

# nano phono V2

## nano phono headphone V2



Loving music

User manual  
Bedienungsanleitung



Abb. ähnlich /  
Pic. similar



Abb. ähnlich /  
Pic. similar

## User manual / Bedienungsanleitung



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Dear **Clearaudio** customer,

congratulations on the purchase of your new *nano phono V2 / nano phono headphone V2 MC/MM* phonostage.

The *nano phono V2 / nano phono headphone V2* features a power switch: We recommend that you keep the unit switched on in order to maintain a constant temperature for the electronic parts inside (this uses very little power).

The *nano phono V2 / nano phono headphone V2* also has a built-in volume control unit.

Please read this instruction manual carefully, to avoid any damage or loss of warranty. This manual will help you achieve an easy setup and guarantees the highest pleasure for a long time.

We wish you a lot of listening pleasure with your **Clearaudio** *nano phono V2 / nano phono headphone V2 phonostage*.

**Clearaudio electronic GmbH**



## Safety instructions

### 1. General information

Check the device for visible damage before using it for the first time.  
If the device is damaged, it should not be connected to the mains.

Also, never connect the device if it has been dropped or gotten wet, contact your dealer to have the device inspected.

Never expose the device to rain or moisture.

Never touch the power cord of the device with wet hands.

For your own safety, regular visual inspections of any defective insulation on the connection cable are also recommended. A damaged cable should be replaced immediately by a specialist!

Never pull on the power cable to unplug the device, but directly on the plug!

The inside of the device is maintenance-free, never open the housing or try to repair the device yourself. This can also lead to loss of warranty.

If you do not operate the device for a longer period of time, we recommend disconnecting the power supply from the mains.

Not suitable for children! Scope of delivery may contain small parts that can be swallowed.

### 2. Intended use

The *nano phono V2* is a phono preamplifier to amplify the signal of the phono cartridge.

The intended use of the *nano phono V2* in accordance with the information provided in the user manual only.

The power supply may only be operated with maximum permissible connection values according to the technical data. Any other use or modification of this product is not intended.

### 3. Location of installation

The device should only be set up on leveled surfaces.

Avoid location with direct sunlight, temperature fluctuations and high humidity. Likewise, avoid placing electronic devices near heaters, heat lamps, or other devices that produce heat.  
The device is designed for operation in heated rooms.

Never block the ventilation slots or cover the device with a cloth or similar.

No objects with an open flame may be placed on the device (burning candles or similar).

Phonostages provide a very high level of amplification, to address the fact that the electrical signal generated by a phono cartridge is extremely low. As a result, phonostages are extremely sensitive, which leads to the potential problem that high-frequency interference may also be amplified to a point at which it becomes noticeable. Unfortunately it is not possible to completely protect the sensitive phonostage circuitry from this interference without degrading its high fidelity performance.

Therefore care must be taken to position the phonostage away from sources of high frequency interferences such as mobile phones, modems and powerline communication systems (PLC) in which data is sent over the mains power network.

### 4. Overload

The product is designed to comply with all necessary safety regulations, however you should not leave the device unattended under extreme loads.

### 5. Maintenance

Only use a soft cloth with a smooth surface for cleaning. Never use aggressive cleaning detergent.

### 6. Health information

Permanently high volume can lead to various types of hearing damage. Use high volume responsibly!

### 7. Service

During the guarantee period, the *nano phono V2* may only be repaired by the manufacturer, otherwise the warranty will become void.

All **Clearaudio** products should only be serviced by specialist retailer.

If despite the high production standard, a repair is necessary, the *nano phono V2* must be sent to **Clearaudio** through your dealer.

### 8. Transport

Always use the original packaging when transporting the **Clearaudio nano phono V2**.

Be sure to pack the device exactly as it was shipped.

Safe transport is only guaranteed in the original packaging.

When packing, proceed in reverse as described for assembly.

### 9. Disposal



Do not dispose this product together with other waste.  
WEEE Reg. No.: DE26004446

### 10. CE Marking



This electronic product corresponds to the applicable guidelines for obtaining the CE mark.

## 1. Package contents

The **Clearaudio nano phono V2** is delivered in a special designed packaging for this product. Ensure that the packaging has no external damage, such as shipping damage. Please retain the packaging, as only the original packaging provides the necessary protection and stability during any subsequent transportation.

