



Loving music

# ***Ultra Filter UF1***

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**User manual**



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Hi-Fi Components **clearaudio electronic<sup>®</sup>** GmbH

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Dear **Music** Lover,

Congratulations for choosing the *Balance Amplifier*, a world class high end product made by **clearaudio** electronic GmbH.

Please read these instructions carefully, to avoid any damages or loss of quality or warranty. These instructions will help you with an easy set-up and guarantee the highest satisfaction for a long time.

We wish you a lot of musical enjoyments with your new **clearaudio** *Balance Amplifier*.

**clearaudio** electronic GmbH

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## 1. Scope of supply

**clearaudio** has developed a special and secure Amplifier packing for your *Balance Amplifier*, to avoid any transportation damages. Please store this original packing, in case you need to ship the amplifier.

Below you can find the content of delivery of the **clearaudio** *Balance Amplifier*:



1	Balance Amplifier	2	Main cable
3	Warranty card and user manual (not shown)		

## 2. Front view and operating elements



**Pic. 1:** Front view and operation elements

<b>1</b>	<b>LED „Overheat“</b> lights up if the amplifier is overheating, at the same time the speaker output will be shut down. If the amplifier cools down, it will be switched on automatically.
<b>2</b>	<b>LED „Short“</b> lights up in case of overload (to small impedance from the connected speakers).
<b>3</b>	<b>LED „DC Out“</b> lights up if DC voltage on the speakers output e. g. by a damage of the amplifier, resp. short after power up the amplifier.
<b>4</b>	<b>LED „Power“</b> lights up when the amplifier will be switched on with the „Standby/On“-power button.
<b>5</b>	<b>LED „Standby“</b> lights up if the power switch on the rear side if the amplifier is in the standby-mode.
<b>6</b>	<b>Switch „Standby/On“</b> indicates „Standby“.
<b>7</b>	<b>LED „Bridge“</b> lights up if the amplifier is used in the bridged mode.

## 3. Rear view and operating elements



**Pic. 2:** Rear view and operation elements

<b>8</b>	<b>XLR symmetric input</b>
<b>9</b>	<b>Input selector</b>
<b>10</b>	<b>Mode selector (Stereo or Bridged)</b> <b>Important!</b> By using bridged mode, the speaker-cable must be fixed on both red speaker outputs. See indication, please be alerted, to connect plus (+) and minus (-) of the speaker cable correctly.
<b>11</b>	<b>RCA unbalanced input</b>
<b>12</b>	<b>Right and left speaker output terminals</b>
<b>13</b>	<b>Main power on/off</b>
<b>14</b>	<b>Power/main cable input</b>
<b>15</b>	<b>Main fuse for left and right channel</b> <b>3,15 A (slow blow)</b> , use only this type of fuse. Other types might damage the unit!

## 4. Installation and set up

Please place the amplifier in the centre of your Hifi components (so that the cables are in the same length). Please pay attention, that you have **at least a 10 cm distance** between the top side of your amplifier and your upper layer of your rack (the amplifier is a **Class A version**, and there needs to be enough air circulation!).

Please connect now all connections from your Hifi components.

### **Important:**

**Make sure that before you connect the main cable, your main voltage from the amplifier would be the same as your main power supply system!**

Connect the output from your preamplifier with the appropriate input from your amplifier. You can choose between various connecting- and mode-types as shown below.

### **4.1. Stereo-mode unsymmetric (RCA):**

- input selector (9) **pressed**
- mode selector (10) **not pressed**

The music-signal will be connected with **RCA-input unbalanced** (11), the speakers will be connected with the white and red speaker terminals (12), each.



**Pic. 3:** Installation RCA

## 4.2. Stereo-mode symmetric (XLR):

- Input selector (9) **not pressed**
- mode selector (10) **not pressed**

The music-signal will be connected with the **XLR-input (8)**, the speakers will be connected with the white and red speaker terminals (12), each.



Pic. 4: Installation XLR

## 4.3. Mono-bridged unsymmetrical:

- Input selector (9) **pressed**
- mode selector (10) **pressed**

The music-signal will be connected with the **RCA-input (11 black coloured/marked)** for the **left channel** connection to the speakers connect them with both red speaker outputs (12).



Pic. 5: RCA Input / Left channel

## 4.4. Mono-bridged symmetric:

- Input selector (9) **not pressed**
- mode selector (10) **pressed**

The music-signal will be connected with the **XLR-input (8) left channel**, connection to the speakers connect them with both red speaker output (12).



Pic. 6: XLR Input / Left channel

In the normal stereo mode please use the red and white speaker outputs for the left and right channel.

