



Loving music

Double - Smart Matrix

Double sided record[®] cleaning machine

User Manual



Made in Germany



Hi-Fi Components **clearaudio[®] electronic** GmbH

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Pic. 1: Important note

Dear **clearaudio**-customer,

Congratulations !

Thank you for choosing the *Double Smart Matrix* record cleaning machine, a high quality product made in Germany by **clearaudio**. The *Double Smart Matrix* is a unique record cleaning machine, cleaning the record in the most effective way: **both sides at once!**

To achieve the best possible cleaning results with your *Double Smart Matrix* record cleaning machine, please read the instruction and user manual carefully.

We wish you a lot of pleasure and success with your new clearaudio *Double Smart Matrix* record cleaning machine.

clearaudio electronic GmbH

IMPORTANT

Read first before you connect your Double Smart Matrix to any power outlet:

The *Double Smart Matrix* is available in a version for 230V as well as for 110V. Please make sure that you use the right voltage and connection with the machine. On the back panel of the machine you will find the correct voltage to be used with you *Double Smart Matrix*.



Pic. 1: Important warning notice

Use your Double Smart Matrix only with the voltage indicated on the back panel of the machine !

If you do not use the Double Smart Matrix for more than one week, please empty the fluid storage tank completely.

After that we recommend to fill in 100 ml distilled water and afterwards to pump down it. This guarantees a smooth start-up.

1. Scope of delivery

The clearaudio *Double Smart Matrix* record cleaning machine is packed in a specially made and approved package including the packing material. We highly recommend you to keep the original packing material in case of any transportation or shipping.

After opening the cardboard, please take out the additional accessories.
Take out the machine with both hands and place it onto a stable and waterproofed surface.

IMPORTANT: Never lift the *Double Smart Matrix* at the platter !

The included warranty and registration card should be filled out and sent back to clearaudio within two (2) weeks after purchase of the *Double Smart Matrix*.
This will ensure you the full warranty for extended period of three years.

Please check the content delivered with the machine.



Pic. 2: Open package

- 1) **Completely installed record washing machine**
- 2) **Seal – record clamp**
- 3) **Electrical connecting cable**
- 4) **Replacement - micro fibre stripes (4 pieces)**
- 5) **Single Adapter**
- 6) **Pure Groove Record cleaning fluid 250 ml**
- 7) **Tube stopper**
(attached at the tube)
- 8) **Warranty and registration card** (* see on page 17 warranty registration.)

In the case of an incomplete supply, please contact immediately the specialised **clearaudio** dealer, where you purchased the product.



2. Features overview

Version: March 2009

Both sides cleaned at once

Due to the sophisticated design of the wash and vacuum arm tubes, it is now possible to clean both sides of your precious vinyl at once. This results in a even higher comfort during the use. For a constant brush pressure a approved magnet mechanics are used.

Left-right turn switch

It is substantive for a perfect cleaning process that the platter is turning in both directions.

Cleaning of LPs, EPs and Singles

The Double Smart Matrix is able to clean all these formats without any additional accessories. You even do not need to change the cleaning vacuum arms for the different formats.

Excellent cleaning results

Through the cleaning process with the Double Smart Matrix, the general sonic improvements have been raised to a new level which regular cleaning machines do not reach. This is proven by our laboratories.

No platter – no dust catcher

The vinyl records do not have to be placed on a possible dusty underground anymore, they are just sitting on a platform in the size of the label. Through the integrated cleaning vacuum brush, the vinyl is stabilised automatically.

Cleaning in a half of the time

Both sides of any record are cleaned at once. This reduces the time of the cleaning process at least of 50%. Especially in commercial areas, this is an unbeatable advantage.

Construction

Through a high efficiency antistatic brush, a complete discharge is reached even if you do not want or need to clean your record. The sonic benefits are obvious.

We are also recommending to do the antistatic procedure after every cleaning process.

Ease of use

After a very short period you will be able to clean up to 50 records per hour with the Double Smart Matrix.

3. Set up and operation

Place the *Double Smart Matrix* on to a clean, dry and rugged surface. The actual surface should be waterproof. Please make sure that the machine is placed safe and secure.

