



BLUESOUND

---

PROFESSIONAL

BLUESOUND PROFESSIONAL  
PRODUCT GUIDE 2020



## TABLE OF CONTENTS

Foreward	PG. 2
Solutions	PG. 3
Our Products	PG. 4
Industries We Service	PG. 5
Audio Streaming Services	PG. 6
Control Systems	PG. 7
Multi-Room	PG. 7
Application Guide	PG. 8 - 9

## PRODUCTS

<b>B100S</b> - BluOS Network Music Player	PG. 11 - 13
<b>B400S</b> - 4 Zone BluOS Network Music Player	PG. 14 - 15
<b>B160S</b> - Networked Streaming Stereo Amplifier	PG. 16 - 18
<b>A860</b> - 8-Channel Power Amplifier	PG. 19 - 20
<b>BSP125</b> - Network Streaming Speaker	PG. 21 - 23
<b>BSP500</b> - Network Streaming Speaker	PG. 24 - 26
<b>BSP1000</b> - Network Streaming Speaker	PG. 27 - 29
<b>CP100</b> - Wall-mount Control Panel	PG. 30 - 31
<b>RM100</b> - Rackmount System	PG. 32
<b>RM160</b> - Rackmount System	PG. 33

# SEAMLESS AUDIO CONTROL AND DISTRIBUTION ECOSYSTEM FOR COMMERCIAL SPACES.



## NETWORK AUDIO FOR YOUR BUSINESS

Bluesound Professional is the world's first modern audio distribution ecosystem for commercial spaces. It includes components from streaming sources to loudspeakers to facilitate easy design, installation, setup and use of complete audio systems in installations from one zone to large multi-zone facilities.

## ABOUT BLUESOUND PROFESSIONAL

Bluesound Professional is a fusion of hardware and software that is purpose-built for high-performance networked audio for retail shops, bars, restaurants, hotels, gyms, and other commercial applications. End users can connect and control nearly any audio source, including streaming services, internet radio, or networked hard drives, while installers can confidently specify rack-mounted hardware that integrates seamlessly with smart controllers. Powered by BluOS, an award-winning multi-zone audio management software platform, made native in a comprehensive range of controllers, streamers, amplifiers, and speakers, Bluesound Professional makes commercial audio installation projects easy to configure, deliver, and use.



## SOLUTIONS FOR:

### BUSINESS OWNERS

Bluesound Professional offers a modern, clutter-free and elegant way to build and save playlists, and continuously stream audio to create a branded in-store experience – No more CDs, FM radio, or plugging in iPods and phones.

### ARCHITECTS

Bluesound Professional products allow the installation of high quality audio systems into commercial environments with minimum visual impact. Access to streaming services and local and network stored digital content allows for a wide range of material whilst ensuring a minimum of equipment.

### CONSULTANTS & SYSTEM DESIGNER

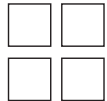
Bluesound Professional is a conflict-free ecosystem of hardware and software solutions for networked distributed audio, including rack-mounted amplifiers and streamers, wall and ceiling-mounted powered speakers, and a variety of control options from smart device apps.

### AV SYSTEM INTEGRATORS

Hardware and software conflicts are a thing of the past with Bluesound Professional's award-winning and market-tested purpose-built ecosystem for networked audio distribution and audio content management.

# OUR PRODUCTS

Bluesound Professional is a range of equipment built for the design and installation of complete commercial audio systems, capable of the replay and control of audio from a wide variety of streaming services and locally or network-stored digital audio files. Systems can be small, one zone installations to large flexible multi-zoned and multi-purpose installations in any hospitality or business environment. Bluesound Professional units can form complete systems and are available in the following categories:



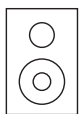
## NETWORKED STREAMERS

At the heart of the Bluesound Professional ecosystem are a range of single and multi-zone networked streamers. Using the established BluOS operating system to access over 20 streaming platforms and internet radio stations, these streamers also allow access to both network-attached and local storage devices containing your audio libraries. Bluesound Professional streamers are available with and without integral power amplifiers, with the former being used in new installations and the latter facilitating easy connection to existing systems.



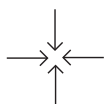
## COMMERCIAL AMPLIFIERS

Bluesound Professional features multi-channel commercial audio amplifiers, effectively reducing the size and complexity of amplification in even the largest installations.



## MOUNTED LOUDSPEAKERS

Active loudspeakers including BluOS streamers allow for completely integrated systems, totally eliminating the need for equipment racks.



## CONTROLLERS

As well as access using computers or mobile devices and interfaces to leading third-party control systems, Bluesound Professional also offers dedicated, elegant, intuitive wall-mount controllers to make the control of systems beautifully simple.

# INDUSTRIES WE SERVICE

Bluesound Professional products are suitable for any commercial installation which requires flexible, high-quality reproduction of audio from one or a variety of sources. Our systems are also controllable from a wide variety of devices and are designed for the high quality reproduction of audio. The following are examples of markets in which these products and systems are designed to be used.

## HOSPITALITY

Bluesound Professional products have been designed to specifically meet user needs in this area. Cafés, restaurants, hotels and bars are examples of these installations. Within these spaces, high quality appropriate background (and sometimes foreground) audio sets the right tone and increases business.

## RETAIL

For both shopping malls and in-store systems, the replay of appropriate 'on-brand' content is shown to increase sales and improve customer satisfaction. Bluesound Professional systems can be zoned and grouped to allow the replay of different content to different areas and departments. Integration with control and management systems allows for scheduling of content in order to closely track and influence buying behavior.

## ATHLETIC FACILITIES & GYMS

The replay of appropriate, zoned audio motivates users to exercise and achieve their goals. Local microphone and line inputs allow for the amplification and replay of wired or wireless instructor microphones in fitness classes to ensure that the instructors can be heard.

## HOSPITAL AND CARE FACILITIES

Relevant audio can stimulate rehabilitation and reduce stress. Both local and global inputs can interface to paging and messaging systems and advanced zoning facilities can allow for the level of the system as well as its content to be tailored to the precise needs of specific groups of patients.

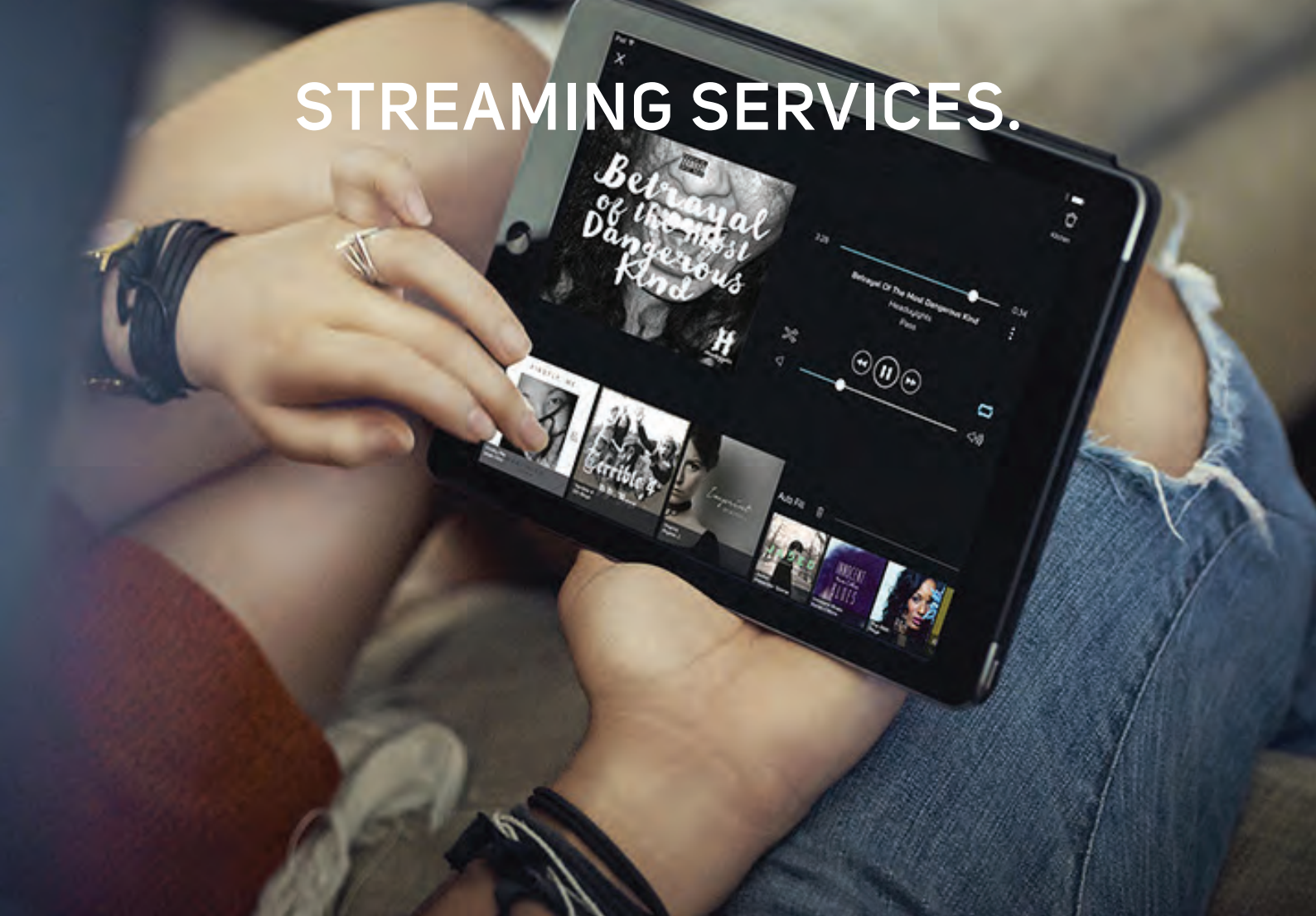
## TRANSIT FACILITIES

Bluesound Professional equipment can be added to existing paging and messaging systems in mass transit facilities to permit the broadcast of background audio in order to make waiting times appear shorter and to enhance privacy in these environments.

## OFFICE ENVIRONMENTS

The increasing predominance of open offices raises privacy concerns and potentially reduces productivity. The replay of low level content can increase productivity and contribute to a feeling of privacy. In addition, sound masking systems can be connected to local or global inputs to allow for easy deployment of these systems.

# STREAMING SERVICES.



TIDAL

qobuz

DEEZER

Spotify

amazon music

wimp

CustomChannels

napster

iHeartRADIO

LIVE X LIVE

SOUNDMACHINE

DMH

CALM CALMRADIO

HIGHRESAUDIO

TUNE IN

radio paradise

nugs.net

Bugs!

Qsic

RADIO.COM

KKBOX

IDAGIO

## AUDIO STREAMING SERVICES

Users can stream curated content – either algorithmically or by humans – with all rights paid. One monthly payment and you are ready to go. Messaging and scheduling allow for nuanced content to be played throughout the day – maximizing effectiveness and minimizing worker frustration.



## SEAMLESS INTEGRATION WITH CONTROL SYSTEMS

Bluesound professional products are designed to be controlled by a wide variety of devices. Native BluOS allows for control via Mac/PC or iOS/Android mobile devices. The Bluesound Professional CP100 provides a simple, elegant wall mounted control interface. Finally, Bluesound Professional products allow for flexible and powerful control from third party control systems, and interfaces exist for all of today's market-leading systems.



## MULTI-ROOM CONNECTION AT YOUR FINGERTIPS

BluOS is the operating system and audio management software that underpins Bluesound Professional units. BluOS allows you to easily access and stream lossless audio up to 24 bit/192kHz to every zone in your installation. Locate audio anywhere on your network or cloud audio service of choice (including those designed specifically for commercial use) and share it with any BluOS-enabled Bluesound Professional units in your installation. BluOS also allows for control of individual zones and hardware devices, as well as synchronized grouping into larger zones.



## BLUESOUND PROFESSIONAL

Bluesound Professional offers a versatile way to incorporate streaming music into a commercial installation. A fusion of hardware and software, Bluesound Professional's suite of streamers, amplifiers, speakers, controllers, and accessories bring easy-to-install, expandable, and conflict-free networked audio to retail shops, restaurants, bars, gyms, and other hospitality use cases.

