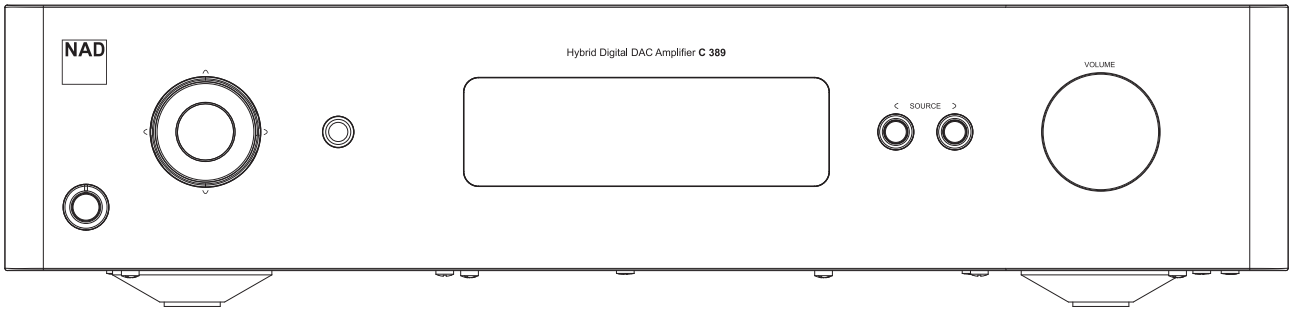
ENGLISH

C 389

Hybrid Digital DAC Amplifier



Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS

ENGLISH

- **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.

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

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.
- 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.
- An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.

MPE REMINDER

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.

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

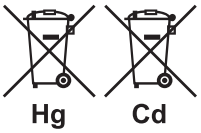
NOTES ON ENVIRONMENTAL PROTECTION

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)



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.

INTRODUCTION

TABLE OF CONTENTS

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WHAT'S IN THE BOX

Packed with your C 389 you will find

- Two detachable mains power cord
- SR 10 remote control with 2 AA batteries
- Bluetooth antennas
- Quick Setup Guide

SAVE THE PACKAGING

Please save the box and all of the packaging in which your C 389 arrived. Should you move or need to transport your C 389, this is the safest container in which 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!

CHOOSING A LOCATION

Choose a location that is well ventilated (with at least several inches to both sides and behind), and that will provide a clear line of sight, within 25 feet / 8 meters, between the C 389's front panel and your primary listening/viewing position—this will ensure reliable infrared remote control communications. The C 389 generates a modest amount of heat, but nothing that should trouble adjacent components.

RESTORING C 389 TO FACTORY DEFAULT SETTINGS

Press and hold both front panel's ❮ SOURCE ❯ buttons until the display shows the following two reset options. Use ❮ or ❯ buttons to select through the options.

- **Factory Reset MCU? :** Restore MCU factory default settings only
- **Factory Reset BluOS? :** Restore BluOS factory default settings only. This option is available only if the optional MDC2 BluOS D is installed.

Press [ENTER] to select "Yes" and initiate selected Factory Reset option.

IMPORTANT

Restoring C 389 to factory default settings will delete all applicable configured or saved settings.

FORCE FACTORY RESET

1. Switch OFF rear panel POWER switch. Leave the unit powered down for at least 5 seconds.
2. Press and hold rear panel RESET button and then switch ON the rear panel POWER switch.
3. Continue hold of the rear panel RESET button. Front panel display will show
   SERVICE MODE
   PLEASE WAIT
4. Do not release hold of the rear panel RESET button. Continue hold of the rear panel RESET button until front panel display changes to show
   SERVICE MODE
   PERFORMING FACTORY RESET

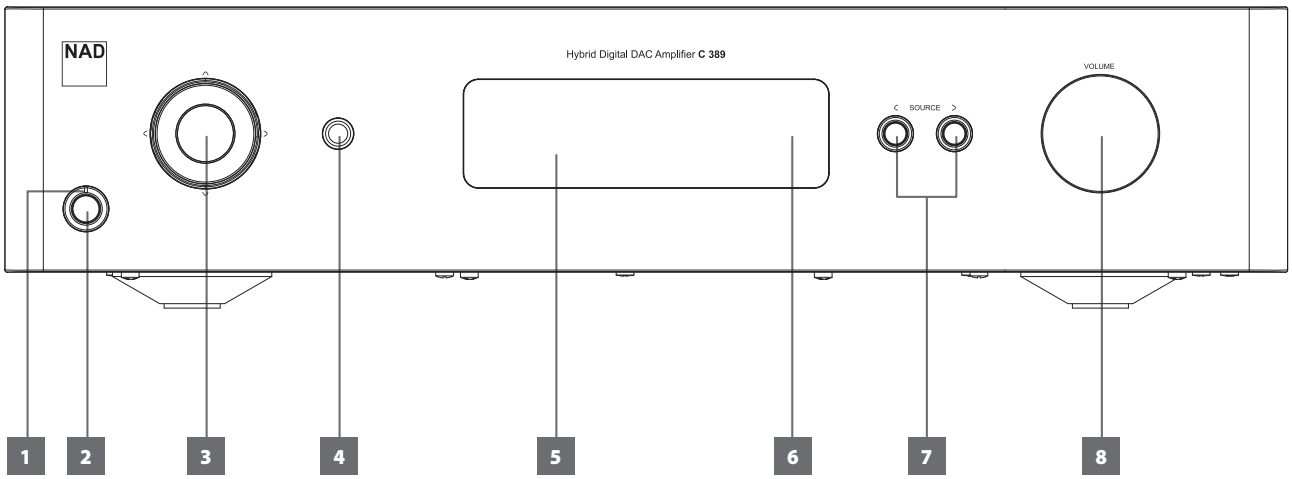
   Release hold of the rear panel RESET button.
5. Unit will reboot and stay in Standby mode (amber). Unit is restored to factory default settings.

NOTE

Force factory reset does not include resetting the MDC2 BluOS D card if installed.

IDENTIFICATION OF CONTROLS

FRONT PANEL



1 POWER INDICATOR

- This indicator will be amber when the C 389 is in standby mode.
- When the C 389 is powered up from standby mode, this indicator will change from amber to blue color.

2 STANDBY BUTTON

- Press Standby button to switch ON the C 389 from standby mode. The Power indicator will change from amber to blue color.
- Pressing Standby button again switches back C 389 to standby mode. The Power indicator will change from blue to amber color.
- The Standby button cannot activate the C 389 if the rear panel POWER switch is off.

IMPORTANT NOTES

Conditions for Standby button to activate

a Connect the plug of the supplied power cord to a mains power outlet while ensuring that the other end of the power cord is firmly connected to C 389's AC Mains input socket.

b The rear panel POWER switch must be set to ON.

3 NAVIGATION AND ENTER BUTTONS

- The navigation [∧/∨/</>] and [ENTER] buttons are used to go through menu options and selections.
- Use [∧/∨/</>] to go up, down, left or right the given options or selections.
- The middle round button is designated as [ENTER] button. This is normally pressed to complete a selection, procedure, sequence or other applicable functions.

4 HEADPHONES

- A 1/4" stereo jack socket is supplied for headphone listening and will work with conventional headphones of any impedance.
- The volume, tone and balance controls are operative for headphone listening. Use a suitable adapter to connect headphones with other types of sockets, such as 3.5mm "personal stereo" jack plugs.
- Inserting a headphone jack into this socket automatically switches off output at SPEAKERS, PRE-OUT and SUB-OUT.

5 DISPLAY

- Visual and menu information are shown according to the selected settings.
- The following Main menu options are selectable from the display – Settings, Source Setup and System Info.
- Use the SR 10 remote control or front panel navigation [∧/∨/</>] and [ENTER] buttons to go through menu options and selections.

6 REMOTE SENSOR

- Point the SR 10 remote control at the remote sensor and press the buttons.
- Do not expose the remote sensor of the C 389 to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the C 389 with the remote control.

Distance: About 23ft (7m) from the front of the remote sensor.
Angle: About 30° in each direction of the front of the remote sensor.

