NAD®

C 700 V2
BluOS Streaming Amplifier

NAD C 700 V2

VOLUME — MENU

< >

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.
- **Headphones** - Excessive sound pressure form earphones and headphones can cause hearing loss.

- **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.
- **Battery Disposal** - When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- **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.
- **Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

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.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

C 700 V2 is in compliance with the European Union energy legislation. C 700 V2 complies with European Commission Regulation (EC) No 1275/2008 and Regulation (EC) No 801/2013 as a network equipment with HiNA functionality.

POWER CONSUMPTION
Off: N/A
Standby: N/A
Network Standby: 3W
Time to Standby: N/A

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 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.
- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery cannot be subjected to high or low extreme temperatures, low air pressure at high altitude during use, storage or transportation.
- Replacement of a battery with an incorrect type that can result in an explosion or the leakage of flammable liquid or gas.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- 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.

MPE REMINDER

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To satisfy FCC/IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN.

RESPONSIBLE PARTY

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

CE This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 2004/108/EC.

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)

Pb

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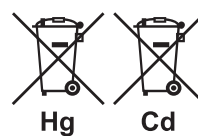
Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal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

For indoor use only in the following countries:	BE	SK	PT	NL	LU
	DE	BG	FI	RO	AT
	ES	EE	CZ	SE	SI
	CY	FR	IE	DK	UK
	LV	HR	EL	PL	MT
	LT	IT	HU		

FREQUENCY BAND AND TRANSMISSION POWER

The following frequency band and transmission power are used in this product:

Radio Network	Frequency Band in MHz	Maximum Transmission Power in mW/dBm
Bluetooth	2400 – 2483.5	5.69/7.55
WLAN 2.4 GHz	2412 – 2472	32/15.05
WLAN 5 GHz	5180 – 5320; 5500 – 5700; 5745 – 5825	22/9.65

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INTRODUCTION

TABLE OF CONTENTS

WHAT'S IN THE BOX

Packed with your C 700 V2 you will find
- Two detachable mains power cord
- BC1 remote control with 2 AAA batteries
- Quick Setup Guide

NOTE

Follow supplied Quick Setup Guide to help you get started with your C 700 V2.

SAVE THE PACKAGING

Please save the box and the packaging that came with the C 700 V2. Should you move or need to transport your C 700 V2, this is the safest container to use. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton. So please, save that box!

FACTORY RESET

Factory Reset is recommended if your C 700 V2 is not functioning or internet firmware upgrade has failed. All customization including Wi-Fi network configuration, file shares and saved playlists will be lost. They have to be re-created once factory reset is completed.

C 700 V2 can be factory reset or restored to factory default settings using any of the following methods.

1. **Via Front Panel Display**
   Go to **Settings - Other** menu option and select **Factory Reset** to initiate restoring of the C 700 V2 to factory default settings. Follow the prompt commands.
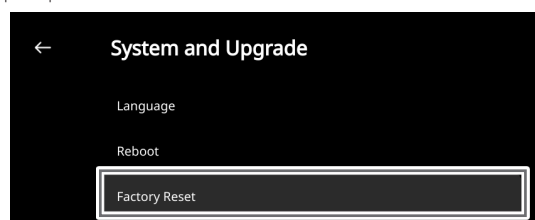
2. **Force Factory Reset**
   a. Disconnect the mains power plug from the mains power outlet.
   b. Press and hold rear panel Standby button and while doing so reconnect the mains power plug to the mains power outlet. Do not release the Standby button.
   c. Hold down the rear panel Standby button - STATUS INDICATOR (NAD logo) blinks Red, White and then Red. "BluOS Service Mode" is shown the front panel display. Wait for the front panel display to show "Factory Reset…" and then release hold of the rear panel Standby button. Successful Factory Reset is indicated by the unit rebooting.
      - For wireless connection, C 700 V2 returns to Hotspot mode and NAD logo indicator turns into solid white.
      - For wired connection, C 700 V2 will simply connect as if it was a new player and NAD logo indicator turns into solid white.

IMPORTANT

Releasing the Standby button at any time before the NAD logo indicator begins flashing red will cancel the factory reset and leave the C 700 V2 at Upgrade Mode. Just start again the procedure for Factory Reset.

QUICK SETUP GUIDE

This simple guide will help you get started with your C 700 V2.

Your C 700 V2 can be connected to your home network via **Wired** or **Wireless** connection.

IMPORTANT!

- *For wired and wireless connection to be established, ensure that a broadband router that supports Ethernet and/or Wi-Fi standards is setup and available.*
- *Tablets, smartphones and other applicable devices that support iOS (Apple) or Android operating system can be used as mobile device controller. These devices are not supplied with your C 700 V2.*
- *Download and install the corresponding BluOS App for your device.*
- *The BluOS App for iOS/iPadOS and Android devices as well as Windows and macOS desktops is available for download from their respective Application stores and BluOS downloads page. https://bluos.io/downloads*
- *When BluOS App is opened after network connection setup, the configured C 700 V2 network ID or custom name may indicate a "NEEDS SETUP" prompt. Select your C 700 V2 network ID or custom name and follow the prompt instructions to complete the setup. Available software upgrade will be automatically checked and loaded during configuration.*

A. WIRED CONNECTION

Using an Ethernet cable (not supplied), connect one end to C 700 V2's LAN port and the other end directly to your home network or router.

B. WIRELESS CONNECTION

Connect C 700 V2 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
4. Wireless manual setup

Condition: C 700 V2 must be at hot spot mode. C 700 V2 default setting is at hot spot mode.

IMPORTANT!

- *Hotspot mode will time out after 15 minutes. To re-establish hotspot mode, reboot C 700 V2 or power it down and wait at least 5 seconds before powering it back up.*
- *The following procedures may change over time without notice. Always check the C 700 V2 product page for the latest updates.*

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 C 700 V2 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 C 700 V2.
c. Scroll down to **SETUP NEW AIRPLAY SPEAKER**. Select your C 700 V2 player indicated by **C 700 V2-xxxx** where **xxxx** corresponds to the last 4 digits of the Machine Access Control (MAC) address* of your C 700 V2.

d. When **AirPlay Setup** screen comes up, select **Next**. Note that you can also customize the name of your C 700 V2 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 C 700 V2'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 C 700 V2 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. C 700 V2 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 C 700 V2's unique network ID is listed as the product name (i.e., C 700 V2) immediately followed by the last four digits in the MAC (Machine Access Control) address (example: C 700 V2-ACF7).