Connect with electricity mains

Important :

Please connect now the settled connecting cable first with the cold equipment socket on the back of your *Double Smart Matrix* and afterwards with the 230V (or for USA 115 V) plug socket.

Now the *Double Smart Matrix* is ready for use and you could begin with the cleaning of the first record!

Motor operation



The operation of the *Double Smart Matrix* is very easy and efficient : There are only two switches built into the front panel. The upper switch operates the left and right movement . The lower one is operating the vacuum "off / on" function. The upper switch is indicated with letters in the front panel : „MOTOR“ and „VACUUM“ is for vacuum operation.

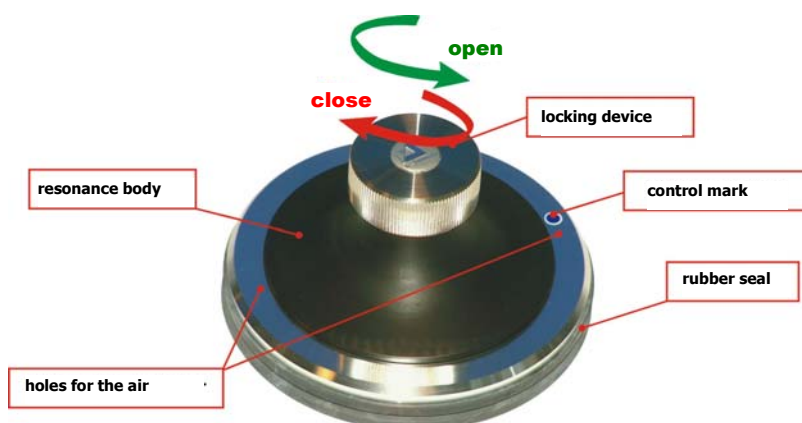
We advices not to take your most valuable record for the first record cleaning trial!

Pic. 3: Front panel Double Smart Matrix

Only after sufficient learning each individual procedure and the entire handling you attain security of avoiding operating errors.

Work procedure:

1. Please place the record on the central spindle part.
2. Tighten clockwise the "Seal record clamp".
3. Swift the upper cleaning unit to the record centre; with light pressure the attraction force of the magnets starts and the lower cleaning unit will be magnetically moved upward to touch the record surface.



Pic. 4: "Seal" record clamp

4. The *Double Smart Matrix* machine is cleaning both record sides at once by using manual fluid application.

5. By raising of the plastic bottle over the *Double Smart Matrix*, whereby the bottle must show downward, the cleaning fluid is led into the tube system.
6. You can see filling both transparent inlet tubes with cleaning fluid. With moderate pressure on the plastic bottle the surface wetting of both record sides takes place.
7. Before you start the record rotation, the micro fibre stripes should strongly soaked and something record cleaning fluid should be on the record surface.
8. After that you can start the rotation of the record by turning-on the "MOTOR"-switch. Now it is important, that both sides of the record are smooth covered with the fluid – if not, you can reach it by further easy pressing of the plastic bottle.
9. A normal wash procedure needs over 2 - 3 revolutions to each right and left direction.
10. The most important step, the actual cleaning happens during vacuum procedure. Before the vacuum is switched in "on" position the bottle with the liquid must be put back to the platform again (see picture 5). Otherwise the developing negative pressure would suck the liquid again from the bottle.



Pic. 5: Liquid must be put back to the platform

11. If the record on both sides is completely dry, switch than the vacuum switch on position "off" - - without interruption of the rotating motion. Swift the upper cleaning unit off the plate, and put the cleaning arm outward into the resting position. Thus the magnetic attraction is separated, so that also the lower and upper cleaning unit releases the record.

12. The anti-static brush arm treatment should be always done after every cleaning procedure.



Pic.6: Throwing the brush arms

13. Swift the anti-static brush arm unit from the outside over the rotating record to the centre and after 2-3 full revolutions swift the arm again outward back into the stand by position. In order to swift the anti-static brush arm, press the brush first easily downward. In the outside positions (disk centre and stand by position) this engages then easily.