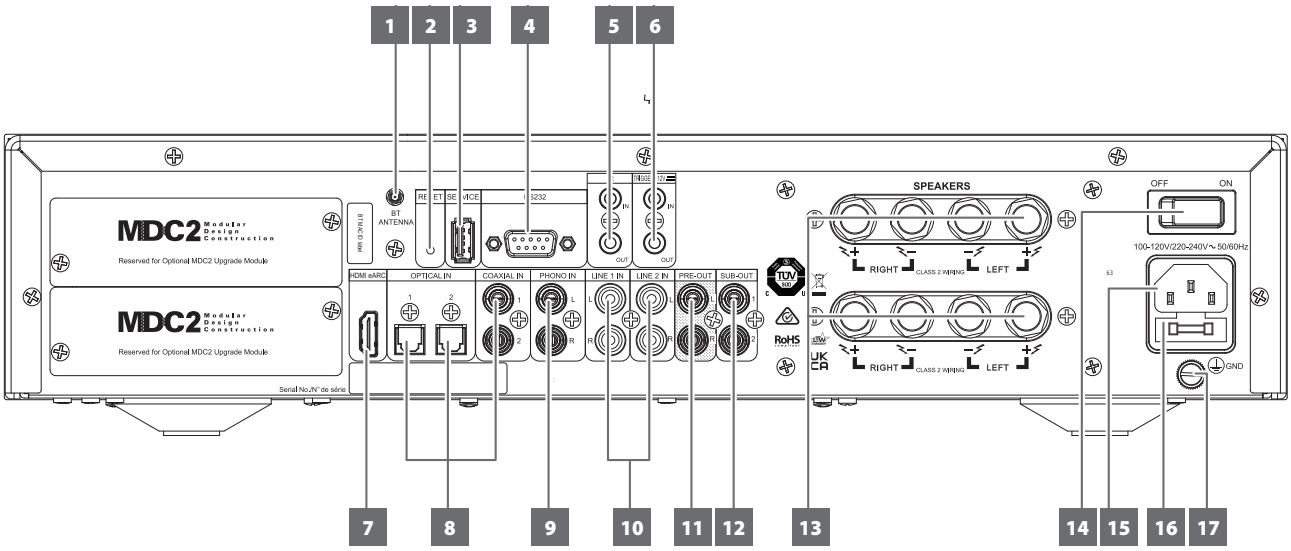
7 < SOURCE >

- Press < SOURCE or SOURCE > to select Sources.

8 VOLUME

- The VOLUME control adjusts the overall loudness of the signal sent to the speakers. The Volume control is characterized by perfect signal tracking and channel balance. It provides a highly linear and low noise operation.
- Turn clockwise to increase the volume level and counterclockwise to lower it.
- The default volume level is -20dB.
- Volume level will wake up and reset to the -20 dB default setting if the unit goes to standby mode with a variable volume level higher than -20 dB. However, if volume level is lower than -20 dB when the unit goes to standby mode, that level setting will be preserved when the unit wakes up.

REAR PANEL



ATTENTION!

Please ensure that the C 389 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 BLUETOOTH ANTENNA TERMINAL

- Install supplied Bluetooth antenna to this Bluetooth antenna terminal.

2 RESET

- It is not recommended to use RESET button unless necessary. Use the RESET function button when everything else fails and the unit may not be able to recover.
- Switched OFF the rear panel POWER switch. Press and hold the RESET button and switch ON the rear panel POWER switch. There will be two scenarios as you hold on to the RESET button
  - Hold on to the RESET button for less than 30 seconds: Initiate chassis USB stick Upgrade or BluOS MDC card upgrade if a BluOS card is installed.
  - Hold on to the RESET button for more than 30 seconds: Initiate chassis factory reset.
- Contact your nearest service center for further guidance on how to use RESET function button.

3 SERVICE

- Use for USB firmware update. Contact your nearest service center for firmware update guidance.

4 RS 232

NAD is a certified partner of AMX and Crestron and fully supports these external devices. Check out the NAD website for information about AMX and Crestron compatibility with NAD. See your NAD audio specialist for more information.

- Connect this interface using RS-232 serial cable (not supplied) to any Windows compatible PC to allow remote control of the C 389 via compatible external controllers.
- Refer to the NAD website for information about RS232 Protocol documents and PC interface program.

5 IR IN/IR OUT

- These mini-jacks accept and output remote-controlled codes in electrical format, using industry-standard protocols, for use with "IR-repeater" and multi-room systems and related technologies.
- All NAD products with IR IN/IR OUT features are fully compatible with the C 389. For non-NAD models, please check with your other product's service specialists with respect to their compatibility to the C 389's IR features.

IR IN

- This input is connected to the output of an IR (infrared) repeater (Xantech or similar) or the IR output of another compatible device to allow control of the C 389 from a remote location.

IR OUT

- Connect IR OUT to the IR IN jack of a compatible device.
- Command and control the linked compatible device by directing its own remote control to C 389's infrared receiver.

6 +12V TRIGGER

+12V TRIGGER OUT

- The +12V TRIGGER OUT is used for controlling external equipment equipped with a +12V trigger input.
- Connect this +12V TRIGGER OUT to the other equipment's corresponding +12V DC input jack using a mono cable with 3.5mm male plug.
- This output will be 12V when the C 389 is ON and 0V when it is either OFF or in standby mode.

IDENTIFICATION OF CONTROLS

REAR PANEL

+12V TRIGGER IN

- With this input triggered by a 12V DC supply, the C 389 can be switched ON remotely from standby mode by compatible devices such as amplifiers, preamplifiers, receivers, etc. If the 12V DC supply is cut off, the C 389 will return to standby mode.
- Connect this +12V Trigger input to the remote device's corresponding +12V DC output jack using a mono cable with 3.5mm male plug. The controlling device must be equipped with a +12V trigger output to use this feature.

NOTE

If there is a stereo jack connected to +12V TRIGGER IN, the C 389 cannot be powered ON/OFF using the front panel Standby button or SR 10's ON/OFF buttons. The stereo jack has to be unplugged to resume normal powering up of the unit via front panel Standby button or SR 10's ON/OFF buttons.

7 HDMI eARC

- Connect to TV that supports HDMI Control (CEC) and Enhanced Audio Return Channel (eARC) functions. HDMI CEC or eARC functions are possible if external devices that also support these features are interconnected with C 389 via HDMI connection.
- Use HDMI cable to connect HDMI eARC to corresponding HDMI 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 eARC connection established, C 389 will output audio signal from TV.

IMPORTANT

- *Ensure that the audio setting/format of eARC-connected devices to C 389 is set to PCM only.*
- *Only audio output signal from TV is supported by HDMI eARC port.*
- *There is no video output at HDMI eARC port of C 389.*

8 OPTICAL 1-2/COAXIAL 1-2

- Connect to the 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 PHONO

- 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/earth lead, it can be connected to the Ground Terminal (refer to item 17 below).

10 LINE 1-2 IN

- Input for line level sources such as CD player, tuner or any compatible devices. Use a twin RCA-to-RCA lead to connect the source device's left and right "Audio Output" to these line input ports.

11 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 389 as a pre-amplifier to such devices.

12 SUB OUT 1, 2

- Connect SUBW 1 and/or 2 to the low level input of corresponding powered subwoofer.
- Anything below your crossover setting (accessible via BluOS Controller App with optional MDC2 BluOS D installed) will be sent out via SUB OUT. Default crossover setting is 80Hz.

13 SPEAKERS

- The C 389 features two sets of speaker connections that function identically and operating in parallel. Both set of speakers can be turned on or off simultaneously via Settings - Speaker menu or using either SPKA or SPKB buttons on the SR 10 remote control.
- Connect C 389's Right speaker terminals marked "R +" and "R-" to the corresponding "+" and "-" terminals of your designated right speaker. Repeat the same for C 389's Left speaker terminals and corresponding left speaker.
- Double check the speaker connections before powering up the C 389.

IMPORTANT NOTES

- *The blue terminals must never be connected to ground (earth).*
- *Never connect the blue terminals together or to any common ground device.*
- *Do not connect the output of this amplifier to any headphone adapter, speaker switch or any device that uses common ground for left and right channels.*

14 POWER

- Supplies the AC mains power to C 389.
- When the POWER switch is set to ON position, the C 389 goes to standby mode as shown by the amber status condition of the front panel Power indicator.
- Press the front panel Standby button or SR 10's remote control's [ON] button to switch ON the C 389 from standby mode.
- If you do not intend to use the C 389 for long periods of time (such as when on vacation), switch off the POWER switch.
- With POWER switched off, neither the front panel Standby button nor SR 10 remote control's [ON] button can activate the C 389.

