# BLUESOUND

POWERNODE EDGE

COMPACT WIRELESS MUSIC STREAMING AMPLIFIER
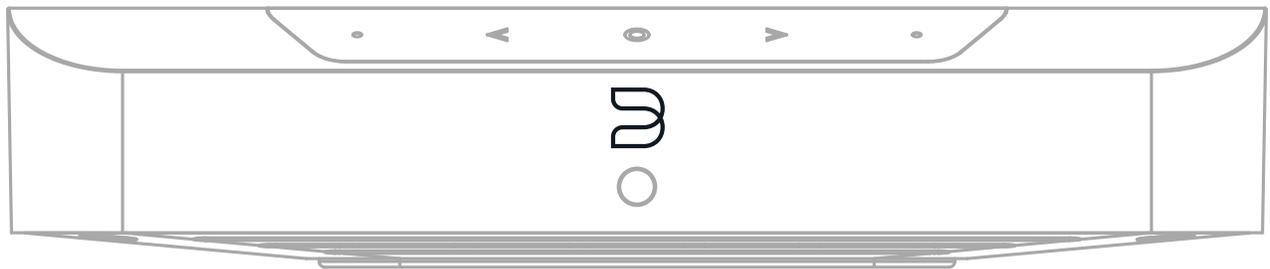
OWNER'S MANUAL

v. N230

WELCOME TO #LIVINGHIFI

Thank you for purchasing your POWERNODE EDGE. It is a compact, versatile network streaming amplifier that conveniently brings the enjoyment of hi-resolution audio to everyday life. Simply add a pair of loudspeakers to create the ultimate two-channel system. Stream your music from dozens of sources, and group with other Bluesound players to create whole-home, multi-room listening experiences.

JUST ADD SPEAKERS. The POWERNODE EDGE combines streaming sources, control, and amplification in one player. All you need to do is connect a pair of passive loudspeakers to experience an incredible all-in-one HiFi solution. Control all your music with the intuitive BluOS Controller app. Play from a personal music library, or even directly from an external USB drive. Easily connect wired sources, like a TV or turntable, with HDMI eARC or the combo analog/digital input. Add the PULSE SUB+ wireless subwoofer for a powerful 2.1 stereo system or even use the POWERNODE EDGE to power the rear channels of a wireless Bluesound surround sound setup.

PACKED WITH POWER. Bring your speakers to life with the powerful, punchy 2 x 40 watts DirectDigital™ amplifier in the POWERNODE EDGE, handling hi-res, 24 bit/192 kHz files and MQA-encoded tracks with ease. Enjoy clarity in playback of everything from densely-layered heavy metal tracks to whisper-quiet dialogue in movies and TV shows.

SLEEK AND VERSATILE. The POWERNODE EDGE is designed with a compact form factor to suit any décor and comes with a multi-orientation wall mounting bracket to hide in closets or behind sofas. Easy to spec and simple to stack, smart home installers will appreciate its 1U rack height and half-rack width, along with an easy-access touch control panel for everyday playback functions and configuration.

This Owner's Manual will provide you with a more detailed overview of your POWERNODE EDGE and its features. It also includes reference to networking best practices. The Quick Setup Guide included with your POWERNODE EDGE will help you get it on the network and ready to play music.

PLEASE NOTE: Internet access is required to stream content from Music Services and update your player. Without internet access, you will not receive the full-featured experience of your POWERNODE EDGE.

If you need help or information please visit support.bluesound.com or send us an email at
support@bluesound.com