3 USING ANDROID DEVICE

a. Select your C 700 V2's unique network ID* from the Wi-Fi Setup connection settings menu of your Android device and connect/join.
b. Wait until **Internet may not be available** window appears. Select **Connect only this time**.
c. Open the BluOS App and wait for the **New Player detected** window to appear (this may take some time). Select **Setup now**.
d. Select your C 700 V2's unique network ID* from **My Players** window.
e. Select your Home Wi-Fi Network from **Choose WiFi Network** drop down menu.
   i. If your Home Wi-Fi Network does not appear or is hidden, select **Manual SSID Entry**.
   ii. Enter **SSID** name.
   iii. Select the Network Security your network uses under **Choose Security Method**.
f. Enter your home network's Wi-Fi **Password** in the field provided and select **Continue**.
g. Select or enter preferred **Name** to customize your C 700 V2 for easier identification in the Player Drawer. Select **Continue**.
h. 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.
i. Network setup process is completed when **Setup Complete** is shown in the App. Select **Finish** to exit the setup process.

INTRODUCTION

GETTING STARTED

4 WIRELESS MANUAL SETUP

a   Select your C 700 V2's unique network ID* from the Wi-Fi Setup connection settings menu of your tablet, smart phone or computer and connect/join.

b   Open the web browser of your device and visit **http://10.1.2.3.**

c   Select **Configure WiFi** from the "…**Control Panel**" menu.

d   Select your network or applicable wireless network name (SSID) from **Configure Wireless** drop-down menu.

e   Enter your network's Wireless Password (Passphrase, WEP/WAP key as applicable) in the field **Enter password or key (if protected)**.

f   Select a **Player name** from the drop-down list or use the on-screen keyboard to create a customized room name in the field **Custom name**.

g   Select **Update** to save all your settings. A **Congratulations**…screen prompt will appear to indicate that the network setup process of your C 700 V2 is completed.

h   Revisit the Wi-Fi Settings on your device and ensure it has reconnected to your network (the same network selected at Step d).

i   Open desktop BluOS App. Select your C 700 V2 network ID* in the BluOS App that also shows **C700 V2 NEEDS SETUP**.

j   Select your C 700 V2 from **Add Player** window to proceed with the setup

k   Input the **Name** you prefer to identify your C 700 V2. You can either keep the **Player Name** entered in Step f or rename it again. Select **Next** to continue.

l   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.

m   Network setup process is completed when **All Done!** is shown in the App. Select **Finish** to exit the setup process.
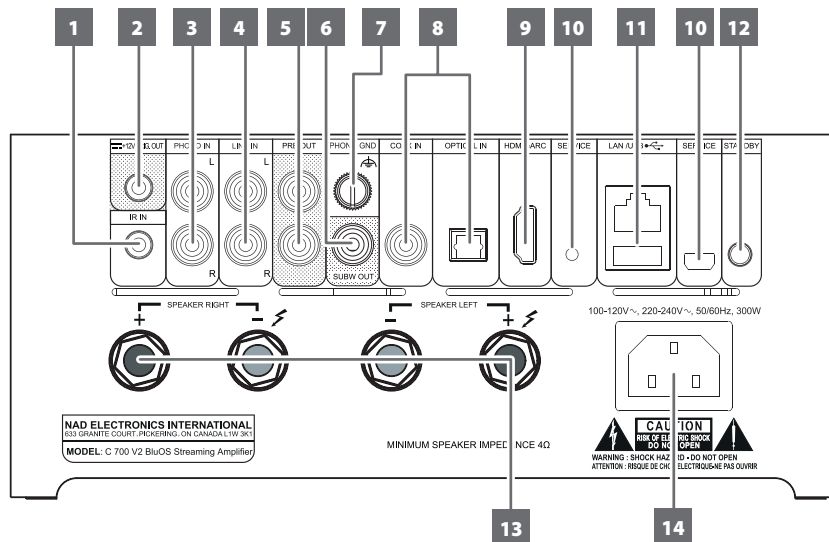
ATTENTION!

Please ensure that the C 700 V2 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 IR IN
- This input is connected to the output of an IR (infrared) repeater (Xantech or similar) or IR output of another compatible device to allow control of the C 700 V2 from a remote location.

IR LEARNING

IR Learning enables any IR remote control to learn BluOS basic remote control codes. With the learned codes, the configured remote control can be used to command your C 700 V2.
- **a** To program IR Remote commands into your C 700 V2, go to the **Settings** menu of the BluOS App, select **Player**, **IR Remote** and then **IR Learning**.
- **b** Select the function desired from the IR Remote menu, point an IR remote control at the unit and press the button to perform that function.
- **c** Once successful, a check mark will appear beside the programmed function. You can now use the IR remote control to command the C 700 V2 with the programmed functions.

2 +12V TRIGGER OUT
- The +12V TRIGGER OUT is designed to control external devices that have a +12V DC TRIGGER IN.
- Connect this +12V TRIGGER OUT to the +12V DC TRIGGER IN of the other device using a cable with 3.5mm male plug.
- This output will be 12V when the C 700 V2 is ON and 0V when it is either OFF or in standby mode.

3 PHONO IN
- Input for a Moving Magnet (MM) phono cartridge only. Connect the twin RCA-to-RCA lead from your turntable to this input if you are using a Moving Magnet cartridge.
- If your turntable includes a ground lead wire, it can be connected to the PHONO GND (refer to item 7).

4 LINE IN
- Input for line level sources such as CD player, tuner or any compatible devices. Use dual RCA-to-RCA cable to connect the source device's left and right "Audio Output" to these line input ports.
- The sources will appear as "Line Input" in the navigation drawer of the BluOS App.