15 AC MAINS INPUT

- The C 389 comes supplied with two separate mains power cords. Select the mains power cord appropriate for your region.
- Before connecting the plug to the mains power outlet, ensure that it is firmly connected to the C 389's AC Mains input socket.
- Always disconnect the mains power plug from the mains power outlet before disconnecting the cable from the C 389's AC Mains input socket.

16 FUSE HOLDER

- Only qualified NAD service technicians can have access to this fuse holder. Opening this fuse holder may cause damage thus voiding the warranty of your C 389.

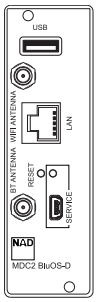
17 GROUND TERMINAL

- Ensure that the C 389 is plugged-in to a grounded AC wall outlet.
- If necessary, use this ground terminal to connect to ground a phono or turntable source for PHONO input.
- If a separate earth ground is necessary, use this terminal to ground your C 389. The C 389 can be connected to ground by connecting a ground lead wire or similar to this terminal. After insertion, tighten the terminal to secure the lead.

MDC2 UPGRADE SLOTS

C 389 supports NAD's MDC2 architecture. By enabling two-way communications between the module and component, MDC2 opens up the future for new upgrades.

MDC2 BLUOS-D



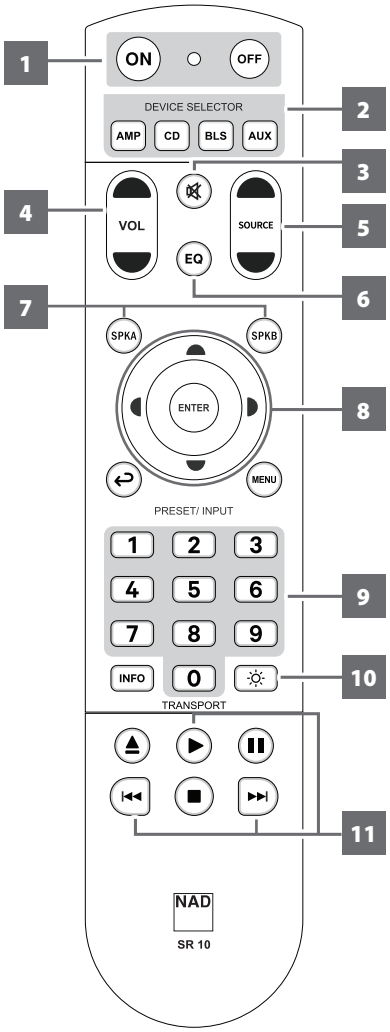
The optional MDC2 BluOS-D module lets listeners play music from their favourite streaming services through the C 389. MDC2 BluOS-D is equipped with Wi-Fi and Ethernet and uses the acclaimed BluOS Controller app for Android, iOS, macOS, and Windows.

Like all BluOS-enabled products, the MDC2 BluOS-D has integrated support for dozens of streaming services and supports Apple AirPlay 2, Spotify Connect, and Tidal Connect. Two-way communications also enable the MDC2 BluOS-D to stream music from sources connected to the C 389 to BluOS-enabled components in other rooms.

The MDC2 BluOS-D comes with Dirac Live® Limited Bandwidth (20Hz – 500Hz) installed with the option for advanced users to upgrade to the Dirac Live Full Frequency version. Dirac Live function lets you measure your room's acoustics using a supplied microphone and intuitive app, and then upload correction curves to the MDC2 BluOS-D. By compensating for acoustic anomalies in your listening environment, Dirac Live dramatically improves bass clarity, imaging, and timbral accuracy. Thanks to its two-way architecture, the MDC2 BluOS-D performs room correction for all sources connected to your C 389. For Dirac Live Setup guidelines, go to **support.nadelectronics.com** and search for "Dirac Setup".

IDENTIFICATION OF CONTROLS

SR 10 REMOTE CONTROL



The SR 10 remote control handset handles the key functions of the C 389. It can also control up to 4 devices. SR 10 will operate up to a distance of 23ft (7m). Two AA 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.

NOTES

- *SR 10 function buttons not discussed, designated or highlighted indicate they are not applicable or functional for the particular device.*
- *The LED indicator between ON and OFF buttons will flash blue whenever a control button is pressed.*

Select **AMP** from the DEVICE SELECTOR buttons to initiate the following C 389 remote control commands.

1 **ON/OFF:** The SR 10 remote has separate ON and OFF buttons. Press ON to switch C 389 from Standby to operating mode. Press OFF to switch to Standby mode.

2 **DEVICE SELECTOR:** A Device Selector button determines only what component the SR 10 will command; it does not perform any function on the C 389. Press desired Device Selector button for the applicable buttons to be directed to a "page" of commands relevant to the selected device. Upon selecting a Device, you can now press the corresponding SR 10 control buttons applicable for the selected Device.

3 **MUTE:** Press **MUTE** button to temporarily switch OFF sound to the speakers and headphones. MUTE mode is indicated by "Mute" shown in the front panel display. Press **MUTE** again to restore sound. Adjusting the volume level via the SR 10 or the front panel volume knob will automatically release the mute function.

4 **VOL [▲/▼]:** Press [▲/▼] button to increase or decrease the volume level. Release the button when the desired level is reached.

5 **SOURCE [▲/▼]:** Toggle through Source input selections. If the optional MDC2 BluOS D module is installed, the Source selections will include Sources incorporated with the MDC2 BluOS D module.

6 **EQ:** With optional MDC2 BluOS D installed and Dirac Live calibration completed, use EQ to select available saved Dirac Filter settings.

7 **SPKA, SPKB:** The C 389 features two sets of speaker connections that function identically, operating in parallel and turning on or off simultaneously. Toggle either SPKA or SPKB to switch ON or OFF both SPEAKERS output at the same time.

8 **NAVIGATION AND ENTER BUTTONS:** Use [^/v/</>] to go up, down, left or right menu options or selections. Press ENTER to complete a selection, procedure, sequence or other applicable functions.

9 **SOURCE INPUT SELECTOR:** The numeric buttons allow for direct selection of Source input. Press corresponding number button to directly select Source.

1 Optical 1
2 Optical 2
3 Coaxial 1
4 Coaxial 2
5 Phono
6 Line 1
7 Line 2
8 HDMI eARC
9 Bluetooth

IMPORTANT NOTE

There are 9 maximum Sources with discrete IR codes and they are mapped out to SR 10 remote control Source Input Selector buttons 1 – 9.

- *If the optional MDC2 BluOS D module is installed, the chassis Bluetooth is disabled or becomes non-functional.*
- *With the optional MDC2 BluOS D installed, Source Input Selector "9" becomes assigned to "BluOS".*
- *USB and Bluetooth Sources that are incorporated in the MDC2 BluOS D are accessible via the BluOS App.*

- *Referring to below table, Optical 2 and Phono Sources were disabled under "MDC2 BluOS D Installed with some Sources disabled" column.*

  With Optical 2 and Phono Sources disabled, the Source Input Selector button allocations will shift to show only enabled Sources. Coaxial 1 will now move up or be assigned to "2", Coaxial 2 shifted to "3", Line 1 to "4" and so on.

- *It is your prerogative which Sources to disable with the expectation that the Source Input Selector buttons will be re-assigned accordingly.*

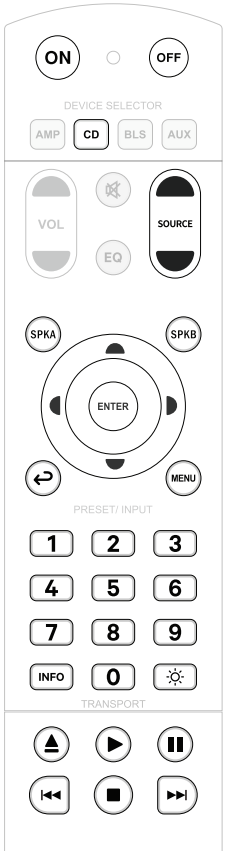
SR 10 CONTROL BUTTON (AMP MODE)	CORRESPONDING SOURCE		
	C 389 Default Settings	MDC2 BluOS D Installed	MDC2 BluOS D Installed with some Sources disabled
1	Optical 1	Optical 1	Optical 1
2	Optical 2	Optical 2	Coaxial 1
3	Coaxial 1	Coaxial 1	Coaxial 2
4	Coaxial 2	Coaxial 2	Line 1
5	Phono	Phono	Line 2
6	Line 1	Line 1	HDMI eARC
7	Line 2	Line 2	BluOS
8	HDMI eARC	HDMI eARC	Unassigned
9	Bluetooth	BluOS	Unassigned

10 ☼ **:** Toggle to vary brightness level of the front panel display - brighter, normal or dimmer.

