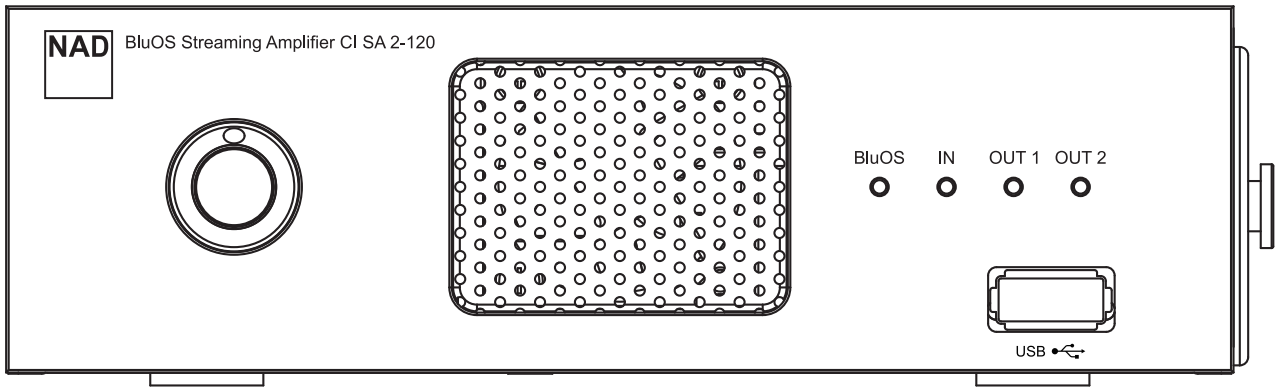





CI SA2-120

BluOS Streaming Amplifier



Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS

- **Read instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.
- **Follow Instructions** - All operating and use instructions should be followed.
- **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- **Water and Moisture** - Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- **Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
-  **Cart** - A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- **Ventilation** - Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- **Power Sources** - This product should be operated only from the type of power source indicated on the marking label and connected to a MAINS socket outlet with a protective earthing connection. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- **Power Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- **Mains Plug** - Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- **Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **Flame Sources** - No naked flame sources, such as lighted candles, should be placed on the product.
- **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance-this indicates a need for service.
- **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WARNING



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



WARNING : SHOCK HAZARD - DO NOT OPEN
ATTENTION : RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

CAUTION REGARDING PLACEMENT

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) than is equal to, or greater than shown below.

Left and Right Panels: 10 cm

Rear Panel: 10 cm

Top Panel: 10 cm

RESPONSIBLE PARTY

Lenbrook International
633 Granite Court
Pickering, ON L1W 3K1
Canada
Tel: 1 905 8316555

CAN ICES-3 (B)/NMB-3(B)

This Class B digital apparatus complies with Canadian ICES-3

EU CONFORMITY STATEMENT

This product and, if applicable, the supplied accessories are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Radio Equipment Directive 2015/35/EU and EMC Directive 2014/30/EU.



FCC STATEMENT

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

CAUTION

- Changes or modifications to this equipment not expressly approved by NAD Electronics for compliance could void the user's authority to operate this equipment.
- This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
 - 1 This device may not cause harmful interference, and
 - 2 This device must accept any interference received, including interference that may cause undesired operation.
- This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.
- Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
- To prevent electric shock, match wide blade of plug to wide slot, fully insert.
- Marking and rating plate can be found at the rear panel or bottom panel of the apparatus.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
- Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
- An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
- The device for operation in the band 5150–5250 MHz is for indoor use only to reduce the potential for harmful interference to co-channel mobile satellite systems.
- Operating temperature: 0 – 40 °C

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN.

NOTES ON ENVIRONMENTAL PROTECTION



At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging point this out.

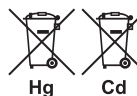
The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials, or other forms of recycling of old products, you are making an important contribution to the protection of our environment.

Your local administrative office can advise you of the responsible waste disposal point.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (FOR EUROPEAN CUSTOMERS ONLY)



Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste.



End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through

an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.

