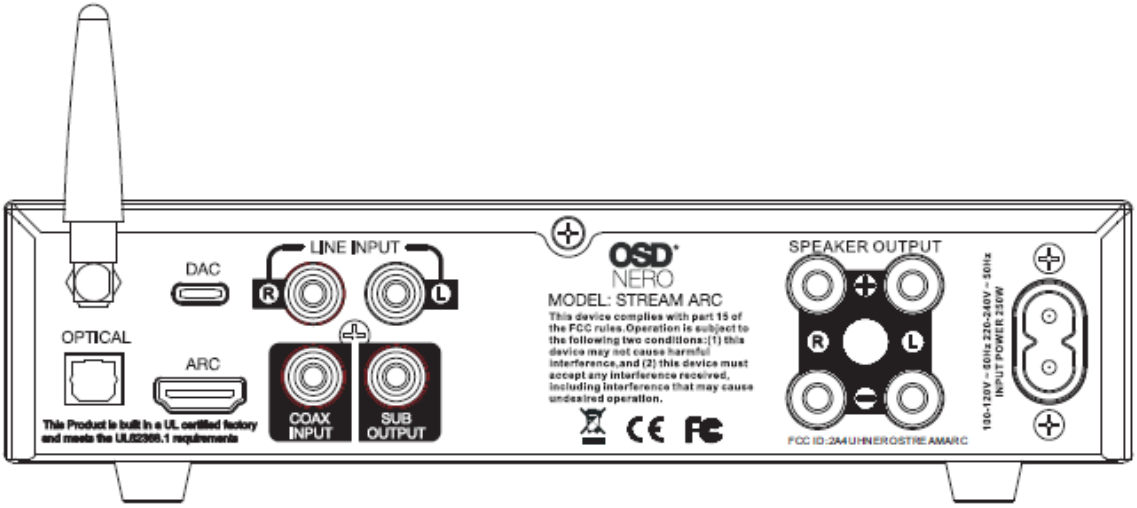


Stream ARC /BT Amplifier

Owner’s Manual

WARNING

- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
- TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, FULLY INSERT.

This lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the use to the presence of un-insulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN This lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the use to the presence of un-insulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.	The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying appliance.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3 Read all warnings.
4 Follow all Instruction.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. If the provided plugs does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit form the appliance.
11. Only use attachments or accessories specified by the manufacturer.
12. Unplug the apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in anyway, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

NERO ARC Integrated AMP/PREAMP Owner's Manual

NERO ARC Introduction

Integrated Amp/Preamp, 100-watt per channel RMS Class D Stereo Amplifier with ARC, Wireless, USB plus 3 other inputs, subwoofer output, and remote control. The OSD Nero ARC amplifier makes a great choice for improving the sound from your TV or computer speakers. This versatile amp's ARC, 24/192 USB Audio, BT Wireless, digital, and line-level Inputs ensure connectivity with your existing equipment. With Its range of 6 different inputs, it also makes a great stand-alone Integrated amp. Small enough to be mounted behind your TV. Add A bookshelf, floor-standing speakers, and a subwoofer to get Theater-quality sound. Alternatively, use in-wall speakers for an aesthetically pleasing solution. Improves your laptop or computer sound; connect using ARC, USB, or headphone outputs, add desktop speakers, and transform your home office audio experience. The front-mounted volume control makes it quick and easy to adjust the sound level.

Features

2 x 100 Watts RMS 4 Ohms, for high power sound

1 x 200 Watts peak power for maximum dynamics

Class D design for maximum efficiency and low-cost running

Greater than 95 dB SNR for low noise and clear sound

Six separate inputs, including ARC for TV and computer connection

Volume, Bass, and Treble controls allow you to 'dial in' exactly the sound you want

Auto stand-by turns the amp off when not being used.

ARC Connection

Connect the ARC-approved HDMI cable to the Input Port labeled ARC or eARC. The other end connects the ARC input on the back panel of the NERO ARC Integrated AMP/PREAMP. This will only work if both connections are ARC-ready. This allows the TV's audio output through the ARC connection and enables the CEC control between the TV and the NERO ARC device so that the TV remote control can control the NERO ARC without the need for Programming.