**Please check the contents of you're newly purchased *phono preamplifier*.**



**Pic. 1:** Package contents

1.	<i>nano phono V2 / nano phono headphone V2</i> hardwired power supply incl. country specific adapter	3.	Without image: User manual, Warranty card, <b>Clearaudio</b> Quality Card, return delivery note
2.	Loading resistors: - 51 - 200 - 402 and - 1000Ω  4 pcs. Jumper		

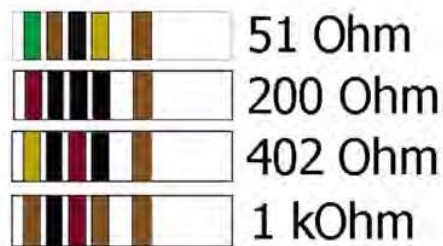
## 2. Setup

1. The *nano phono V2* is a fully Dual Mono Design, designed for use with either MM or MC cartridges. Cartridge type is selected with individual jumpers for the left and right channels which are located on the underside of the unit.

Select either the MC (moving coil) or MM (moving magnet) mode according to your cartridge type, by inserting the removable jumpers into the relevant positions on the bottom of the unit (one each for left and right channels).

The standard input impedance is set at 47k $\Omega$ , which ensures an optimal setting for all MM cartridges.

For the perfect input matching with MC cartridges, **Clearaudio** includes the following resistor pairs:



**Pic. 2:** Colour codes of the resistors

If there are no resistors connected to the jumpers while in MC mode, the cartridge is automatically loaded with 47k $\Omega$ .

The 402 $\Omega$  resistors are recommended for **Clearaudio** MC cartridges.

The other resistor values allow 3rd party MC cartridges to be loaded according to the manufacturer's guidelines. It should be noted that sometimes your personal preference for cartridge loading may differ from that recommended by the cartridge manufacturer.

If so, **Clearaudio** recommends: Trust your own listening abilities, in your own surroundings!

2. The subsonic-filter function can also be adjusted by inserting jumpers into the relevant points on the bottom of the unit.



**Pic. 3:** View from the bottom side

If the jumper is inserted, then the subsonic filter is **OFF**.

If the jumper is not inserted, then the subsonic filter is **ON**.

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3. The next step is to connect the ground wire of the turntable/tonerarm with the *nano phono V2 / nano phono headphone V2*. Make sure that the gain control is set to its lowest volume before connecting the *nano phono V2 / nano phono headphone V2* to your MC/MM cartridge and preamplifier.

4. The very last thing to do is to connect the power supply to the mains and press the power button to the "ON" position.



**Pic. 4:** Rear view

### **- Attention -**

Never cover or put anything on top of the *nano phono V2 / nano phono headphone V2* as this could lead to overheating of electronic parts.

If the unit a longer time not in use, please press the button on top of the device. If the device is not in use, disconnect it completely from the power supply by removing the main plug from the socket.



**Pic. 5:** On/Off button

**Clearaudio** wish you a lot of pleasure listening to music!

### 3. Troubleshooting

If you have a problem with your *nano phono V2*, first check the possible causes to rule out incorrect operation.

If the error persists, please contact your dealer!

**Never try to open the device and/or repair it yourself, this will void the warranty!**

Error	Cause	Measure
<b>Device does not work</b>	Is the power cord plugged in and the power switch turned on?	Check the connection.
<b>No sound or low volume?</b>	Did you choose the right input?	Check the connections of your hifi components.
	Have you selected the correct operating mode?	Check the settings on the underside of the phono stage.
	Is the device in „mute“ mode or is the volume set too low?	Check the volume setting of your device.
	The connection cables are not properly connected.	Check the tonearm and cartridge connections due the their respective user manual.
	Devices with a headphone output only: Are the headphones still plugged in when you are trying to play music through the speakers?	Disconnect the headphones.
<b>Hum or noise</b>	The ground cable is not connected or is faulty.	Connect the grounding cable from the turntable/tonearm to the respective grounding connection on the back of the device. If there are several ground connections, interrupt them one after the other and check the sound quality again.
	The device should not be operated in the vicinity of high-frequency devices such as mobile phones or modems or on power supply systems used for data traffic (PLC).	Make sure there is a minimum distance of 30cm between the power supply units of any type and the MC preamplifier or phono preamplifier. Powerlan adapters should not be operated on the same socket as the phono preamplifier.
<b>One channel quieter or louder</b>	The channels of an input are set differently.	Check the settings on the underside of the phono stage. These must be carried out identically for an input.





