

Roth



*"I'm going to make him an offer he can't refuse."*

- The Godfather

# ROTH NEO 6.2 SoundCore User Manual.

“Turn it up.”

# ROTH NEO 6.2 SoundCore

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**Thank you...**

...for choosing the Roth NEO 6.2 SoundCore.

Please read these instructions carefully - we're using some quite complex technology and there may be a few changes to your current system set-up that you'll have to make to get the best performance possible.

Turn It Up.

## Key Features

The Roth NEO 6.2 SoundCore is designed to provide a high quality alternative to the loudspeakers in your flat-panel TV. To this end it has numerous input types that will accommodate all TVs and other audio devices. These also include Bluetooth aptX, a method by which you can stream audio wirelessly to the Neo from your mobile 'phone, laptop or tablet at high quality.

The Roth NEO 6.2 SoundCore may be used with any size TV from 32" to 60", where it's compact styling should unobtrusively complement your TV and room décor. For larger screen TVs the stand they come with might be too large to place on the Roth NEO 6.2 SoundCore, in which case, simply place the Neo on a separate shelf below.

**Note:** The Roth NEO 6.2 SoundCore can take a TV up to maximum weight of 50Kg (110 lbs). For TV tip-over/fall prevention measures please see the TV user manual.

## Advanced Technologies in the Roth NEO 6.2 SoundCore

The Roth NEO 6.2 SoundCore features an acoustic package comprising 6 full range drivers and 2 downward-firing bass drivers. Allied with these is a complex 3D DSP engine developed with Sonic Emotion. The sound processor module uses a combination of spatial analysis, wave field synthesis, physical acoustic modelling and psycho-acoustic treatment to produce an enjoyable and exciting 3D sound-image.

*"I've seen things you people wouldn't believe. Attack ships on fire off the shoulder of Orion. I watched C-beams glitter in the dark near the Tannhauser gate. All those moments will be lost in time... like tears in rain... Time to die."*

- Blade Runner

# ROTH NEO 6.2 SoundCore

## READ BEFORE USING THE ROTH NEO 6.2 SOUNDCORE

**FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE ROTH NEO 6.2 SOUNDCORE. KEEP THIS USER GUIDE FOR FUTURE REFERENCE.**

1. Do not use this SoundCore near water.
2. Clean only with a dry cloth.
3. Do not block any ventilation openings. Install in accordance with the instructions in this user guide. Ensure a free space of at least 5cm around this product at the rear to allow the acoustic design to perform properly.
4. Do not install near any heat sources such as radiators, stoves or other apparatus [including amplifiers] that produce heat.
5. Do not try to bypass 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. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
6. Unplug the SoundCore from the mains supply during lightning storms or when unused for long periods of time.
7. Refer all servicing to qualified service personnel. Servicing is required when the SoundCore has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the SoundCore, or the SoundCore has been exposed to rain or moisture, does not operate normally, or has been dropped.
8. The system is designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the SoundCore to overturn resulting in SoundCore damage and/or personal injury.

### POWER SOURCES

This audio system is designed to operate on 100 – 240 volts 50Hz, AC current. The main plug is used as the disconnect device and should remain readily accessible. To prevent electric shock, do not use the SoundCore's mains cable with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure. Never connect the audio system to 60 Hz DC, or anything other than the specified voltage.

### DISPOSAL

In the EU, electronic devices cannot be disposed of with regular household waste. Please use the return or collections systems of the retailer from whom you purchased the SoundCore. Please dispose of batteries in an environmentally friendly manner. Do not dispose of batteries with regular household waste. Please use the return or collections systems of the retailer from whom you purchased the SoundCore.



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.



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 a sufficient magnitude to constitute a risk of electric shock to a person.



### CAUTION

Never remove the back covers of the SoundCore as this can expose you to very high voltages and other hazards. If the system does not operate properly, unplug the audio system and call your authorised dealer or service centre for advice. Adjust only those controls that are covered in the instructions.

### WARNING

To reduce the risk of fire or electric shock, do not expose this SoundCore to rain or moisture.

The system should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the system.

This SoundCore should only be connected to a mains socket outlet with a protective earthing connection.