Note: You will most likely have to change the TV settings, disabling their internal speakers while enabling the audio output through the ARC port of the television. Some TVs may require adjustments for the ARC port to enable the CEC operation.

Connection Via Wireless BT Receiver Mode

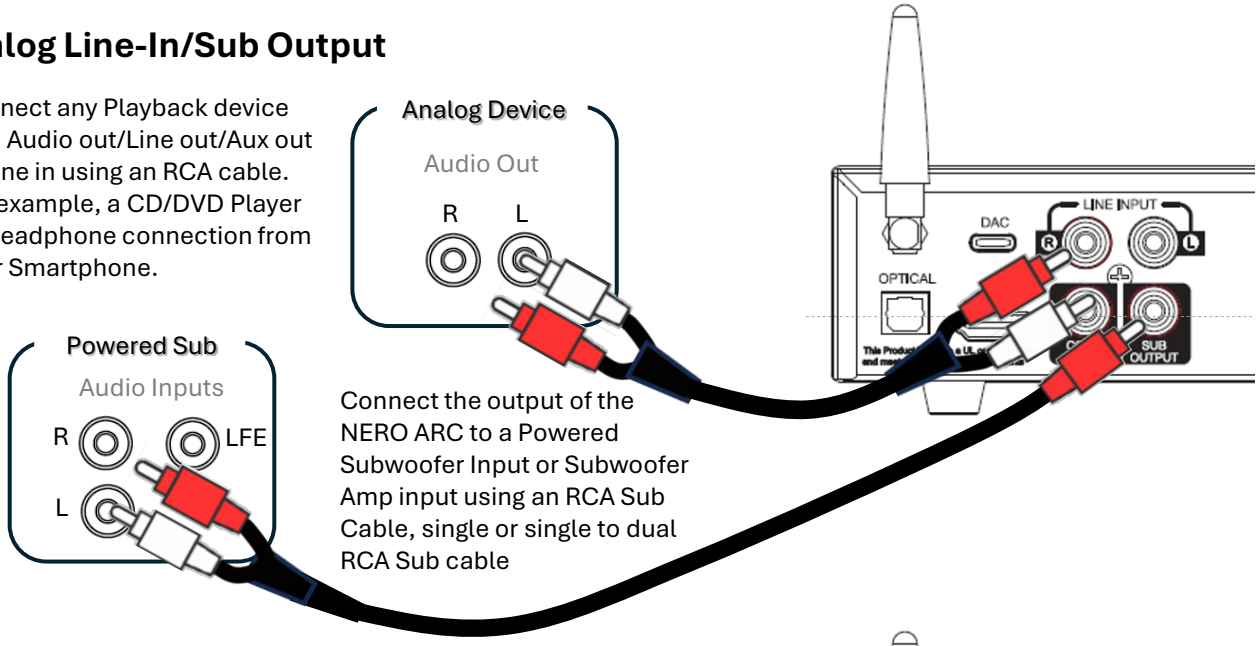
The NERO ARC features Wireless BT Connect as an option. You can access the Wireless BT 5.3 manually using the front panel Volume/Source Select Knob or by using the IR Remote that is included with the NERO ARC.

When in receiver mode, the Wireless BT LED will flash, which indicates it is waiting for a connection in your BT Transmitter device (cell phone, pad, TV). You can search for the device name "OSD Player." Once connected, the BT LED will stay on, which indicates the connection is successful. You can start playing music from the connected device and hear the sound coming out of the connected passive speakers.

