local network drive, and all BluOS devices now have the ability to share audio stored on a flash drive connected to their USB port across the BluOS network.



Download the App

Start your BluOS ecosystem by downloading the BluOS Controller app, available for iOS, Android, Windows and macOS. Easy and intuitive, the app lets you control, stream, play, pause, group players, and manage all your music with just a few easy taps or clicks.

Scan the QR codes below to Download the latest version of the BluOS App.





Flexibility and Ease of Installation

BluOS now supports doorbell integration across all devices via API calls. Integrators can also upload custom announcements and audio files to BluOS players, which can be triggered through API commands. For compatible NAD CI products, Smart Triggers provide an additional way to initiate these notifications seamlessly.

Flexibility and Ease of Installation

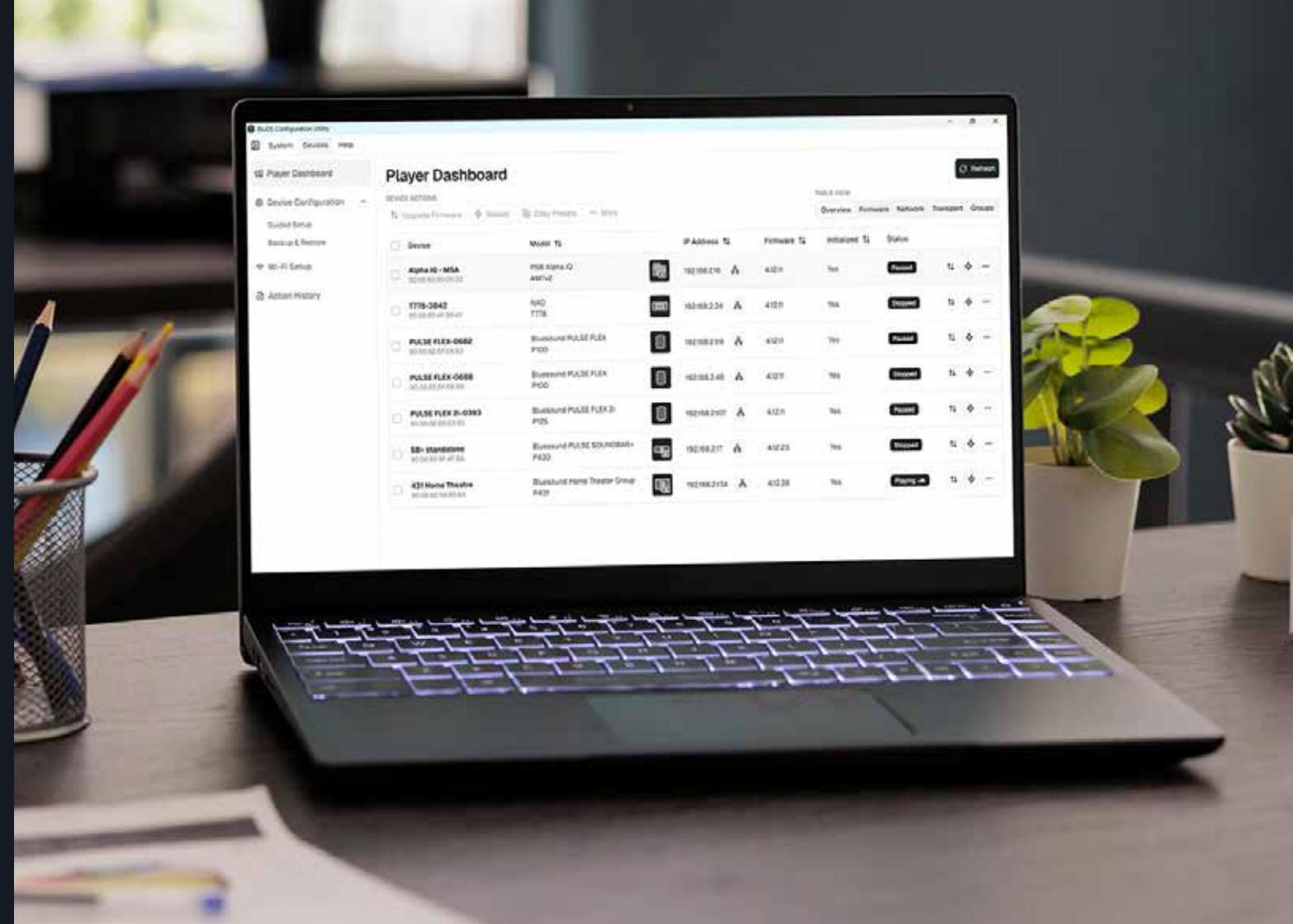
As part of our ongoing commitment to custom installation professionals, we've introduced powerful new BluOS features designed specifically for integrators.

****Introducing the BluOS Configuration Utility****

This exclusive tool, available to BluOS Integration Partners, simplifies the commissioning of large multi-zone systems and unlocks advanced "pro" capabilities not found in the standard BluOS Controller.

With the BluOS Configuration Utility, integrators can carry out the following and more:

- * View and manage existing setups through the Player Dashboard
- * Configure multiple players simultaneously
- * Control update settings, Wi-Fi setup, and DHCP/IP configurations
- * Identify players and zones across the system
- * Copy user presets to multiple devices
- * Manage Smart Triggers and Audio Notifications
- * Perform system backups and restores
- * Export diagnostic data for troubleshooting



Reliability

Simple and Reliable Network Protocol

BluOS uses a standard of multicast network protocol. We believe that this is the simplest and most reliable method of streaming to multiple devices without slowing down your network.

We have worked hard and refined BluOS to ensure that it can meet the requirements of the most demanding installations without any dropouts or network issues.



Support

Since we develop BluOS in-house and don't rely on 3rd party resources, we can offer fast and effective front line support. The people who are developing BluOS are on hand to investigate and resolve any issues quickly.



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