

**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

Much like the home itself, a great system design is only as strong as its foundation. When it comes to audio distribution, BluOS is the starting place.

BluOS is an operating system which entails best in class streaming, content acquisition, music management, and 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 synch.

Capable of transmitting lossless audio up to 24-bit/192kHz 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 as well as grouping of connected devices via Bluetooth or analogue and digital connections.

A well-crafted multi-room audio solution can be as unique as the residents in the home. It offers the system designer the opportunity to demonstrate his creativity and sophistication as he tailors the system to the specifics of the client. Every great design begins with BluOS.

Performance

Music is a key part of any smart home. It's proven to improve mood and wellbeing and is one of the most enjoyable and interacted parts of a whole home system for any client. Maximizing the musical aspect of a smart home is one way to exceed clients' expectations.

BluOS is a quality first platform which supports 24-bit/192 kHz playback on all devices, including support for MQA (Master Quality Authenticated).

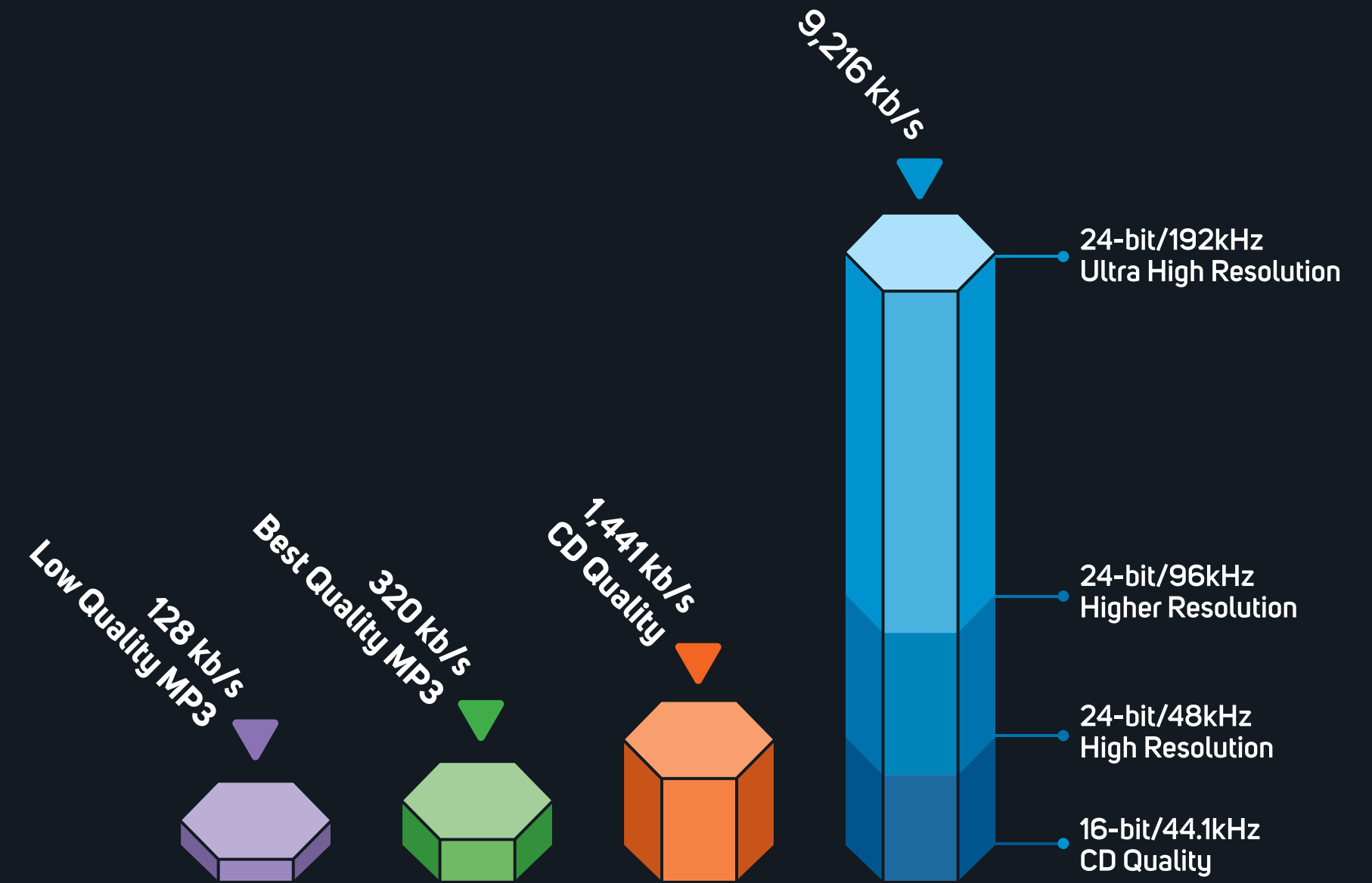
Using a hi-res audio source increases the amount of information being received by the playback devices. This not only helps to improve the overall quality of the music, it also improves intelligibility and dynamics at lower volume levels – because music