WHAT'S IN THE BOX

Packed with your CI SA2-120 you will find

- Two detachable mains power cord
- 2 pieces of 4-position terminal block (for SPEAKERS)
- 1 piece of 4-position terminal block (for TRIGGER IN/IR IN)
- 4 pieces of rubber feet
- 2 pieces of rack ears (long)
- 2 pieces of rack ears (short)
- 2 pieces of screws (for surface mounting of short rack ears)
- Wi-Fi and Bluetooth Antennas
- Important Safety Instruction sheet
- Quick Setup Guide

QUICK START

Refer to the supplied CI SA2-120 Quick Setup Guide for basic instructions in setting up your new NAD CI SA2-120. The following important setup notes must also be observed when setting up your CI SA2-120.

IMPORTANT SETUP NOTES

- Before setting up or making connections, ensure that the CI SA2-120 and other devices to be connected to CI SA2-120 are unplugged or powered down.
- Connect external speaker cables to supplied SPEAKER terminal blocks ensuring that the connections match CI SA2-120's rear panel SPEAKER A and SPEAKER B terminal markings.
- Bare wire or loose strands from the speaker cables must not touch the rear panel or other speaker terminals.
- After installing the external speaker cables to the supplied SPEAKER terminal blocks, plug in the wired-up SPEAKER terminal blocks to corresponding SPEAKER A and SPEAKER B rear panel terminals of CI SA2-120.
- Before connecting the power cord's plug to the mains power outlet, ensure that the other end of the power cord is firmly connected to CI SA2-120's AC Mains input socket.

SAVE THE PACKAGING

Please save the box and all the packaging in which your CI SA2-120 arrived. Should you move or otherwise need to transport your CI SA2-120, this is by far the safest container to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box!

NETWORK SETUP

Connect your CI SA2-120 to your home network via **Wired** or **Wireless** connection.

A. WIRED CONNECTION

Using an Ethernet cable (not supplied), connect one end to CI SA2-120's LAN port and the other end directly to your home network or router.

B. WIRELESS CONNECTION

Connect CI SA2-120 to your wireless network using any of the following four methods.

- 1 Wireless Accessory Configuration (WAC) using iOS/iPadOS device
- 2 Using iOS/iPadOS device
- 3 Using Android device

Condition: CI SA2-120 must be at hot spot mode. CI SA2-120 default setting is at hot spot mode.

IMPORTANT!

- *The following procedures may change over time without notice. Always check the CI SA2-120 product page for the latest updates.*
- *The BluOS app for iOS and Android devices, as well as for Windows and macOS desktops, can be downloaded from their respective application stores and also from BluOS downloads at <https://bluos.io/downloads>.*

1 WIRELESS ACCESSORY CONFIGURATION (WAC) USING iOS/iPadOS DEVICE

Wireless Accessory Configuration (WAC) setup mode is supported by iOS/iPadOS application. At WAC setup mode, network name and password are not required for the CI SA2-120 to be connected to your network.

- a Select **Settings** menu of your iOS/iPadOS device.
- b Go to **Wi-Fi** and select the network you would like to use with your CI SA2-120.
- c Scroll down to **SETUP NEW AIRPLAY SPEAKER**. Select your CI SA2-120 player indicated by **CI SA2-120-xxxx** where **xxxx** corresponds to the last 4 digits of the MAC (Media Access Control) address* of your CI SA2-120.
- d When **AirPlay Setup** screen comes up, select **Next**. Note that you can also customize the name of your CI SA2-120 by entering desired name in the line item **Speaker Name**.
- e Airplay Setup will proceed automatically. Follow setup process until **Setup Complete** is shown. Select **Done** to exit setup mode.

2 USING iOS/iPadOS DEVICE

- a Open BluOS App. Select **Players** icon in the bottom portion of the App.
- b From upper right corner of the App, select **+** to launch Easy Setup Wizard.
- c From **My Players** screen prompt, select your CI SA2-120's unique network ID* under **Needs Setup**.
- d When **AirPlay Setup** screen comes up, select **Next**. Note that you can also customize the name of your CI SA2-120 by entering desired name in the line item **Speaker Name**.
- e Airplay Setup will proceed automatically. Follow setup process until **Setup Complete** is shown. Select **Done**.
- f CI SA2-120 will automatically enter **Looking for Upgrade** mode. If a firmware upgrade is available, it will be installed automatically. Once the upgrade is finished, select **Finish** to exit setup mode.