Included Accessories

 120V AC Power Cord

 Ethernet Cable

 230V AC Power Cord

 Mini Jack to Toslink Adapter

 Metal Mounting Screw

 Metal Mounting Bracket

 Rubber Mount Attachment
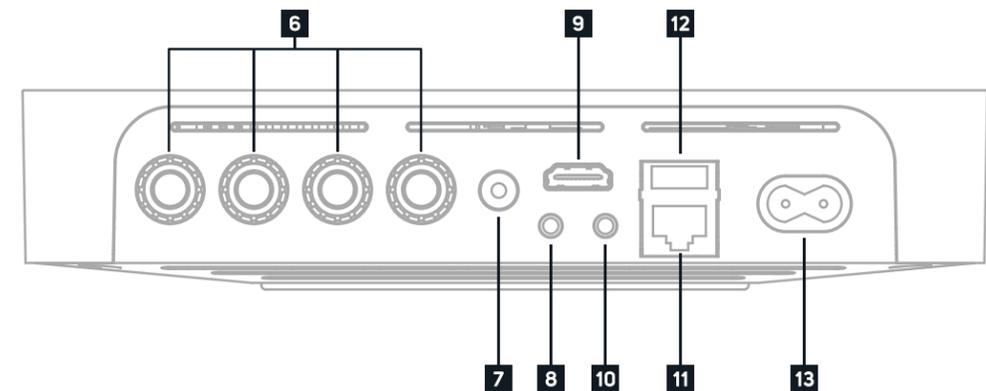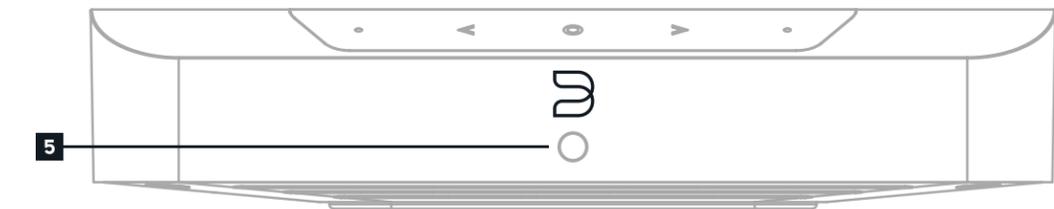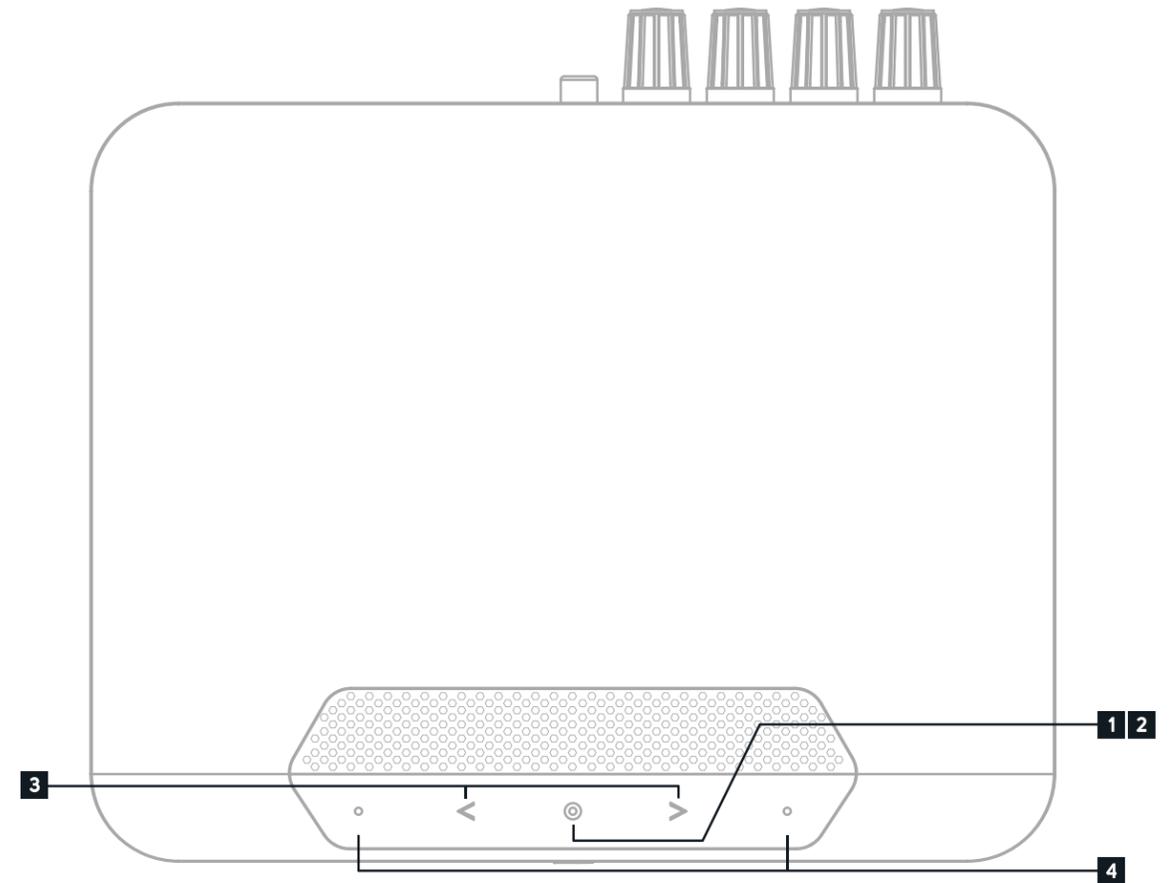
1 **STATUS INDICATOR** Below is a table of the LED blink codes and their corresponding descriptions.