11 With optional MDC2 BluOS D installed and while at BluOS Source, select
▶ : Toggle to start or pause playback
I◀◀ : Skip back to the beginning of current song
▶▶I : Skip forward to the next song

NOTE

Applicable only if optional MDC2 BluOS D is installed.



CD PLAYER CONTROL (applicable to most NAD CD Players): Select **CD** among the DEVICE SELECTOR buttons to gain access to the following applicable control buttons. Check the owner's manual of your applicable NAD CD Player for control button compatibility.

ON/OFF: Press ON to switch CD player from Standby to operating mode. Press OFF to switch to Standby mode.

SOURCE [▲/▼]: Press and hold to fast forward/reverse playback search

SPKA: Select CD as the active source
SPKB: Select USB as the active source
↩ : Select Optical as the active source
MENU: Toggle to select desired SRC mode

NUMERIC BUTTONS (1-9, 0): Use the numeric buttons to directly key-in and select track number of desired song

▲/▼: Select through folders
◀/▶: Select through files
ENTER: Select desired folder or file

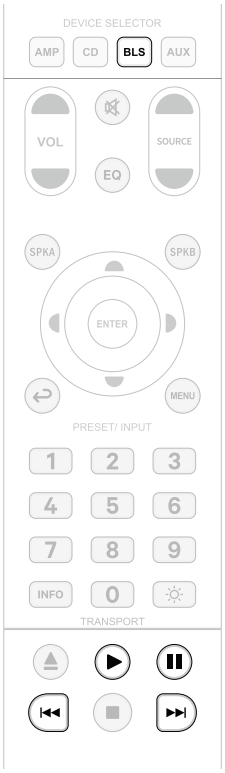
INFO: Show playback time and other display information
☼ **:** Reduce, turn off or restore display brightness

⏏: Open/close disc tray
▶: Start or pause playback
II: Pause playback temporarily
I◀◀: Skip back to the beginning of current song
▶▶I: Skip forward to the next song
■: Stop playback

IDENTIFICATION OF CONTROLS

SR 10 REMOTE CONTROL

BluOS PLAYBACK CONTROLS (applicable to NAD products with installed MDC BluOS or MDC2 BluOS D module) Select **BLS** among the DEVICE SELECTOR buttons to use the following control buttons for BluOS playback.

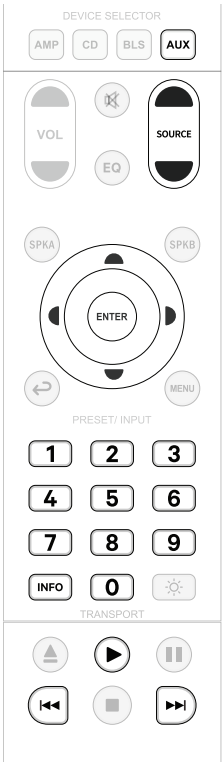


IMPORTANT

- *Ensure that your applicable NAD product is set to BluOS source.*

▶: Toggle to start or pause playback
II: Pause playback temporarily
I◀◀: Skip back to the beginning of current song
▶▶I : Skip forward to the next song

AUX PLAYER CONTROL (applicable to most NAD Tuners): Select **AUX** among the DEVICE SELECTOR buttons to gain access to the following applicable control buttons. The AUX device is defaulted to NAD Tuner device remote control codes.



SOURCE [◓/◒]: Step up or down between AM or FM frequencies

◓/◒: Step up or down between stored radio presets
◖/◗: Step up or down between AM or FM frequencies
ENTER: In AM/FM mode, toggle to select Preset or Tune mode. In DAB mode, press and hold to check signal strength.

NUMERIC BUTTONS (1-9, 0): Use the numeric buttons to directly key-in frequency number of desired AM or FM station

INFO: Toggle to display supplied information about the current radio station and applicable media being played. Some radio stations may not support any display information.

▶: Toggle to select AM, FM, DAB or XM band (if applicable)
I◀◀/ ▶▶I : Step up or down between stored radio presets

USING THE SR 10 REMOTE CONTROL LIBRARY

The SR 10 can store a different library of default NAD codes for each of its DEVICE SELECTOR "pages." If the original default library does not control your NAD CD player, BluOS player or Tuner, follow the procedure below to change the library code. Refer also to the table below for a list of applicable NAD Library Codes with their corresponding NAD models.

LOAD ANOTHER LIBRARY CODE

Example: Load NAD DVD Player T 517 library codes to SR 10's **AUX** device.

1. Press and hold **AUX** in the DEVICE SELECTOR section of SR 10.
2. While holding down the device button AUX, press **2** and **2** using SR 10's numeric buttons. **22** is the corresponding library code for T 517.
3. Press **ENTER** while still holding down **AUX** device button. The **AUX** device selector will flash once to indicate that the library input is successful. Both **AUX** device selector and **ENTER** buttons can now be released.

TABLE OF LIBRARY CODES APPLICABLE TO SR 10 REMOTE CONTROL

LIBRARY CODE	PRODUCT DESCRIPTION
10	Default library for "AMP" page
11	Zone 2
12	Default library for "AMP" page without discrete ON/OFF (toggle ON/OFF) buttons
20	Default library for "CD" page; C 515BEE, C 545BEE, C 565BEE
21	T 535, T 585, M55, DVD section of L 54, VISO TWO, VISO FIVE
22	T 513, T 514, T 515, T 517
23	T587
30	Default library for "BLS" page
31	IPD 2
40	Default library for "AUX" page. Loaded with Tuner default codes. Applicable also to Tuner section of C 725BEE, T 175, T 737,T 747, T 755, T 765, T 775, T 785
41	C 422, C 425
42	C 445
50	DAC

IMPORTANT

The SR 10 may not necessarily contain all the control buttons applicable for the above-mentioned NAD products. Use the prescribed remote control of the specific NAD product for a full complement of applicable remote control buttons.

RESET SR 10 TO ITS FACTORY DEFAULT SETTINGS

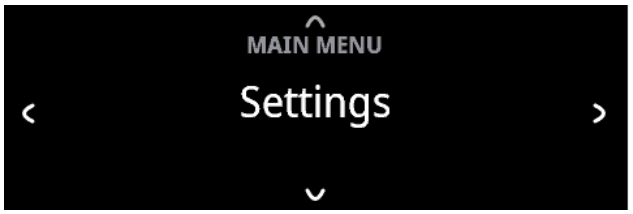
The SR 10 remote control can be restored to its factory default settings (including default libraries) by the following procedures.

1. Press and hold **ON** and ⏻ buttons.
2. As soon as **AMP** device button lights up, release hold of both **ON** and ⏻ buttons.
3. If the **CD** device button flashes twice, the SR 10 factory reset is completed.

OPERATION

USING C 389

ACCESS MAIN MENU



Press front panel [∨] button once for the Main Menu options to appear in the display. Use front panel < or > button to select through the Main Menu options – **Settings, Source Setup** and **System Info**.

NAVIGATING THE MENU OPTIONS AND MAKING CHANGES

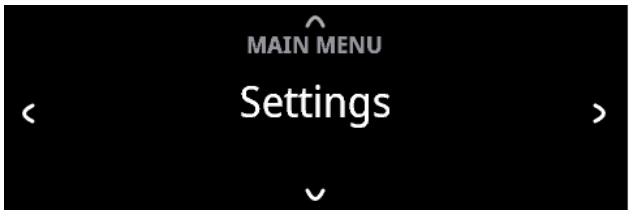
Navigate through the menu options using the front panel buttons or corresponding SR 10 buttons.

1. Press [∨] to select a menu item.
2. Repeatedly press [</>] to scroll through menu choices, options or selections.
3. Press [∧] or [ENTER] to select or save current selection or option and at the same time exit or return to the previous menu.

NOTE

Menu option will remain displayed and will only turn off or default to current Source after 1 minute of non-user interface.