14. The fluid storage tank must be emptied, after approx. 50 records were washed.
Please see page 8/9.

15. Place a sufficient large container on the floor, pull the tube on the back approx. 30 cm.
Removes now the tube stopper and emptying the fluid.

We wishes you a lot of pleasure with your new *Double – Smart Matrix!*

Your **clearaudio** - Team

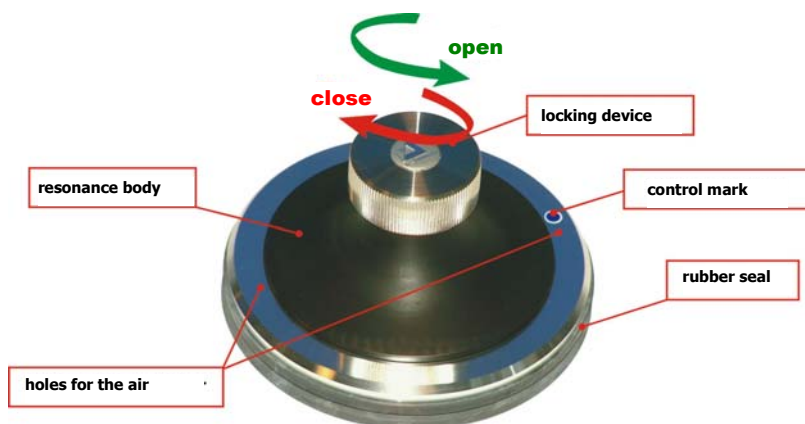
Please first finish reading the whole manual!

4. Operating elements and functions

The clearaudio "Seal record clamp"

The **clearaudio** "Seal record clamp" (pic.7) has been developed to cover and seal the record label and to hold the records tight on any platter devices.

On the outer aluminium ring you will find two small deflation holes, so that there will be no vacuum while putting the seal clamp on records. This make it easier to release the clamp after the cleaning process.



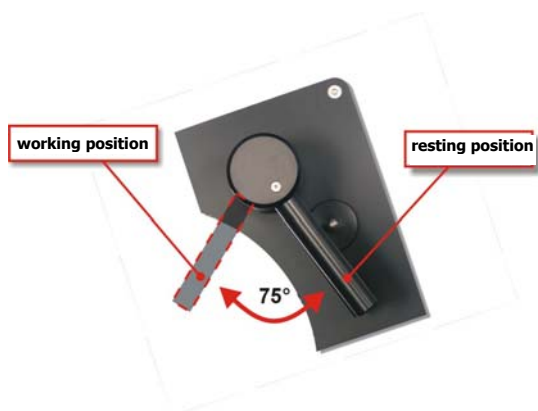
Pic. 7: "Seal" record clamp

Important!

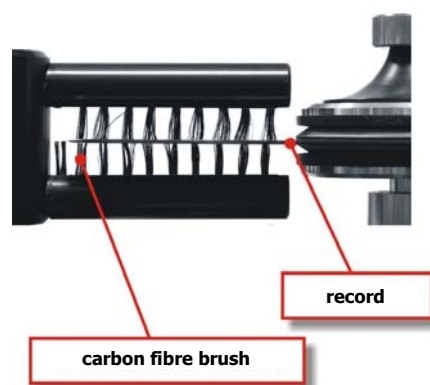
Please place the "Seal record clamp" with some pressure on the record in order to avoid any unwanted sliding of the record!

Antistatic brush unit

The antistatic brush (pic. 8+9, page 9) is used to discharge any electrical charges, which can occur while cleaning. After vacuuming the record and only when the surface is dry, place the antistatic brush in position while twisting it to the left (towards the record). Leave it in place for one turn (use the blue helping spot).



Pic. 8: Working position



Pic. 9: Carbon fibre hairs and record

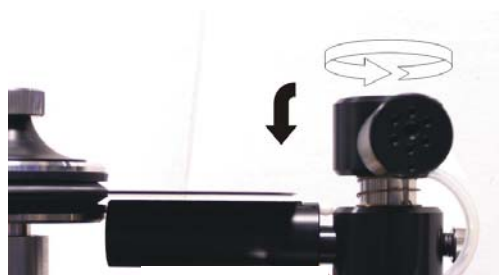
This Function can be used as well if you do not clean a record.