5 PRE OUT
- Use dual RCA-to-RCA cable to connect PRE OUT to the corresponding analog audio input of compatible devices such as amplifiers, receivers or other applicable devices. This makes it possible to use the C 700 V2 as a preamplifier to such devices.

6 SUBW (SUBWOOFER) OUT
- Connect SUBW OUT to the low level input of corresponding powered subwoofer.
- Any frequency below the selected crossover point (accessible through the BluOS App) will be routed through SUBW OUT. The default crossover setting is 80Hz.

7 PHONO GND
- Use this ground terminal to connect to ground PHONO sources like phono preamplifiers and turntables.
- To connect the ground lead wire from a phono preamplifier or turntable to the C 700 V2 phono ground terminal, unscrew first the terminal to expose the hole. Insert the lead into the hole and then tighten the terminal to secure the connection.

8 OPTICAL IN/COAXIAL IN
- Connect to corresponding optical and coaxial digital output of sources such as CD or BD/DVD players, digital cable box, digital tuners and other applicable components.

9 HDMI eARC
- Connect to TV that supports HDMI Control (CEC) and Audio Return Channel (ARC) or Enhanced Audio Return Channel (eARC) functions. HDMI CEC, ARC and eARC functions are possible if external devices that also support these features are interconnected to C 700 V2 via HDMI connection.
- Use HDMI cable to connect HDMI ARC/eARC to corresponding HDMI ARC/eARC port of TV. Use HDMI cable that has Ultra High Speed HDMI Certification Label to enjoy support for larger bandwidth and high bitrate format.
- With ARC/eARC connection established, C 700 V2 will output audio signal from TV.

IDENTIFICATION OF CONTROLS

REAR VIEW

IMPORTANT
- *Ensure that the audio setting/format of ARC/eARC-connected devices to C 700 V2 is set to PCM only.*
- *Only audio output signal from TV is supported by HDMI eARC port.*
- *The HDMI eARC port on the C 700 V2 does not support video output.*

10 SERVICE
- These USB port and tact switch are for servicing purposes only. Not for consumer use.

11 LAN/USB
LAN
- LAN connection must be setup for wired connection to be established. Set up a Wired Ethernet broadband router with broadband internet connection. Your router or home network should have a built-in DHCP server to consummate the connection.
- Using a standard straight-through Ethernet cable (not supplied), connect one end of the Ethernet cable to the LAN port of your wired Ethernet broadband router and the other end to C 700 V2's LAN port.

NOTES
- *NAD is not responsible for any malfunction of the C 700 V2 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.*

USB
- Connect to this USB port a USB drive formatted as FAT32 or NTFS.
- Upon detection of the connected USB drive, an onscreen prompt appears in the BluOS App and also in the front panel display.
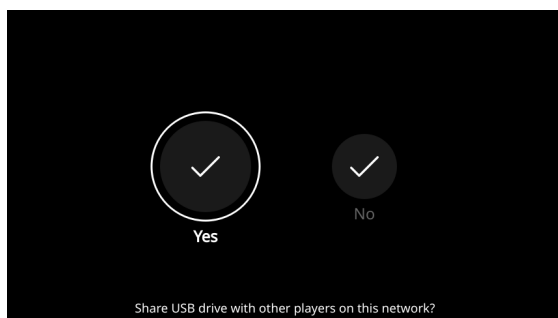
Yes: USB drive is shared with other players on the network from the local Library. Select "Library" from the BluOS App to access the shared USB drive files.
No: USB drive access is restricted only to C 700 V2. The connected USB drive appears as a Local Source (USB) in the BluOS App. Access and playback music stored in the connected USB drive by selecting "USB" from the BluOS App.

12 STANDBY BUTTON
- Press Standby button to switch C 700 V2 from network standby mode or vacation mode to operating mode.

NETWORK STANDBY MODE
With Amplifier Standby set to Enabled (Settings → Player → Amplifier Standby), the C 700 V2 will automatically switch to network standby mode after 15 minutes of no user interaction or active source input. The C 700 V2 maintains network connection at network standby mode with reduced system performance.

When the C 700 V2 enters network standby mode, the front panel display turns off but the Status Indicator (NAD logo) remains illuminated in white.

To wake up C 700 V2 from network standby mode, proceed with any of the following steps:
- Press rear panel Standby button
- Press front panel VOLUME-MENU knob
- Press ⏻ button of BC1 remote control
- Stream content to C 700 V2 using the BluOS App

Power consumption at network standby mode is less than 3W.

VACATION MODE
To activate vacation mode, hold down the rear panel Standby button until the Status indicator (NAD logo) starts flashing amber and then turns to solid amber.

When set to vacation mode, the C 700 V2 will completely power off with no network or amplifier activity, making it inaccessible via the network or the BluOS App.

To wake up C 700 V2 from vacation mode, proceed with any of the following steps:
- Press rear panel Standby button
- Press ⏻ button of BC1 remote control

The Status Indicator (NAD logo) will change from amber to solid white.

In Vacation Mode, power consumption is less than 0.5W.

13 SPEAKERS
- Connect C 700 V2's Right speaker terminals marked "R +" and "R-" to the corresponding "+" and "-" terminals of your designated right speaker. Repeat the same for C 700 V2's Left speaker terminals and corresponding left speaker.

14 AC MAINS INPUT
- The C 700 V2 comes supplied with two separate mains power cords. Select the mains 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 C 700 V2's AC Mains input socket.
- Always unplug the power cord from the mains power outlet before disconnecting the other end of the power cord from C 700 V2's AC Mains input socket.
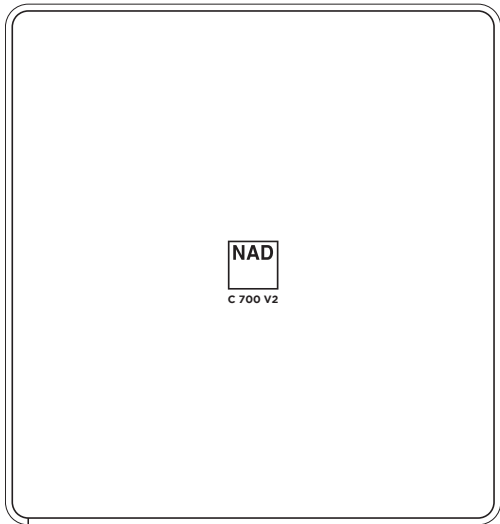
STATUS INDICATOR (NAD LOGO)

- This indicator will be amber when C 700 V2 is in vacation mode.
- When C 700 V2 is powered up from vacation mode, this indicator will change from amber to solid white.