NERO ARC Integrated AMP/PREAMP Connections

Analog Line-In/Sub Output

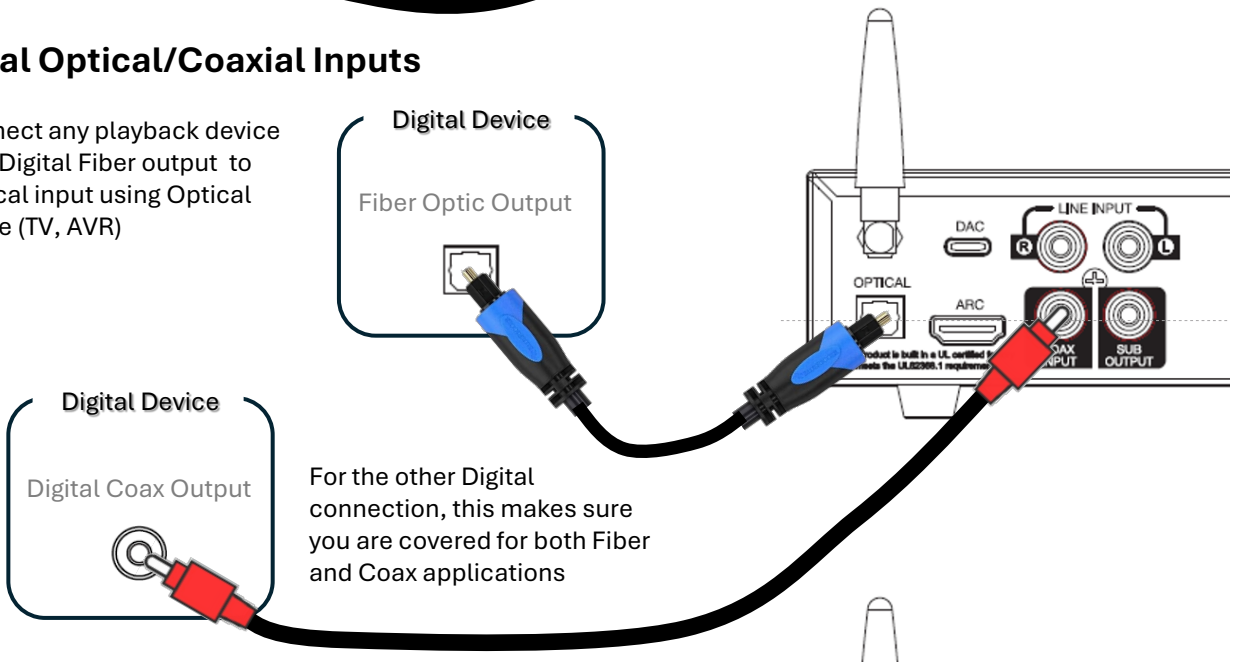
Connect any Playback device with Audio out/Line out/Aux out to Line in using an RCA cable. For example, a CD/DVD Player or Headphone connection from your Smartphone.



Connect the output of the NERO ARC to a Powered Subwoofer Input or Subwoofer Amp input using an RCA Sub Cable, single or single to dual RCA Sub cable

Digital Optical/Coaxial Inputs

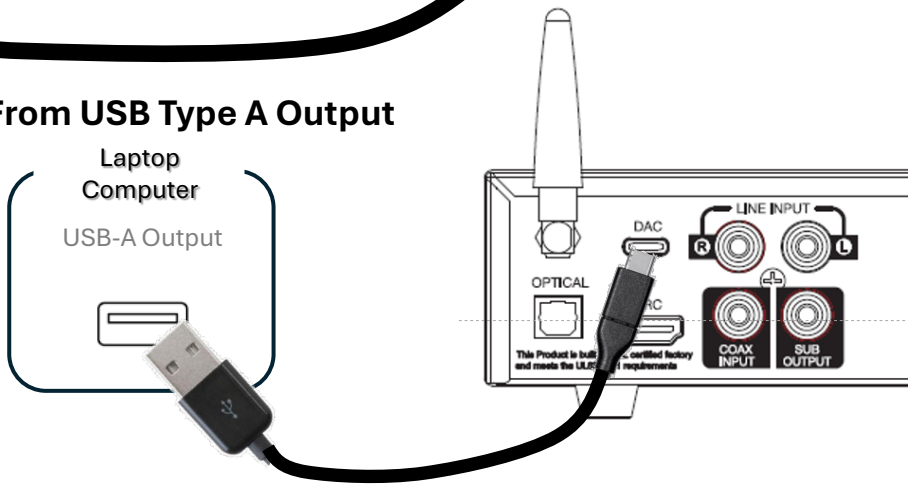
Connect any playback device with Digital Fiber output to Optical input using Optical Cable (TV, AVR)



For the other Digital connection, this makes sure you are covered for both Fiber and Coax applications