### ELECTRICAL INFORMATION

This system is fitted with a BS1363/A 13 amp plug. If it is not suitable for your supply sockets it must be removed and replaced with an appropriate plug. If the plug becomes damaged and/or needs to be replaced please follow the wiring instructions below. The plug removed must be disposed of immediately. It must not be plugged into a supply socket as this will be an electrical hazard. If the fuse needs to be replaced it must be of the same rating and ASTA approved to BS1362. If the plug is changed, a fuse of the appropriate rating must be fitted in the plug, adapter or at the distribution board. If the fuse in a moulded plug is replaced, the fuse cover must be refitted before the appliance can be used.




Proper disposal of this product. This label indicates that, in the EU, electronic devices cannot be disposed of with regular household waste. Please use the return or collections systems of your municipality or contact the seller where you purchased this product

### WIRING INSTRUCTIONS

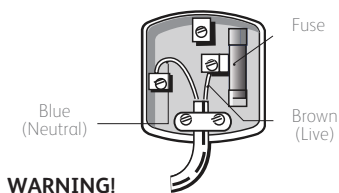
Follow the appropriate wiring instructions given below. In both cases ensure that the outer sheath of the cable is firmly held by the cable clamp.

#### 2 - CORE PLUG

 This symbol indicates that this 2-core appliance is Class II and does not require an earth connection.

The wire coloured blue must be connected to the terminal marked with the letter N or coloured black.


The wire coloured brown must be connected to the terminal marked with the letter L or coloured red.



#### WARNING!

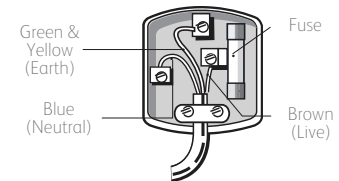
Do not connect either wire to the earth terminal.

#### 3 - CORE PLUG

The wire coloured green and yellow must be connected to the terminal marked with the letter E, or by the earth symbol  or coloured green or green and yellow.

The wire coloured blue must be connected to the terminal marked with the letter N or coloured black.

The wire coloured brown must be connected to the terminal marked with the letter L or coloured red.



**WARNING!** This appliance must be earthed.

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.

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 SoundCore's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock.

**CAUTION** To prevent electric shock do not plug a cable into a wall outlet, extension cord, or other receptacle unless the metal blades can be fully inserted to prevent blade exposure.

# ROTH NEO 6.2 SoundCore

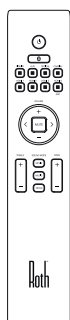
## What's In The Box

### ROTH NEO 6.2 SOUNDCORE



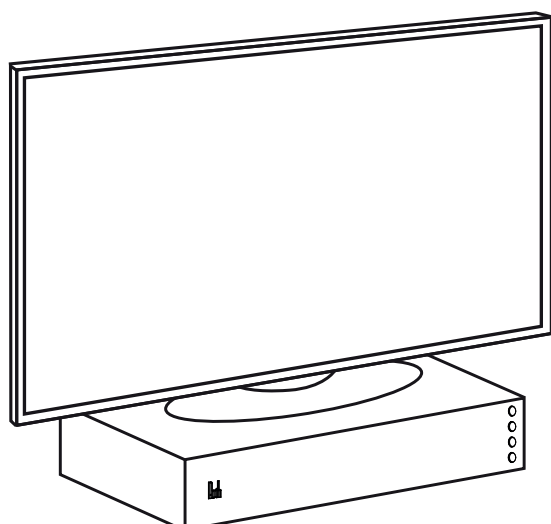
### ROTH NEO 6.2 SOUNDCORE

#### REMOTE CONTROL



### ACCESSORIES

- Remote Control Batteries
- UK and EU cables/plugs
- Digital optical audio cable
- User Manual



## Positioning

The Roth NEO 6.2 SoundCore should be positioned either directly under the TV screen on a flat surface, or on a shelf below the TV.

## Remote Control

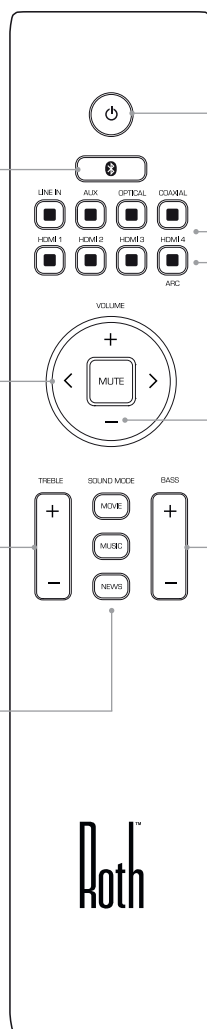
The controls and functions of the Roth NEO 6.2 SoundCore Remote Control are explained below.