*The CI SA2-120's unique network ID is listed as the product name (i.e., CI SA2-120) immediately followed by the last four digits in the MAC (Media Access Control) address (example: CI SA2-120-ACF7).

3 USING ANDROID DEVICE

- a Open BluOS App. BluOS will look for Players. Available players will appear under **My Players** screen prompt.
 - i. If not prompted, select **Players** icon in the bottom portion of the App.
 - ii. From upper right corner of the App, select **+** to launch Easy Setup Wizard.
- b Select your CI SA2-120's unique network ID* from the **My Players** window.
 - i. Select your Home Wi-Fi Network from the **Choose WiFi Network** drop down menu.
 - ii. If your Home Wi-Fi Network does not appear or is hidden, select **Manual SSID Entry**.
 - iii. Enter **SSID** name.
 - iv. Select the Network Security your network uses under **Choose Security Method**.

- c Enter your home network's Wi-Fi **Password** in the field provided and select **Continue**.
- d Select or enter preferred **Name** to customize your CI SA2-120 for easier identification in the Player Drawer. Select **Continue**.
- e Network setup process proceeds automatically. As it advances, it will automatically enter **Looking for Upgrade** mode. If a firmware upgrade is available, it will be installed automatically.
- f Network setup process is completed when **Setup Complete** is shown in the App. Select **Finish** to exit the setup process.

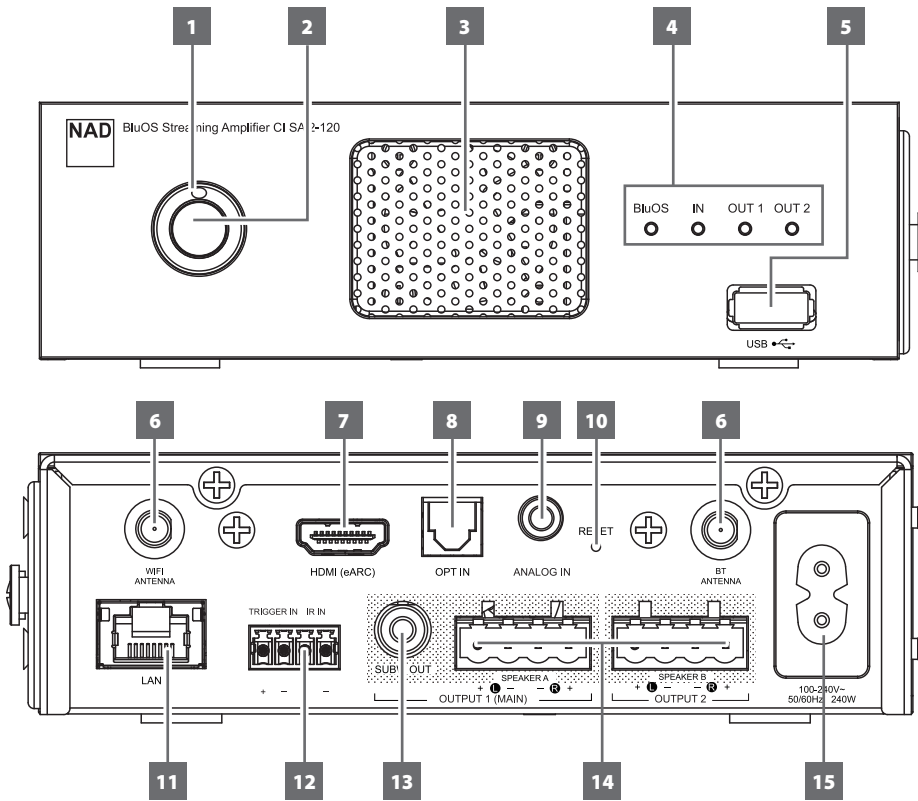
MAKING THE MOST OF YOUR CI SA2-120

The BluOS App allows you to manage all BluOS-enabled products. For proper operation, both the CI SA2-120 and the device running the BluOS App must be connected to the same network.