LED BLINK CODE	DESCRIPTION
Short blue flash, then red	Powering up rebooting the unit
Solid green	Hotspot Mode
Flashing green	Connectiung to Network
White pulse	Software update available
Solid red	Upgrade Mode
Alternate flashing red and green	Upgrading
Flashing blue	Mute Mode
Solid white	Indexing
Solid blue	Connected to Network - ready to use with BluOS App
Flashing red	Factory Reset in process
Solid Purple	Hotspot Mode timed out

2 **PLAY/PAUSE BUTTON** This button has multiple functions – a visual indicator of player status and a PLAY/PAUSE button. For a full listing of LED Blink Codes, please see #1 – Status Indicator. For an ungrouped player, press the button to Play and Pause the stream. If listening to an internet radio stream, the Pause function will work for 30 seconds. At this point, the buffer is full and the stream will Stop. When a player is grouped, pressing the PLAY/PAUSE button will Mute that player while other players continue the stream. The player's LED will flash blue when muted. The PLAY/PAUSE button is also used for Factory Reset functions. See steps for Factory Reset later in this manual.

3 **PREVIOUS TRACK/NEXT TRACK** Go back to the previous track < or skip to the next track > in your current play queue.

4 **VOLUME UP/DOWN** Tap the • buttons to vary the volume level in 1db intervals, allowing you to fine-tune your volume setting. Press and hold to rapidly adjust volume. The right-side button increases volume level; the left-side button decreases volume level.

5 **IR RECEIVER** Point any IR (infrared) remote control at the IR receiver and press the buttons to control player functions. The POWERNODE EDGE features IR Learning, which enables any IR remote control to learn BluOS commands. With the learned commands, the configured remote control can then be used to operate the player. Configure your IR remote control in the POWERNODE EDGE Settings menu in the BluOS App.

6 **SPEAKERS** Connect the right speaker to the terminals marked "SPEAKER RIGHT +" and "SPEAKER RIGHT -" ensuring that "+" is connected to the "+" terminal on your loudspeaker and "-" is connected to the loudspeaker's "-" terminal. Repeat for the left speaker using "SPEAKER LEFT +" and "SPEAKER LEFT -". Use extra care to ensure that no stray wires or strands cross between posts or terminals at either end.

7 **SUBWOOFER (SUBW) OUT** A subwoofer can be connected directly to the POWERNODE EDGE. Connect SUBW OUT to a powered ("active") subwoofer. By default a low pass filter is applied at 80Hz, meaning audio below 80Hz is transmitted through the SUBW OUT when a wire is connected. The main loudspeaker output remains at full range unless additional subwoofer and crossover settings in the BluOS App are engaged. You can also connect the POWERNODE EDGE to a Bluesound PULSE SUB+ over the network.

8 **IR IN** An infrared extender can be connected to allow for programmable learning remotes to control functionality when a POWERNODE EDGE is placed in a way that the front panel IR sensor is not visible.

9 **HDMI eARC** The HDMI eARC input on the POWERNODE EDGE is for audio sources only (eARC = Enhanced Audio Return Channel). Using a certified HDMI cable (not provided), connect one end to the eARC input of the POWERNODE EDGE and the other end to an ARC-enabled HDMI output on your television or other source. You may be required to enable ARC in your TV settings. Consult your TV user manual for more information. The source will appear as HDMI ARC for the POWERNODE EDGE in the BluOS App.

10 **OPTICAL/ANALOG IN** Using a 3.5mm stereo audio cable (not provided), connect one end to the OPTICAL/ANALOG IN of the POWERNODE EDGE and the other end to the corresponding analog output of your source device. This will appear as Analog Input in the BluOS App. Using the 3.5mm Mini Jack to Toslink adaptor (included with the POWERNODE EDGE), a digital optical source can also be added. This will appear as Optical Input in the BluOS App.

11 **LAN PORT** To setup the POWERNODE EDGE using the LAN Port a Wired Ethernet connection is required. Using the Ethernet cable provided, connect one end of the Ethernet cable to the LAN port of your wired Ethernet broadband router and the other end to the POWERNODE EDGE's LAN port. The LAN PORT is an optional connection, but for the best network performance an Ethernet connection is recommended.

12 **USB (TYPE A)** Connect a USB mass storage device to the USB input. Typical USB mass storage devices compatible with the POWERNODE EDGE include portable flash memory devices and external hard drives (FAT32 formatted). Use the USB (Type A) port for manual software upgrades. This is only necessary in specific cases with authorization from the Bluesound Support Crew.