**Bluetooth**  
 Use this button for pairing between a “source” device (such as a smartphone, tablet or laptop) and the Roth NEO 6.2 SoundCore.  
 See page 10.

**Input Up > / Input Down <**  
 Press the < or > button to move up or down through the inputs.

**Treble Up + / Treble Down -**  
 Press the + or - button to adjust the treble up or down.

**Sound Modes**  
 These buttons are used to select one of the three presets. Movie, Music or News.  
 These are described on page 11.



**Power / Standby**  
 Press this button to turn the Roth NEO 6.2 SoundCore on or off.

**Input Selection**  
 Digital Optical, Digital Co-Axial, Analogue RCA pair, Analogue 3.5mm Stereo, 4 HDMI Inputs.  
 See page 9.  
 To select ARC press and hold down the HDMI 4 button for 2 seconds or more.

**Volume Up + / Volume Down -**  
 Press the + or - button to adjust the main volume up or down.

**Bass Up + / Bass Down -**  
 Press the + or - button to adjust the bass up or down.

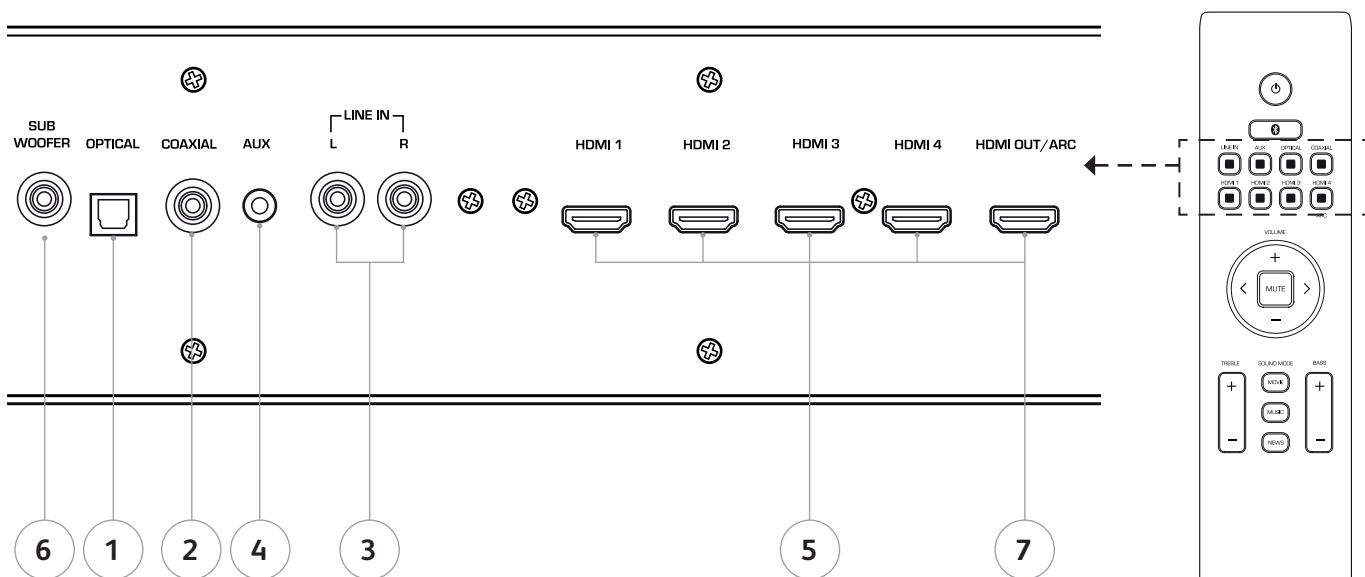
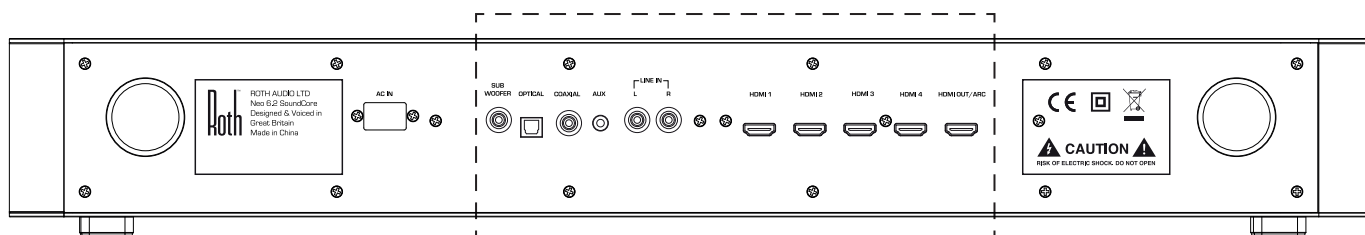