## 4. Technical Data

<b>Mode:</b>	MM / MC switchable by jumpers (at bottom) // Subsonic filter switchable by jumpers (at bottom)
<b>Amplification:</b>	34dB (MM mode) 54dB (MC mode)
<b>Input load:</b>	47 k $\Omega$ / 220pF / MM mode User MC mode
<b>RIAA accuracy:</b>	$\pm$ 0.4dB @ 20Hz - 50kHz
<b>THD:</b>	< 0.04%
<b>Signal to noise ratio:</b>	81dB (A) (MM mode) 70dB (A) (MC mode)
<b>Headroom:</b>	18dB / MC
<b>Max. output voltage:</b>	10V eff (1 kHz)
<b>RIAA:</b>	RIAA (Zeitkonst.: 75 $\mu$ s / 318 $\mu$ s / 3180 $\mu$ s)
<b>Channel separation:</b>	> 80dB @ 1kHz
<b>Output impedance:</b>	75 $\Omega$
<b>Inputs:</b>	unbalanced (RCA)
<b>Outputs:</b>	unbalanced (RCA) optional headphone output (Jack: 3.5mm)
<b>Power consumption:</b>	Max. consumption: 2.3 Watt In operation: 2.3 Watt Standby mode: < 0.3 Watt Off mode: 0.0 Watt
<b>Power supply:</b>	$\pm$ 18V DC / 300mA (external power supply)
<b>Total weight:</b>	Approx. 500g (Preamp and power supply)
<b>Dimensions (W/D/H):</b>	Approx. 3.35 x 4.17 x 0.98 inches
<b>Dimensions (W/D/H):</b>	Approx. 85 x 106 x 25mm
<b>Manufacturer's warranty:</b>	3 years*

\* Provided that the warranty card is correctly completed and returned to **Clearaudio**, or your product is registered online at <https://clearaudio.de/en/service/registration.php>, within 14 days of purchase.

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The full, extended warranty period for the *nano phono V2* phono-preamplifier is 3 years. To receive this full **Clearaudio** warranty, you must either complete and return the relevant section of the warranty registration card to **Clearaudio**, or register your product online at <https://clearaudio.de/en/service/registration.php>, within 14 days of purchase. Otherwise only the legal warranty can be considered.

The full 2 year warranty can only be honoured, if the product is returned in its original packing.

Um für die Phonovorstufe *nano phono V2* die volle **clearaudio** Garantie von drei (3) Jahren in Anspruch nehmen zu können, senden Sie uns bitte die beigelegte Garantiekarte innerhalb von zwei Wochen korrekt und vollständig ausgefüllt zu oder registrieren Sie das Produkt online unter <https://clearaudio.de/de/service/registration.php>, da sonst nur die gesetzliche Gewährleistung berücksichtigt werden kann.

Nur, wenn das Produkt in der Originalverpackung zurückgeschickt wurde, kann **clearaudio** die volle Garantiezeit gewährleisten.



### ENGLISH WARRANTY

For warranty information, contact your local **Clearaudio** distributor.

#### RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with **Clearaudio**.

#### IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase.

Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.



### FRANÇAIS GARANTIE

Pour des informations sur la garantie, contacter le distributeur local **Clearaudio**.

#### CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec **Clearaudio**.

#### IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.



### DEUTSCH GARANTIE

Bei Garantiefragen wenden Sie sich bitte zunächst an Ihren **Clearaudio** Händler. Heben Sie Ihren Kaufbeleg gut auf.

#### WICHTIG!

Die Angaben auf Ihrer Quittung erlauben uns die Identifizierung Ihres Gerätes und belegen mit dem Kaufdatum die Dauer Ihrer Garantie-Ansprüche. Für Serviceleistungen benötigen wir stets die Gerätenummer. Diese finden Sie auf dem Typenschild auf der Rückseite des Gerätes oder auch in der beigelegten Garantie-Registrierkarte.



### NEDERLANDS GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke **Clearaudio**.

#### UW KWITANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt, verwijzing bijv, in verbend met verzekering of bij correspondentie met **Clearaudio**.

#### BELANGRIJK

Bij een evt, beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.



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### **ITALIANO** **GARANZIA**

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Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati. Le spese ed i rischi di trasporto sono a carico del cliente. La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

### **ESPAÑOL** **GARANTIA**

Para obtener información acerca de la garantía póngase en contacto con su distribuidor **Clearaudio**.

#### **GUARDE SU RECIBO DE COMPRA**

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor, Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con **Clearaudio**.

#### **IMPORTANTE**

Cuando solicite el servicio otorgado por la garantía el usuario tiene la responsabilidad de demostrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.



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