Powered by the established BluOS multi-zone audio content management interface, Bluesound Professional is designed to have decentralized processing power so designers and integrators have maximum flexibility to add streaming to existing installations or to build anew. Audio streaming capabilities can be added to a system head using a Bluesound Professional streamer, regardless of which amplifiers are being used. Alternatively, Ethernet cables can be run to a Bluesound Professional speaker, which contains all the necessary processing power to stream audio content without changing the configuration of the system head.

### Easily Create Branded Environments

With hardware that supports nearly unlimited zones of audio and a natively-integrated commercially-licensed music streaming service in SoundMachine, Bluesound Professional makes easy work of creating branded environments for your clients.

### Add Audio Streaming to Existing or New Installations

Bluesound Professional's decentralized processing capabilities gives designers and installers maximum flexibility to add audio streaming to installations, whether existing or new.

### Plays Nicely with Others

Standard rack sizes and a wide range of standard inputs and outputs means that installation is quick and simple. The ecosystem's modular design allows it to work seamlessly as an audio system on its own, or with audio components from other brands.



### Easy to Configure

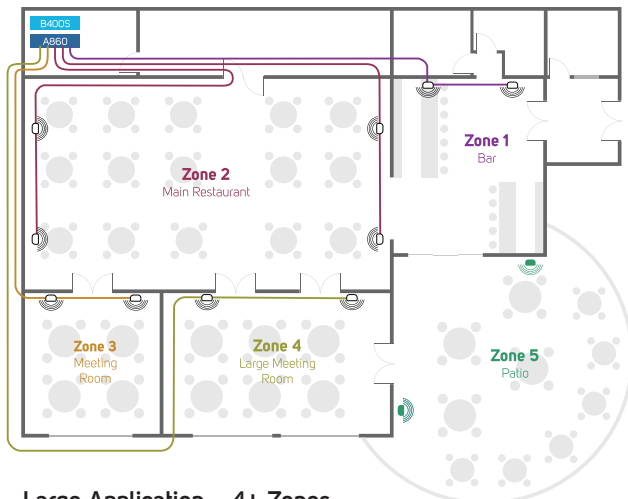
Self-discovery makes set-up and configuration painless, as Bluesound Professional players placed onto the same network will find each other automatically. A few taps on the intuitive icons in the BluOS Controller app will group players to create zoned audio content and lock-out unauthorized users.



Bluesound Professional offers the most versatile way to incorporate streaming music into a commercial installation. Unlike other solutions in the market, Bluesound Professional products can be easily grandfathered into existing installations or designed and installed anew. For example, using the Bluesound Professional system, streaming can be incorporated into a new or existing installation in one of two ways:

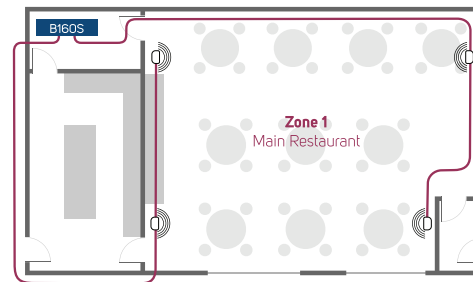
## At the system head

A Bluesound Professional streamer, like the B400S 4-Zone BluOS Network Streaming Player, can be added to the system head and connected to an existing distribution amplifier and speaker configuration. The streamer would be connected to the network and either via the BluOS Controller app or a Bluesound Professional hardware controller like the CP100, the system can then access a variety of streaming music options.



### Large Application – 4+ Zones

- **B400S** 4-Zone BluOS Network Music Streamer
- **A860** 8-Channel Power Amplifier
- **BSP1000** Indoor/Outdoor Speakers x 2
- Existing Indoor Speakers



### Small Application – 1 Zone

- **B160S** 2-Channel Power Amplifier
- **CP100** Wall-mount Control Panel (optional)
- Existing Indoor Speakers

## At the end-point

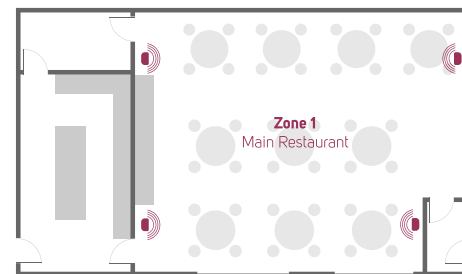
The decentralized way in which the Bluesound Professional products are designed means that without making changes to the system head, streaming music can be achieved with the addition of BluOS Enabled end points like the BSP125, a powered speaker that houses advanced processing capabilities. Simply run power and an ethernet connection to the speaker and through the BluOS Controller app or the CP100, the user can have full control of streamed audio content.

This flexibility in system design gives commercial integrators the ability to optimize configurations for efficiency, regardless of use case.



### Large Application – 4+ Zones

- **BSP125** Network Streaming Speaker x 6
- **BSP500** Indoor/Outdoor Speakers x 4
- **BSP1000** Indoor/Outdoor Speakers x 2



### Small Application – 1 Zone

- **BSP125** Network Streaming Speaker x 4

# PRODUCT LINE 2020

## **B100S** **BluOS NETWORK MUSIC PLAYER**



The Bluesound Professional B100S is a 1/3 rack space network music player designed specifically for use in commercial installations. This player is based on the established BluOS platform and is capable of playing and distributing content from local network storage as well as from a large number of streaming services, including some specifically designed for commercial use, such as SoundMachine. Use of the B100S in a larger BluOS system is also possible, allowing for grouping into user-definable groups of whatever size is required with other B100S units and/or any other connected Bluesound Professional players on the network in an installation.

Output is via balanced line level analog or optical digital connections plus a dedicated balanced line level subwoofer output. Balanced analog mic/line (with phantom powering) allows for the connection of a local source. Access to network control is via ethernet for increased reliability. All audio connections are via pluggable barrier strip for ease of installation. A USB input further adds to the capability of the system by providing replay of files stored on connected drives. Inbuilt DSP allows for equalization as well as other audio processing.

Control of the speaker can be accomplished by any Windows/Mac computer as well as any iOS/Android phone or tablets and the Bluesound Professional CP100 wall mount controller. Third party control is also possible with any of the leading systems. Security provisions including no user-accessible controls on the player prevent any unauthorized control of the system, either locally or remotely. Optional rack mounting hardware allows for the mounting of up to 3 x B100S units in one rack space.

## FEATURES

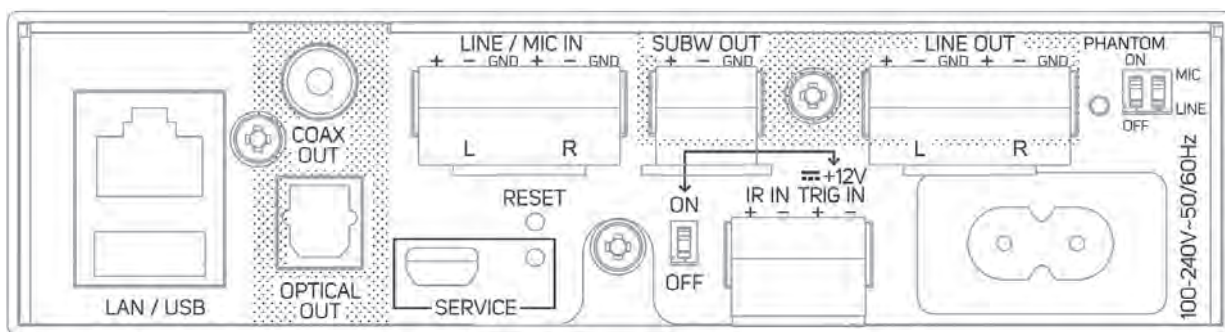
- Stereo network music replay
- Integration with local network content storage
- Integration with many streaming services including Spotify, Tidal, Qobuz etc.
- Integration with a wide variety of internet radio platforms
- PC/Mac, iOS/Android and third-party control
- Security preventing unauthorized control
- Specialist Bluesound Professional wall-mount control panels
- Flexible and unlimited grouping of zones within a BluOS system
- Support of hi-res audio up to 192kHz/24 bit
- Support of MQA content
- DSP providing equalization and other audio processing
- Streaming via ethernet for increased reliability
- Balanced line analog and digital outputs
- Dedicated balanced line level subwoofer output
- Local balanced mic/line analog input
- All connections via pluggable barrier strip for ease of installation
- Phantom powering for local mic input
- 1/3 rack space form factor for commercial installations
- Optional rack mounting hardware allows for the mounting of up to 3 x B100S units in one rack space

## ARCHITECTS & ENGINEERS SPECIFICATION

The 1/3 rack space network music player shall allow for the playing of material from network attached drives and a wide variety of streaming services including Spotify, Tidal, Qobuz and SoundMachine as well as internet radio platforms such as TuneIn and iHeart Radio. The network music player shall support files up to 192kHz and 24-bit resolution as well as MQA encoded files. Control of the unit shall be possible from PC or Mac computers, Android and iOS mobile devices and third-party control systems. In addition, there shall be the provision for the connection of dedicated wall mount remote control panels to allow for local control of zones. The network music player shall be based on the BluOS platform and shall be compatible with other BluOS devices to form a complete and integrated ecosystem including flexible grouping and control of zones.

The network music player shall have balanced line analog as well as a dedicated subwoofer balanced line-level output. Streaming shall be via wired ethernet for increased reliability. A stereo balanced mic/line analog input shall also be provided for connection to a local source with phantom powering for locally attached mic. All audio connections shall be via pluggable barrier strip for ease of installation. A USB input shall allow for the reply of content from locally connected drives. The unit shall have no controls to prevent unauthorized adjustment and control of the unit shall incorporate security to prevent unauthorized access via other devices. Optional rack mounting hardware shall allow for the mounting of up to 3 x network music players in one rack space.

The network music player shall be the Bluesound Professional B100S.



## SPECIFICATIONS

## CONNECTIVITY

<b>AUDIO</b>		<b>NETWORK</b>	Gigabit Ethernet RJ45
<b>SUPPORTED FILE FORMATS</b>	MP3, AAC, WMA, OGG, WMA-L, ALAC, OPUS Hi-Res formats - FLAC, MQA, WAV, AIFF	<b>USB</b>	1 x Type-A port for connection to USB memory sticks (Fat32 or NTFS formatted) and supported peripherals 1 x Type-B (mini) for product servicing
<b>NATIVE SAMPLING RATES</b>	32 - 192kHz	<b>AUDIO INPUT</b>	Mic/Line Balanced Phoenix
<b>BIT DEPTHS</b>	16 - 24	<b>AUDIO OUTPUT</b>	Analog: Balanced Phoenix Coaxial RCA TOSLINK digital optical Subwoofer Balanced 12 Volt trigger out
<b>PERFORMANCE</b>	SNR - 110dBA Distortion, THD+N - 0.005% (20hz-20khz at Rated Power)	<b>POWER</b>	Universal bi-pin AC Cord input (100 - 240AC)
<b>DAC</b>	32-Bit, 192kHz	<b>USER INTERFACE</b>	
<b>SUPPORTED OPERATING SYSTEMS</b>	Plays music from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista 7-10, Apple Macintosh 7-10	<b>MOBILE OPERATING SYSTEM</b>	BluOS - Free Android and iOS App Available Online at Google Play and Apple App Store
<b>FREE INTERNET RADIO</b>	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveXLive	<b>GENERAL</b>	
<b>SUPPORTED CLOUD SERVICES</b>	Spotify, Amazon Music, TIDAL, Deezer, Qobuz, HighResAudio, Murfie, Napster, KKBox, Bugs, Taihe Music ZONE, SoundMachine.	<b>PROCESSOR</b>	ARM® CORTEX™ A9, 1 GHz
<b>INTEGRATION PARTNERS</b>	Control4, RTI, Crestron, URC, push, iPort, ELAN, Lutron, roon	<b>UNIT WEIGHT</b>	1.12 kg / 2.45 lb
<b>ALBUM ART</b>	JPG	<b>GROSS DIMENSIONS</b>	238 x 46 x 146mm 8.7 x 1.8 x 5.7 in
		<b>POWER CONSUMPTION (IDLE)</b>	6 Watts
		<b>ACCESSORIES</b>	2x AC power cords (Europe & North America)
		<b>STORAGE ENVIRONMENT</b>	-10° C to 50° C, 20% to 80% relative humidity
		<b>OPERATING ENVIRONMENT</b>	0° C to 40° C

## **B400S** **4 ZONE BluOS® NETWORK MUSIC PLAYER**



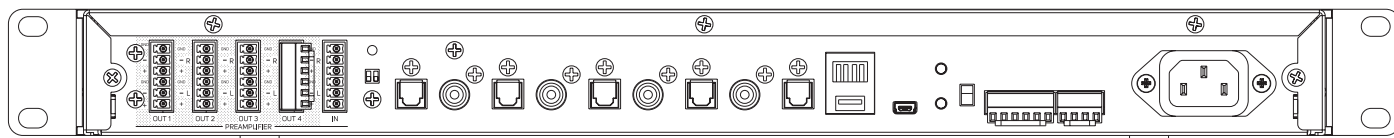
The Bluesound Professional B400S is a 4-zone network music player designed specifically for use in commercial installations. This 1U player is based on the established BluOS platform and is capable of playing and distributing content from local storage as well as from a large number of streaming services, including some specifically designed for commercial use, such as SoundMachine. These sources can be played to one or more of the four available stereo zones with the B400S effectively acting as four independent players with the capability of completely separate content and control, or grouping into user-definable groups of whatever size required with different zones within the BS400S and/or any other connected Bluesound Professional players on the network.