SETTINGS



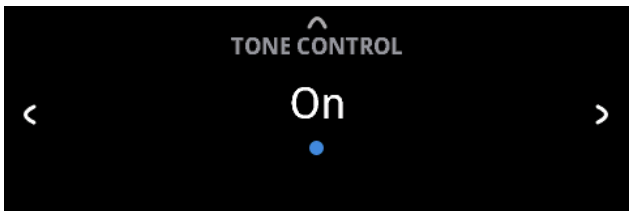
The "Settings" main menu allows the configuration of the following features:

- Tone Control
- Treble
- Bass
- Balance
- Auto Standby
- Bluetooth Mode
- Network Standby
- CEC Power
- IR Channel
- Brightness
- Temporary Display
- Speaker
- Volume Display Mode

NOTE

If the optional MDC2 BluOS D module is installed, additional MDC2 BluOS D built-in features or options will become available in the Settings menu.

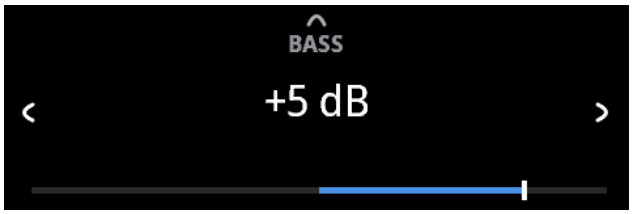
TONE CONTROL

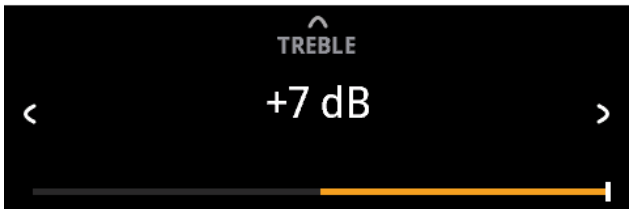


Tone control allows the boosting or reduction of particular audio frequencies. The tone control levels, Bass and Treble, can be turned on or off.

- **On:** Tone control levels are active. At Tone Controls On, Bass and Treble control levels are available for configuration.
- **Off:** Tone controls levels are bypassed. At Tone Controls Off, Bass and Treble control levels become unavailable or turned off from the Settings menu.

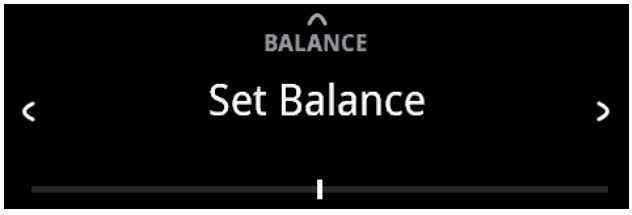
BASS, TREBLE, BALANCE





Bass and Treble controls only affect the low bass and high treble leaving the critical midrange frequencies free of coloration.

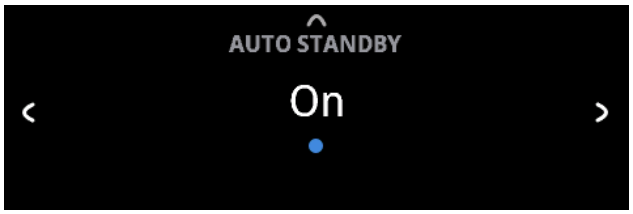
- Use [</>] to boost or cut Bass or Treble levels within ±7 dB range.



Balance control adjusts the relative levels of the left and right channels.

- Press [>] to shift the balance to the right or [<] to shift the balance to the left. Use [</>] also to recover or even out the balance levels.
- The center level setting provides equal level to the left and right channels.

AUTO STANDBY

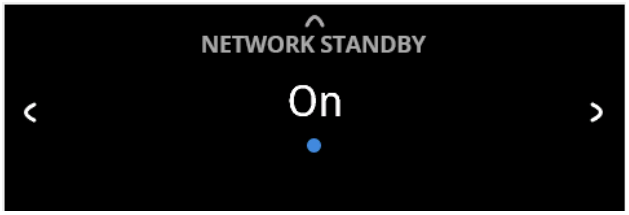


Auto Standby feature is an integral feature of C 389 that conforms to European ecodesign regulations. The C 389 can be setup to automatically go to standby mode if there is no user interface interaction and no active source input within 20 minutes.

On: C 389 switches to standby mode at lowest power consumption (less than 0.5W) if there is no user interface interaction and no active source input within 20 minutes.

Off: C 389 remains at operating mode even if there is no user interface interaction and no active source within 20 minutes.

NETWORK STANDBY

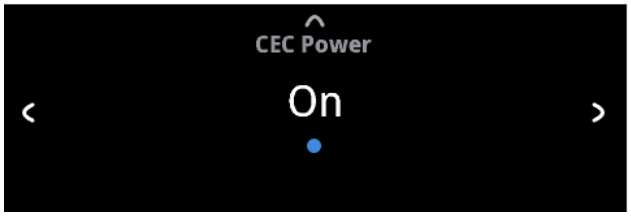


Network Standby mode maintains network connection at standby mode with reduced system performance level.

On: Network connection is maintained at standby mode.

Off: Network connection is disconnected at standby mode.

CEC POWER



HDMI CONTROL (CEC)

Consumer Electronics Control (CEC) is a set of commands that utilizes HDMI's two- way communication to allow for single remote control of any CEC-enabled devices connected with HDMI. A CEC command will trigger the necessary commands over HDMI for an entire system to auto-configure itself to respond to the command.

CEC Power Off: C 389 cannot be powered up or sent to standby mode by a CEC-enabled device.

CEC Power On: CEC-enabled device can power ON/OFF the C 389.

HDMI ENHANCED AUDIO RETURN CHANNEL (eARC)

Enhanced Audio Return Channel (eARC) is an advancement over the previous Audio Return Channel (ARC). eARC simplifies connectivity and provides greater ease of use for multiple components discovery and audio optimization.

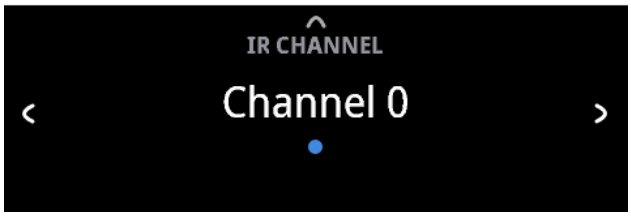
eARC enables the audio to a TV that originates from cable, satellite, streaming or source devices to be sent to C 389 through a single HDMI cable. This ensures the simplicity of connectivity and that the original audio can be experienced. HDMI eARC works with HDMI High Speed Cables with Ethernet and the new Ultra High Speed HDMI Cable.

eARC is the default mode for C 389 and will fallback to ARC if no eARC connection happens.

IMPORTANT!

- *Ensure that the audio setting/format of eARC-connected devices to C 389 is set to PCM only.*
- *Only audio output signal from a connected TV is supported by C 389's HDMI eARC port.*

IR CHANNEL



The C 389 has the capability to operate via Alternate IR channel. This is useful if you have two NAD products that can be operated by similar remote control commands. With alternate IR Channel, two different NAD products can be controlled independently in the same zone by setting each one to a different IR channel.

IR Channel Assignment

The C 389 and the SR 10 remote control must be set to the same channel.

To change the IR Channel on the C 389

While at IR Channel menu, use [<⁄>] to select through Channel 0 to Channel 7. Stop at the preferred IR Channel setting and press [^] to complete the selection. C 389 IR Channel is defaulted to Channel 0.

To change the IR Channel on the SR 10 remote control

- Include a channel number before the library code. For SR 10, library code "10" is the default library table for "AMP" device. To select this "AMP" library table for Channel 0, retain the library code "10" (or "010").
- If you want to load the "AMP" library table on "Channel 1" prefix the library code with "1" to indicate association with "Channel 1". Load then the "AMP" library table using the code "110". Repeat the same for MP (130) and TUNER (140).

SAMPLE SETUP OF TWO NAD PRODUCTS ON THE SAME ZONE

C 389 and T 758 are both defaulted to Channel 0. If [OFF] button is pressed on the SR 10 remote control (or AVR 4 remote control for the T 758), both products will go to standby mode. Press [ON] and both products will power up from standby mode.

To prevent both products from simultaneously going in and out of standby mode along with other common commands, set each one to a different IR channel. In this setup, we will keep T 758 and AVR 4 remote control defaulted to "Channel 0". As for C 389, we will assign it to "Channel 1"; the same applies to SR 10.

Set C 389 and SR 10 to "Channel 1" via the following procedure.

C 389

While at "IR Channel" menu, use the [<⁄>] to go to "Channel 1" setting. Press [^] to select "Channel 1".