**Caution**

- Do not insert battery with '+' and '-' polarities reversed as this may cause the battery to swell or rupture resulting in leakage.
- Remove the battery if the remote control is not going to be used for an extended period of time.
- Do not put the battery in the general household rubbish. Dispose of the battery according to applicable laws.

# ROTH NEO 6.2 SoundCore

## Rear Panel Connections



The colours on the rear panel correspond with the colours on the remote control button and the colour of the led on front panel.



*“Open the pod bay doors please, HAL.”*

- 2001: A Space Odyssey

#### 1. Digital Optical (Purple on remote control button / Purple led on front panel)

Many TVs and Audio products now have a digital optical output also referred to as Toslink. This can carry multiple audio channels that are then decoded by whatever the terminal device happens to be. In the case of the Roth NEO 6.2 SoundCore, it is important that the device outputting the audio information (e.g. your TV, Set-Top Box, etc.) is switched to output audio in 2.0 channel PCM mode.

#### 2. Digital Co-Axial (Yellow on remote control button / Yellow led on front panel)

Many TVs and Audio products now have a digital co-ax output. This can also carry multiple audio channels that are then decoded by whatever the terminal device happens to be. In the case of the Roth NEO 6.2 SoundCore, it is important that the device outputting the audio information (e.g. your TV, Set-Top Box, etc.) is switched to output audio in 2.0 channel PCM mode.

#### 3. Analogue RCA pair (White on remote control button / White led on front panel)

This is a standard analogue audio connection that can be found on most audio devices and flat-panel TVs, one connector is usually black and the other red. Simply match the connector colours to the audio device and then attach to the matching coloured connectors / input on the Roth NEO 6.2 SoundCore.

#### 4. Analogue 3.5mm (Aux) Stereo (Green on remote control button / Green led on front panel)

This is a standard analogue audio connection that can be found on most audio devices and flat-panel TVs and consists of a small silver pin with 2 black rings around it. Simply inset the correct cable to the audio device and then attach to the matching input on the Roth NEO 6.2 SoundCore.

#### 5. HDMI Inputs (High-Definition Multimedia Interface)

A compact audio/video interface for transferring uncompressed video data and compressed/uncompressed digital audio data from a HDMI-compliant device to a compatible digital audio device. **In order for the HDMI inputs to work correctly (with any source unit) it is also necessary to connect your TV through HDMI Out (ARC). This closes the ‘loop’ for the audio reproduction and if the TV isn’t connected, the HDMI inputs will not work properly and you will not see either a picture or hear audio.** If your TV does not have ARC, please use a different audio input such as Optical or Co-Axial instead of using HDMI.

- HDMI Input 1, 2, 3 4 (Turquoise on remote control button / Turquoise led on front panel)

#### 6. Subwoofer Output

- Use this output to connect an external powered subwoofer if you require additional bass.

#### 7. HDMI with ARC

- Use this output to connect the Roth NEO 6.2 SoundCore to your TV. **(see point 5 above)**. Should you just wish to connect your TV to the Neo 6.2 SoundCore without any other devices being connected, you can use any of the available input types providing these are supported by your TV. It may be counter intuitive, but if you choose to use HDMI, please connect the HDMI output to your TV to the HDMI output( ARC) of the Neo 6.2 SoundCore.

# ROTH NEO 6.2 SoundCore

## Wireless Connectivity.

### Bluetooth aptX



The aptX audio codec is used for the real-time streaming of high quality stereo audio over the Bluetooth A2DP connection/pairing between a “source” device (such as a smartphone, tablet or laptop) and the Roth NEO 6.2 SoundCore.