Launch the BluOS App and explore everything from your streaming music services, internet radio stations, networked music collections and favorites with quick and easy single-search discovery.

For more information on setup and operational guidelines of your CI SA2-120, visit support.bluos.net.

IDENTIFICATION OF CONTROLS



ATTENTION!

Please ensure that the CI SA2-120 is powered off or unplugged from the mains power outlet before making any connections. It is also advisable to power down or unplug all associated components while making or breaking any signal or AC power connections.

1 POWER LED INDICATOR

- If there is no network connection, this indicator will illuminate green.
- If there is a network connection, this indicator will illuminate blue.
- Refer to the LED STATUS INDICATORS table for additional POWER LED color indicators.

LED STATUS INDICATORS

LED INDICATOR	LED INDICATOR COLOR	DESCRIPTION
POWER	Solid red, flashing green	Powering up, rebooting
	Green	Hotspot mode
	Flashing green	Connecting to network
	Blue	Connected to Network - ready to use with BluOS App
	Red	Upgrade Mode
	Alternate flashing red and green	Upgrading
	White	Indexing
	No light	Deep standby mode
	Purple	Hotspot mode timed out
BluOS	Blue	BluOS is selected and live (playback).
	White	Playback is paused.
	No light	BluOS is not selected, other input (Analog, Bluetooth, HDMI eARC or Optical) is selected in the BluOS App.
	No light	Standby mode; not active
IN	Blue	Active Analog, Bluetooth, HDMI eARC or Optical input is selected in the BluOS App.
	White	Selected input is paused.
	No light	None of the Analog, Bluetooth, HDMI eARC or Optical inputs are selected in the BluOS App.
	No light	Standby mode; not active

LED INDICATOR	LED INDICATOR COLOR	DESCRIPTION
OUT 1	Blue	Active OUTPUT 1 (MAIN)
	No light	OUTPUT 1 (MAIN) not active
	White	OUTPUT 1 (MAIN) is paused.
	Amber	Over temperature or clipping (temperature over 80°C)
	Red	Current/DC protection (temperature over 90°C)
	No light	Standby mode; not active
OUT 2	Blue	Active OUTPUT 2
	No light	OUTPUT 2 not active
	White	OUTPUT 2 is paused.
	Amber	Over temperature or clipping (temperature over 80°C)
	Red	Current/DC protection (temperature over 90°C)
	No light	Standby mode; not active

ATTENTION!

When the **POWER LED indicator** changes to **purple**, this indicates that Hotspot Mode has timed out. Unplug the power cord and then plug it back into the mains power outlet to restore Hotspot mode.

2 POWER BUTTON

Switching from Standby Mode to Operating Mode

Press this button to switch the unit from standby mode to operating mode.

- POWER LED will illuminate green when no network connection is detected.
- POWER LED will illuminate blue when a network connection is established.

Entering and Exiting Deep Standby Mode

- While in operating mode, press and hold this button until both the POWER and CHANNEL LED indicators turn off. The unit will enter Deep Standby Mode.
- When set to Deep Standby mode, the CI SA2-120 will completely power off with no network or amplifier activity, making it inaccessible via the network or the BluOS App.
- Press the Power button again to return the unit to operating mode.

3 FAN

The CI SA2-120 front panel features a cooling fan. Fan speed is automatically adjusted according to the following temperature thresholds:

- **Low Speed:** The fan activates at 50°C and turns off when the temperature drops below 45°C.
- **Medium Speed:** The fan activates at 60°C and shifts back to low speed if the temperature falls below 55°C.
- **High Speed:** The fan activates at 70°C and returns to medium speed when the temperature drops below 65°C.

4 CHANNEL LED INDICATORS (BluOS, IN, OUT 1, OUT 2)

- Refer to the LED Status Indicators table for details on the various CHANNEL LED color indicators.

5 USB

- Connect to this USB port a USB mass storage drive formatted as FAT32 or NTFS.
- When a USB drive is detected, the BluOS App displays a Player Notification indicating that a USB device has been inserted. Likewise, when the USB drive is removed, a notification appears to inform the user that the USB device has been disconnected.
- This will appear as **USB** under **Music Services** in the BluOS App.