Table of the color blink codes of the NAD logo indicator and their corresponding descriptions.

BLINK CODES	DESCRIPTION
Flashing red	Upgrade mode
Flashing red	Powering up, rebooting, booting up
Solid red	Cannot boot up; drive error
Solid amber	Vacation mode
Solid white	Indexing
Solid white	Connected to network – ready to use with BluOS App

SAMPLE DISPLAY SCREEN

NOW PLAYING
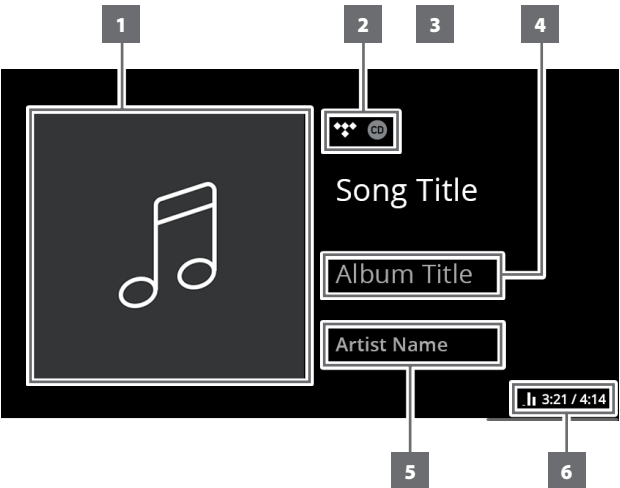
1 Album art cover
2 Logo or icon for music service provider or media source
3 Information about Song title
4 Information about Album title
5 Information about Artist name
6 Playback indicator, current song's elapsed playback time and total playback time

IDENTIFICATION OF CONTROLS

BC1 REMOTE CONTROL

The BC1 remote control operates at a distance of at least 23 feet (7 meters). Two AAA batteries should be fitted in the battery compartment at the rear of the remote control handset. Ensure that the batteries are correctly oriented and installed as indicated on the base of the battery compartment.

USING BC1 REMOTE CONTROL

1 **LED indicator:** Blinks whenever a command is sent.

2 **⏻:** Switch from network standby mode (no display) to operating mode and vice-versa

3 **🔇:** Temporarily switch off or restore audio. Press again or adjust Volume level to restore audio.

4 **▲VOL▼:** Increase or decrease volume level

5 **☀:** Vary brightness level of the front panel display and Status Indicator (NAD logo)

6 **EQ:** Toggle to select through saved Dirac Filter settings (with optional Dirac Live kit setup and configured)

7 **▲/▼:** User defined. Function can be assigned via IR Learning.
▶: Go to the next song/file
◀: Go to the beginning or previous song/file
ENTER: Start or pause playback

8 **1 to 10 numbered buttons:** Select Preset number
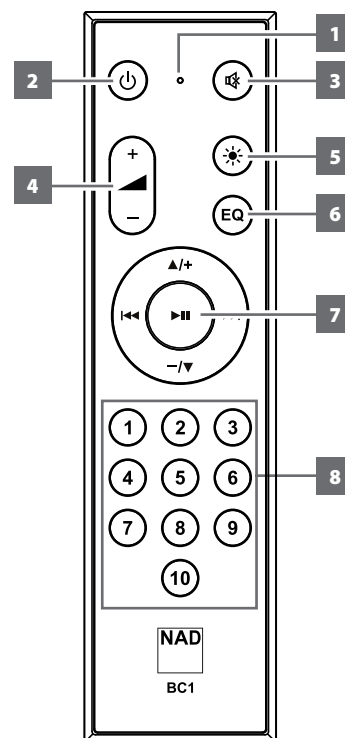
PRESETS

Using the Preset buttons on the BC1 remote control, you can easily switch between Preset 1 through 10 without opening the BluOS app. Presets are setup and configured via the BluOS App.

PROGRAMMING

Both ▲ and ▼ buttons on the navigation dial of the BC1 remote control are not assigned any commands and are programmable. Using the BluOS App, you can assign or program applicable commands to these buttons via IR Learning (Settings ➔ Player ➔ IR Remote ➔ IR Learning).

CHANGING IR CHANNELS

If you have multiple NAD and Bluesound players in your home and want to control them with your BC1 remote control, you can adjust the IR Channel setting on the remote to prevent unintended commands from being sent to your other players.

IMPORTANT

Ensure your BC1 remote control works correctly with your C 700 V2 by having them both configured and set to the same IR Channel.

Changing the IR Channel Setting on your BC1 Remote Control
The BC1 remote control can be programmed from IR Channel 0 to IR Channel 7.
1 To change the IR Channel setting on your BC1 remote control, press and hold both ⏻ button and the Preset number button corresponding to your desired IR Channel. Release both buttons when the LED indicator starts flashing.
2 To change to IR Channel 0, press and hold both ⏻ button and Preset 10.

Changing the IR Channel on your C 700 V2
To change the IR Channel being used by your C 700 V2
1 Open the BluOS App.
2 Select the player (C 700 V2) you would like to configure the IR Channel setting.
3 Go to Settings ➔ Player ➔ IR Remote ➔ BluOS Remote.
4 Select the IR Channel setting (Channel 0 to Channel 7). For your BC1 remote control and C 700 V2 to work together, the IR Channel setting of C 700 V2 must be the same as that of the BC1 remote control.

The C 700 V2 can be setup or configured via the Setup Menu options.