If the hairs of the carbon fibre brush are not building enough connection to the surface of the record, use a comp to place the carbon hairs back in position.

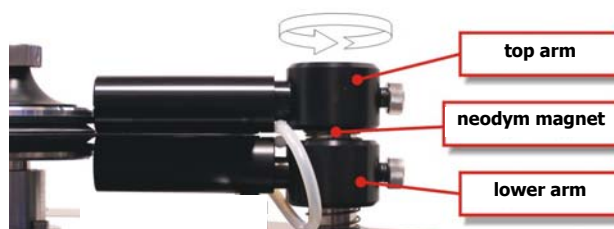
Top and lower cleaning arms

The top and the lower cleaning arms include the cleaning and the vacuum. If the top cleaning arm is in working position (pic. 11), there is always a constant pressure on the record. In the resting position (pic. 10) the top and the lower cleaning arms are automatically in a distance to the record. The top cleaning arm (pic. 10) can be twisted 90° degree, to be placed parallel to the lower cleaning arm. The lower cleaning arm can not be moved, as it is automatically moving horizontal due to the inserted magnets.

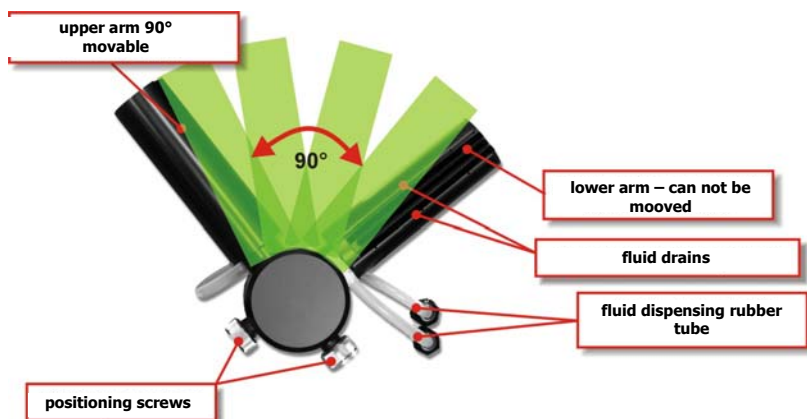
By lifting the upper cleaning arm the lower arm will be detached.



Pic. 10: Resting position

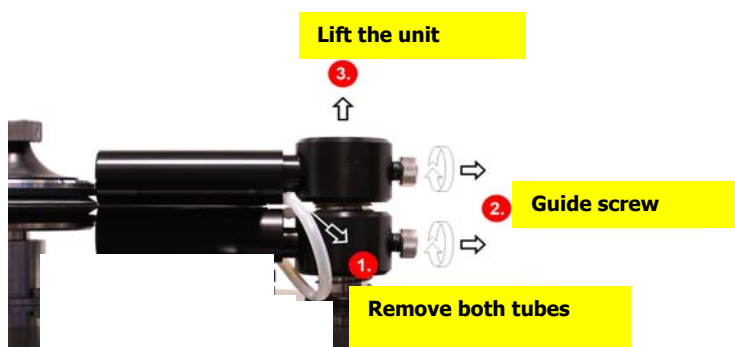


Pic. 11: Working position



Pic. 12:Cleaning arms schema

Demounting and mounting of the cleaning units



Pic. 13:Demounting and mounting washing unit

Demounting:

To exchange the micro fibre and for cleaning the fluid storage tank you have to remove the cleaning unit.

1. First remove both tubes from the cleaning unit (pic. 13/ No.1)
2. Unscrew the two bolts (pic. 13/ No. 2)
3. Now you can lift off the cleaning units (pic. 13/ No. 3)

Mounting:

For the mounting of the cleaning units please follow the procedure in reversed order.