Control of the system can be accomplished by any Windows/Mac computer as well as any iOS/Android phone or tablet and the Bluesound Professional CP100W wall mount controller. Third party control is also possible with any of the leading systems. Security provisions including no front panel controls on the player prevent any unauthorized control of the system, either locally or remotely.

Balanced line channel outputs are designed specifically for commercial installations and these are supplemented by optical and coaxial digital outputs per channel. Analog balanced mic/line and digital inputs allow for the connection of a local stereo source. A USB input further adds to the capability of the system by providing replay of files stored on connected drives. Built-in DSP allows for equalization as well as other audio processing. Trigger inputs allow for local triggering of unit power and signal inputs allow for remote muting of the music.

### **BENEFITS**

- 4 stereo zones of network music replay
- Integration with local network content storage
- Integration with many streaming services including Spotify, Tidal, Qobuz etc.
- Integration with a wide variety of internet radio platforms
- PC/Mac, iOS/Android and third-party control
- Security preventing unauthorized control
- Specialist Bluesound Professional wall-mount control panels
- Support of hi-res audio up to 192kHz/24 bit
- Support of MQA content
- Replay from locally connected USB drives
- DSP providing for equalization and other audio processing
- Streaming via ethernet for increased reliability
- Flexible and unlimited grouping of zones within a BluOS system including within B400S
- Local analog mic/line and digital line inputs
- Analog balanced, digital optical and coaxial outputs
- Remote trigger and signal inputs



## ARCHITECTS & ENGINEERS SPECIFICATION

The network music player shall allow for the playing of material from network attached drives or a wide variety of streaming services including Spotify, Tidal, Qobuz and SoundMachine as well as internet radio platforms such as TuneIn and iHeart Radio.

Streaming shall be via wired ethernet for increased reliability. The player shall allow playing of separate or grouped sources to each of four separate stereo zones accessible via balanced barrier pluggable analog barrier strip outputs as well as optical or coaxial digital outputs per zone. The player shall support files up to 192kHz and 24-bit resolution as well as MQA encoded files. Control of the player shall be possible from PC or Mac computers, Android and iOS mobile devices and third-party control systems. In addition, there shall be the provision for the connection of dedicated wall mount remote control panels to allow for local control of zones. This player shall be based on the BluOS platform and shall be compatible with other BluOS devices to form a complete and integrated ecosystem including flexible grouping and control of zones.

Local balanced mic and line level analog and digital inputs shall also be provided to allow for the additional use of local sources. Trigger and signal inputs shall be provided. A USB input shall provide for replay of files stored on local connected drives. Built-in DSP shall allow for equalization and other audio processing. The player shall be 1U with no front panel controls to prevent unauthorized adjustments and control of the unit shall incorporate security to prevent unauthorized access via other devices.

The network music player shall be the Bluesound Professional B400S.

## SPECIFICATIONS

<b>SUPPORTED OPERATING SYSTEMS</b>	Plays music from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista 7-10, Apple Macintosh 7-10
<b>FREE INTERNET RADIO</b>	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveX-Live
<b>SUPPORTED CLOUD SERVICES</b>	Spotify, Amazon Music, TIDAL, Deezer, Qobuz, HighResAudio, Murfie, Napster, KKBox, Bugs, Taihe Music ZONE, SoundMachine
<b>INTEGRATION PARTNERS</b>	Control4, RTI, Crestron, URC, push, iPort, ELAN, Lutron, roon
<b>ALBUM ART</b>	JPG
<b>AUDIO</b>	
<b>RATED DISTORTION</b>	≤0.005% (20hz-20khz at Rated Power)
<b>SIGNAL-TO-NOISE RATIO</b>	100dB (ref. 1W/8 Ohms)
<b>SAMPLE RATE</b>	32 - 192kHz
<b>BIT DEPTH</b>	16 - 24

## CONNECTIVITY

INPUT	OUTPUT
<b>ANALOG</b> Mic/Line Balanced Phoenix	<b>ANALOG</b> Balanced Phoenix X 4
<b>SPDIF</b> Optical (TOSLINK)	<b>SPDIF</b> Optical x 4 (TOSLINK) Coaxial x 4
<b>USB</b> Type A (for USB memory stick and supported peripherals - FAT 32 formatted)	<b>+12V TRIGGER OUT</b> 12V ±20%
Type B (for computer audio interface)	<b>NETWORK</b>
<b>+12V TRIGGER IN</b> Phoenix 12V ±20%	<b>ETHERNET/LAN</b> Ethernet RJ45, GigE
<b>IR INPUT</b> Phoenix	<b>GENERAL</b>
<b>SIGNAL INPUT</b> Phoenix- Pin 1, 12V, Pin 2 Input 1, Pin 3 Input 2, Pin 4 GND	<b>AC POWER SUPPLY</b> 100-240V 50/60Hz
	<b>STANDBY POWER</b> 6W Idle (Network Standby Mode)
	<b>DIMENSIONS (W x H x D)</b> 480 x 46 x 234mm (18 7/8 x 1 13/16 x 9 1/4")*
	<b>NET WEIGHT</b> 2.7kg (5.9lb)
	<b>SHIPPING WEIGHT</b> 3.8kg (8.4lb)

© Bluesound International, Bluesound Professional, Bluesound, the stylized wordmark and "B" logotype, the phrase "HiFi for a wireless generation", and all other Bluesound product names and taglines are trademarks or registered trademarks of Bluesound International, a division of Lenbrook Industries Limited. All other logos and services are trademarks or service marks of their respective owners.\*Non-metric measurements are approximate. 19-016 © 01/19 Bluesound.



## **B160S** **NETWORKED STREAMING STEREO AMPLIFIER**



The Bluesound Professional B160S networked streaming stereo amplifier is a complete solution for a commercial music installation. The B160S combines a high-quality stereo amplifier with a BluOS enabled network music player. The B160S's HybridDigital™ amplifier section provides 2 x 60W of power into 8Ω – plenty for most small/medium spaces and thermostatic fan cooling provides for reliable operation in commercial environments. The amplifier technology is highly energy efficient and also has a standby mode consuming only 6W of power.

The player within the B160S is based on the established BluOS platform and is capable of playing and distributing content from local storage as well as from a large number of streaming services, including some specifically designed for commercial use, such as SoundMachine. As well as stand-alone use, it is possible to use the B160S in a larger BluOS system allowing for grouping into user-definable groups of whatever size is required with other B160S units and/or any other connected Bluesound Professional players on the network.

As well as the amplified outputs, a dedicated balanced line level subwoofer output is provided for connection to an active subwoofer. Access to network control is via ethernet for increased reliability. Balanced analog mic/line (with phantom powering) allows for the connection of a local source. A USB input further adds to the capability of the system by providing replay of files stored on connected drives. Built-in DSP allows for equalization as well as other audio processing.

Control of the system can be accomplished by any Windows/Mac computer as well as iOS/Android phones or tablets and the Bluesound Professional CP100W wall mount controller. Third party control is also possible with any of the leading systems. Security provisions including no front-panel controls prevent any unauthorized control of the system, either locally or remotely.

The form factor of the B160S allows it to be mounted individually vertically or horizontally on or under shelves or tables or on walls. Up to six B160S units can be mounted side-by-side in a 3U space in a rack using the optional RM160 rack mounting shelf for a compact 12-channel system with six independent or group zones.

## FEATURES

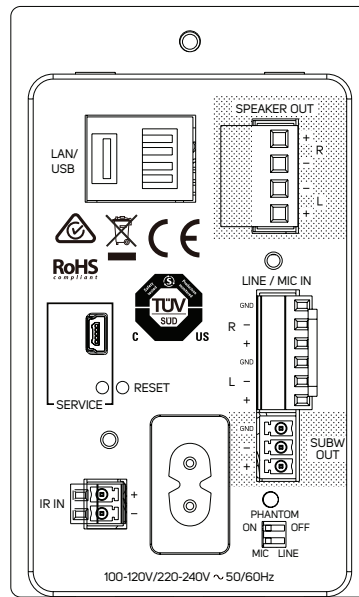
- A complete stereo solution for commercial installations
- Integration with local network content storage
- Integration with many streaming services including Spotify, Tidal, Qobuz etc.
- Integration with a wide variety of internet radio platforms
- PC/Mac, iOS/Android and third-party control
- Specialist Bluesound Professional control panels
- Security preventing unauthorized control
- Support of Hi-Res audio up to 192kHz/24 bit
- Support of MQA content
- Flexible and unlimited grouping of zones within a BluOS system
- Balanced line level subwoofer output
- Balanced mic/line analog input
- DSP providing equalization and other audio processing
- Streaming via ethernet for increased reliability
- USB input for replay from local connected drives
- 2 x 60W (8Ω) HybridDigital™ energy-efficient amplification
- 6W standby mode
- Flexible mounting options including mounting of 6 x BS160S in a 3U rack space using the optional RM160 rack mounting shelf

## ARCHITECTS & ENGINEERS SPECIFICATION

The network streaming stereo amplifier shall allow for the playing of material from network attached drives or a wide variety of streaming services including Spotify, Tidal, Qobuz and SoundMachine as well as internet radio platforms such as TuneIn and iHeart Radio. The network streaming stereo amplifier shall support files up to 192kHz and 24-bit resolution as well as MQA encoded files. Control of the network streaming stereo amplifier shall be possible from PC or Mac computers, Android and iOS mobile devices and third-party control systems. In addition, there shall be the provision for the connection of dedicated wall mount remote control panels to allow for local control of zones. This network streaming stereo amplifier shall be based on the BluOS platform and shall be compatible with other BluOS devices to form a complete and integrated ecosystem including flexible grouping and control of zones.

The power amplifier section of the network streaming stereo amplifier shall incorporate HybridDigital™ energy efficient amplification to provide 2 x 60W (8Ω) with a standby current of 6W or less. Built-in DSP shall allow for equalization and other audio processing. A local balanced line level analog subwoofer output will also be provided to allow for the additional connection of subwoofers as needed. There shall be a stereo balanced mic/line analog for the connection of a local stereo input. There shall also be a USB input to provide for replay of content from locally connected drives. Connection to network and streaming content shall be via ethernet for increased reliability. The unit shall have no front panel controls to prevent unauthorized adjustment and control of the unit shall incorporate security to prevent unauthorized access via other devices.

The network streaming stereo amplifier shall be the Bluesound Professional B160S.