doesn't necessarily need to be loud to be enjoyed. Even quiet background music should sound clear and detailed.

BluOS will not downsample any 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 home.





Flexibility

Every home and every client is unique, meaning that as a specifier, you need a system which can be scaled and adapted for any project.

There are now over 50 BluOS enabled devices available from multiple brands. Across this selection of products, various performance levels, connectivity options and form factors can be found.

As many as 64 devices can be used on any one network. These can be connected via ethernet, or wi-fi. They can be set up on stereo, mono or multi-channel configurations, used centrally in a rack based system 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 and home theatres.

As a project or a client's needs evolve, so can a BluOS based system. Zones can easily be added or upgraded during or after the design and installation stage. After all, as families grow and habits change, today's bedroom could be tomorrow's gaming room, and a garage can become a home theatre. With BluOS, you can add or upgrade zones as required.

All BluOS enabled devices integrate seamlessly into the system and can be used in groups or as standalone audio systems, all with the same intuitive interface.

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

**Up to 64
Zones/Players.**



BluOS ECOSYSTEM

The choice is yours

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

rack mount devices, through to integrated amplifiers, audiophile streamers and AV Receivers. No other audio platform offers such a wide range of performance levels and price points.

BluOS Enabled devices are those which have BluOS "baked in" and are ready to join your BluOS ecosystem out of the box.

All BluOS Ready devices have a modular design, which allows you to add an optional BluOS module to unlock the device for hi-res music streaming.





HUB



NODE



POWERNODE EDGE



POWERNODE



VAULT 2i



PULSE FLEX 2i



PULSE MINI 2i



PULSE 2i



PULSE M



PULSE SOUNDBAR +



PULSE SUB +



C 700
BluOS Streaming
Amplifier



C 389
BluOS Streaming DAC



C 658
BluOS Streaming DAC



C 388
BluOS Streaming DAC



T 778
AV Surround
Sound Receiver



T 758 V3i
A/V Surround
Sound Receiver



CUSTOM INSTALL



CI 16-60 DSP
Multi-Channel Amplifier



CI 8-150 DSP
Multi-Channel Amplifier



CI 8-120 DSP
Multi-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 V2
BluOS Streaming Amplifier



M23
Stereo Power Amplifier



M17 V2i
Surround Sound
Preamp Processor



M33
BluOS Streaming
DAC Amplifier



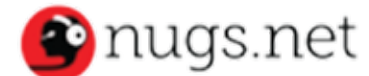
M28
Seven Channel
Power Amplifier



Learn More
about Bluesound
Product Line



Learn More
about NAD
Product Line



Listen To All The Music Ever Recorded

With all BluOS enabled products, you can instantly discover and enjoy millions of songs from your existing music services, tune in to your favourite 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 the music you want to hear in the BluOS app, anywhere in the home, and let any BluOS enabled product be the heart of your listening experience.

Users can access and play music via the BluOS controller app or use one of the multiple connectivity options to play direct from a music service app, such as AirPlay 2, Spotify Connect, Tidal Connect or Bluetooth intuitive interface.

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, music lovers can enjoy 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 or webUI to setup and connect. Device discovery via Multicast makes initial set up simple. Diagnostics within the BluOS controller help ensure an optimal network connection.