HOW TO BRING UP SETUP MENU OPTIONS

Press and hold VOLUME-MENU knob until **Sources**, **My Presets** and **Settings** options (below) are shown in the front panel display.
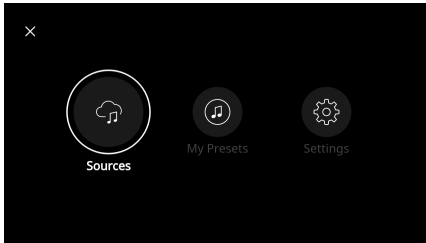
## NAVIGATING THE SETUP MENU OPTIONS

Use the following guidelines to navigate the Setup menu options with the front panel **VOLUME-MENU** knob and ❬ ❭ buttons.

ACTIVITY/ACTION INTENDED	PROCESS
Select a menu item Save a setting or option	Press VOLUME-MENU knob
Select through (up, down, left, right) menu options	Rotate VOLUME-MENU knob clockwise or counterclockwise May require pressing VOLUME-MENU to select or confirm desired menu/option
Select On, Off, Enable, Disable or other options in a line menu item	Press/toggle VOLUME-MENU knob
Adjust value for a function, option or setting	Press/toggle either ❬ ❭ button to effect the desired change/value
Close current menu window or return to previous menu window	Rotate VOLUME-MENU knob counterclockwise to select **X** or ←︎ (normally located in the upper left corner of menu window) and press VOLUME-MENU knob

MENU OPTIONS

SOURCES
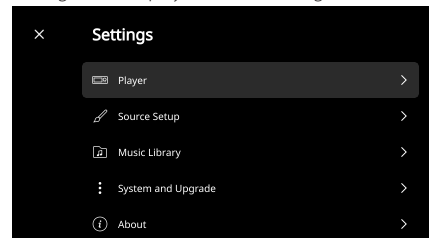
Select preferred Source to access or playback contents
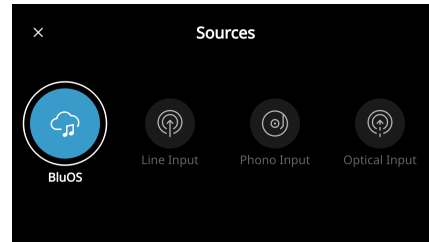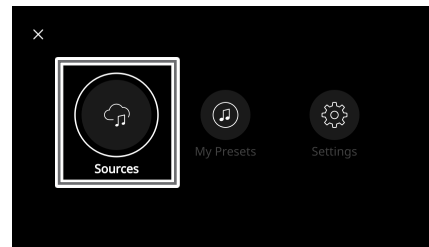
PRESETS

Use BluOS App to program into Presets your favorite radio stations, music streams, playlists or Sources
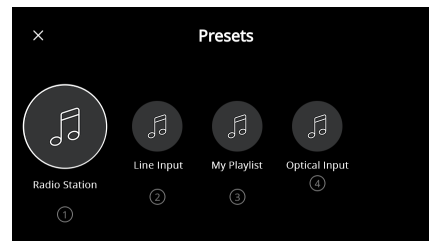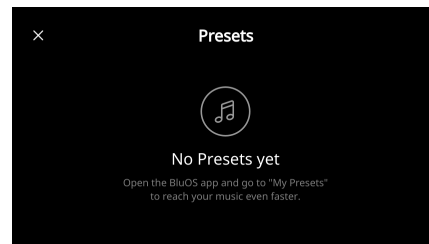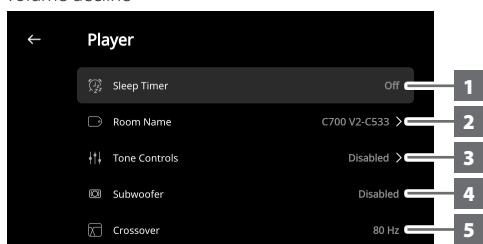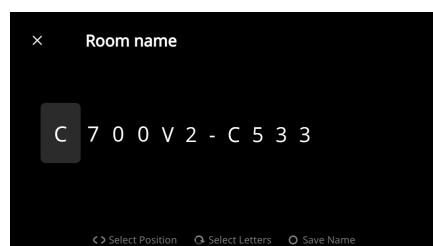

SETTINGS

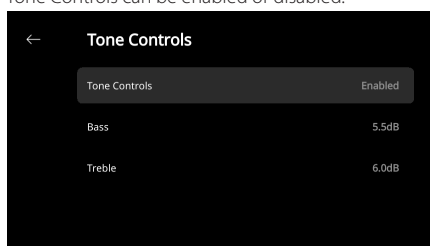Configure or display C 700 V2 settings

11

Player

1 **Sleep Timer:** Stop playback after a set amount of time via gentle volume decline

2 **Room Name:** Create a customized room name for the C 700 V2


3 **Tone Controls:** Boost or reduce Bass and Treble response levels. Tone Controls can be enabled or disabled.

4 **Subwoofer:** Enable or disable connected Subwoofer

5 **Crossover:** The subwoofer will reproduce only low frequency information below the selected crossover setting.
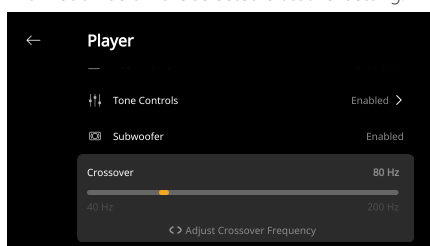
6 **Auto LCD Brightness:** Automatically adjusts the LCD display brightness according to the ambient lighting.
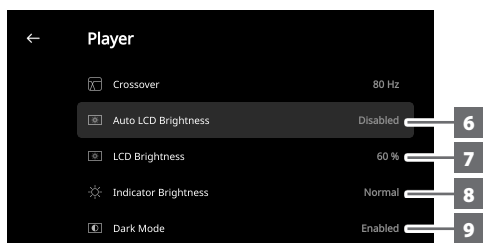

7 **LCD Brightness:** Adjust front panel display brightness level

8 **Indicator Brightness:** Change NAD logo indicator brightness to Normal, Dim or Off

9 **Dark Mode:** Background of Front View display for particular source is either dark (enabled) or bright (disabled).