## SPECIFICATIONS

<b>SUPPORTED FILE FORMATS</b>	MP3, AAC, WMA, OGG Vorbis, WMA-L, FLAC, ALAC, WAV, AIFF, MQA, HRA	<b>OUTPUT</b>	
<b>SUPPORTED CLOUD SERVICES</b>	WIMP, Slacker Radio, Qobuz, HighResAudio, Deezer, Murfie, HDTracks, Spotify, TIDAL, Napster, Microsoft Groove (with OneDrive), Classics Online, KKBox.	<b>SUBWOOFER OUT</b>	Balanced Phoenix
<b>SUPPORTED OPERATING SYSTEMS</b>	Microsoft Windows 7 SP1 or higher, Apple Macintosh OSX 10.7.5 or higher	<b>SPEAKER OUT</b>	Phoenix Speaker connection block
<b>FREE INTERNET RADIO</b>	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveXLive	<b>NETWORK</b>	
<b>INTEGRATION PARTNERS</b>	Control4, RTI, Crestron, URC, push, iPort, ELAN, Lutron, room	<b>ETHERNET/LAN</b>	Ethernet RJ45, GigE
<b>RATED POWER</b>	2 x 60W at 8 Ohms 2 x 100W at 4 Ohms	<b>USER INTERFACE</b>	FREE Android and iOS App available at GooglePlay and Apple App Store
<b>RATED DISTORTION</b>	≤0.005% (20hz-20khz at Rated Power)	<b>GENERAL SPECIFICATIONS</b>	
<b>SIGNAL-TO-NOISE RATIO</b>	-110dBA (ref. 1W/8 Ohms)	<b>AC POWER SUPPLY</b>	100-240V 50/60Hz
<b>SAMPLE RATE</b>	32 - 192kHz	<b>STANDBY POWER</b>	6W (Network Standby Mode)
<b>BIT DEPTH</b>	16 - 24	<b>DIMENSIONS (W x H x D)</b>	70 x 120 x 350mm (2.81 x 4.75 x 13.81")
<b>INPUT</b>		<b>NET WEIGHT</b>	1.6kg (3.5lb)
<b>ANALOG</b>	Balanced Phoenix	<b>SHIPPING WEIGHT</b>	2.3kg (5.1lb)
<b>USB</b>	Type A (for USB memory stick and supported peripherals - FAT32 formatted) Type B Mini USB (for servicing purposes only)		
<b>IR INPUT</b>	3.5mm Jack		

## **A860** **8-CHANNEL POWER AMPLIFIER**



The Bluesound Professional A860 is a high quality 8-channel power amplifier for use in commercial installations. This 2U amplifier provides 50W x 8 at 8 $\Omega$ , 60W x 8 at 4 $\Omega$  or 120W at 8 $\Omega$  per pair of channels in bridged mode. A standby mode can be triggered remotely or automatically for low power consumption when not in use. A global input can be assigned to multiple outputs and global and local output facilitate multiple amplifier installations. Thermostatically controlled fans ensure trouble-free operation in a wide range of conditions.

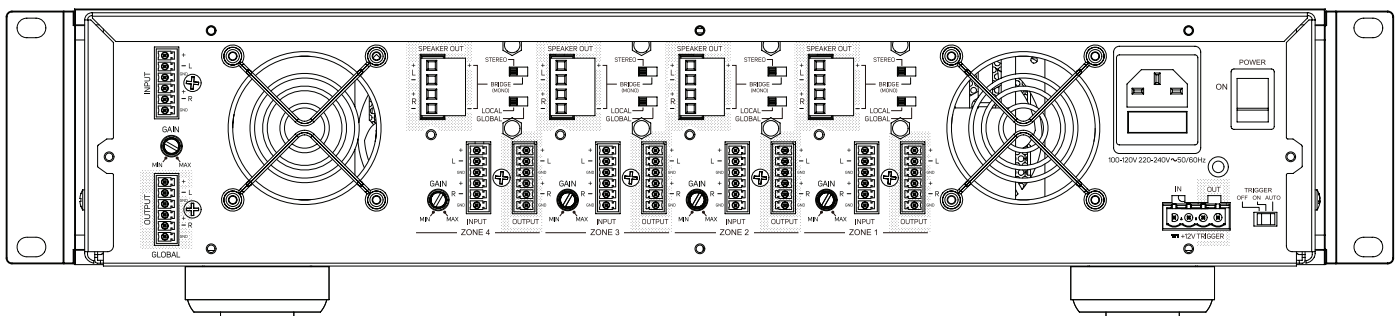
### **FEATURES**

- 8 channels of high-quality amplification giving
  - 8 x 50W at 8 $\Omega$
  - 8 x 60W at 4 $\Omega$
  - 120W at 8 $\Omega$  in bridged mode
- Balanced line inputs for commercial use
- Automatic or remotely triggered standby mode for 0.5W low power consumption
- Thermostatically controlled low noise fans ensure reliable operation
- Global balanced input routable to multiple outputs
- Pass-through global and local balanced line level outputs for multi-amplifier installations
- Compact 2U rack-mount form factor
- Indicators for amplifier and channel status

## ARCHITECTS & ENGINEERS SPECIFICATION

The commercial 8-channel amplifier shall provide 8 channels of amplification each with a power rating of 50W at 8Ω and 60W at 4Ω. Pairs of channels shall be bridgeable to provide 120W at 8Ω. It shall provide balanced analog line inputs per channel as well as a balance line global input which can be routed to any or all of the pairs of outputs. There shall be balanced line outputs of both the local and global inputs to allow for easy connection of multiple amplifiers to a system. The amplifier shall be capable of entering a low power mode either automatically or by remote trigger and in this mode, the amplifier shall draw 0.5W or less. The amplifier shall be cooled by thermostatically controlled fans. The amplifier shall be 2U and shall fit into a 19" rack.

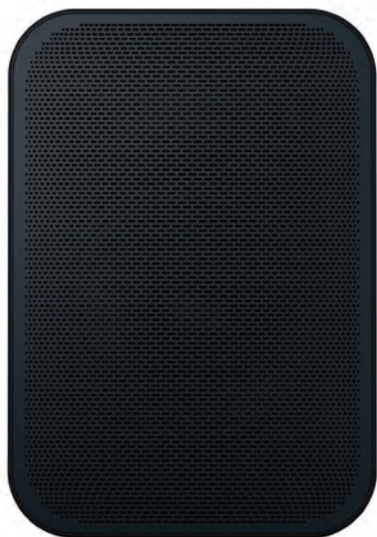
The commercial 8-channel amplifier shall be the Bluesound Professional A860.



## SPECIFICATIONS

<b>CONTINUOUS OUTPUT POWER</b>		<b>SIGNAL/NOISE RATIO, A-WEIGHTED</b>	>80dB (ref. 1W/8 Ohms) >100dB (ref. 50W)
<b>8 Ohms</b>	8 x 50W (ref. rated THD, 20Hz-20kHz, all channels driven)	<b>MINIMUM INPUT SIGNAL TO TRIGGER (AUTO SENSE MODE)</b>	>20mV 10 minutes
<b>4 Ohms</b>	8 x 60W	<b>TIME TO AUTOMATIC STANDBY (WITHOUT SIGNAL AT INPUT SENSE MODE)</b>	
<b>8 Ohms BRIDGE MODE</b>	120W	<b>RATED POWER</b>	600W (120V 60Hz, 230V 50Hz)
<b>RATED THD (250mW TO RATED POWER, CCIF IMD, DIM 100)</b>	<0.03% (ref. 20Hz-20kHz)	<b>IDLE POWER</b>	<26W
<b>CLIPPING POWER</b>	>155W (ref. 1kHz, 8 Ohms, 0.1% THD)	<b>STANDBY POWER</b>	<0.5W
<b>DAMPING FACTOR</b>	>150 (ref. 8 Ohms, 50Hz and 1kHz)	<b>INPUT SENSITIVITY</b>	1.1V (ref. rated power)
<b>INPUT SENSITIVITY</b>	1.1V (ref. rated power)	<b>VOLTAGE GAIN</b>	33dB
<b>VOLTAGE GAIN</b>	33dB	<b>FREQUENCY RESPONSE</b>	20Hz-20kHz ±1dB
<b>FREQUENCY RESPONSE</b>	20Hz-20kHz ±1dB	<b>DIMENSIONS (W x H x D)</b>	483 x 105 x 323mm (19 x 4 2/16 x 12 11/16")
		<b>NET WEIGHT</b>	5.7kg (12.6lbs)
		<b>SHIPPING WEIGHT</b>	7.1kg (15.7lbs)

## **BSP125** **NETWORK STREAMING SPEAKER**



The Bluesound Professional BSP125 is a network active loudspeaker with integrated streaming capability designed specifically for use in commercial installations. The player in the BSP125 is based on the established BluOS platform and is capable of playing and distributing content from local network storage as well as from a large number of streaming services, including some specifically designed for commercial use, such as SoundMachine. As well as stand-alone use, it is possible to use a pair of BSP125 speakers in stereo configuration. Use of the BSP125 in a larger BluOS system is also possible, allowing for grouping into user-definable groups of whatever size is required with other BSP125 units and/or any other connected Bluesound Professional players on the network in an installation.

The loudspeaker features a 3.5" LF driver and a 1" HF driver powered by a 25W high efficiency amplifier including a low power standby mode. The frequency response of the speaker is 45Hz-20kHz and the THD+N of the system is 0.003% at full rated power. Built-in DSP allows for equalization as well as other audio processing. Access to content is via ethernet for glitch-free streaming (with WiFi streaming also supported) and a local analog and digital input allows for replay from local sources. A USB input further adds to the capability of the system by providing replay of files stored on connected drives.

Control of the speaker can be accomplished by any Windows/Mac computer as well as any iOS/Android phone or tablet and the Bluesound Professional CP100W wall mount controller. Third party control is also possible with any of the leading systems. Security provisions prevent any unauthorized control of the system.

An optional bracket allows for wall mounting with 40 degrees of swivel and 360 degrees of rotation possible.

## FEATURES

- Full-range network streaming speaker system
- 3.5" LF driver and 1" HF driver
- 45Hz – 20kHz frequency range
- 0.003% THD+N at full rated power
- DSP providing equalization and other audio processing
- 2 x BSP125's can pair in stereo configuration
- Flexible and unlimited grouping of zones within a BluOS system
- Integration with local network content storage
- Integration with many streaming services including Spotify, Tidal, Qobuz etc.
- Integration with a wide variety of internet radio platforms
- PC/Mac, iOS/Android and third-party control
- Security preventing unauthorized control
- Specialist Bluesound Professional control panels
- Support of Hi-Res audio up to 192kHz/24 bit
- Support of MQA content
- Streaming via ethernet for increased reliability (wireless streaming also supported)
- Local analog and digital line inputs
- USB input for replay from local connected drives
- Wall mounting with accessory bracket

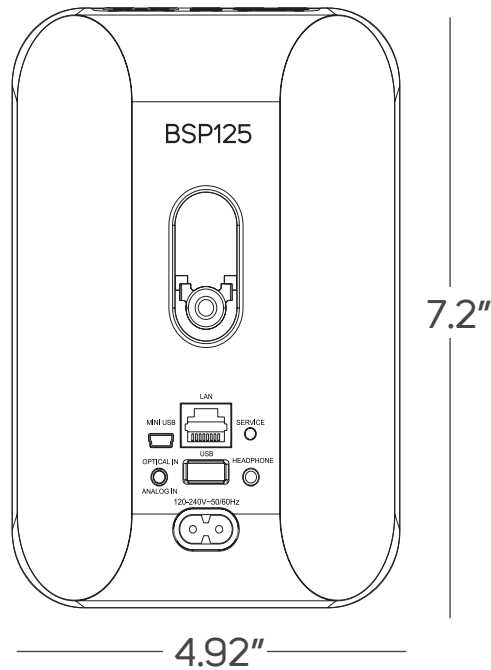
## ARCHITECTS & ENGINEERS SPECIFICATION

The network streaming speaker shall allow for the playing of material from network attached drives and a wide variety of streaming services including Spotify, Tidal, Qobuz and SoundMachine as well as internet radio platforms such as TuneIn and iHeart Radio. The network speaker shall support files up to 192kHz and 24-bit resolution as well as MQA encoded files. Control of the unit shall be possible from PC or Mac computers, Android and iOS mobile devices and third-party control systems. In addition, there shall be the provision for the connection of dedicated wall mount remote control panels to allow for local control of zones. The network speaker shall be based on the BluOS platform and shall be compatible with other BluOS devices to form a complete and integrated ecosystem including flexible grouping and control of zones. Networked speakers shall also be able to be paired in stereo combinations.

The network streaming speaker shall have a 3.5" woofer and 1" tweeter. The power amplifier shall be a high efficiency 25W unit with built-in DSP for equalization and other audio processing. Streaming shall be via wired ethernet for increased reliability (with wireless streaming also supported when required). A local analog and digital line level input shall also be provided. A USB input shall provide replay of files stored on connected drives. The unit shall have no controls to prevent unauthorized adjustment and control of the unit shall incorporate security to prevent unauthorized access via other devices.