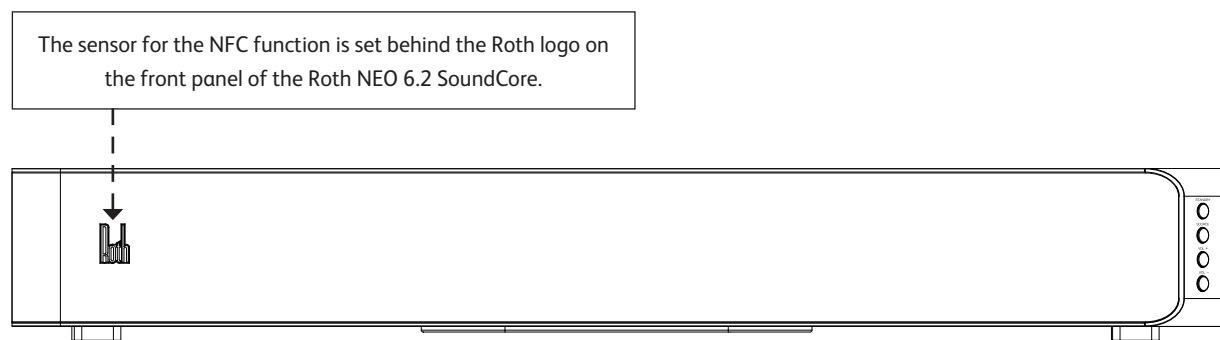
### Bluetooth Pairing Procedure

- Select the Bluetooth input using either the remote control or the control surface on the Roth NEO 6.2 SoundCore.
- The blue LED will illuminate and flash on the Roth NEO 6.2 SoundCore.
- Press the Bluetooth pairing button on the remote control.
- Switch your remote Bluetooth device to the “Search” or “Pairing” function and press “Pair” or “Search”.
- Select “ROTH” as the audio playback device.
- When successfully paired the Roth NEO 6.2 SoundCore will emit an audible tone and the blue LED will stop flashing.

For initial pairing of each Bluetooth device, it may take up to 60 seconds to pair, after which it should only take a few seconds.

### NFC (Bluetooth pairing procedure for products that utilise NFC)

Near Field Communication is a set of standards for smartphones and similar devices to establish radio communication with each other by touching them together or bringing them into proximity with each other. Your smartphone or other device should clearly state whether this function is enabled - if it isn't, it simply won't work with the Roth NEO 6.2 SoundCore. Although the NFC feature is becoming more prevalent with Smartphones, there are still some major brands that have not implemented it. For these types of 'phones simply follow the Bluetooth pairing instructions (above) instead.



*NB: indicator label should be removed*

Note that when you utilise this feature, this input will automatically switch on and over-ride any input that is already being used for playback. In order to switch back to another input simply use the remote control provided or the input select buttons on the front of the Roth NEO 6.2 SoundCore.

*“A martini. Shaken, not stirred.”*

- Goldfinger

### General Comments Regarding Connectivity

As there are now so many different types of TV available, all with differing connectivity options, we have provided as many different digital and analogue connection options as possible.

The generally held view is to utilise the HDMI digital connections in order to gain the best performance. HDMI is now used on many different audio-visual devices and you will find this connection on TVs, set-top boxes, Blu-Ray DVD players, etc.

Please note that for the very best Bluetooth aptX results, your source unit should transmit audio using this advanced codec. Not to worry if it doesn't have aptX – it will still work but the audio quality will be equivalent to standard Bluetooth instead.

There are people who believe that the analogue connections should be used for a more 'life-like' or 'warmer' sound. Again, we don't have any strong views on this and would only suggest that you try out the connections available for your different source units and whatever sounds best to you is the correct one to use.

## 3 Sound Modes - Movie, Music & News

The Roth Audio / Sonic Emotion 3D sound processor uses a combination of spatial analysis, wave field synthesis, physical acoustic modeling and psycho-acoustic treatment to produce an enjoyable and exciting 3D sound-image.

We have worked hard to provide three audio settings that we believe should make the source material to which you are listening vibrant and full of energy.

### Movie

This programme allows for a broad soundstage so that movie effects are clearly audible and speech is clear and precise. There is a degree of bass extension here so that you can feel some of the low end rumble and excitement that you would experience in a Cinema.