10 **Amplifier Standby:** Maintain network connection at network standby mode

Enabled: C 700 V2 automatically switches to network standby mode after 15 minutes of no user interaction or active source input. The C 700 V2 maintains network connection at network standby mode with reduced system performance. To wake up C 700 V2 from network standby mode, stream content to C 700 V2 using the BluOS App or press any of the following buttons - rear panel Standby button, front panel VOLUME-MENU knob and ⏻ button of BC1 remote control.

Disabled: C 700 V2 will not enter network standby mode even with prolonged no user interaction or active source input.
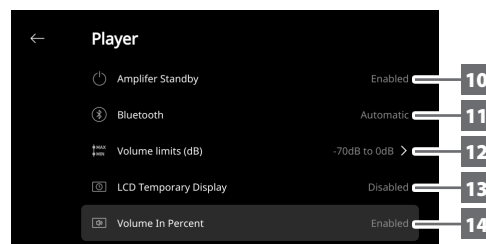

11 **Bluetooth:** Set Bluetooth connection to Manual, Automatic, Guest or Disable Bluetooth availability

12 **Volume limits (dB):** Set lower limit and upper limit of volume level in dB units

13 **LCD Temporary Display:** Enabled mode will turn off front panel display temporarily after 30 seconds of non-user interface. To restore the front panel display while in this mode, simply press front panel ‹ › buttons or rotate VOLUME-MENU knob. Disabled mode will keep the front panel display active.

14 **Volume In Percent:** Volume level is displayed in percent when enabled. At disabled mode, volume level is displayed in dB.
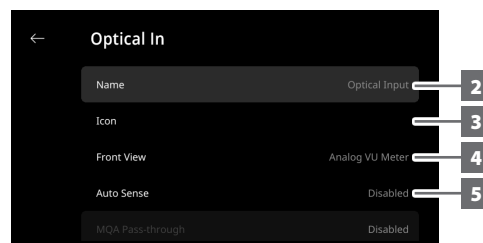
SOURCE SETUP
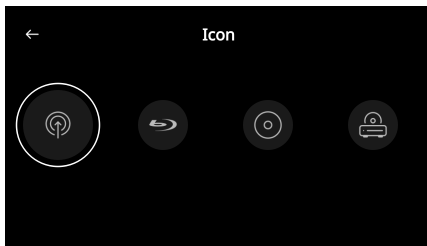
Select and configure Source

1 **Sources:** Select Source to configure
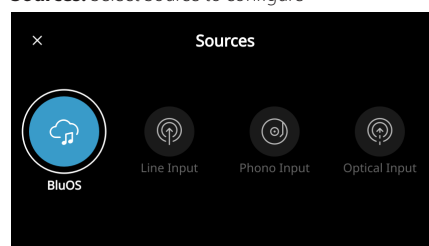
2 **Name:** Customize the Source's Name

3 Icon: Select and assign icon for the selected Source

4 Front View: Front panel display layout and contents can be configured by selecting the following options
- Album Only, Album and Text, Album, Text and VU, Text Only
- Source (Simple), Source (Detailed)
- Analog VU meter, Digital VU

A combination of above options is available depending upon the Source selected.

Text Only
- Display album name, song title, artist name, broadcast/radio station, name, title of the show, etc.

Album Only
- Display album/title art, station ID symbol or icon only

Album and Text
- Display album/title art, station ID symbol, icon and other information like album name, song title, artist name, broadcast/radio station name, title of the show, etc.

Album, Text and VU
- Display all the information indicated above for Cover Art and Meta Data plus VU meter

Source (Simple)
- Display Source name only which is "BluOS" or name of Cloud or Radio Service

Source (Detailed)
- Display Source name or name of Cloud or Radio Service plus other information like volume level

Analog VU Meter
Digital VU Meter
- VU Meter monitors or reflects audio input level of current BluOS source. If "Mute" is enabled, the VU meter will not turn off or go to minimum level as it is the audio output that is muted.

5 Auto Sense (applicable only for Optical Input, Coaxial Input and HDMI Sources): Wake up from network standby mode when triggered by an active Optical Input, Coaxial Input or HDMI Source.

6 MQA Pass-through (applies only to Coaxial and Optical Sources): Enable MQA Pass-through for the C 700 V2 to act as MQA decoder or renderer when MQA certified CD player or other MQA certified devices are connected to coaxial or optical input ports.
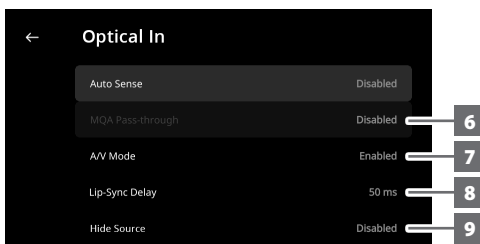
7 A/V Mode: By connecting your TV or other video sources to your C 700 V2 through analog, coaxial, optical or HDMI input ports, you can listen to the audio of your favorite shows or movies through your BluOS system. Grouping multiple BluOS devices from one of these inputs can require an abundance of network traffic. A/V mode creates a short and unobtrusive buffer to your audio to ensure your BluOS system stays in sync with your video even with slower or cluttered networks.

Enabled: With A/V Mode enabled on your input source, audio delay will be automatically adjusted to keep your grouped BluOS devices in sync with the video source connected. Use the Lip-sync delay slider below the A/V Mode setting to manually adjust the lower end of this delay to better suit the speed of your network.

Disabled: When your C 700 V2 is connected to an audio source without video, such as a turntable or CD player, the A/V Mode setting should be disabled.