Wall mounting of the network speaker shall also be possible with optional bracket, allowing for 40° swivel and 360° rotation of the speaker.

The network streaming speaker shall be the Bluesound Professional BSP125.



## SPECIFICATIONS

## CONNECTIVITY

<b>AUDIO</b>		<b>NETWORK</b>	Gigabit Ethernet RJ45 Wi-Fi 5 (802.11ac, dual-band)
<b>SUPPORTED FILE FORMATS</b>	MP3, AAC, WMA, OGG, WMA-L, ALAC, OPUS	<b>USB</b>	1 x Type-A port for connection to USB memory sticks (Fat32 or NTFS formatted) and supported peripherals 1 x Type-B (mini) for product servicing
<b>HI-RES FORMATS</b>	FLAC, MQA, WAV, AIFF	<b>AUDIO INPUT</b>	Combo - Toslink/3.5mm
<b>NATIVE SAMPLING RATES</b>	32 - 192kHz	<b>POWER</b>	Universal bi-pin AC Cord input (100 - 240AC)
<b>BIT DEPTHS</b>	16 - 24	<b>USER INTERFACE</b>	
<b>PERFORMANCE</b>		<b>MOBILE OPERATING SYSTEM</b>	BluOS - Free Android and iOS App Available Online at Google Play and Apple App Store
<b>FREQUENCY RESPONSE</b>	-10db 45Hz-20kHz	<b>GENERAL</b>	
<b>DISTORTION</b>	THD+N - 0.030% (20hz-20kHz at Rated Power)	<b>PROCESSOR</b>	ARM® CORTEX™ A9, 1 GHz
<b>POWER OUTPUT</b>	25 Watts total system power at 0.030% THD	<b>UNIT WEIGHT</b>	1.23kg / 2.7lb
<b>SPEAKERS</b>	1 x 3.5" (89mm), Woofer 1 x 1" (25mm), Tweeter	<b>GROSS DIMENSIONS</b>	125 x 183 x 100
<b>SUPPORTED OPERATING SYSTEMS</b>	Plays music from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista 7-10, Apple Macintosh 7-10	<b>POWER CONSUMPTION (Idle)</b>	14 Watts
<b>FREE INTERNET RADIO</b>	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveXLive	<b>STORAGE ENVIRONMENT</b>	-10° C to 50° C, 20% to 80% relative humidity
<b>SUPPORTED CLOUD SERVICES</b>	Spotify, Amazon Music, TIDAL, Deezer, Qobuz, HighResAudio, Murfie, Napster, KKBox, Bugs, Taihe Music ZONE, SoundMachine	<b>OPERATING ENVIRONMENT</b>	0° to 40° C
<b>INTEGRATION PARTNERS</b>	Control4, RTI, Crestron, URC, push, iPort, ELAN, Lutron, roon	<b>FINISH</b>	Available in white or black matte
<b>ALBUM ART</b>	JPG		



## **BSP500** **NETWORK STREAMING SPEAKER**

Available middle of 2020



The Bluesound Professional BSP500 is a network active loudspeaker with integrated streaming capability designed specifically for use in either indoor or outdoor commercial installations. This unit is powered by Power over Ethernet (PoE) allowing a one-wire connection to the speaker for both power and audio. The player in the BSP500 is based on the established BluOS platform and is capable of playing and distributing content from local network storage as well as from a large number of streaming services, including some specifically designed for commercial use, such as SoundMachine and internet radio stations. As well as stand-alone use, it is possible to use a pair of BSP500 speakers in stereo configuration and multiple BSP500's in a room in either mono or stereo configurations. Use of the BSP500 in a larger BluOS system is also possible, allowing for grouping into user-definable groups of whatever size is required with other BSP500 units and/or any other connected Bluesound Professional players, amplified players or network speakers on the network in an installation.

The loudspeaker features a 5.25" LF driver and a 1" HF driver powered by a high efficiency amplifier including a low power standby mode. The frequency response of the speaker is 63Hz-23kHz and the THD+N of the system is 0.095% at full rated power. Access to content and power is via wired ethernet for glitch-free streaming. High efficiency electronics and drive units provide a maximum SPL of 100dB (using type 3 PoE).

Control of the speaker can be accomplished by any Windows/Mac computer as well as any iOS/Android phone or tablets and the Bluesound Professional CP100 wall mount controller. Third party control is also possible with any of the leading systems. Security provisions prevent any un-authorized control of the system.

An integral bracket allows for wall mounting with 90 degrees of swivel and 170 degrees of rotation possible. IP56 rating allows for either indoor or outdoor use.

## FEATURES

- Full-range network streaming speaker system
- 5.25" LF driver and 1" HF driver
- Power over Ethernet (PoE+, type 3 PoE) powering to allow single wired connection for both power and signal
- Indoor or outdoor use (IP56\* rating)
- 63Hz-23kHz frequency range
- 0.095% THD+N at full rated power
- Maximum SPL of 100dB (using type 3 PoE)
- 2 or more BSP500's can pair in stereo or multiple mono configuration
- Flexible and unlimited grouping of zones within a BluOS system
- Integration with local network content storage
- Integration with many streaming services including Spotify, Tidal, Qobuz etc.
- Integration with a wide variety of internet radio platforms
- PC/Mac, iOS/Android and third-party control
- Security preventing unauthorized control
- Specialist Bluesound Professional control panels
- Support of Hi-Res audio up to 192kHz/24 bit
- Support of MQA content
- Streaming via ethernet for increased reliability
- Wall mounting with integral bracket

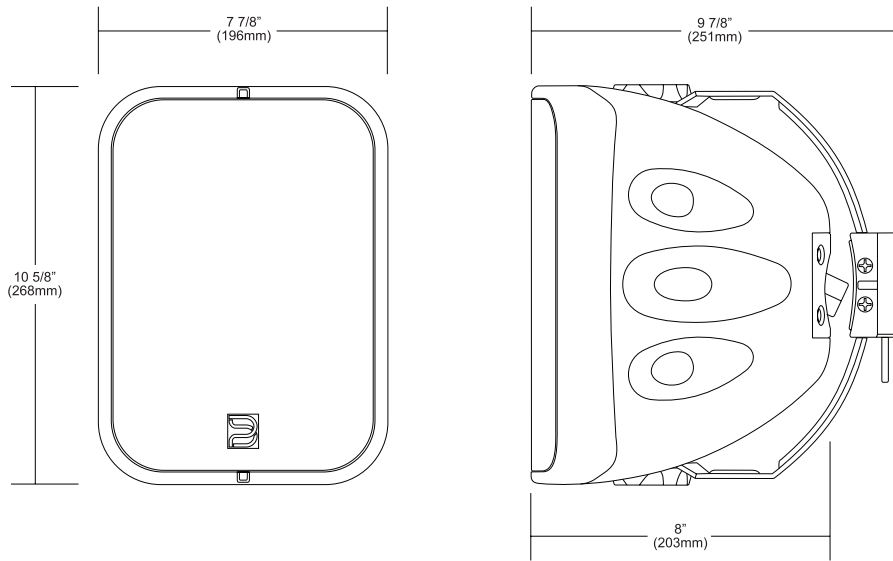
## ARCHITECTS & ENGINEERS SPECIFICATION

The network streaming speaker shall allow for the playing of material from network attached drives and a wide variety of streaming services including Spotify, Tidal, Qobuz and SoundMachine as well as internet radio platforms such as TuneIn and iHeart Radio. The network speaker shall support files up to 192kHz and 24-bit resolution as well as MQA encoded files. Control of the unit shall be possible from PC or Mac computers, Android and iOS mobile devices and third-party control systems. In addition, there shall be the provision for the connection of dedicated wall mount remote control panels to allow for local control of zones. The network speaker shall be based on the BluOS platform and shall be compatible with other BluOS devices to form a complete and integrated ecosystem including flexible grouping and control of zones. Networked speakers shall also be able to be paired in stereo or multiple mono combinations.

The network streaming speaker shall have a 5.25" woofer and 1" tweeter. The power amplifier shall be a high efficiency unit with a maximum SPL of 100dB (using type 4 PoE). Streaming shall be via wired ethernet for increased reliability. The unit shall have no controls to prevent unauthorized adjustment and control of the unit shall incorporate security to prevent unauthorized access via other devices.

Wall mounting of the network speaker shall also be possible with integral bracket, allowing for 90° swivel and 170° rotation of the speaker.

The network streaming speaker shall be the Bluesound Professional BSP500.



## SPECIFICATIONS

## CONNECTIVITY

<b>AUDIO</b>		<b>Network</b>	
<b>Supported File Formats</b>	MP3, AAC, WMA, OGG, WMA-L, ALAC, OPUS	<b>Network</b>	Gigabit Ethernet RJ45
<b>Hi-Res formats</b>	FLAC, MQA, WAV, AIFF	<b>USB</b>	1 x Type-A port for connection to USB memory sticks (Fat32 or NTFS formatted) and supported peripherals 1 x Type-B (mini) for product servicing
<b>Native Sampling Rates</b>	32 - 192kHz	<b>Power</b>	PoE+ IEEE 802.3at Type 2 (30W) PoE++ IEEE 802.3bt Type 3 (60W)
<b>Bit Depths</b>	16 - 24	<b>USER INTERFACE</b>	
<b>PERFORMANCE</b>		<b>Mobile Operating System</b>	BluOS - Free Android and iOS App Available Online at Google Play and Apple App Store
<b>Frequency Response</b>	63Hz-23kHz	<b>GENERAL</b>	
<b>Distortion</b>	THD+N - 0.095% (20hz-20khz at Rated Power)	<b>Processor</b>	ARM® CORTEX™ A9, 1GHz
<b>Power Output</b>	20w audio output with PoE+ and 97db SPL 40w audio output with PoE++ and 100 db SPL	<b>Unit Weight</b>	3.2kg / 7.06 lbs
<b>Speakers</b>	1 x 5.25" (133mm), Woofer 1 x 1" (25mm), Tweeter	<b>Gross Dimensions</b>	7 7/8" x 10 5/8" x 9 7/8 inches / 196 x 268 x 251mm
<b>Supported Operating Systems</b>	Plays music from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista 7-10, Apple Macintosh 7-10	<b>Power Consumption (Idle)</b>	3.3 Watts
<b>Free Internet Radio</b>	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveXLive	<b>Storage Environment</b>	-10° C to 50° C, 20% to 80% relative humidity
<b>Supported Cloud Services</b>	Spotify, Amazon Music, TIDAL, Deezer, Qobuz, HighResAudio, Murfie, Napster, KKBox, Bugs, Taihe, Custom Channels, Music ZONE, SoundMachine	<b>Operating Environment Indoor/Outdoor</b>	0° to 40° C IP56 rating
<b>Integration Partners</b>	Control4, RTI, Crestron, URC, push, iPort, ELAN, Lutron, roon	<b>Finish</b>	Available in white or black matte
<b>Album Art</b>	JPG		

## **BSP1000** **NETWORK STREAMING SPEAKER**

Available middle of 2020



The Bluesound Professional BSP1000 is a network active loudspeaker with integrated streaming capability designed specifically for use in either indoor or outdoor commercial installations. This unit is powered by Power over Ethernet (PoE) allowing a one-wire connection to the speaker for both power and audio. The player in the BSP1000 is based on the established BluOS platform and is capable of playing and distributing content from local network storage as well as from a large number of streaming services, including some specifically designed for commercial use, such as SoundMachine and internet radio stations. As well as stand-alone use, it is possible to use a pair of BSP1000 speakers in stereo configuration and multiple BSP1000's in a room in either mono or stereo configurations. Use of the BSP1000 in a larger BluOS system is also possible, allowing for grouping into user-definable groups of whatever size is required with other BSP1000 units and/or any other connected Bluesound Professional players, amplified players or network speakers on the network in an installation.

The loudspeaker features a 6.5" LF driver and a 1" HF driver powered by a high efficiency amplifier including a low power standby mode. The LF driver is port loaded with a provided port plug for outdoor use. The frequency response of the speaker is 45Hz-23kHz and the THD+N of the system is 0.095% at full rated power. Access to content and power is via wired ethernet for glitch-free streaming. High efficiency electronics and drive units provide a maximum SPL of 100dB (using type 3 PoE).