SR 10

- Press and hold [AMP] in the DEVICE SELECTOR section of the SR 10.
- While holding down the device button [AMP], press "1", "1" and "0" using SR 10's numeric buttons.

OPERATION

USING C 389

- Press [ENTER] while still holding down the device button [AMP]. The AMP device selector will flash once to indicate that the library input is successful.

With both C 389 and SR 10 set to "Channel 1", the C 389 can now be remotely controlled independent of the T 758.

NOTE

Performing Factory Reset for C 389 or SR 10 will restore their respective IR channel setting to "Channel 0".

BLUETOOTH MODE

Bluetooth Mode defines the two roles of the C 389 as either a Bluetooth Sink or a Bluetooth Source.

Sink: Audio stream is received from a Source on the same Bluetooth network environment.

Source: Audio is streamed or sent to another device (Sink) on the same Bluetooth network environment.

IMPORTANT!

1 *Bluetooth Mode option is not available if the optional MDC2 BluOS-D is installed.*

2 *With no MDC2 BluOS-D installed and "Auto Sense" setting of Bluetooth source set to "On", C 389 will go to Network Standby mode under the following condition.*

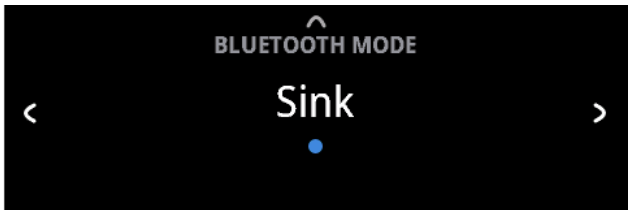
- *With a Bluetooth device connected or disconnected, C 389 will go to Network Standby mode if there is no user interface interaction and no active source input within 20 minutes.*

C 389 will wake up from Network Standby mode by pressing front panel Standby button or "OFF" button of SR 10 remote control or playback of Bluetooth connected device.

Power consumption at Network Standby mode is 0.6W.

3 *With no MDC2 BluOS-D installed and "Auto Sense" setting of Bluetooth source set to "Off", C 389 will go to Standby mode if there is no user interface interaction and no active source input within 20 minutes.*

C 389 AS A BLUETOOTH SINK

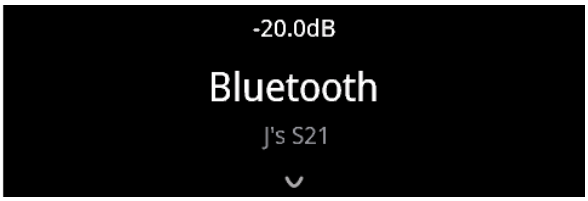


Set "Bluetooth Mode" to "Sink". Initiate pairing of your Bluetooth device with C 389 by following below procedure.

1 Ensure that the Bluetooth antenna is connected to the BT antenna terminal at the rear panel.

2 Using your iOS or Android device, go to Settings – Bluetooth and then scan for Bluetooth devices. Select the unique device ID (example, C389BT) of your C 389 as listed or selectable in the device list of your Bluetooth settings. Pair or connect your C 389 and the Bluetooth device.

3 Upon successful pairing of your Bluetooth device and the C 389, front panel display will show the connected Bluetooth device ID (J's S21 in this example).

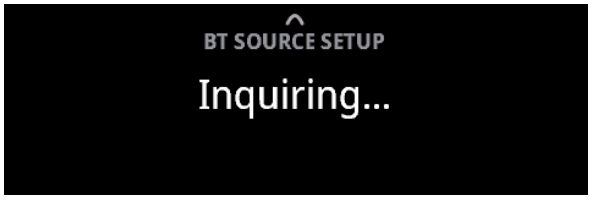


C 389 AS A BLUETOOTH SOURCE

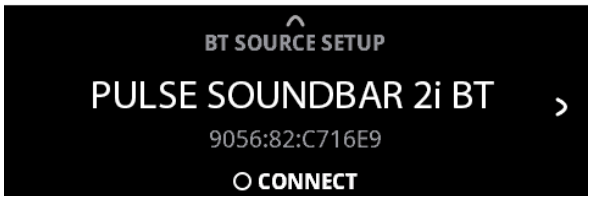
Set "Bluetooth Mode" to "Source". Ensure that the Bluetooth antenna is connected to the BT antenna terminal at the rear panel.

1 While at Bluetooth Source Mode, press ENTER to select "Source Setup".

2 "Disconnected" will appear in the display. Press ENTER to initiate inquiry (INQUIRE). The unit searches for available Bluetooth devices within the same Bluetooth network environment.



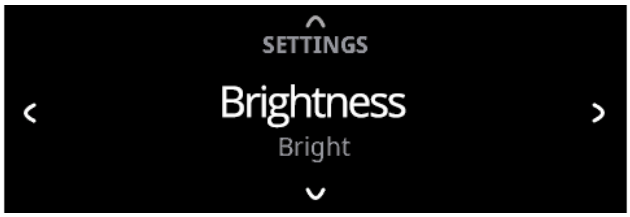
3 Toggle </> to select through available Bluetooth sources. Press to connect and select preferred Bluetooth Source.



If you would like to disconnect from current Bluetooth device, press ENTER to select DISCONNECT. Repeat steps 2 to 3 again to select and connect to another Bluetooth device.

4 Having settled on a Bluetooth Source device, toggle < SOURCE > to select the source media you would like streamed to the connected Bluetooth device. For example, if you want to stream audio from OPTICAL 1, select OPTICAL 1 as the active source. Note the Headphone and Bluetooth icons in the front panel display as indication that you are at Bluetooth Source Mode.

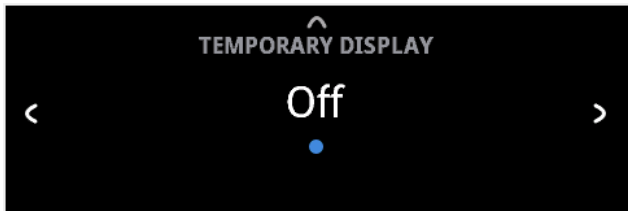
BRIGHTNESS



BRIGHTNESS function makes it possible to adjust the brightness level of the front panel display.

Normal: Display brightness level is normal.
Bright: Display is at its brightest level or above normal brightness level.
Dim: Display is dimmed or below normal brightness level.

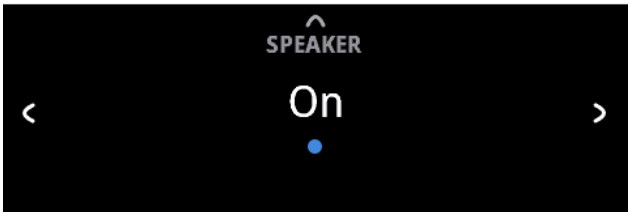
TEMPORARY DISPLAY



Temporary Display feature enables the display to be turned off temporarily after 30 seconds of non-user interface.

On: Display is turned off temporarily after 30 seconds of non- user interface. The Power Indicator LED is also turned off at the same time. Display and Power Indicator LED are activated once user interface is initiated.
Off: Display remains illuminated.

SPEAKER



Select "On" to enable speakers or "Off" to disable speakers.

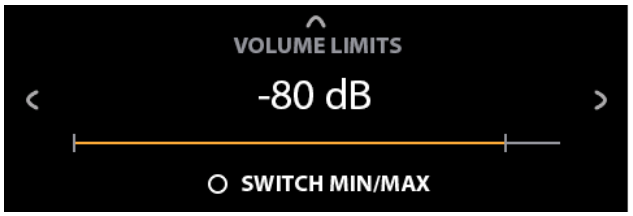
OPERATION

USING C 389

VOLUME DISPLAY MODE

Volume Display Mode gives the user two options on how to display Volume level. Use ❮ or ❯ to select between "Decibel" and "Percent" Volume display mode.

VOLUME LIMITS



Volume limit allows the setting up of the upper and lower limit of the volume control level. Modifying the upper or lower volume limits allows more fidelity when adjusting the volume level.

ADJUSTING VOLUME LIMITS

While at VOLUME LIMITS menu, toggle ENTER to switch between Minimum and Maximum Volume Limit options.

Minimum Volume Limit

Toggle or press and hold either navigation buttons ❮ or ❯ to adjust or set up the Minimum Volume Limit between -80 dB and -30 dB.