13 **AC MAINS INPUT** The POWERNODE EDGE comes supplied with two separate AC power cords. Select the AC power cord appropriate for your region. Before connecting the plug to the wall outlet, connect firmly the other end of the AC power cord to POWERNODE EDGE's AC Mains input socket. Never force the plug into a wall outlet. An adaptor may be necessary in certain regions. Always disconnect the plug from the wall outlet first, before disconnecting the cable from the AC Mains input socket.

SETUP

Placement

The POWERNODE EDGE is designed to power a pair of passive loudspeakers. The minimum specified speaker impedance of the amplifier is 4Ω. Be sure to consider the distance from the player to your speakers when purchasing speaker cable. Also consider the distance from the player to AC power. The POWERNODE EDGE comes supplied with a 2m/6ft power cable.

A common product placement is a centralized audio closet or media room, powering architectural loudspeakers. The POWERNODE EDGE is properly designed for rack placement: 1U rack height, and half-rack width. Place players side-by-side in a standard-size audio rack, or stack on top of each other to fit multiple units in the rack. Heat management vents can be found on the bottom, top, and back panels, and the player controls are easily accessible on the angled front panel.

The POWERNODE EDGE comes supplied with a mounting bracket featuring a multi-orientation design so that it can be mounted to a wall or cabinet in any direction. Choose the best orientation to manage wires and cables properly. Follow these steps to mount your player:

　　　1. Remove the mounting slot cover on the bottom panel.

　　　2. Connect rubber mount attachment to bottom panel of POWERNODE EDGE with supplied metal mounting screw.

　　　3. Use supplied metal mounting bracket to mark the mounting location. Ensure mounting location does not conceal electrical wiring or plumbing. Pre-drill each hole for mounting screws (recommended M4–0.7 x 3, 4 pieces, not supplied). Anchors may be required. Be sure to leave enough space to plug in the cables.

　　　4. Slide the POWERNODE EDGE with rubber mount attachment onto the bracket. Push down to secure.

Wired sources can be connected directly to the rear panel of the POWERNODE EDGE using the HDMI eARC or analog/optical inputs. Examples of common audio sources are TVs, turntables, and CD players. Cables are not provided.

Network

The POWERNODE EDGE is a network audio player and relies on a well-implemented local area network to operate correctly. Internet access is required for software updates and to use many of the player's features, like cloud-based music streaming.

Visit the Bluesound Knowledge Base for more help, tips, and tricks to improve network setup.
https://support.bluos.net/hc/en-us/sections/360000042348-Networking-101

Once your POWERNODE EDGE is connected to loudspeakers and AC power, you need to add it to your network. Watch for the front panel LED to turn Solid Green, indicating it is ready for network connection in 'Hotspot' mode. You can add your player to the network via wired Ethernet, or wirelessly via Wi-Fi. If using Ethernet, simply plug in an Ethernet cable to the POWERNODE EDGE's LAN Port. The LED will turn Solid Blue, indicating network connection. If using Wi-Fi, open the BluOS App on a phone or tablet, and use the 'Add A Player' wizard to guide you through the steps. Whether connecting via Ethernet or Wi-Fi, you must finalize setup by initializing your POWERNODE EDGE within the BluOS App.

WARNING!

THIS IS A FACTORY RESET OF YOUR PLAYER. ALL CUSTOMIZATION INCLUDING WI-FI NETWORK CONFIGURATION, FILE SHARES AND SAVED PLAYLISTS WILL BE LOST. YOU WILL HAVE TO RE-CREATE THESE ONCE COMPLETE. THIS PROCESS IS ONLY RECOMMENDED IF YOUR PLAYER IS NOT FUNCTIONING AND AN INTERNET FIRMWARE UPGRADE HAS FAILED. FOR ANY QUESTIONS OR CONCERNS CONTACT AN AUTHORISED BLUESOUND CUSTOMER REPRESENTATIVE BEFORE PROCEEDING!

Steps to Factory Reset:

1. Disconnect the POWERNODE EDGE from electrical power.

2. Wait 30 seconds.

3. Reconnect the power.

4. Once the LED turns Red, press and hold the PLAY/PAUSE button. The LED will immediately turn Green and then back to Red - continue to hold the button for 30 seconds.

5. After 30 seconds, the LED will begin to blink red – then release the button.

6. All customization to the POWERNODE EDGE will be removed and restored to factory settings.

IMPORTANT Removing your finger from the PLAY/PAUSE button at any time before the LED begins flashing red will cancel the factory reset and leave the POWERNODE EDGE in Upgrade Mode. Just start the steps again to factory reset it.

You will know the factory reset is successful if the POWERNODE EDGE returns to Hotspot mode (wireless connection - the LED will turn solid green). If it is connected to your network through a wired Ethernet connection, it will simply connect as if it was a new player (LED will turn solid blue).