6 WIFI AND BT ANTENNA TERMINALS

- Connect one of the supplied antennas to the BT antenna terminal and the other to the WIFI antenna terminal.

7 HDMI eARC

- Connect to a TV that supports HDMI Control (CEC) and Enhanced Audio Return Channel (eARC).
- HDMI CEC and eARC features work when all connected devices support these functions and are linked via HDMI.
- Use an Ultra High-Speed HDMI cable with the official certification label for maximum bandwidth and high-bitrate audio formats.
- Once the eARC connection is established, the CI SA2-120 will output audio from the TV.
- Select **HDMI ARC** as the source in the BluOS App. HDMI ARC is only available for selection in Zone 1 (OUTPUT 1-Main).

IMPORTANT

- *Set the audio format of all eARC-connected devices to PCM only.*
- *The HDMI eARC port on the CI SA2-120 supports audio output from the TV only; it does not provide video output.*

8 OPTICAL IN

- Connect to the optical digital output of compatible sources such as CD players, streamers, digital cable box, digital tuners and other applicable devices.
- Select **Optical Input** as the source in the BluOS App. Optical Input is only available for selection in Zone 1 (OUTPUT 1-Main).

9 ANALOG IN

- Connect a 3.5 mm stereo plug (not included) to the ANALOG IN on the CI SA2-120 and the other end to the corresponding analog output on a compatible device.
- Select **Analog Input** as the source in the BluOS App. Analog Input is only available for selection in Zone 1 (OUTPUT 1-Main).

10 RESET

Use the RESET button to restore the CI SA2-120 to factory default settings.

- Unplug the power cord to turn off the unit.
- Using an appropriate pointed tool, press and hold the RESET button, then plug the power cord into the mains power outlet.
- Release hold of the RESET button when the POWER LED indicator begins flashing red.
- Factory reset is complete once the unit restarts or reboots. The POWER LED indicator will turn green if there is no network connection or turn blue once a network connection is established.

11 LAN

- LAN connection must be setup for wired connection to be established. Use a standard Ethernet cable (not supplied) to connect the CI SA2-120 LAN port to your router or network switch.
- DHCP must be supported by the router to assign an IP address to CI SA2-120.

NOTES

- *NAD is not responsible for any malfunction of the CI SA2-120 and/or the internet connection due to communication errors or malfunctions associated with your broadband internet connection or other connected equipment. Contact your Internet Service Provider (ISP) for assistance or the service bureau of your other equipment.*
- *Contact your ISP for policies, charges, content restrictions, service limitations, bandwidth, repair and other related issues pertinent to internet connectivity.*

12 TRIGGER IN, IR IN

- Use the supplied 4-position terminal block (for TRIGGER IN/IR IN) to connect the TRIGGER IN (+/-) terminals to the corresponding terminals of a compatible external +12V TRIGGER source, and the IR IN (+/-) terminals to the output of an external IR repeater/receiver or the IR output of another compatible device.
- Install the wired TRIGGER IN/IR IN terminal block into the corresponding TRIGGER IN/IR IN ports on the CI SA2-120 rear panel.

TRIGGER IN

The TRIGGER IN is intended for use by Professional Integrators only. It can be configured to perform BluOS functions based on changes in trigger voltage status. Configuration is available exclusively through the BluOS Configuration Utility application. Professional Integrators may contact Support@BluOS.net to request access to this software.

IR IN

- The IR IN port requires an IR receiver kit (not supplied). The CI SA2-120 can be used with a BluOS IR remote, or with a third-party IR remote configured through the IR Learning menu in the BluOS app.
- If a USB-powered IR receiver and emitter are used and power is drawn from the CI SA2-120's USB port, the emitter's negative wire must be connected to the positive input of the player's receiver port.
- When using an external USB power supply or an extender kit, the emitter's negative and positive wires should be connected to the IR input using the standard wiring configuration.

IDENTIFICATION OF CONTROLS

13 SUBWOOFER OUT

- Connect SUBW OUT to the low-level input of corresponding powered subwoofer. Full range output signal is sent to the connected subwoofer. Note that SUBWOOFER OUT is available only for the Main Zone (OUTPUT 1 – Main).
- Alternatively, both Zones (OUTPUT 1 and OUTPUT 2) can be paired to a compatible Bluesound network subwoofer.