DAC USB Type C Input From USB Type A Output

Transfer Native Digital signal from your Desktop or Laptop Computer to the DAC Type C Input on the NERO ARC utilizing the Audiophile DAC (Digital to Analog Convertor) featured in the NERO ARC



NERO ARC Callouts, Front Panel

Front Panel Controls

1. POWER/STATUS INDICATING LIGHT

   The Green light indicates regular operation, the red light indicates FAULT, and the orange light indicates waveform trim

2. POWER SWITCH

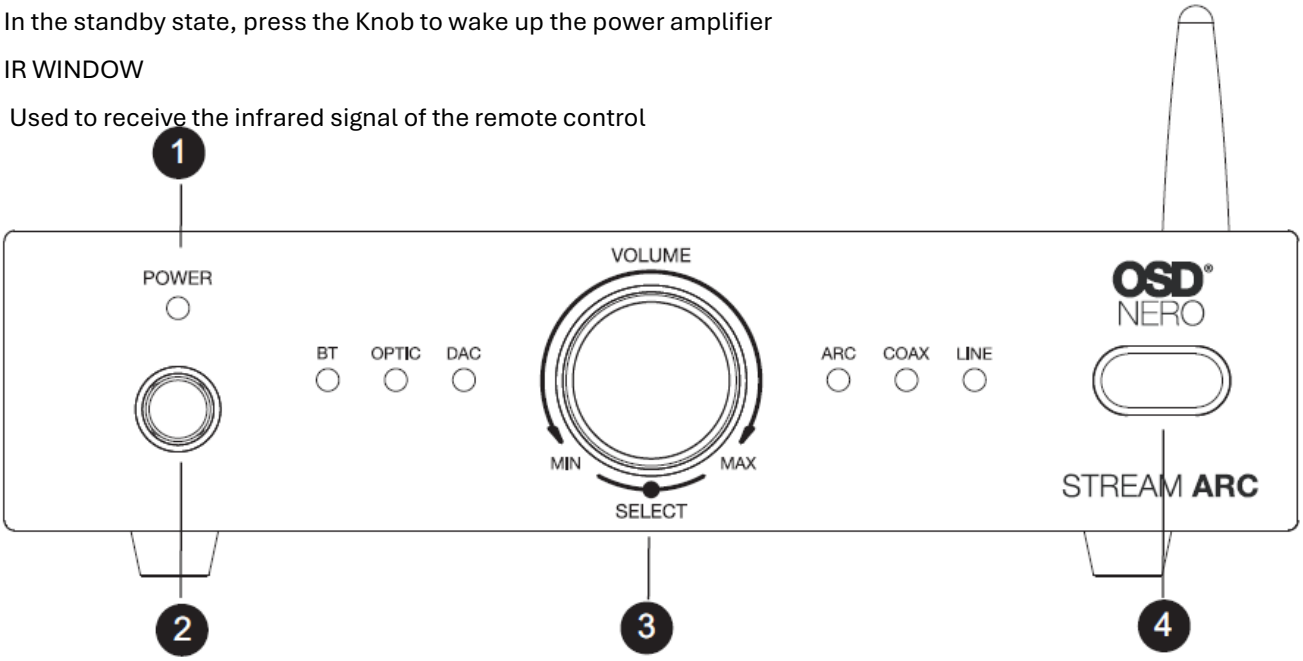
   Used to turn on or off the power of the internal amplifier

3. VOLUME/SOURCE SELECTION CONTROL KNOB

   The Volume/Select Knob is rotated to the left (counterclockwise) to turn the volume down and turn to the right (clockwise) to increase the volume. Press the Volume/Select Knob to Cycle through the sources one at a time: Wireless BT, Digital Optical, DAC, ARC, Digital Coax, and Line in. Hold the Volume/Source knob down to restore factory settings. In the standby state, press the Knob to wake up the power amplifier