**If one or both cleaning arm tubes are taken off, never switch the vacuum on !
Fluid can be get into the vacuum engine and damage can occur !**

Control mirror

Through the mirror you are able at any time to control or just to enjoy the cleaning process from the bottom side of the record. Additionally, you are able to make sure that the surface is completely dry after the vacuum process.

Mirror change

The mirror can be exchanged in case of scratches or dullness. First take off the small platter to loose the three lock screws.



Pic. 14: Demounting of the platter

To bring the mirror to the right position, we recommend you to uninstall the cleaning arms (see page 10).

A little dent on the upper plate is provided for an easier lifting of the mirror (pic. 15), which is fixed with 6 adhesive tapes. Please remove any waste of glue or dust with alcohol.



Pic. 15: Mirror with adhesive tape

Mirror replacing

You will find on the bottom side of the mirror already 6 pre mounted self-adhesive pads, from which you first take off the protection foil. Now place the mirror into the cut out and press it gently down onto the surface. Now you can place the cleaning units back.

Only after finishing the exchange of the mirror, take off the protection foil. White residue of the manufacturing process can appear on the surface, which can easily be wiped off with a wet cloth.

Operation panel

Main power at the back panel

At the back panel you have the main power switch. The power socket is equipped with a 10 ampere fuse (10 AF).

If the unit is not used for a longer period, please disconnect it always from the main power.

Switch "MOTOR", left and right

With this switch you can control (pic.3 / page 6) the movement direction of the platter. If the switch position is on "off", the platter does not turn.

Switch for vacuum function

Use the switch "Vacuum" (pic. 3, page 6) to start the suction.

Initial operation

1. Please use the antistatic brushes not for wet records!
2. Before using the antistatic brushes again please remove all dust.
3. Change regularly the micro fabric stripes to secure a right cleaning process.

Changing the micro fibre stripes

This procedure will be easier if you take off the upper cleaning arm (page 10). Before taking off the old micro fibre stripes, please remember the previous position of them. The adhesive surface must be clean and dry. After you have taken off the protection foil, place the new micro fabric stripes on the previous place and press the stripes gently onto the cleaning arms.

Attention!

Do not place the stripes over the small fluid dispensing holes.

Self cleaning procedure

After cleaning several records, depending on the dirt level of the records, you should clean your cleaning arms, as dust and dirt may influence the perfect cleaning procedure. Please place the upper cleaning arm in working position over the lower one.

Attention!

Please never place a record onto the machine while the self cleaning process.

Turn the "MOTOR" switch on for approx.20 seconds. The waste dust on the outer banks of the micro fibre stripes can be wiped off easily with your fingers.

Emptying and cleaning of the fluid storage tank

Draining the collecting tank

Place an adequate container on the floor for the disposal fluid. Take off the secure cap of the rubber tube and place it into the disposal container. Tilt the machine towards the back (about 45°), until the fluid drains out of the tube.

Attention!

When finished, always place secure cap back on the tube !

Do not reuse the drained fluid!

Cleaning the collecting tank

Take off the upper cleaning arm and fill the cleaning fluid into the stainless steel tube. Water and vinegar (2 spoons) are appropriate enough.

Attention!

During the cleaning process, never switch on the vacuum!



Pic. 16 Tube stopper on the back panel

Before releasing the rubber tube, let the fluid rest in the tank for about 20 minutes.

Important:

Before transport of the *Double Smart Matrix* empty the fluid storage tank!

Please pay attention that the tube stopper is always in the tube if the *Double Smart Matrix* is in use!

5. Further information

- Please take care to vent the place where you use the *Double Smart Matrix*!
- Never use foaming fluids!
We recommend to use only the **clearaudio** cleaning fluid „Pure Groove“ (AC048)
- Do not reuse the drained fluid!
- Please remove all cleaning fluid which get on the housing of the machine with a cloth.
- Please change the collecting tank after approx. 50 cleaned records.
- To cool down the machine we recommend to stop washing after approx. 50 records for a short time

6. Accessories

You can purchase the provided accessories for the *Double Smart Matrix* either by your distributor or in clearaudio shop: www.analogshop.de

Micro fibre stripes (Art. No. AC062/dm):

The provided micro fabric stripes are able to even get dust and dirt out of the lower parts of the record grooves. The exchange stripes provided from clearaudio are already cut to the correct length.