### Music

For this preset, great care has been taken to present a soundstage in line with the original recording mix, with most of the audio feed coming from around the Roth NEO 6.2 SoundCore itself and just a little programming so that you can identify where each artist is sitting on the stage or in the recording studio. Choose your favourite piece of music, close your eyes and the sound should be similar to the traditional 2-channel listening experience. It should sound like you have a large loudspeaker to the left and to the right of your TV, with an articulate, detailed and balanced tonal reproduction across all frequencies.

### News

This programme has been tuned to emphasise the mid and high frequencies that are associated with speech, with a commensurate reduction in the reproduction of lower frequencies. The soundstage has been narrowed and ambient audio reduced, so that from a listening perspective, everything you hear sounds as if it is coming straight out of the front of the Roth NEO 6.2 SoundCore. This therefore sounds similar to how a centre channel speaker from a 5.1 system would sound if all the other speakers were turned off – very focused, defined speech reproduction.

# ROTH NEO 6.2 SoundCore

## Trouble Shooting

Here is an overview of the most common problems. If you have any further questions please contact your Roth Audio dealer.

Problem	Possible cause	Solution
Roth NEO 6.2 SoundCore does not turn on.	Power cable not connected to the power outlet and /or Roth NEO 6.2 SoundCore	Check connection.
Sound reproduction too soft.	Volume of Roth NEO 6.2 SoundCore set too low.	Increase the volume using the “Volume” button. Increase the volume of the source device.
Roth NEO 6.2 SoundCore does not respond to remote control.	The battery is flat.	Replace battery, observe correct polarity at insertion.
No sound reproduction.	Sound format of the source device wrongly selected. (Digital input “TV” and “DVD”)	Please check the correct setting of your source device.
	Source device not producing any signal.	Digital output on the source device not activated (please refer to device instructions).
	Cable not correctly connected / faulty cable.	Check the connection of the source device to the Roth NEO 6.2 SoundCore and change the cable where necessary.

Problem	Possible cause	Solution
Roth NEO 6.2 SoundCore hums.	Signal lines from source device to Roth NEO 6.2 SoundCore too long.	Use shorter signal line.
	Signal line used is not fault-protected or the protection has been damaged (defective).	Change signal line for a fault-protected line.
	Ground loop (ripple pickup) generated.	A ground loop can be generated when two or more devices connected via a signal line (cinch) are plugged into separate sockets (e. g. amplifier and computer). Plug all devices connected to the Roth NEO 6.2 SoundCore into a multiple socket output using safety plugs.
	Another piece of equipment on the same circuit has no interference suppression (e.g. fridge).	<ul style="list-style-type: none"> <li>• Switch off possible sources of interference to test; unplug the device concerned to see if the humming noise disappears or connect the source of interference to a different circuit (L1, L2 or L3). (Where necessary take advice from your electrician.) Insert a special “ferrite common mode filter” (available from specialist retailers) between the amplifier and the Roth NEO 6.2 SoundCore to eliminate the humming.</li> <li>• Turn the power plug round to reduce the so-called ripple voltage (particularly important if the source device is not earthed).</li> </ul>
No playback via Bluetooth.	There is no connection between the Roth NEO 6.2 SoundCore and the mobile device.	Connect your mobile device as described
	The mobile device is paired but no playback takes place.	<ul style="list-style-type: none"> <li>• The mobile device must be connected again.</li> <li>• You are out of range.</li> <li>• Set the volume on the mobile device to maximum.</li> <li>• Increase the volume of the Roth NEO 6.2 SoundCore.</li> <li>• Ensure that interference sources like a WLAN router or laptop are not set up in direct proximity of the Roth NEO 6.2 SoundCore.</li> <li>• Concurrent operation of WLAN and Bluetooth from a mobile device is not possible without interferences in most cases. (Disable WLAN at your mobile device.)</li> </ul>

# ROTH NEO 6.2 SoundCore

## Roth NEO 6.2 SoundCore Specifications

### Input Sources

- Bluetooth
- Line-in (3.5mm)
- Optical
- Aux (RCA)
- Coaxial (RCA)

### Bluetooth

- FiHonest CSR BCS solution supporting BT 2.1 SBC & Apt-x decoders
- Analogue differential output