4. IR WINDOW

   Used to receive the infrared signal of the remote control



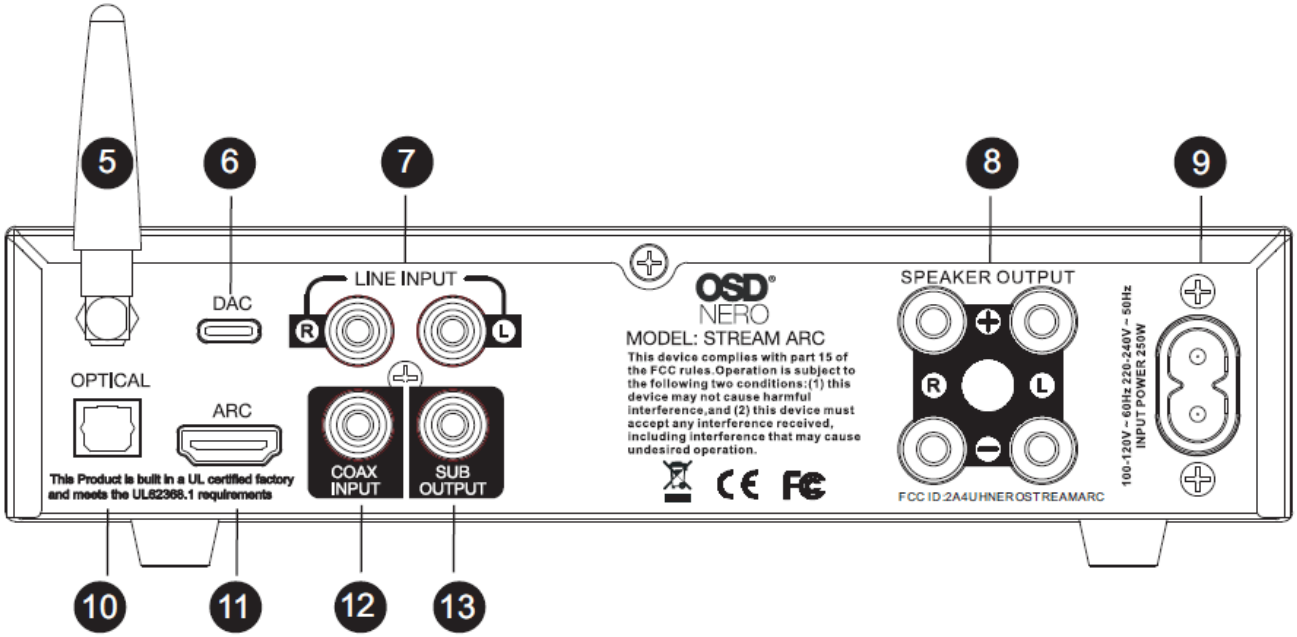
Amplifier Standby

The power amplifier has an automatic shutdown function; in the absence of any audio input, it will enter the automatic standby state within 10 minutes; Standby power consumption ≤ 0.5W; you can use the standby button of the remote control or touch the switch through the encoder on the panel to wake up the power amplifier. The power amplifier has a power-off memory function. When powered off and then powered on again, it will return to the parameters before the shutdown, such as EQ, sound source, etc.

What's in the Box

IR Remote	2 AAA Batteries
Wall Mount Brackets	Wireless BT Antenna
Power Cord	QR Code Warranty Card

NERO ARC Callouts, Rear Panel Controls



REAR PANEL CONTROLS

5. Wireless BT external antenna

   To maintain the stability of Wireless BT communication, it is necessary to rely on the assistance of external antennas, which will greatly improve the distance and stability.

6. Digital DAC input

   Used to play USB C disk music and connect computer playback.

7. Analog AUX input

   It can play music by connecting to CDs, DVDs, set-top boxes, and other audio sources with analog audio output devices.

8. Speaker output Terminals

   Five-way Binding posts can connect a pair of 4-ohm, 8-ohm, or two pairs of 8-ohm speakers (with a 4-ohm load).

9. AC outlet

   It supports AC 100 - 120V/220 - 240V voltage input and can adapt to the power supply voltage of different countries worldwide.

10. Digital OPTICAL input

    To achieve sound source playback, you can connect some devices with OPITC output, such as TVs and karaoke machines.

11. Digital ARC input

    Some devices with ARC, such as TVs and karaoke machines, can be connected to achieve music playback.