Control of the speaker can be accomplished by any Windows/Mac computer as well as any iOS/Android phone or tablets and the Bluesound Professional CP100 wall mount controller. Third party control is also possible with any of the leading systems. Security provisions prevent any unauthorized control of the system.

An integral bracket allows for wall mounting with 90 degrees of swivel and 170 degrees of rotation possible. IP56\* rating allows for either indoor or outdoor use.

## FEATURES

- Full-range network streaming speaker system
- 6.5" LF driver and 1" HF driver
- Bass reflex loading with provided port plug for outdoor use
- Power over Ethernet (PoE+, type 3 PoE) powering to allow single wired connection for both power and signal
- Indoor or outdoor use (IP56\* rating)
- 45Hz-23kHz frequency range
- 0.095% THD+N at full rated power
- maximum SPL of 100dB (using type 4 PoE)
- 2 or more BSP1000's can pair in stereo or multiple mono configuration
- Flexible and unlimited grouping of zones within a BluOS system
- Integration with local network content storage
- Integration with many streaming services including Spotify, Tidal, Qobuz etc.
- Integration with a wide variety of internet radio platforms
- PC/Mac, iOS/Android and third-party control
- Security preventing unauthorized control
- Specialist Bluesound Professional control panels
- Support of Hi-Res audio up to 192kHz/24 bit
- Support of MQA content
- Streaming via ethernet for increased reliability
- Wall mounting with integral bracket
- Multiple CP100's can be used in one zone

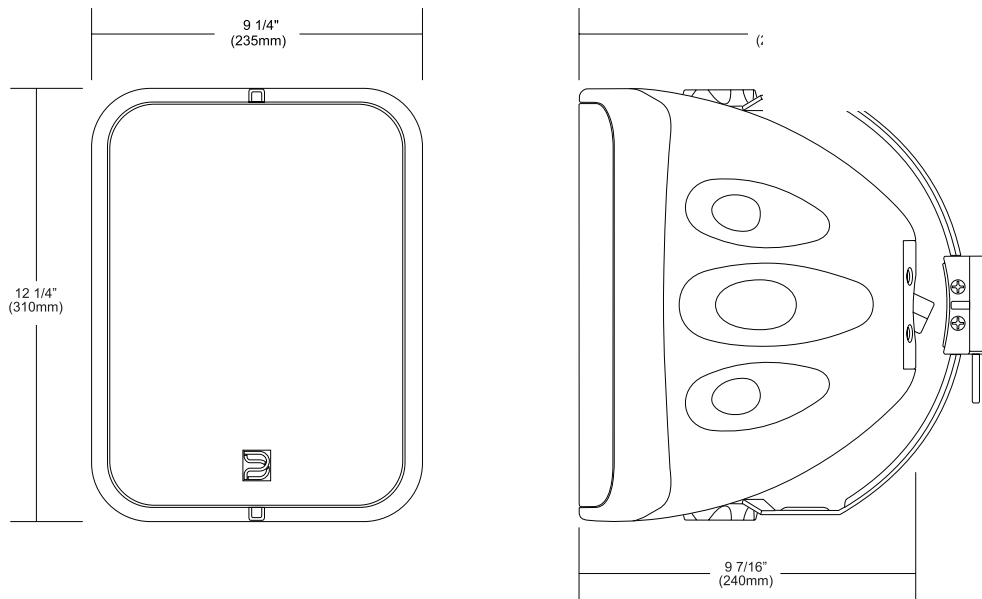
## ARCHITECTS & ENGINEERS SPECIFICATION

The network streaming speaker shall allow for the playing of material from network attached drives and a wide variety of streaming services including Spotify, Tidal, Qobuz and SoundMachine as well as internet radio platforms such as TuneIn and iHeart Radio. The network speaker shall support files up to 192kHz and 24-bit resolution as well as MQA encoded files. Control of the unit shall be possible from PC or Mac computers, Android and iOS mobile devices and third-party control systems. In addition, there shall be the provision for the connection of dedicated wall mount remote control panels to allow for local control of zones. The network speaker shall be based on the BluOS platform and shall be compatible with other BluOS devices to form a complete and integrated ecosystem including flexible grouping and control of zones. Networked speakers shall also be able to be paired in stereo or multiple mono combinations.

The network streaming speaker shall have a 6.5" woofer and 1" tweeter with bass reflex loading and provided port plug for outdoor use. The power amplifier shall be a high efficiency unit with a maximum SPL of 100dB (using type 3 PoE). Streaming shall be via wired ethernet for increased reliability. The unit shall have no controls to prevent unauthorized adjustment and control of the unit shall incorporate security to prevent unauthorized access via other devices.

Wall mounting of the network speaker shall also be possible with integral bracket, allowing for 90° swivel and 170° rotation of the speaker.

The network streaming speaker shall be the Bluesound Professional BSP1000.



## SPECIFICATIONS

## CONNECTIVITY

<b>AUDIO</b>		<b>Network</b>	
<b>Supported File Formats</b>	MP3, AAC, WMA, OGG, WMA-L, ALAC, OPUS		Gigabit Ethernet RJ45
<b>Hi-Res formats</b>	FLAC, MQA, WAV, AIFF	<b>USB</b>	1 x Type-A port for connection to USB memory sticks (Fat32 or NTFS formatted) and supported peripherals 1 x Type-B (mini) for product servicing
<b>Native Sampling Rates</b>	32 - 192kHz	<b>Power</b>	PoE+ IEEE 802.3at Type 2 (30W) PoE++ IEEE 802.3bt Type 3 (60W)
<b>Bit Depths</b>	16 - 24	<b>USER INTERFACE</b>	
<b>PERFORMANCE</b>		<b>Mobile Operating System</b>	BluOS - Free Android and iOS App Available Online at Google Play and Apple App Store
<b>Frequency Response</b>	45Hz-23kHz	<b>GENERAL</b>	
<b>Distortion</b>	THD+N - 0.095% (20hz-20khz at Rated Power)	<b>Processor</b>	ARM® CORTEX™ A9, 1 GHz
<b>Power Output</b>	20w audio output with PoE+ and 97db SPL 40w audio output with PoE++ and 100 db SPL	<b>Unit Weight</b>	4.56kg / 10.05 lbs
<b>Speakers</b>	1 x 6.5" (165mm), Woofer 1 x 1" (25mm), Tweeter	<b>Gross Dimensions</b>	9 1/4" x 12 1/4 x 11.3/4 inches / 235 x 310 x 296mm
<b>Supported Operating Systems</b>	Plays music from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista 7-10, Apple Macintosh 7-10	<b>Power Consumption (Idle)</b>	3.3 Watts
<b>Free Internet Radio</b>	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveXLive	<b>Storage Environment</b>	-10° C to 50° C, 20% to 80% relative humidity
<b>Supported Cloud Services</b>	Spotify, Amazon Music, TIDAL, Deezer, Qobuz, HighResAudio, Murfie, Napster, KKBox, Bugs, Taihe, Custom Channels, Music ZONE, SoundMachine	<b>Operating Environment Indoor/Outdoor</b>	0° to 40° C IP56* rating
<b>Integration Partners</b>	Control4, RTI, Crestron, URC, push, iPort, ELAN, Lutron, roon	<b>Finish</b>	Available in white or black matte
<b>Album Art</b>	JPG		

\*With Port Plug Installed

## CP100 WALL-MOUNT CONTROL PANEL



The Bluesound Professional CP100 is a low profile wall-mount control panel for all Bluesound Professional players. It features sleek design with a glass control panel with illuminated touch sensitive controls. It is possible to recall presets, pause music/mute and adjust volume in the zone that the panel is controlling. The CP100 is designed to fit flush to the wall or mounted in a large variety of international back-boxes for ease of installation. The control panel controls illuminate as needed, controlled by a proximity sensor and the control can be locked to protect against unintended or unauthorized use.

The CP100 is powered by PoE and sits on any BluOS network with easy connection through RJ45. Back panel allows for pre-mounting with front clicked in afterwards. Multiple CP100s can be utilized in a zone.

### FEATURES

- Sleek, low-profile design
- Illuminated controls for ease of use in any environment
- Glass surface to allow for easy cleaning
- Control of volume and play/pause/mute
- Recall of 5 programmable presets
- RJ45 connection and PoE powering for ease of installation
- Compatible with wide variety of international lighting/electrical back-boxes

## ARCHITECTS & ENGINEERS SPECIFICATION

The control panel for the music system shall be wall-mounted with a low profile. It shall feature illuminated controls for ease of use in all lighting environments and these controls shall illuminate upon proximity of user. Controlled functionality shall include play, pause/mute and volume control. The control panel shall also be capable of recalling 5 programmable presets for different content. The glass surface of the control panel shall be easily cleanable. Connection to the panel shall be via RJ45 and the panel shall be powered by PoE. The control panel shall be wall-mounted and shall be capable of being installed over a wide variety of international back-boxes for lighting and electrical controls.

The control panel shall be the Bluesound Professional CP100.

## SPECIFICATIONS

RoHS Compliant

Up to 8 button capacity 5 presets, play/pause, volume up/down

All buttons to be lit

Wall mount should be quickly detachable from wall bracket

DIMENSIONS (W x L x D) 13.5 x 13.5 x 2.25cm (5.3 x 5.3 x 0.88")

NET WEIGHT 0.25KG (0.55 LBS)



## RM100 RACKMOUNT SYSTEM



The Bluesound Professional RM100 is a rackmount system allowing up to 3 x B100S network streaming players to be mounted in a 1U space in a 19" rack. The B100S modules slot in from the front and are secured by a rear panel screw, allowing for swift replacement when required. B100S units are supported with a full chassis.

### FEATURES

- 3U rackmount system for B100S network streaming players
- Can accommodate up to 3 x B100S in 1U rack space
- B100S units mounted from front with full chassis tray support
- Blanking panels available for unused slots

### ARCHITECTS & ENGINEERS SPECIFICATION

The rackmount system for the network streaming players shall be a 1U unit capable of accommodating up to 3 network streaming players. Blanking plates shall be available for unused slots. Shall be mounted from the front.

The rackmount system shall be the Bluesound Professional RM100.

## RM160 RACKMOUNT SYSTEM



The Bluesound Professional RM160 is a rackmount system allowing up to 6 x B160S network streaming stereo amplifiers to be mounted in a 3U space in a 19" rack. The B160 modules slot in from the front and are secured by a front panel screw, allowing for swift replacement when required. B160S units are supported front and back.

### FEATURES

- 3U rackmount system for B160S network streaming stereo amplifiers
- Can accommodate up to 6 x B160S in 3U rack space
- B160S units mounted from front with front and rear support
- Blanking panels available for unused slots

### ARCHITECTS & ENGINEERS SPECIFICATION

The rackmount system for the network streaming stereo amplifiers shall be a 3U unit capable of accommodating up to 6 network streaming stereo amplifiers. Blanking plates shall be available for unused slots. Support for units shall be provided front and back and units shall be mounted from the front.

The rackmount system shall be the Bluesound Professional RM160.



## CONTACT US

Bluesound Professional is a fusion of hardware and software that is purpose-built for high-performance networked audio for retail shops, bars, restaurants, hotels, gyms, and other commercial applications.

**Phone :** (905) 831-6333

**inquiry :** <https://www.bluesoundprofessional.com/contact-us/>

**Location :** 633 Granite Court, Pickering, Ontario Canada, L1W 3K1



BLUESOUND  
PROFESSIONAL

# Bluesound Professional Cazoo Case Study

Centralized Control Through Multiple  
Locations All Over the UK

## ➔ Introduction

Cazoo, the UK's leading online car retailer makes buying or selling a car as simple and seamless as ordering any other product online.

Cazoo then delivers the car directly to their door, or the customer can pick it up directly from one of Cazoo's many Customer Centres. Cazoo owns and fully reconditions all its cars before offering them on its website for either delivery or collection in as little as 72 hours and has thousands of cars available at any time. It's a customer-first experience built around a simple premise: why can't ordering a car be as simple and seamless as any other purchase you make online?

With a growing number of high profile sports sponsorships, brand awareness is growing fast. Cazoo customers expect a premium retail experience.

Cazoo launched its first Customer Centre in 2020 and currently has 19 dotted around the UK. Each one provides Cazoo customers with the option to collect cars they purchase or drop off cars they sell online in addition to its home delivery and pick up service.