14 SPEAKER A, SPEAKER B (OUTPUT 1, OUTPUT 2)

- The supplied SPEAKERS terminal blocks support wire sizes up to 10 AWG (American Wire Gauge). Refer to the table below for additional guidance on AWG sizes and recommended wire lengths.

SPEAKER WIRE GAUGE	MAXIMUM SPEAKER WIRE LENGTH		
	4 Ohms Speakers	6 Ohms Speakers	8 Ohms Speakers
18 AWG	16 feet	24 feet	32 feet
16 AWG	24 feet	36 feet	48 feet
14 AWG	40 feet	60 feet	80 feet
12 AWG	60 feet	90 feet	120 feet
10 AWG	100 feet	150 feet	200 feet

- Connect external speaker cables to supplied SPEAKERS terminal block ensuring that the connections match CI SA2-120's SPEAKERS terminal markings.
- To illustrate the proper wiring, connect the CI SA2-120 SPEAKER A Left ("L+") terminal to the corresponding "+" terminal of the external speaker, and connect the "L-" terminal to the speaker's "-" terminal. Use the same wiring configuration for the SPEAKER A Right (+/-) terminals. Apply this same connection method when wiring the SPEAKER B speaker terminals.
- After installing the external speaker cables to the supplied SPEAKER terminal blocks, plug in the wired-up SPEAKER terminal blocks to corresponding SPEAKER A and SPEAKER B rear panel terminals of CI SA2-120.
- Speaker A = Output 1/BluOS Zone 1 and Speaker B = Output 2/BluOS Zone 2.

ACTIVE ZONES

The CI SA2-120 can be configured for single zone operation by deactivating Zone 2 so it no longer appears in the BluOS App. The number of active zones on the CI SA2-120 is managed through the web control panel.

To access the web control panel, enter the CI SA2-120's IP address into your device's web browser connected to the same network. This will open the CI SA2-120 **Control Panel**. Select **Active Zones**, which is set to **2** by default. To disable Zone 2, select **1**. You will then be prompted to reboot the player for the change to take effect.

Zone 2 can be reactivated at any time by following the same process and selecting **2** in the active zones' menu.

15 AC MAINS INPUT

- The CI SA2-120 comes supplied with two separate AC power cords. Select the AC power cord appropriate for your region.
- Before connecting the power cord's plug to the mains power outlet, ensure that the other end of the power cord is firmly connected to CI SA2-120's AC Mains input socket.
- Always unplug the power cord from the mains power source first, before disconnecting the other end from the CI SA2-120's AC Mains input socket.

NETWORK STANDBY MODE

With Amplifier Standby set to Enabled (**Settings → Player → Amplifier Standby**) in the BluOS App, the CI SA2-120 will automatically switch to Network Standby mode after 15 minutes of no user interaction or active source input.

- The CI SA2-120 maintains network connection at Network Standby mode with reduced system performance.
- When the CI SA2-120 enters Network Standby mode, the POWER LED indicator remains in blue while all the Channel LED indicators are turned off (no light).
- Power consumption at Network Standby mode is less than 2.5 W.

DEEP STANDBY MODE

When set to Deep Standby mode, the CI SA2-120 will completely power off with no network or amplifier activity, making it inaccessible via the network or the BluOS App.

- To activate Deep Standby mode, press and hold the POWER button until the POWER LED indicator turns off (no light).
- To wake up the CI SA2-120 from Deep Standby Mode, press the POWER button. The POWER LED will illuminate blue to indicate that normal operation has resumed.
- Power consumption at Network Standby mode is less than 0.5 W.

BLUETOOTH AS A SOURCE

1 Connect the Bluetooth antenna

- Ensure the supplied Bluetooth antenna is attached to the BT antenna terminal on the CI SA2-120 rear panel.

2 Activate your Bluetooth device

Make sure your Bluetooth device (iOS, Android, or other) is powered on and ready to pair.