Depending on the usage, especially if a lot of very dirty records are cleaned, you should change the stripes every 200 record sides. Please keep in mind that after changing the micro fabric stripes, the machine should not be used for 24 hours.

The full contact of the glue will appear after 24 hours. If used too soon, the stripes will not hold properly to the arm tube and damage may occur to your records.

Record cleaning fluid „Pure Groove“ (Art. No. AC048):

In general, we recommend the „Pure Groove“ liquid (Art. No. AC048). This fluid works ideally for cleaning dust, dirt, residues or leftovers from the pressing procedure. It evaporates completely after using and does not leave any residue on the record.

Double Smart Matrix mirror (Art. No.: AC111):

Replacement - mirror for a free control view.

Dust Cover (Art. No. AC110):

Shapely acrylic-dustcover for the *Double Smart Matrix* to protect against dust and damage.



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7. Service - information

The warranty time for the *Double Smart Matrix* is two (2) years.

You can achieve the extended warranty time of three (3) years, if you fill out the warranty card and send it in within 2 weeks after purchase, to the following address :

clearaudio electronic GmbH
Spardorfer Str. 150
91054 Erlangen
Germany

Please note, never use foaming or acid fluids!
Use always special **clearaudio** "Pure Groove" fluid. Otherwise no warranty will be avoid

The *Double Smart Matrix* should only be repaired by clearaudio or approved institutions or persons, otherwise the warranty will be void.

A frequent optical control of the mains cables is requested, for your own safety. If any damage should occur, the repair or exchange should be done immediately through an approved electrician or institution !

A service of clearaudio products should be done only by certified clearaudio dealers.

If damage of the machine for any reason should occur, and a repair of the machine is necessary, than it should be sent to the selected dealer, distributor or directly to :

clearaudio electronic GmbH
Spardorfer Str 150
91054 Erlangen
Germany

Tel/Phone: +49-(0)9131 / 57702
www.clearaudio.de
www.analogshop.de
info@clearaudio.de

If you transport or ship the *Double Smart Matrix*, the use of original packaging is required!
Please pack the machine like it has been packed originally from **clearaudio**. Only in the original packaging a secure transport is possible.

Legal disclaimer :

Clearaudio refuse to cover any claims or damage to records or any other damage, that have been caused by misuse or mishandling of the *Double Smart Matrix* !

8. Technical Data

Construction principle:	The <i>Double Smart Matrix</i> is a clearaudio patented double side record cleaning machine providing left and right turning of the platter with manual fluid application.
Weight :	approx. 12 kg , including Motor
Dimensions (width, length, height in inch):	approx. 18,5 x 14,57 x 13,58
Dimensions (width, length, height in mm):	approx. 470 x 370 x 345
Warranty :	3* Years (see Point 4)
Power consumption :	Platter-Motor : 20 Watt max. Vacuum engine : 500 Watt max.
Total power consumption:	approx. 500 Watt
Noise Level :	approx. 72 dB

* applies only if warranty card has been filled out and sent in (see Point 7)

NOTE :

This unit / machine is build to be used in heated or climatic controlled surroundings.
Never touch the power cord with wet hands or other wet body parts !
Never put or use any equipment with open flames, like candles on top of this equipment !

CE The **clearaudio** *Double Smart Matrix* is approved according to the regulations of the CE certification and other international standards and approvals.

clearaudio electronic is not responsible for typographical errors in descriptions. Technical specifications subject to change or improvement without prior notice. Availability as long as stock lasts. Copies and imprints- also only in extracts – require written conformation through **clearaudio** electronic GmbH; Germany

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To achieve the full **clearaudio** warranty, it is necessary that you fill out and send the corresponding part of the warranty registration certificate /card back to clearaudio, within two weeks after purchase. Only if the product is returned in it's original packing clearaudio can provide the warranty of 3 years. Otherwise clearaudio provides the legal warranty of 2 years.

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 verbond 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.

ITALIANO **GARANZIA**

L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

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 dettate 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.