The challenge was to create an environment where sound would enhance the ambiance of every Customer Centre, with uniform controllability and compliance with the legal requirements of the PRS music licence. Oh, it also had to sound great too!

## Summary

- Location**  
 Cazoo Customer Centres, where car buyers come to browse online, as well as collect and part exchange their vehicles.
- Goal**  
 To create a relaxing, pleasant ambiance for consumers, with music streamed legally from the cloud to all locations uniformly.
- Equipment Used**  
 Bluesound Professional **B400S** 4-zone network music player, and **CP100** Wall Mount control panel.
- Outcome**  
 The installation by Nucleus AV surpassed Cazoo's initial expectations, not only delivering an elegance and versatile multi-site streaming music solution, but offering additional levels of staff control to enhance enjoyment of the system at a local level.
- Box Out**  
 Bluesound Professional products are sub-distributed by OneAV. A full portfolio of professional audio systems is available from network active speakers with integrated streaming, to multi zone music streamers and amplifiers.



## ➔ The Solution

With a number of Cazoo Customer Centres to kit out, a robust, versatile audio solution was essential. London-based integrator Nucleus AV turned to Bluesound Professional for a scalable audio solution that ticked every box.

The installation team worked closely with Cazoo to create a bespoke system that was both practical (in some locations, Nucleus AV would be retrofitting existing loudspeakers and amplifiers) and future-proof.

Not only did Bluesound Professional offer both Cazoo and Nucleus AV the fully integrated solution they were looking for, it also ensured straightforward installation and post-installation support.

A Bluesound Professional network music ecosystem can be operated remotely via a VPN. It's not prone to local variations in source or tone; it's also safe from well-meaning employees who might select their own playlists.

While consumer music streaming services are freely available, they aren't free to use in a commercial environment - like a Customer Centre. PRS for Music, founded in the thirties to provide musicians with appropriate royalties, has the power to fine companies which flout copyright rules.

As it happens, there are four commercial streaming services built natively into BluOS that comply with all PRS requirements. Music to any commercial installer's ears.



## ➔ Technology

Nucleus AV, working with Bluesound Professional sub-distributor OneAV, outfitted each Cazoo Customer Centre with a single Bluesound Professional [B400S](#) 4-zone network music player. This robust commercial grade network player, designed for rack-mounting, has native commercial music service support built-in, allowing all content curation and provision to be handled from the cloud.

[SoundMachine](#), one of several music streaming services on the BluOS platform, was selected for the job.

A single B400S can send the same content to four zones, or be configured as four independent players. For this project, only a single zone was used, but the company was keen to future proof its system.

“Cazoo wanted players that were built for a commercial environment, and would fit with future expansion plans,” says Bluesound Professional Product Manager, Graeme Harrison.

They liked [SoundMachine](#) because it not only provides streams of commercially licenced content, but offers messaging capabilities with advanced scheduling, he adds.

“The [B400S](#) also offers the freedom to select a different commercial streaming service if that’s ever required. Users can simply log out of one and log on to another.”

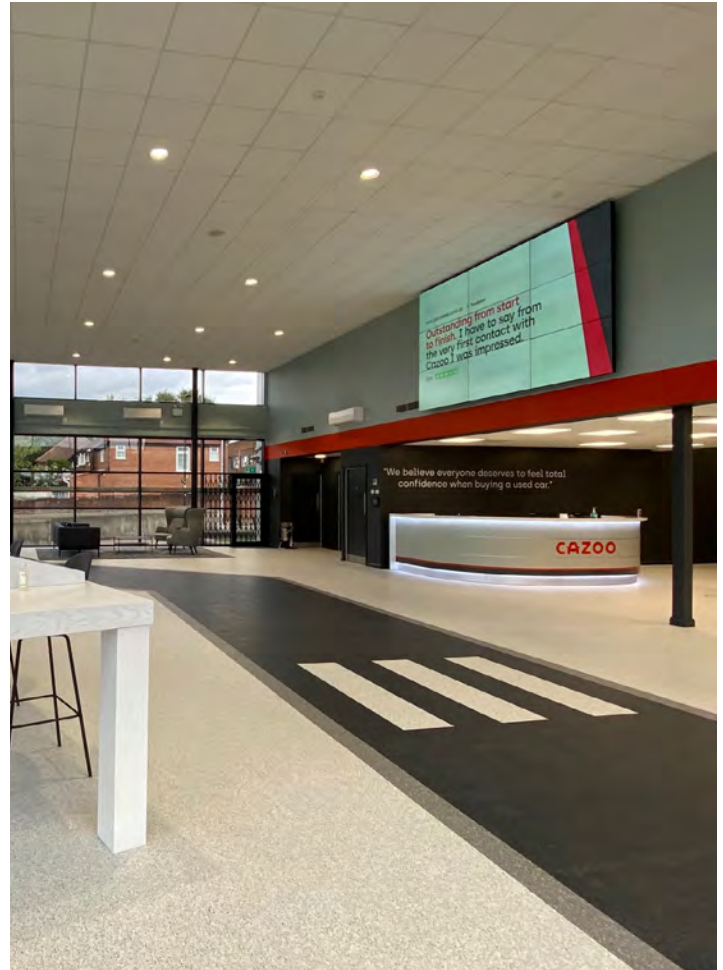
“It was always Cazoo’s intention to control all of their branches from head office, meaning branches had no system control. They figured they’d have to write specific software, but we were able to help them with a utility that allows them to control devices across subnets,” explains Harrison.

“No need for proprietary software development was another huge plus for them.”

But while the original plan was to manage the network from a central location, sporadic network issues led the Nucleus team to trial a [CP 100](#) wall mount control at one location. With illuminated touch sensitive controls and intuitive interface, employees on the ground could alter overall volume and quickly reconnect to the [SoundMachine](#) stream if a connection was lost.

During the festive season, the [CP 100](#) also gave staff the ability to select a Christmas-themed stream, perfect for the customer ambiance Cazoo was trying to create.

Cazoo liked the additional functionality so much, it quickly rolled-out [CP 100](#) wall mount control to all locations.



## ➔ Conclusion

Next-gen car retailer Cazoo needed a versatile audio solution that would enable its growing portfolio of Customer Centres to offer consumers a relaxing, enjoyable environment in which to buy vehicles, without falling foul of PRS regulations or adding the burden of undue complexity on staff.

Bluesound Professional was uniquely placed to deliver this with its [B400S](#) commercial music player featuring the integrated [SoundMachine](#) streaming service. Not only could the [B400S](#) be monitored remotely, it offered scope for future system expansion, and with the addition of [CP 100](#) touch screens (which required only an RJ45 connection with POE), the welcome bonus of local control that satisfied Cazoo staff and management needs.

**CAZOO**

**NUCLEUS**

**oneAV**



BLUESOUND  
PROFESSIONAL

# Bluesound Professional Solar dos Presuntos Case Study

## ➔ Introduction

[Solar Dos Presuntos](#) is a world-class restaurant serving authentic Portuguese cuisine for more than 40 years in the heart of Lisbon, Portugal.

Recognized by famous writers, journalists, footballers, businessmen and architects worldwide, Solar dos Presuntos serves authentic Portuguese dishes with a series of specialities that reflect traditional Minho cuisine. A wealth of photographs and caricatures displayed on their walls reflects the warm reception of their customers after countless years of dedication to their food and service.

Known as one of Lisbon's best restaurants, Solar Dos Presuntos wanted to further their reputative dining experience by creating an auditory soundscape that would reflect the restaurant's authentic Portuguese heritage and maintain a warm, inviting atmosphere for their guests.

To execute this project, A/V integrator [hiDuet](#) looked to Bluesound's multi-zone music streaming solutions. In a relatively tight space with low ceilings, the challenge was to seamlessly integrate Bluesound Professional networked music streamers B400S and B100S with the restaurant's existing speaker configuration to provide music for multiple areas in the restaurant.

## Summary

- Location:**  
 Restaurante Solar dos Presuntos is located in Lisbon, Portugal.
- Goal:**  
 To create zone-specific, musical atmospheres in different areas of the restaurant (lobby, bar, dining room, etc) to enhance its overall dining experience.
- Equipment Used:**  
 1 x [B100S](#) 1-Zone Network Music Player  
 3 x [B400S](#) 4-Zone Network Music Player
- Distributor:**  
 Bluesound Professional's Lisbon distributor [Magnelusa](#) provided the equipment required.
- Outcome:**  
 A/V integrator hiDUET installed Bluesound Professional's B100S and B400S network music players for Solar Dos Presuntos. With a compact form factor and comprehensive features, the B100S and B400S were the best choice of streamers to be retrofit into the restaurant's existing speaker configuration. The streamers integrated well with the combination of in-ceiling and wall-mounted speakers already installed across multiple zones in the restaurant.

## ➔ The Solution

Faced with the challenge to provide a stable stream of audio across multiple zones of the restaurant space, Lisbon-based integrator hiDUET turned to Bluesound Professional's Lisbon distributor Magnelusa to provide technology that would support a centralized, networked music streaming system for Solar Dos Presuntos. With two decades of expertise, the duo behind hiDUET - integrators Carlos Abreu and Carlos Delgado - deliver solid technical knowledge to help their clients select and install products that provide quality, technical reliability and sophisticated aesthetics. Portuguese distributor [Magnelusa](#) was well-positioned for the project with their ability to respond to the specific needs of clients by providing the best audio, video, multimedia and accessories brands. Thanks to the compact form factor of both streamers (1/3U for the B100S and 1U for the B400S), they could easily be mounted on a rack with more room to spare for future added units. With remote control of the music players using the BluOS Controller App, immediate access to commercial music streaming services such as [SoundMachine](#), [Custom Channels](#), [Qsic](#), [SiriusXM Music for Business](#) and [Tunify](#) allowed the restaurant to curate custom, licensed and royalty-free music playlists with ease.



## ➔ Technology

One (1) [B100S](#) and three (3) [B400S](#) streamers were seamlessly mounted on a rack hidden away from the main dining area.



## ➔ Conclusion

Bluesound Professional's high-performance equipment allowed Solar Dos Presuntos to create the strategic dining atmosphere they were looking for with access to legal, licensed music at their fingertips as well as support for multiple zones of stereo network music replay free of distortion or dropouts. The compact form factor of Bluesound Professional's network music players worked to the advantage of the restaurant's available rack space, seamlessly integrated with their existing speaker configuration, and provided the high-quality, multi-zone music needs that Solar Dos Presuntos was looking for, furthering their reputation as one of Lisbon's best restaurants.







BLUESOUND  
PROFESSIONAL

# Bluesound Professional Salty's Diner Case Study

Unique location, application and customer goals, well-suited to Bluesound Professional's strengths

## ⇒ Introduction

Salty's Diner is the latest addition to a popular group of restaurants (not to be confused with a restaurant chain) feeding the coastal community of Kapiti, situated around an hour north of New Zealand's capital.