Streaming Made Easy

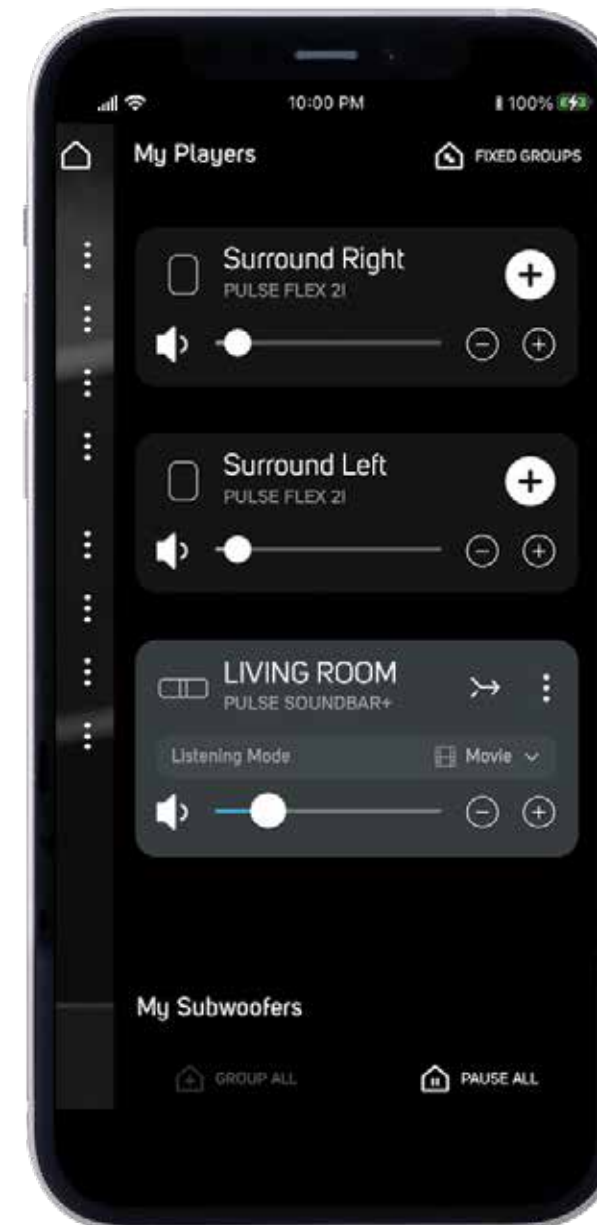
Many popular music streaming services and internet radio apps are built right into BluOS, giving you an all-access pass to millions of songs and the freedom to listen to everything you want to hear. Use the BluOS Controller from iOS, Android, or desktop or stream straight from your music service app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

Access Music Libraries

Easily connect and share your music collection from a computer or network-attached storage drive and access hundreds of thousands of tracks for streaming. Plus listen to music stored on your phone or tablet using high-quality Bluetooth.computer.

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. The follow me feature allows users to move their music from room to room as they move around the house.

Fixed Groups

Some BluOS devices can be used to set up permanent groups such as stereo pairs and surround sound systems.

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 the app or a 3rd party control system.

Source Management

BluOS allows you to hide and rename sources. Digital inputs have the option of signal sensing and AV mode manages 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.

Control4®

 **CRESTRON**®

ELAN®
HOME SYSTEMS

rako

 **URC**™

RTI
It's Under Control®

 **LUTRON**®

 **BAB**
TECHNOLOGIE

GIRA

KNX

rithum

 amazon alexa

 works with the
Google Assistant

Integration Partners

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.

BluOS Fixed Home Theatre Groups

Mixed purpose media rooms are the centre of many modern homes, relaxed spaces where the family can watch movies, box sets, sports or game.

Often, an upgrade of the TV audio to surround sound is desired, but a full blown home theatre can't always be accommodated in the room, or running cables from a receiver in an AV cabinet isn't viable.

Across sister brands Bluesound NAD and PSB you can mix and match a number of options which allow you to upgrade an existing stereo or build a clutter free multi-channel system with reduced wiring, and a performance level and budget to suit the space.

All front channel player options allow HDMI eARC or Toslink connection from your TV and can decode Dolby Surround, recreating true immersive audio,

not just multichannel stereo (although that's an option you can choose for music).

Distances and trim levels can even be adjusted to dial in the surround effects to the listening area.