8 Lip-Sync Delay: With A/V Mode enabled, "Lip-sync delay" can be adjusted to ensure your audio is staying in sync over your network with the original video source. By varying "Lip-sync delay" from 50ms to 150ms, one can delay the audio output to synchronize it with the video image of the corresponding source.
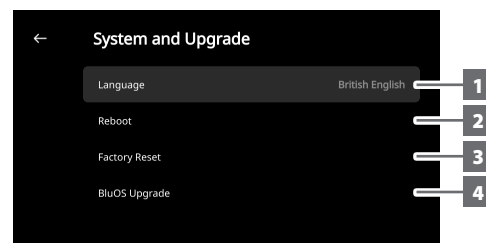
9 Hide Source: Activate or deactivate selected Source

MUSIC LIBRARY
Reindex Library: Music library will be scanned for any newly added, deleted, or updated files, ensuring that these changes are incorporated into the BluOS app.
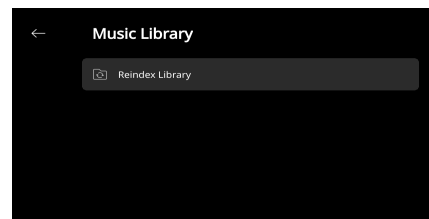
SYSTEM AND UPGRADE

1 Language: Front panel display items will be shown in the language selected.
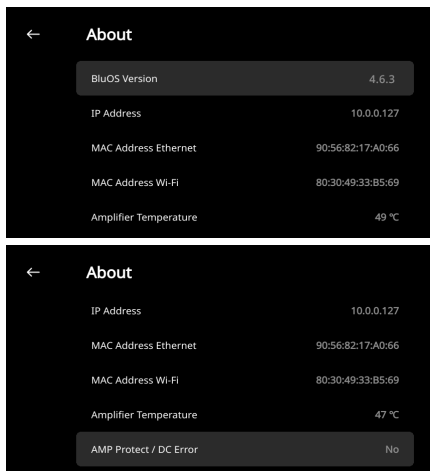**2 Reboot:** Cycle power by powering off and powering back the unit
3 Factory Reset: Restore to factory default settings
4 BluOS Upgrade: Select "BluOS Upgrade" to initiate BluOS upgrade mode. When "BluOS Upgrade" prompt appears, select "Yes" to start BluOS upgrade process. Follow the display screen prompt to complete the upgrade procedure.

ABOUT

Display information about the following parameters

About	
BluOS Version	4.6.3
IP Address	10.0.0.127
MAC Address Ethernet	90:56:82:17:A0:66
MAC Address Wi-Fi	80:30:49:33:B5:69
Amplifier Temperature	49 ℃

About	
IP Address	10.0.0.127
MAC Address Ethernet	90:56:82:17:A0:66
MAC Address Wi-Fi	80:30:49:33:B5:69
Amplifier Temperature	47 ℃
AMP Protect / DC Error	No

- Show current or detected information about **BluOS firmware version, IP Address, MAC Address Ethernet** and **MAC Address Wi-Fi**
- **Amplifier Temperature:** If the internal temperature of the amplifier channel reaches 91 degrees centigrade, C 700 V2 will turn off automatically and a protect message will be shown in the display. Once the temperature falls below 80 degrees centigrade, C 700 V2 will turn on again and the protect message display will be cleared.
- **AMP Protect/DC Error:** If an internal fault is detected, "Yes" is shown in the display along with a message prompt instructing the user to hard cycle the power of the C 700 V2 - this is required to clear the error. "No" indicates the unit is operating as intended.
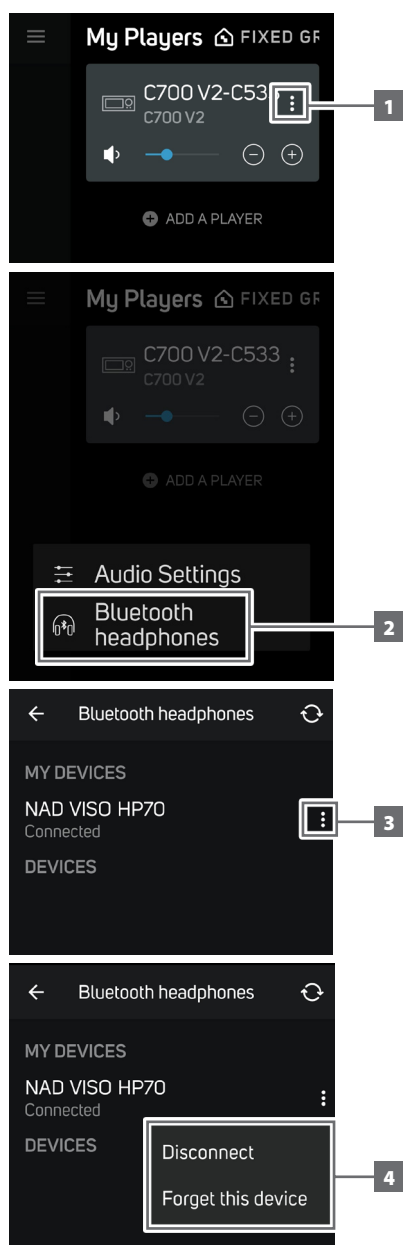
BLUETOOTH HEADPHONE/SPEAKER PAIRING

Bluetooth headphones/speakers can be paired to your C 700 V2 using the BluOS App.