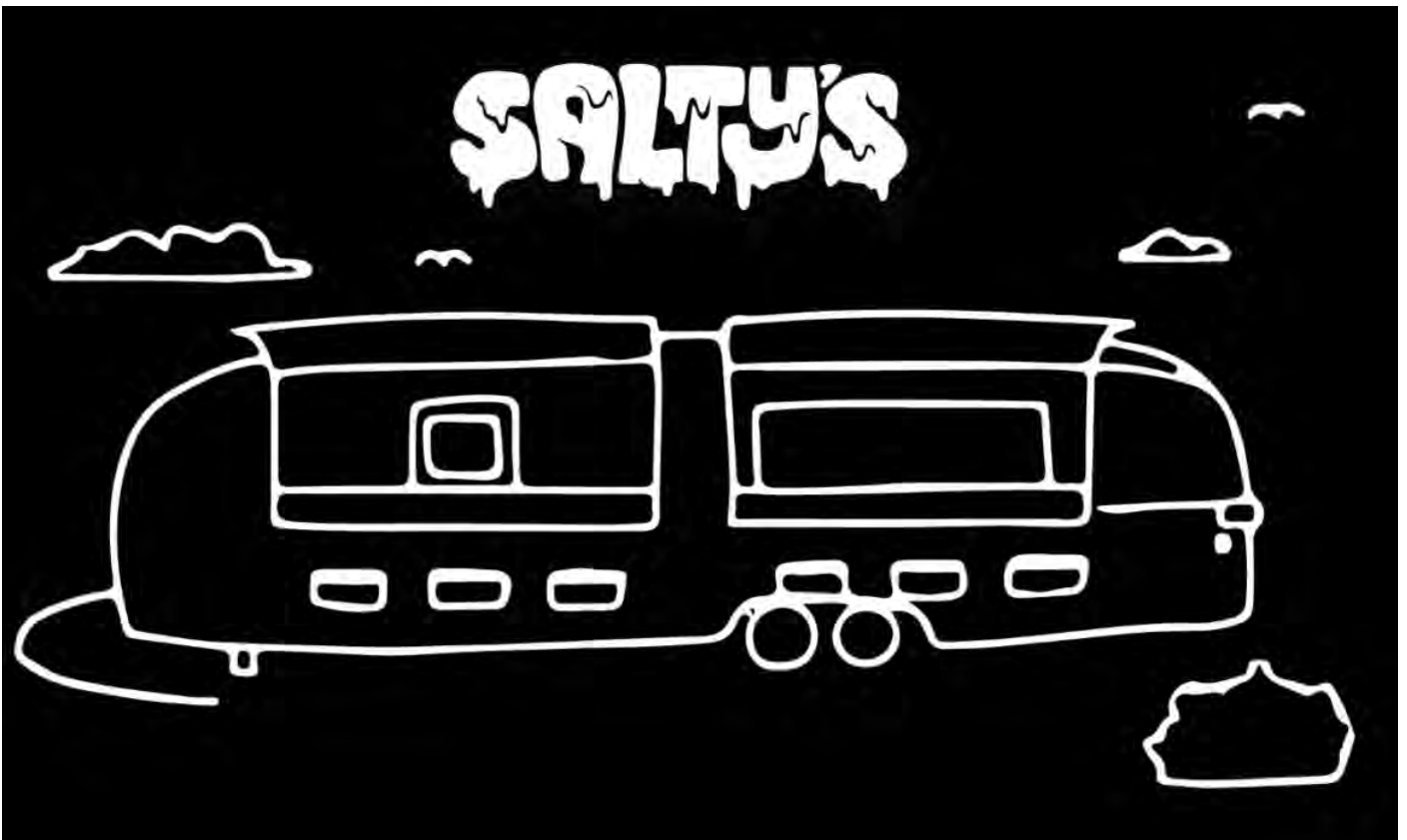
Each of their restaurants has specialist theme, but all are keenly focussed on high quality food and beverage service, along with a relaxing 'chill out' environment. The Music soundscape is a careful consideration for each location and live performances are a regular event.

Their latest restaurant however had more than a few challenges. It was to be a specialist BBQ restaurant and as part of the theme, they wanted service and simple audio control from within a restored Airstream caravan. Additional to this, in their new location, a reinforced concrete-block ex-factory, they had long distances to work with between the services area and speaker locations. Other considerations were the ability for the some speakers to be mounted outside where they would be exposed to the salt air in this coastal location. What was most important to the client was a desire for higher quality sound than traditional 70/100v systems.

Bluesound and their high-performing BSP500/1000 weather-proof speaker range along with simple control, thanks to the CP100 was up for the challenge.

## Summary

- **Location**  
Salty's is a new addition to a handful of restaurants situated around an hour North of Wellington, New Zealand
- **Goal**  
A relaxing environment, with high performance and easy audio control from their restored Airstream caravan
- **Equipment Used**  
Bluesound BSP500, BSP1000 active (PoE++) speakers along with CP100 and PC control App
- **Outcome**  
The first months of operation have exceeded expectations with lines of customers looking to experience their great hospitality and relaxing environment
- **Box Out**  
The full Bluesound Professional product range of streamers, speakers and accessories are Distributed by Connected Media in New Zealand



"It's going to be the kind of spot where you can meet your mates, have a beer, get a really good messy burger, play some pool or relax to some tunes" said Bradley MacKay one of Salty's Business Partners. The challenge was to feed 100's of people a day, while serving and controlling every aspect of their business from inside a restored Airstream Caravan.

## ⇒ The Solution

The main services area where a traditional amplifier would be located was some distance away from the restaurant floor and the caravan, so Bluesound Professionals PoE++ speakers had a real advantage with the length of cable required to each speaker location.

Additional to this, some of the interior speakers are exposed to the sun and an internal garden watering system along with an externally mounted speakers being exposed to the coastal salt air and occasional storm. These issues weren't a concern for the BSP500 and BSP1000, which were configured for each location and fully sealed from the potentially damaging elements.

Compared to previous systems they'd experienced in the hospitality industry, the staff commented that they're "loving how simple the system is to operate". They also take advantage of the BluOS presets with personalised playlists for staff favourites for after-hour activities!



## ⇒ Technology

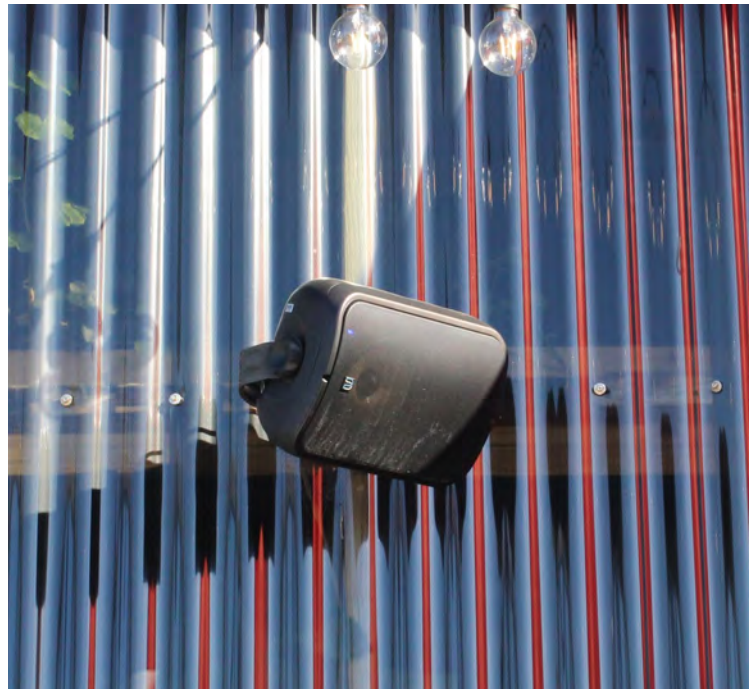
Salty's Diner worked with A/V designers to ensure that speakers were positioned to cover the restaurant floor, including the main dining area, preparation kitchen and an exposed outdoor area.

The layout considerations included areas that were designated for pinball machines, pool tables and quieter booths for comfortable conversation.

A combination of BSP500 and BSP1000 powered speakers were installed and each area calibrated for the desired coverage and level.

The all important simple control is mainly through the Airstream mounted CP100 and the day starts and ends with the simple push of a button.

Secondary control is from a remote office location where the network and security equipment is based. This is done thanks to a PC running Bluesound Professional's Desktop app.



## ⇒ Conclusion

From the outset, the owners of Salty's were keenly aware that post-covid their newest restaurant would need to leverage aspects, other than their local reputation for quality food and beverages.

The additional challenges of the coastal location, the building itself and control from a restored Airstream caravan were also a unique consideration.

Bluesound Professional and their high-performing weather-resistant BSP500 and BSP1000 along with control, thanks to the CP100 was the perfect fit for this challenging space and time.





**BLUESOUND**  
PROFESSIONAL

# Bluesound Professional Szczytno Teutonic Castle Case Study

## ➔ Introduction

The ruins of the Teutonic Castle in Szczytno (Zamek Krzyżacki w Szczytnie) is one of Poland's oldest and most peculiar historical monuments. Dating back to the Middle Ages, the castle was first a watchtower in 1266 and became a wooden castle which burned down during the Lithuanian invasion in 1370. In its place, a teutonic castle was built out of stone and brick. As centuries passed, the castle was a center of economic and social life, but during World War I the city was completely devastated. In 1990-1992, the castle walls were secured in the form of a permanent ruin after several failed attempts at reconstruction. Today, only the outline of the castle stands as a landmark and tourist attraction in Szczytno. The walls of the ground floor of three wings are preserved along with parts of the inner divisions and pillars.

To protect the castle ruins, an extensive restoration project implemented by the Szczytno City Commune began in 2018 and lasted until May 2021. The main goal of the project was to restore the Teutonic Castle into a tourist-friendly site and preserve its cultural heritage. To better educate tourists about the rich history behind the Teutonic Castle in Szczytno, loudspeakers were needed in various locations to provide visitors with complimentary historical narration and music as they explored the ruins. The challenge was that the speakers needed to be situated outdoors, where access to power was limited and the weather conditions would vary. What was most important to the client was that the speakers needed to resist the waivering outdoor climate and be easy for site staff to program and control.

Bluesound Professional's [PoE+ and PoE++ Networked Streaming Speakers](#) BSP500s rated with weatherproof IP65 were the ideal choice of hardware to support the demands of this installation.

## Summary

- Location:**  
The Teutonic Castle ([Zamek Krzyżacki w Szczytnie](#)) is located in Szczytno, a town in the northeastern region of Poland.
- Goal:**  
To provide tourists with historical information through music and recorded narration as they peruse the outdoor ruins of the Teutonic Castle.
- Equipment Used:**  
5 x Bluesound [BSP500](#) active PoE+/PoE++ speakers
- Outcome:**  
A/V integrator Matcom excelled in enhancing the historical experience of the castle with an auditory element by installing Bluesound Professional's BSP500 speakers in the most acoustically ideal locations for this unique indoor-outdoor scenario.
- Box Out**  
Bluesound Professional's Polish distributor Linearic/Akustyk provided the equipment required.



## ➔ The Solution

Polish integrator [Matcom](#) turned to Bluesound Professional's distribution partner [Linearic/Akustyk](#) to provide professional audio coverage for the ruins of the Teutonic Castle. Established in 2001, Matcom specializes in providing Internet access services for individuals and businesses in various cities around Poland. The area that needed coverage spanned about 60x75m, so Bluesound Professional's medium sized BSP500 PoE+/PoE++ networked active loudspeaker was the ideal choice of hardware with only one Cat5e/Cat6 required and a maximum SPL of 100dB (PoE++ setting) for sufficient outdoor levels. Five BSP500s were mounted in total, in two different areas of the site and directed at different angles from above.

The [BSP500](#) was specifically chosen also for its IP65 rating which equipped it with a unique ability to withstand the varying outdoor conditions at the Teutonic Castle site. This ensured that no damage from water, dust, other natural elements would penetrate the speaker.

A unique application of the BSP500's local file storage feature was used for the playback of voice information and music specific to the attraction. Staff on the site complimented the BSP500 speakers for their ease of control thanks to the intuitive [BluOS](#) app.



## ➔ Technology

Four BSP500s were mounted on a truss, about 10ft above ground, with one on each corner to provide narration and music to an area with visual information about the history of the castle. One other BSP500 was mounted near a stone entranceway. All five speakers were installed in exposed outdoor areas, mounted and specifically positioned at angles that would provide consistent audio coverage for the targeted space.

Since the speakers were far from the central areas with AC receptacles, the advantage of only needing a Cat5e/Cat6 cable to power the BSP500 speakers was of great benefit.

The local network content storage feature was used for the playback of files like voice narration and culturally specific music to enhance the historical experience.

To control the speakers, the staff utilized the BluOS platform's PC desktop app as well as the BluOS app for iOS.



## ➔ Conclusion

Bluesound Professional's robust, weatherproof BSP500 PoE+/PoE++ loudspeakers provided the right enhancements needed for the historic Teutonic Castle in Szczytno. The installation demanded speakers that could withstand the exposed outdoor conditions of the site, play back specific audio files and music tailored to the historic experience, be flexible in placement without needing to be close to the central power source, and be powerful enough to be heard in a 60x75m space outdoors. The choice of mounting five BSP500 in two different areas met the demands and exceeded expectations with their weatherproof IP65 ratings, local network content storage, ease of installation, 100dB (PoE++) capability as well as their ease of control using the intuitive BluOS platform. The integrator for this project and the staff at the Teutonic Castle complimented Bluesound Professional for providing the high-performance hardware they needed to meet the demands of this iconic tourist attraction.