For extended bass you can add a Bluesound SUB+ wirelessly (not NAD M 10v2) or use a wired SUB with any system.

BluOS uses clever DSP to mimic a centre channel to ensure dialogue is still crystal clear even without a dedicated centre speaker.

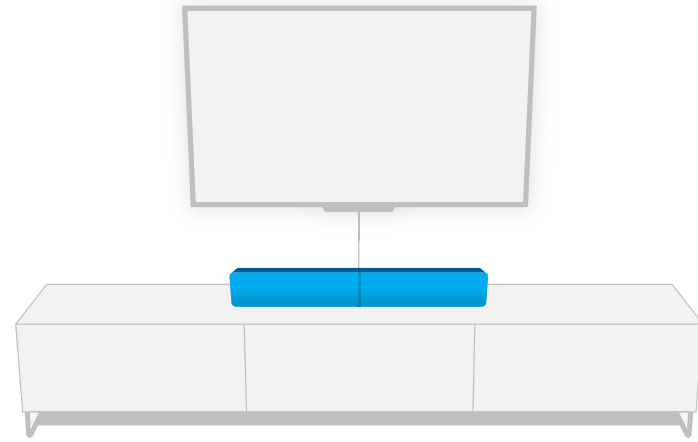
For simple control CEC is supported via HDMI or use a Toslink connection and utilise the IR learning function in the BluOS controller app.