Maximum Volume Limit

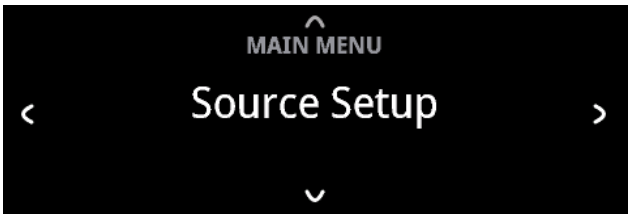
Toggle or press and hold either navigation buttons ❮ or ❯ to adjust or set up the Maximum Volume Limit between 12 dB and -50 dB.

NOTES

C 389 maintains a minimum span width of 40 dB between Maximum and Minimum Volume limits. For example, a maximum volume limit configuration of - 10 dB limits the range of the minimum volume limit adjustment from -80 dB to -40dB.

Conversely, a minimum volume limit configuration of -62 dB limits the range of the maximum volume limit adjustment from 12 dB to -32 dB.

SOURCE SETUP



Source Setup has the following menu items:

- Enable Source
- Name
- Volume Control
- Auto Sense
- Analog Bypass
- Analog Gain

At Source Setup menu, select the particular Source you want to configure.

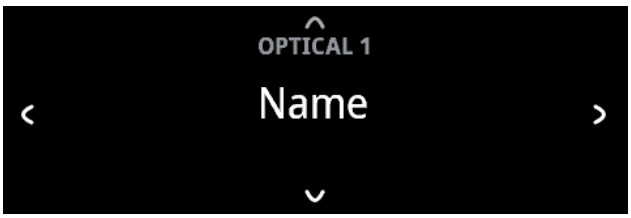
ENABLE SOURCE

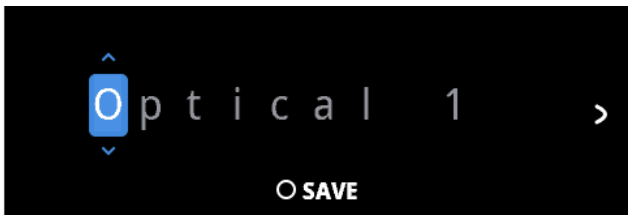
One can enable/disable a Source via this option. This is particularly useful if only few Sources are used thereby bypassing unused sources.

On: Enable selected Source.

Off: Disable selected Source.

NAME



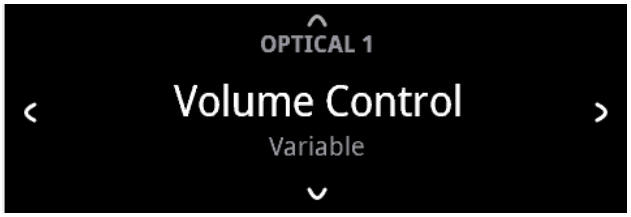


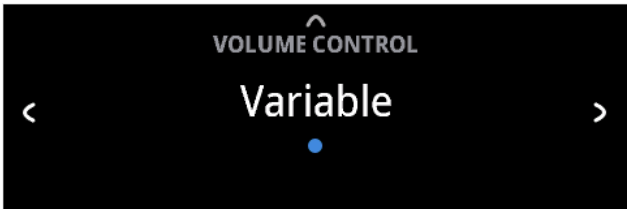
A new Name maybe assigned to a Source label. For example, if your BD player is attached to "Optical 1", it is possible to rename "Optical 1" to "BD Player".

In order to rename the Source label, select "Name" parameter.

1. While at the selected Source, for example "Optical 1", press ENTER to select "EDIT".
2. Use [∨/∧] to pick through the alphanumeric selections.
3. Press [❯] to move to the next character and at the same time save the changes done on the current character. The name can be as long as fourteen characters.
4. Repeat steps 1 and 2 for each character in sequence.
5. Complete the renaming process by pressing [ENTER button again to save the new source's input name. The new Name will be shown in the display.

VOLUME CONTROL





Volume control can be set to either Variable or Fixed level.

Variable: Volume level is adjusted using the volume knob or SR 10's [VOL▲/▼] buttons.

Fixed: Output level is fixed and the C 389's Volume Control is bypassed. This feature is sometimes referred to as "Cinema Bypass" because it allows the C 389 to be used for the front channels of a surround sound system by relegating the volume control function to the surround processor.

At Fixed volume level setting, front panel display will show "xx.x dB Fixed" as the volume control is adjusted.

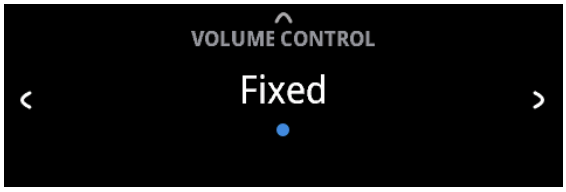
HOW TO NAVIGATE VOLUME CONTROL LEVEL SETTING

A While at "Volume Control" menu, press [∨].

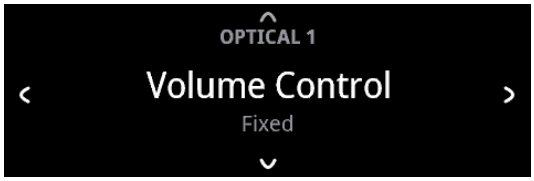
B Use front panel [<⁄>] or SR 10's [◖⁄◗] buttons to toggle between "Variable" and "Fixed" level options.

1 While at "Variable" option, use front panel [∧] or SR 10's [▲] button to select "Variable" level and return to "Source Setup" menu selections.

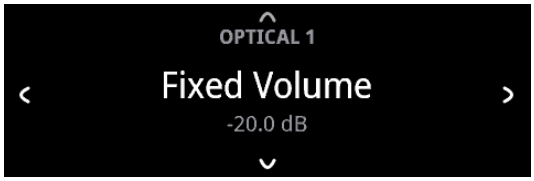
2 While at "Fixed" option, use front panel [∧] or SR 10's [▲] button to select "Fixed" level and return to "Source Setup" menu selections.



a With "Fixed" level selected and back to "Source Setup" menu selections, use front panel [<⁄>] or SR 10's [◖⁄◗] buttons to go "Fixed Volume" option. "Fixed Volume" manifests among "Source Setup" options only if "Fixed" is the selected "Volume Control" level.

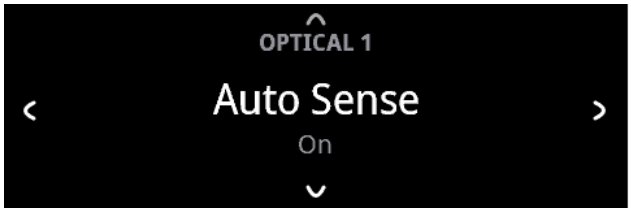


b Use [∨] button to go to Fixed Volume level setting.



c Use front panel [<⁄>] or SR 10's [◖⁄◗] buttons to set preferred dB level setting. Then, use front panel [∧] or SR 10's [▲] button to save dB level selection and exit Fixed Volume setup mode.

AUTO SENSE



Auto Sense can be setup for each Source. Auto Sense feature enables the designated Source to wake up from standby mode when an active source is detected from the particular Source's input.

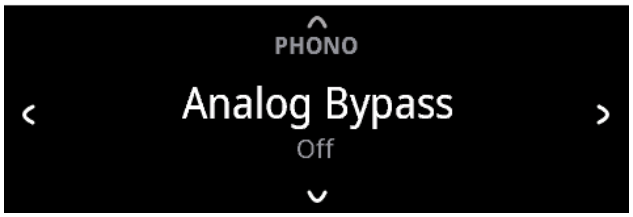
On: Unit wakes up to the designated Source from standby mode when an active source is detected from the particular Source's input.

Off: Unit does not wake up to the designated Source from standby mode even if it is triggered by an active source.

NOTES

- *Auto Sense is not applicable for Phono and BluOS (if installed) sources.*
- *Auto Standby must be set to ON for Auto Sense to work.*

ANALOG BYPASS



All analog signals remain in the analog domain without analog-to-digital conversions.

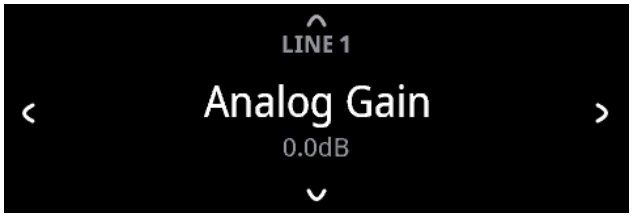
On: DSP circuitry is bypassed but full tone control functions remain.