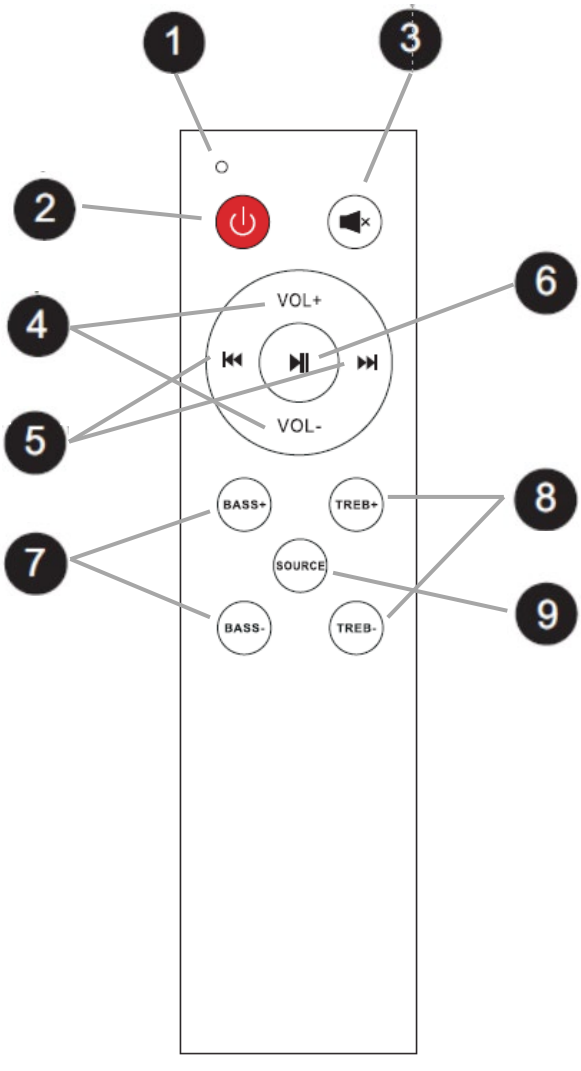
12. Digital COAX input

    Some devices with COAX output, such as TVs and karaoke machines, can be connected to achieve music playback.

13. Analog SUB output

    It connects to an active subwoofer for a stronger bass effect.

