B170S
NETWORKED STREAMING STEREO AMPLIFIER

BLUESOUND PROFESSIONAL



The Bluesound Professional B170S networked streaming stereo amplifier is a complete solution for a commercial music installation. The B170S combines a high-quality stereo amplifier with a BluOS enabled network music player. The B170S's amplifier section provides 2 x 80W of power into 4/8Ω , or 2 x 100W at 70 Volts, or 1x100W at 100 Volts – versatile for most small to large spaces applications and the 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 B170S 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, Tunify, Qsic, Sirius for Business and Custom Channels. As well as stand-alone use, it is possible to use the B170S in a larger BluOS system allowing for grouping into user-definable groups of whatever size is required with other B170S 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 CP100 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 B170S allows it to be mounted individually vertically or horizontally on or under shelves or tables or on walls. Up to six B170S 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 grouped zones.

FEATURES

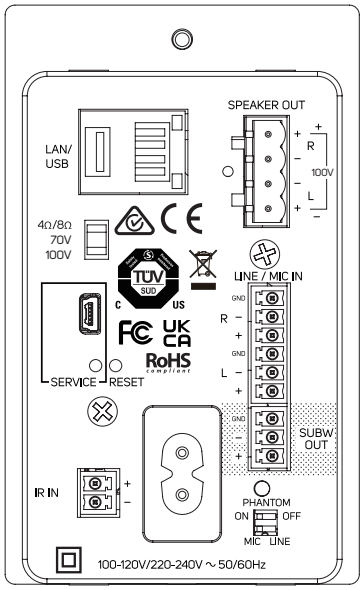
- A complete solution for commercial installations
- Integration with local network content storage
- Integration with many streaming services including SoundMachine, Custom Channels, SiriusXm for Business, Qsic, Tunify and many others
- Integration with a wide variety of internet radio platforms
- PC/Mac, 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 80W (4/8Ω) amplification
    - or 2 x 100W amplification at 70Volts
    - or 1x 100W amplification at 100 Volts
- 6W standby mode
- Flexible mounting options including mounting of 6 x BS170S 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 SoundMachine, Custom Channels, SiriusXm for Business, Qsic, Tunify 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 80W (4/8Ω) or 2x 100 W at 70 Volts or 1x100W at 100 Volts 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 B170S.



SPECIFICATIONS

Supported File Formats	MP3, AAC, WMA, OGG Vorbis, WMA-L, FLAC, ALAC, WAV, AIFF, MQA, HRA
Supported Cloud Services	SoundMachine, Custom Channels, SiriusXm for Business, Qsic, Tunify, TuneIn, Radio.com and many others
Supported Operating Systems	Plays music from network shares on the following desktop operating systems: Microsoft Windows 2000 and newer and Apple Macintosh 7 and newer
Free Internet Radio	TuneIn Radio, iHeartRadio, Calm Radio, Radio Paradise, LiveXLive
Integration Partners	Crestron, Control4, RTI, URC, push, ELAN, Lutron
Rated Power	2 x 80 W of power into 4/8 Ohms, or 2 x 100W at 70 Volts, or 1 x 100W at 100 Volts
Rated Distortion	≤0.005% (20hz-20khz at Rated Power)
Signal-to-Noise Ratio	-110dBA (ref. 1W/8 Ohms)
Sample Rate	32 - 192kHz
Bit Depth	16 – 24
INPUT	
Analog	Balanced Phoenix
USB	Type A (for USB memory stick and supported peripherals – FAT32 formatted) Type B Mini USB (for servicing purposes only)
IR Input	Phoenix

OUTPUT	
Subwoofer OUT	Balanced Phoenix
Speaker OUT	Phoenix Speaker connection block
NETWORK	
Ethernet/LAN	Ethernet RJ45, GigE
User Interface	FREE Android and iOS App available at GooglePlay and Apple App Store
GENERAL SPECIFICATIONS	
AC Power Supply	100-240V 50/60Hz
Standby Power	6W (Network Standby Mode)
Dimensions (W x H x D)	70 x 120 x 350mm 2.81 x 4.75 x 13.81"
Net Weight	1.6kg (3.5lb)
Shipping Weight	2.3kg (5.1lb)

© 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. 21-038 © 03/22 Bluesound.