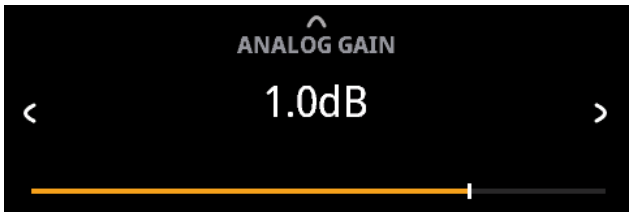
Off: Analog bypass feature is turned off.

NOTE

Analog Bypass is applicable only for Phono, Line 1 and Line 2 sources.

ANALOG GAIN



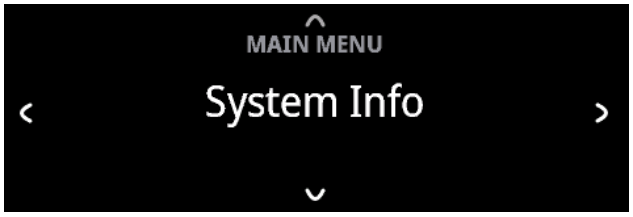


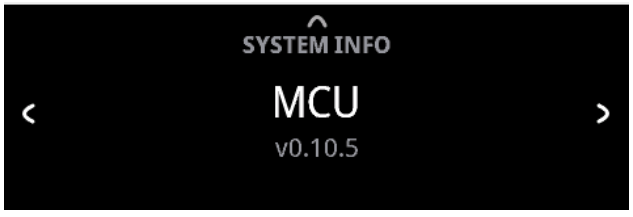
- Use front panel [<⁄>] or SR 10's [◖⁄◗] buttons to set preferred Analog Gain level.

NOTE

Analog Gain is applicable only for Phono, Line 1 and Line 2 sources.

SYSTEM INFO

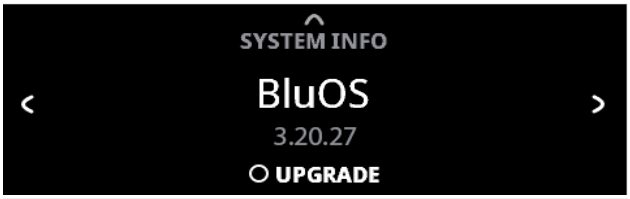


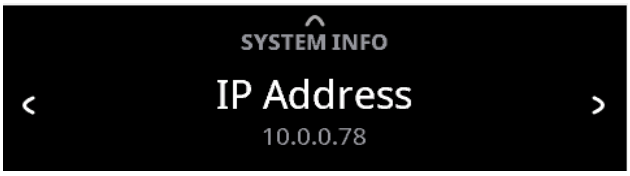


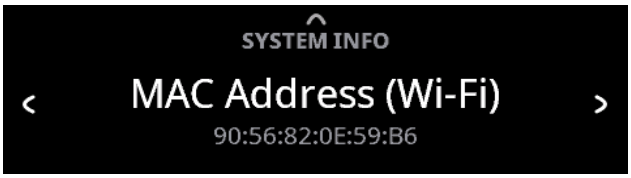
"System Info" displays information about current MCU, LCD and FPGA firmware versions.

Use [<⁄>] to toggle through the corresponding information.

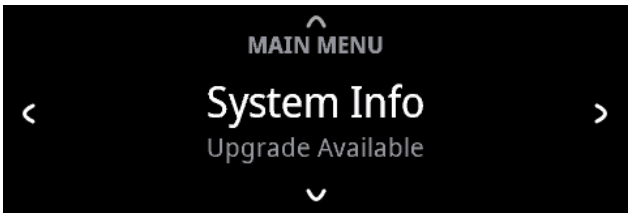
If the optional MDC2 BluOS D is installed, the BluOS firmware version, IP Address, MAC Address (Ethernet) and MAC Address (Wi-Fi) information are also shown.





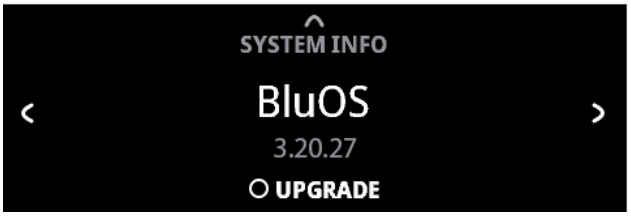


UPGRADE AVAILABLE



With the optional MDC2 BluOS D installed and C 389 connected to internet, "Upgrade Available" will be shown if a software upgrade is available.

If "Upgrade Available" is shown, use [⌄] to go to BluOS upgrade menu. Press [ENTER] to initiate upgrade mode. Internet software upgrade will proceed automatically.



All specs are measured according to IHF 202 CEA 490-AR-2008 standard. THD is measured using AP AUX 0025 passive filter and AES 17 active filter.

PREAMPLIFIER SECTION	
LINE INPUT, PRE-OUT (Analog bypass on)	
THD (20 Hz – 20 kHz)	<0.002 % at 2 V out
Signal-to-Noise Ratio	>100 dB (IHF; A-weighted, ref. 500 mV out, unity gain)
Channel separation	>100 dB (1 kHz)
	>90 dB (10 kHz)
Input impedance (R and C)	56.2 kohms + 100 pF
Maximum input signal	>2.35 Vrms (ref. 0.1 % THD)
Output impedance	Source Z + 330 ohms
Input sensitivity	257 mV (ref. 500 mV out, Volume maximum)
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Maximum voltage output -IHF load	>4.5 V (ref. 0.1 % THD)
PHONO INPUT, PRE-OUT (Analog bypass on)	
THD (20 Hz – 20 kHz)	<0.02 % at 2 V out
Signal-to-Noise Ratio	>80 dB (200 ohms source; A-weighted, ref. 500 mV out)
IHF dynamic power (two channels driven)	8 ohms: 145 W
Input Impedance (R and C)	46 kohms/100 pF
Input sensitivity	4.2 mV (ref. 500 mV out, Volume maximum)
Frequency response*	±0.3 dB (20 Hz - 20 kHz)
Maximum input signal at 1kHz	>38.8 mVrms (ref. 0.1 % THD)
LINE INPUT, HEADPHONE OUT (Analog bypass on)	
THD (20 Hz – 20 kHz)	<0.005 % at 1V out
Signal-to-Noise Ratio	>98 dB (32 ohms loads; A-WTD, ref. 1V out, unity gain
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Channel separation	>62 dB at 1kHz
Output impedance	2.2 ohms
GENERAL SPECIFICATIONS	
LINE INPUT, SPEAKER OUT (Analog bypass on)	
Continuous output power into 8 ohms and 4 ohms	150 W (ref. 20 Hz-20 kHz at rated THD, both channels driven)
THD (20 Hz – 20 kHz)	<0.02% (1W to 150 W, 8 ohms and 4 ohms)
Signal-to-Noise Ratio	>85 dB (A-weighted, 500 mV input, ref. 1 W out in 8 ohms)
Clipping power	>160W (at 1 kHz 0.1 % THD)
IHF dynamic power	8 ohms: 228 W
	4 ohms: 440 W
	2 ohms: 290 W
Peak output current	>20 A (in 1 ohm, 1 ms)
Damping factor	>140 (ref. 8 ohms, 20Hz to 6.5kHz)
Frequency response	±0.3 dB (20 Hz - 20 kHz)
Channel separation	>90 dB (1 kHz)
	>75 dB (10 kHz)
Input sensitivity (for 150 W in 8 ohms)	Line In: 301 mV
	Digital In: 14.65% FS
Supports bit rate/sample rate	up to 24 bit/192 kHz
Frequency band	2.402G- 2.480G
Maximum transmit power (dBm)	7 dBm ± 2 dBm
DIMENSION AND WEIGHT	
Gross dimensions (W x H x D) **	435 x 100 x 390 mm 17 1/8 x 4 x 15 3/8 inches
Net weight	8.7 kg (19.2 lbs)
Shipping weight	11 kg (24.3 lbs)

* - The RIAA response is consistent with a pre-emphasis that is rolled off at 50kHz by a second order filter, such as used in Neumann cutting lathes.
** - Gross dimension includes feet, volume knob and extended rear panel terminals.

Specifications are subject to change without notice. For updated documentation and features, please check out www.NADelectronics.com for the latest information about C 389.

www.NADelectronics.com

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