Font Channels

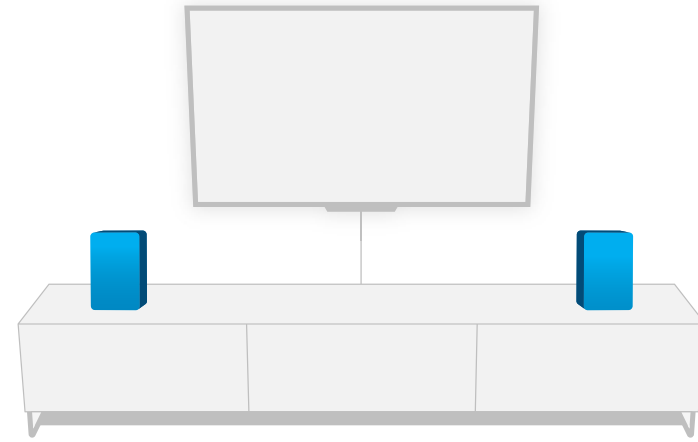
Option 1

Bluesound SOUNDBAR+



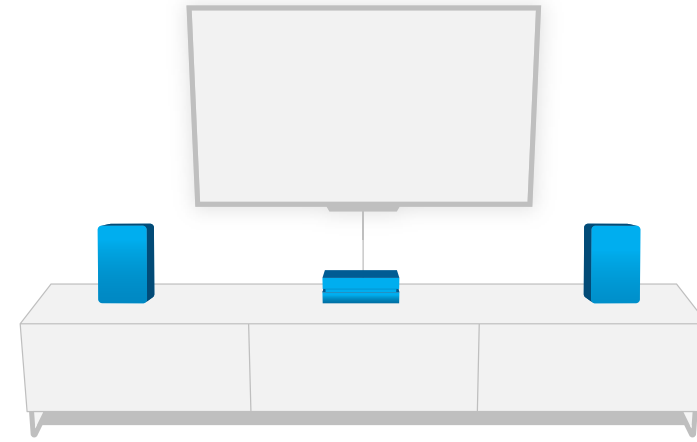
Option 2

PSB Alpha iQ



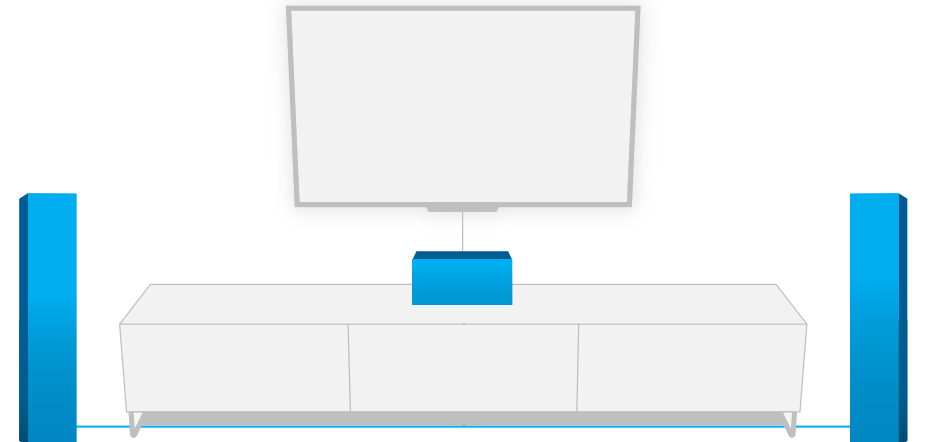
Option 3

Bluesound POWERNODE



Option 4

NAD M10 V2



LFE

Option 1

Bluesound PULSE SUB+



Option 2

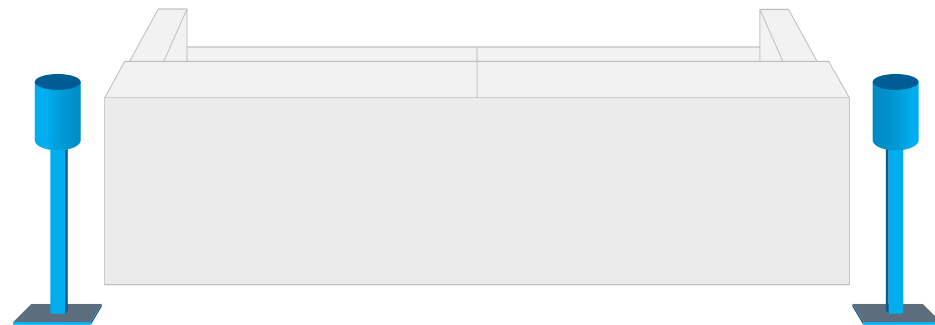
Any sub via SUB out



Rear Channels

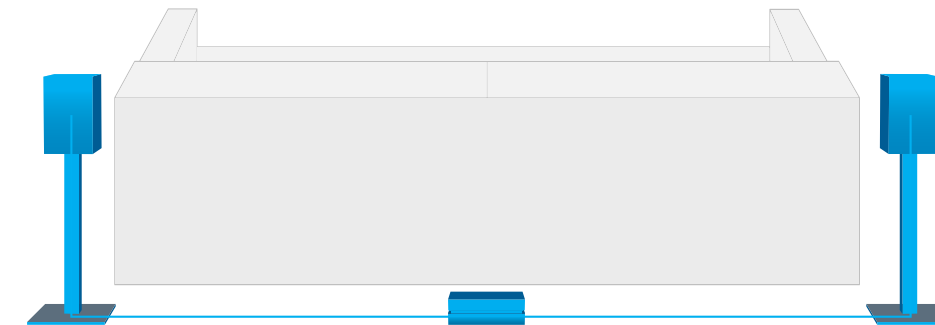
Option 1&2

PULSE M or PULSE FLEX , optional wall mounts or floor stands



Option 3&4

POWERNODE or POWERNODE EDGE with passive speakers



Sharing Sources

Bluesound HUB

Complete your system with the HUB, a versatile network accessory that connects to a wide variety of audio sources, allowing them to play back on any Bluesound player.

Streaming audio is more flexible than ever with the HUB. Turn any wired audio device into a multi-room player by adding a HUB to transmit music to one or many Bluesound players around the home, wirelessly. This means you can now stream virtually any audio source, anywhere.



VAULT 2i

Rip it. Download it. Store it. The VAULT 2i lets you rip all your CDs in bit-perfect, high-resolution formats or copy your existing music library to the VAULT 2i's hard drive. Hook it up to your existing sound system, or pair it with a set of powered speakers and stream your digital music collection in studio-quality.

Featuring an ultra-quiet, low power consumption 2TB hard drive, the VAULT 2i lets you easily rip all your CDs in lossless high-resolution FLAC, space-saving MP3, and everything in between. Giving users the ability to directly access their downloads, iTunes library and other content from any NAS drive via the USB port, the VAULT 2i provides endless possibilities when it comes to storing your music collection.





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. BluOS developers are on hand to investigate and resolve any issues quickly.





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