

Reference 150 LINEAR

USER GUIDE

Congratulations on your new CONSONANCE!

Our products are based on a simple philosophy:

The component shall reproduce the original musical sound, purely and naturally.

The products are easy to operate and are manufactured according to the best quality principles.

All CONSONANCE products are created with acoustical instruments in a concert situation as point of reference. The music is reproduced exactly like the original and is limited only by the quality of the recording.

Our aim is to give you the best possible music experience!

CONTENTS

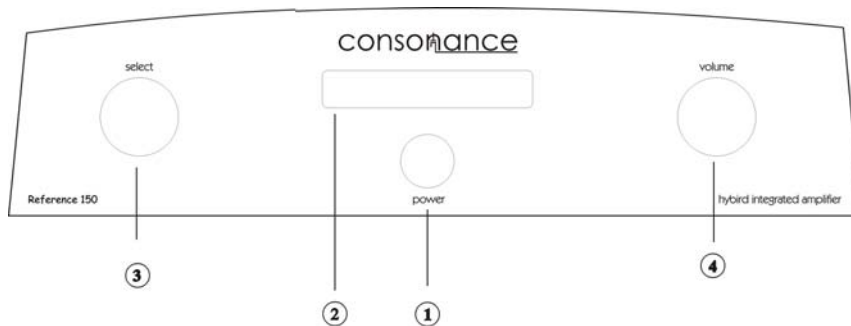
Sound Advice	p.2
General use	p.3
Remote Control	p. 3
Use & Placement	p. 3
Cleaning	p. 4
Technical specifications	p. 4
Note & Warning	p. 4
Warranty	p. 5

SOUND ADVICE

The Consonance Reference150 Integrated Amplifier is easy to connect and operate and requires no prior technical knowledge. However, to get the most out of the amplifier's superior sound and music quality, we have provided a brief description of the connections and use of the amplifier in order to provide a total music experience.

We recommend keeping this user guide for future reference.

GENERAL USE



The amplifier is switched on with the button ① ②Display. By pushing the same button one more time the power is switched off.

When power is switched on, the blue display will light and keep flashing slightly. After about 30 seconds, stop flashing.

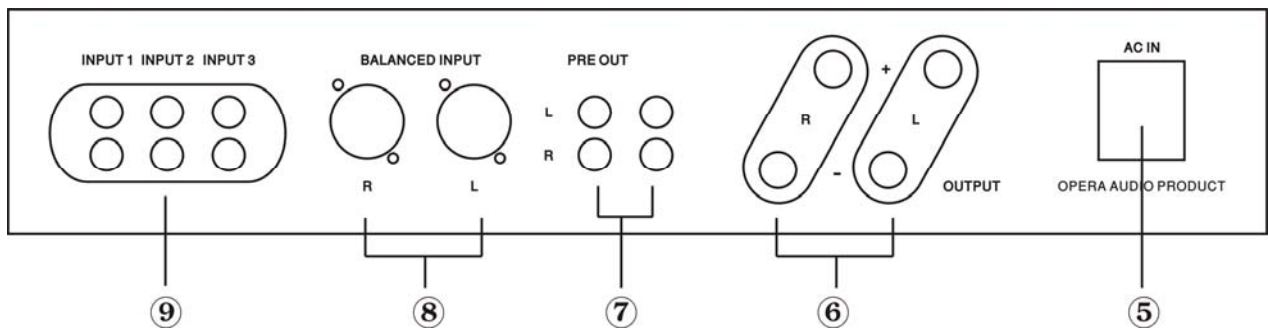
Note: It takes about 1 minute for the 6H30 tube to reach its normal operating point, and only slight sonic improvement will be noticed after 5 minutes.

the left knob ③ is the channel selector with selections: INPUT1(" IN1"), INPUT2(" IN2"), INPUT3(" IN3"), BALANCED INPUT("BAL") , and the right knob ④ is the volume control.

Avoid connecting input cables or selecting inputs with the source selector switch if the volume setting of the amplifier is not fully turned down and the speakers are connected. A transient signal might then arise, which can damage the speakers. The amplifier will not be harmed, but to avoid overloading the speakers, the volume should be turned fully down or the mute function should be switched on when connecting and disconnecting cables.

Note: The volume will be turned fully down automatically when the amplifier is switched off and re-switched on for the same reason.

After the amplifier is switched on, there is a delay of about 30 seconds for the music signal to reach the speaker outputs. The amplifier is protected against short-circuiting of the speaker terminals , but we still recommend turning off the amplifier when connecting and disconnecting signal and speaker cables. The amplifier is designed to be used with a CD player, DVD player, cassette deck, tuner or similar sound source.