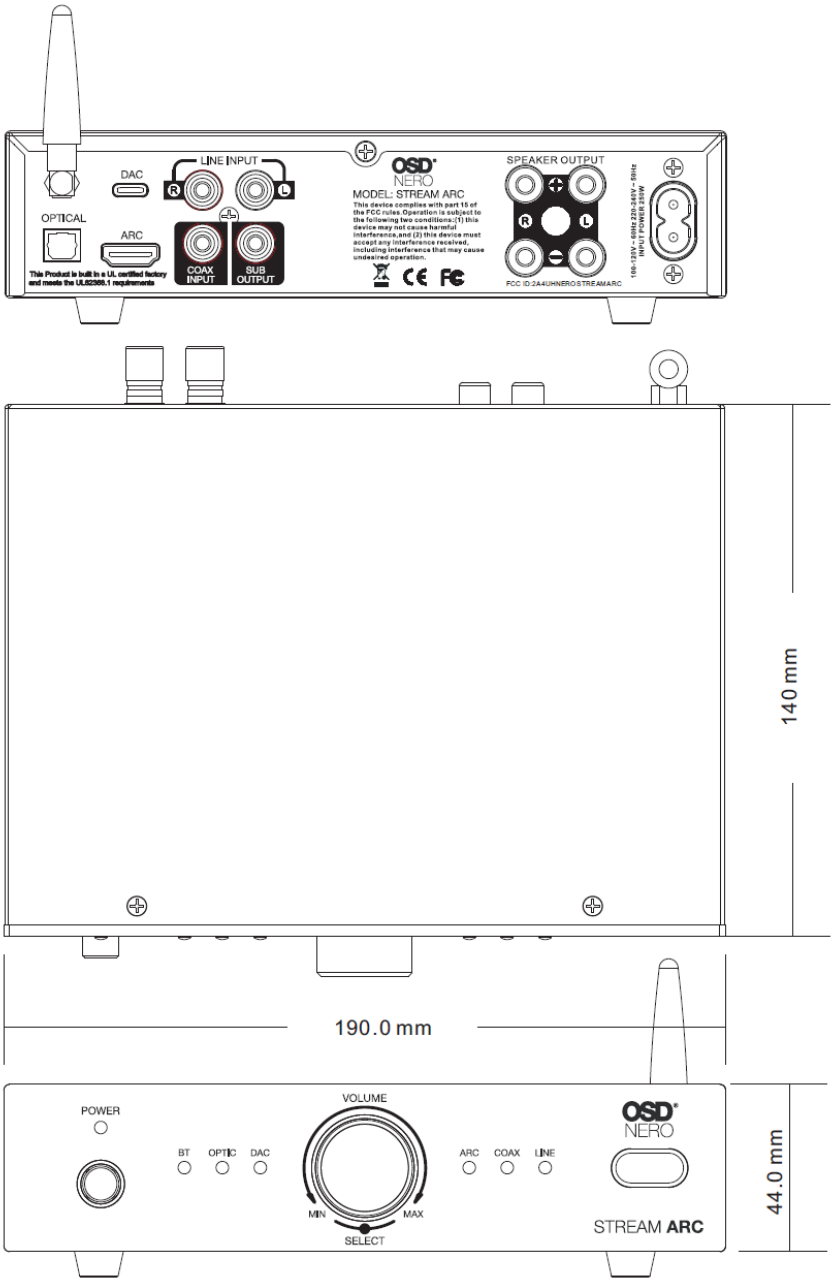
NERO ARC IR Remote Control



IR Remote

1. Power LED Flashing indicator
2. Power Button
3. Volume Mute Button
4. Vol+/Volume-
5. Forward/Rewind
6. Pause/Play Button
7. Bass +/-
8. Treble +/-
9. Source Select Button
    1. Wireless BT
    2. Optical
    3. DAC USB-C
    4. ARC
    5. Digital Coax
    6. Line -In

Dimensions and Specifications NERO ARC



ARC Specifications

Categories	ARC Specs	Categories	ARC Specs
Amplifier type	Two Channel L&R Stereo	Sources/ Inputs	Wireless BT / Optical / DAC / ARC / Coax / LINE IN
Design type	Digital Class D		
Channels	2	Output	L/R speaker out (mono) / SUB Out
Wireless BT version	Wireless BT 5.3 (chip:BT8961)	Maximum Sample Rate	44.1kHz, 48kHz, 96kHz, 192kHz
Peak power output	200W	Bit Resolution	16-24 bits
8-ohm Power Rating	50W x 2 RMS, 2 x 100W Peak Power	Supports 24Bit/192kHz	Yes
4-ohm Power Rating	100W x 2 RMS, 2 x 200W Peak Power	Wall Mountable	Yes
Frequency Response	20Hz-20kHz	Remote Control	Yes
Impedance	8 Ohm to 4 Ohm Stable	Dimensions (L x H x D)	7.48" x 1.97" x 5.5" (190*50*140 mm)
Signal to Noise Ratio	>95dB A-weighted	Weight	about 1.13 KG

Warranty Info

All OSD NERO electronics products have a (2) year Limited Warranty against defects in materials and workmanship. Proof of purchase must accompany all claims. During the warranty period OSD AUDIO will replace any defective part and correct any defect in workmanship without charge for either parts or labor OSD AUDIO may replace returned speakers with a product of equal value and performance. In such cases, some modification to the mounting may be necessary and are not OSD AUDIO's responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by OSD AUDIO. The unit must be returned to OSD AUDIO at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damaged resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by OSD Audio

OSD AUDIO sells products only through authorized dealers and distributors to ensure that customers obtain proper support and service. Any OSD AUDIO product purchased from an unauthorized dealer or other source, including retailers, mail over dealers and on-line sellers will not be honored or serviced under existing OSD AUDIO warranty policy. Any sale of product by an unauthorized source or other manner not authorized by OSD AUDIO shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, you must email customer service at RMA@audiogeargroup.com for a Returned Merchandise Authorization (RMA) number# then the unit must be shipped to OSD AUDIO at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover:
Damage caused by abuse, accident, misuse, negligence, or improper operation (installation) • Any products that have been altered or modified • Any product whose identifying number of decal, serial #, etc. has been altered, defaced or removed • Normal wear and maintenance.

FCC Statement
This device complies with part 15 of the FCC rules. 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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a 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 important announcement
Note:
Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.