### Line-in

- RCA input
- 500 mV RMS full scale input

### Aux-in

- 3.5mm stereo mini-jack
- 500 mV RMS full scale input

### Coaxial Input

- 500 mV p-p input
- SPDIF format
- Stereo
- Up to 96 KHz sample rate at up to 24 bit PCM data

### Optical

- SPDIF format
- Toslink compatible
- Stereo only
- Up to 96 KHz sample rate at up to 24 bit PCM data

### HDMI

- HDMI 1.4
- 4 Input ports, 1 output port
- ARC support
- CEC support
- 12 bit deep full HD, Full 3D and 4K2K video
- MHL 2.0
- Stereo PCM support.  
Will force to deliver only 2.0 PCM at 48KHz

### Sub-out

- RCA connector, band-limited output
- 3rd order LPF, 100Hz
- 2v RMS output

### NFC

- Auto pairing for for handsets and tablets that support this function
- Antenna located behind Roth logo on front of unit
- Automatically switches on Roth NEO 6.2 SoundCore when in standby mode
- Switches the SoundCore to Bluetooth mode

### Amplifiers

- ESMT class-D power-stages
- 6x10W capability @<0.1% THD+N
- 2x20W capability @<0.2% THD+N

### Signal Processing

- Sonic Emotion 3D DSP (SE-W58)

### AC Power

- Internal PSU AC 100-240V – 1.5A 50-60Hz

### Keys

- 4 Tactile switches: Vol+, Vol-, Source, Standby

### Indicators

1 x RGB LED with the following indications

- Standby, LED is RED
- Bluetooth operation, LED is BLUE
- AUX in, LED is GREEN
- Line-in, LED is WHITE
- Coaxial, LED is YELLOW
- Optical operation, LED is PURPLE
- HDMI, LED is TURQUOISE

### Power

- Auto power off: 30 mins with audio not active

### Remote Control

- NEC protocol with up to 22 keys using infrared. 5 meter range with up to 30 degree incidence angle.

## Notes

### Roth Warranty Policy - UK and Eire, Effective 1st March 2014

Roth products are warranted against defects in workmanship and material for a period of two years from the date of purchase. During this two-year period Roth will repair or replace products that prove to be defective. Repairs are warranted for the remainder of the warranty period or 90 days whichever is longer. Contact Roth for the warranty period specific to the product purchased.

In the first instance, should you believe that your product has developed a fault, please contact the retailer from whom you purchased the product and they can then provide technical advice to establish whether there is a fault or not and where appropriate, manage the warranty process for you.

All equipment returned for warranty repair must have a valid RMA number issued prior to return and be marked clearly on the return packaging. Roth strongly recommends all equipment be returned in its original packaging. All equipment returned must also include a copy of the purchase receipt that clearly shows the date of purchase and retailer details. Claims made without the supporting proof of purchase will be liable to service charges.

Roth obligations under this warranty are limited to repair or replacement of failed parts, and the return shipment to the buyer of the repaired or replaced parts.

### Limitations of Warranty

The warranty does not apply to any part of a product that has been installed, altered, repaired, or misused in any way that, in the opinion of Roth, would affect the reliability or detracts from the performance of any part of the product, or is damaged as the result of use in a way or with equipment that had not been previously approved by Roth.

The warranty does not cover damage or loss incurred in transportation of the product.

The warranty does not cover replacement or repair necessitated by loss or damage from any cause beyond the control of Roth.

The warranty excludes any responsibility by Roth for incidental or consequential damages arising from the use of the equipment or products, or for any inability to use them either separate from or in combination with any other equipment or products.

These terms apply only to products purchased within the UK. For any purchases made outside of the UK you must refer to your local retailer / distributor warranty policy.

Nothing in this warranty policy affects your statutory rights.

*“You don’t understand! I coulda had class. I coulda been a contender. I could’ve been somebody, instead of a bum, which is what I am.”*

- On the Waterfront

*"Why don't you have another vat of wine, dear?"*

- Fawlty Towers

#### **SERVICE**

Please contact your local authorised dealer or reseller.

Email: [support@rothaudio.co.uk](mailto:support@rothaudio.co.uk)

In accordance with our policy of continuous development, we reserve the right to change specifications without notice. Photographs are for illustration only and actual product may vary. E&OE.

**Roth**

**facebook**

Find us on Facebook.  
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