CONNECT
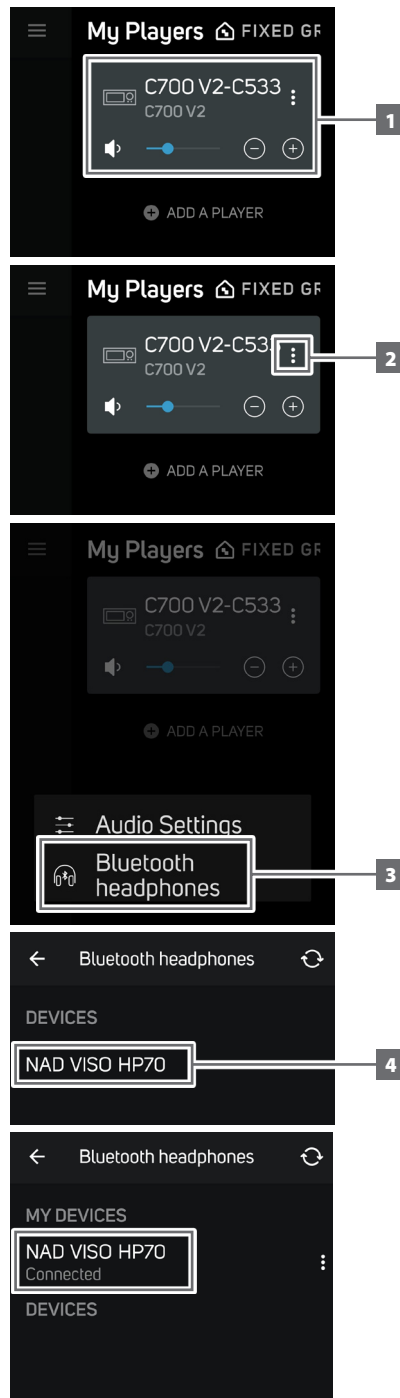
DISCONNECT/FORGET DEVICE

MASTER QUALITY AUTHENTICATED

Master Quality Authenticated (MQA) is a revolutionary end-to-end technology built into C 700 V2 that captures and delivers master quality audio. C 700 V2 includes a powerful decoder and audio renderer for the MQA system. This ensures that MQA-encoded audio files sound exactly like the source. C 700 V2 playback and decodes MQA content from BluOS sources. MQA indicators are both shown in the front panel display and in the BluOS app.

MAKING THE MOST OF YOUR C 700 V2

Download the BluOS App for iOS and Android devices as well as Windows and macOS desktops from their respective Application stores and BluOS downloads page - https://bluos.io/downloads

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.

Visit **support.bluesound.com** for more information about setup and operation guidelines of your C 700 V2.

REFERENCE

SPECIFICATIONS

GENERAL SPECIFICATIONS	
Rated output power into 8 ohms	80W (ref. 20 Hz – 20 kHz at rated THD both channels driven)
Rated output power into 4 ohms	100W (ref. 20 Hz – 20 kHz at rated THD both channels driven)
THD (20 Hz - 20 kHz)	<0.05% (250mW to 80W 8 ohms)
	<0.04% (250mW to 100W 4 ohms)
Signal-to-Noise Ratio	>87 dB (A-weighted, ref.1W out 8 ohms 500 mV input)
Clipping power	>86 W (ref. 1 kHz 0.1% THD 8 ohms)
	>102 W (ref 1 kHz 0.1% THD 4 ohms)
IHF dynamic power	8 ohms: 100W 4 ohms: 125W
Damping factor	>115 (ref. 20 Hz – 20 kHz 8 ohms)
Frequency response	±0.3 dB (20 Hz – 20 kHz)
Tone controls	Treble: ±6.0 dB at 20 kHz
	Bass: ±6.0 dB at 60 Hz
Channel separation	>89 dB (1 kHz)
	>78 dB (10 kHz)
Input sensitivity (for 80W in 8 ohms)	Line In: 616 mV
	Digital In: -10.65 dBFS
Network Standby mode	<3W
Vacation mode	<0.5W

PHONO IN, PRE OUT	
THD (20 Hz – 20 kHz)	<0.5% at 2V out
Signal-to-Noise Ratio	>81 dB (A-weighted ref. 500 mV out 200 ohms source)
Input impedance (R and C)	46 kohms/100 pF
Input sensitivity	4.5 mVrms (ref. 2V 20 Hz - 20 kHz)
Frequency response	±0.3 dB (ref. 20 Hz - 20 kHz)
Maximum input signal at 1 kHz	<27 mVrms (ref. 0.1% THD)

SUBWOOFER OUT	
Maximum output level	5V (ref. 20 Hz 0.1%)
Signal-to-Noise Ratio	>90 dB (ref. 1V A-weighted)
	>96 dB (ref. 2V A-weighted)
THD+N	<0.007% (ref. 2V 20Hz)
Output impedance	600 ohms

BluOS SECTION

AUDIO

Supported Audio File Formats	MP3, AAC, WMA, WMA-L, OGG, ALAC
Supported Hi-Res Audio File Formats	FLAC, MQA, WAV, AIFF
Sampling Rates	up to 192 kHz
Bit depths	16 – 24

CONNECTIVITY

Network connectivity	Ethernet RJ45, Gigabit 1000 Mbps Wi-Fi 5 (802.11ac), dual band
3rd Party integrations	AirPlay 2
Bluetooth codec	Bluetooth 5.0 aptX HD
Bluetooth connectivity	Two-Way (Receive and Headphone modes)
USB	Type A (FAT32 or NTFS formatted)

USER INTERFACE

Supported operating system	Music playback from network shares on the following desktop minimum system requirement: Microsoft Windows version 10 and macOS versions 10.15
Mobile Application	Download BluOS App for iOS and Android devices as well as Windows and macOS desktops from their respective Application stores and BluOS downloads page - https://bluos.io/downloads
Remote control	BC1 remote control

SUPPORTED SERVICES *

Music services	Amazon Music, Bugs, CustomChannels, Deezer, IDAGIO, KKBOX, Napster, Neil Young Archives, nugs.net, Pandora, Presto Music, Qobuz, QPlay, Qsic, SOUNDMACHINE, Spotify, TIDAL, Tunify
Free internet radio	Calm Radio, SiriusXM, iHeartRadio, LiveOne, Audacy, Radio Paradise, TuneIn
Integration services	Control 4, Crestron, ELAN, Lutron, Push, Roon, RTI, URC
Digital Assistant	Amazon Alexa, Siri

DIMENSION AND WEIGHT

Unit gross dimensions (W x H x D) **	218 x 96 x 266 mm 8 5/8 x 3 13/16 x 10 1/2 inches
Net weight	3.0 kg (6.7 lbs)
Shipping weight	4.7 kg (10.3 lbs)

*   Some supported services are not available in all geographic regions due to copyright laws and licensing agreements. Check supported services availability in your area or region.
**   Gross dimension includes feet, volume knob and extended rear panel terminals.

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Visit www.NADelectronics.com for the latest M10 V3 information.