3 Pair Bluetooth device

- a On your iOS, Android, or Bluetooth device, go to **Settings → Bluetooth**.
- b From the list of available Bluetooth devices, select the unique device ID corresponding to the CI SA2-120 to initiate pairing.

4 Select Bluetooth as the source

Once Bluetooth pairing is successful, choose Bluetooth as the source from the BluOS App, and start playing music from your Bluetooth device.

SPECIFICATIONS

GENERAL SPECIFICATIONS

ANALOG IN, OUTPUT

Continuous output power into 8 ohms and 4 ohms	60 W (20 Hz-20 kHz, rated THD, 4-channels driven) 120 W (20 Hz-20 kHz, rated THD, 2-channels driven)
THD (20 Hz – 20 kHz, 8 ohms and 4 ohms)	<0.03 % (1 W to 120 W, 2-channels driven)
Signal-to-Noise Ratio	>86 dB (A-weighted, 2Vin 1 W out 8 ohms)
Clipping power (4-channels driven)	8 ohms: >150 W (1 kHz, 0.1 % THD) 4 ohms: >150 W (1 kHz, 0.1 % THD)
Clipping power (2-channels driven)	8 ohms: >160 W (1 kHz, 0.1 % THD) 4 ohms: >310 W (1 kHz, 0.1 % THD)
IHF dynamic power (4-channels driven)	8 ohms: 180 W 4 ohms: 270 W
IHF dynamic power (2-channels driven)	8 ohms: 190 W 4 ohms: 360 W
Peak output current	>20 A
Damping factor	>100 (20 Hz to 6.5 kHz, 8 ohms)
Frequency response	20 Hz - 20 kHz (\pm 0.3 dB)
Channel separation (4 ohms and 8 ohms)	>75 dB (1 kHz) >70 dB (10 kHz)
Input sensitivity (for 60 W in 8 ohms)	750 mV
Frequency band	2.4 GHz: 2400 - 2500 MHz 5 GHz: 150 - 5250 MHz, 5250 - 5350 MHz, 5470 - 5725 MHz, 5725 - 5850 MHz
Power consumption	0.5 W (Deep standby mode) 2.5 W (Network Standby mode)

ANALOG IN, SUBW OUT

THD (20 Hz – 20 kHz)	0.01 % (2V out)
Signal-to-Noise Ratio	>88 dB (A-weighted, 500 mV out, unity gain)
Input impedance	28 kohms
Maximum input signal	2 Vrms
Input sensitivity	2 V
Frequency response	20 Hz - 20 kHz (\pm 0.3 dB)

DIMENSION AND WEIGHT

Gross dimensions (W x H x D) *	147 x 46 x 420 mm (5 7/8 x 1 7/8 x 16 5/8 inches)
Net weight	2.6 kg (5.7 lbs)
Shipping weight	3.9 kg (8.6 lbs)

* - Gross dimension includes installed wireless antenna at right angle.

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HEAT OUTPUT (BTU)

CONDITION		230V/50Hz			120V/60Hz		
		INPUT POWER (W)	OUTPUT POWER TO SPEAKER (W)	HEAT OUTPUT (BTU/HR)	INPUT POWER (W)	OUTPUT POWER TO SPEAKER (W)	HEAT OUTPUT (BTU/HR)
Eco mode Standby Power at 8 ohms		0.50	-	1.71	0.50		1.71
Network Standby Power at 8 ohms		2.50	-	8.53	2.25		7.68
Idle power at 8 ohms		15.65	-	-	15.40		-
Output power at 8 ohms, all channels driven	1/8 rated power	59.50	30.00	100.66	59.90	30.00	102.02
	1/3 rated power	114.70	80.00	118.40	118.90	80.00	132.73
	1/2 rated power	159.60	120.00	135.12	163.20	120.00	147.40
	Full rated power	290.40	240.00	171.97	297.60	240.00	196.54
Output power at 4 ohms, all channels driven	1/8 rated power	59.60	30.00	101.00	60.90	30.00	105.44
	1/3 rated power	118.40	80.00	131.03	120.10	80.00	136.83
	1/2 rated power	163.00	120.00	549.49	167.80	120.00	163.10
	Full rated power	301.40	240.00	209.51	307.10	240.00	228.95



www.NADelectronics.com

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