**If you use the amplifier in the mono-bridged mode, you must connect the speaker with the red speakers output connectors, the plus connector is the red connector from the left output and the minus connector is the red connector from the right output, to speakers.**

**In the bridged mode, the impedance of the speakers should be not lower than 4 Ω!  
Damage of the fuses might occur!**

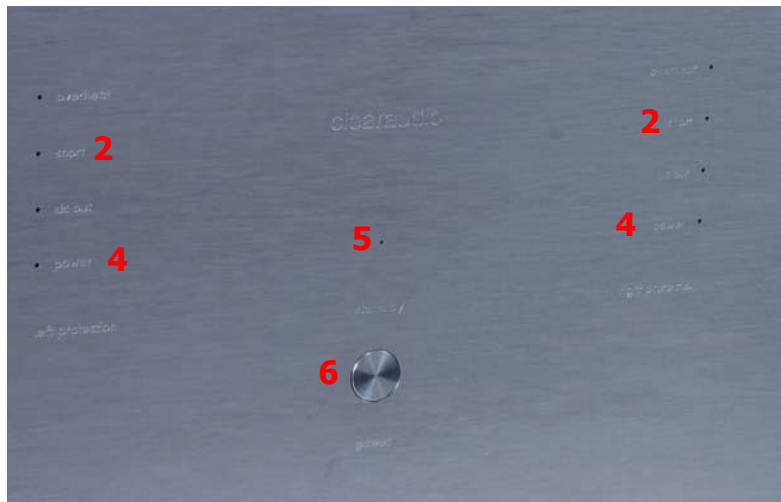
At next you set the connection to your speakers.  
If all connections are fixed you can turn on the amplifier with the "power" (13) switch on his back.

After the switch "on", the amplifier would be in the „Standby" mode.



Pic. 7: Power on/off

On the front side glows the „Standby-LED“ (5). If you press the power button (6) into the amplifier turns into the normal mode and both LEDs „Power“ (4) glowe.



**Pic. 8:** Front side LEDs

For approx. one second both LEDs „Short“ (2) will glowe if you turn the Amplifier on.

After 4-5 seconds the output relays for the speakers outputs will stretch and the amplifier will be ready.

If you turn off the amplifier for a short time, please use the „Standby/On“ (6) button on the front side, for a longer time (several days) please use the „Power“ switch on the back side to switch off the amplifier completely.



**Pic. 9:** Stand by / on button



**Pic. 10:** Power on/ off button

## 5. Service and special information

In case of any necessary service for all **clearaudio** products should be done by authorized personal only.

In case of any repair, the clearaudio *Balance Amplifier* needs to be sent to your nearest authorized dealer or directly to the **clearaudio** factory.

Send / ship the *Balance Amplifier* always and only in the original packing!!! Only in the original packing **clearaudio** can provide the warranty.

To achieve the full **clearaudio** warranty, it is necessary that you fill out and send the corresponding part of the warranty registration card back to **clearaudio**, within two weeks after purchase. Only if the product is returned in its original packing **clearaudio** can provide the warranty.

## 6. Technical data

The correlation between published specifications and performance is unreliable. Measurements of your amplifier yield excellent results by any standards. However, only those specifications that apply to its actual operation are included here.

<b>Rated power output:</b>	2 x 50 W/ 8 $\Omega$ pure class A 2 x 94 W/ 4 $\Omega$ class A 1 x 160 W/ bridged mode 8 $\Omega$
<b>Frequency response:</b>	from 20 Hz to 20 kHz (- 0,2 dB)
<b>Signal to noise ratio (main outputs):</b>	100 dB linear
<b>Distortion factor:</b>	0,02 % with 1/10 power rating
<b>Input impedance:</b>	balanced and single-ended 10 k $\Omega$
<b>Gain:</b>	34,4 dB
<b>Input sensitivity:</b>	370 mV for full output power
<b>Power consumption:</b>	250W ( $\pm$ 5%) at idle, 150W ( $\pm$ 5%) in standby
<b>mains voltage:</b>	determined by the needs of country (115 V or 230 V) which the unit was manufactured for; <b>cannot be reset by dealer or user</b>
<b>Overall dimensions (mm):</b>	435x220x270
<b>Connector complements:</b>	four custom binding posts two 3-pin XLR balanced input connectors two RCA input connectors
<b>Weight:</b>	30 kg
<b>Warranty:</b>	5 years *

Only if the warranty card is filled out correctly and sent back to clearaudio. Please see Point 5!

**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 (*Ultra Filter UF1* 5 years), 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 5 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 verband 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 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.