From left to right the connectors are :

- ⑨ INPUT1("IN1" displayed on the screen) Phono/RCA Signal input right/left
- ⑨ INPUT2("IN2" displayed on the screen) Phono/RCA Signal input right/left
- ⑨ INPUT3("IN3" displayed on the screen) Phono/RCA Signal input right/left
- ⑧ BALANCED INPUT("BAL" displayed on the screen) Balanced/XLR Signal input right/left
- ⑦ Pre output Phono/RCA right/left
- ⑥ Speaker output right
- ⑥ Speaker output left
- ⑤ AC Power connection 230V / 115V / 100V AC dependent on country.

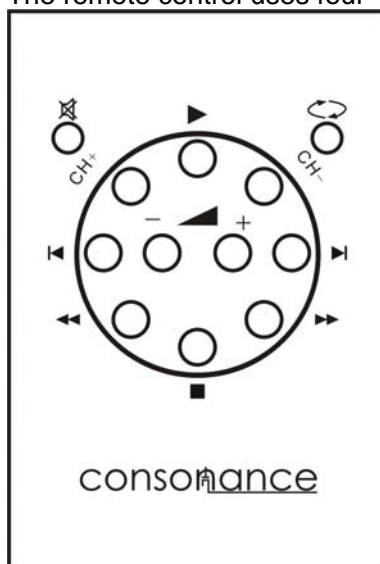
The preamplifier section of the Reference150 has two types of audio inputs: unbalanced audio signal with RCA plugs (phono plugs) and true balanced audio signal with XLR plugs (pin 2 is positive phase, pin 3 is negative phase and pin 1 is chassis earth), but only one type of outputs: unbalanced audio signal with RCA plugs (phono plugs).

CONSONANCE REMOTE CONTROL

The Consonance Reference150 can be controlled by an optional Consonance system remote control. Like other Consonance products, the number of buttons is kept to a minimum.

The volume, channel select and mute functions of the Reference150 can be operated by using the remote control. The Consonance system remote control will also control other Consonance products like CD players, avoiding the need of several different remote control devices.

The remote control uses four 1.5-volt LR03 AAA batteries .



USE & PLACEMENT

The Consonance Reference150 should be placed on a flat, hard surface for proper cooling. The amplifier performs best after being switched on for 1 hour for heating up. A certain space is required for air circulation above and below the amplifier. The amplifier must never be placed on a carpet or similar

surface that obstructs air circulation through the component. Nor must it be covered while in use or placed on a narrow shelf or in another confined space.

The amplifier will automatically switch itself off if overheated.

CLEANING

The top cover and knobs are made of wood and anodized aluminum, while the front panel is made of solid, powder coated aluminum. Fingerprints or stains on the front panel, knobs or top cover can be removed with a cloth moistened with warm water.

TECHNICAL SPECIFICATIONS

R150 Integrated Amplifier

Specifications:

Power output	120W +120W at 8 Ohms
Minimum load	2ohms speakers can be connected.
Input Sources	4 selectable inputs switched by gold plated relays
Input Terminals	Gold plated Phono/RCA unbalanced and gold plated XLR balanced
Output Terminals	One set of gold plated speaker terminals each channel
Line level Outputs	Gold plated Phono/RCA unbalanced pre out
Frequency response	Less than +/- 0.1 dB deviation 20Hz-80kHz
Phase response	Less than 2 degrees deviation 20Hz-80kHz
Signal-to-noise ratio	More than 100dB
Crosstalk	Less than -100dB
Distortion	Less than 0.04% @ 20W 80hms
Inter-modulation	Less than 0.01% (19kHz + 20kHz)
Damping factor	More than 800
Vacuum tube	Sovtek 6H30 x1
Remote Control	RC-5 compatible IR system 36kHz modulation
Dimensions	12cm x 43cm x 32cm (HxWxD), 18kg shipment weight.

NOTE & WARNING

Consonance products should only be opened or serviced by certified technicians. The devices contain electronic components that can cause severe electric shock. Work performed on Consonance products by unqualified personnel can cause serious damage and personal injury.

Opening of the product by non-authorized personnel will void the guarantee.

The products must not be exposed to rain or moisture.

Warranty

Opera audio guarantees each product manufactured by us to be free from defects in materials and workmanship under normal use. Our obligation under this warranty is limited to making good at our factory any part or parts thereof which shall, within 1 year after delivery to the original purchaser, be returned to us with transportation charges prepaid, and which an examination shall disclose to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on our part. This warranty shall not apply to any Opera audio product which shall have been repaired or altered outside of our factory in any way so as to affect its stability, nor which has been subject to misuse, negligence or accident. Warranties of the vacuum tubes are by the respective manufacturers, usually 90 days.

Please mail or e-mail the Registration Card to the address as follows:

The Opera Audio Co., Ltd.

No.2 JianXianQiaoLu
ChaoYang District
Beijing, China
Tel: 86 10 64377091
Fax: 86 10 64377465
support@opera-consonance.com
www.opera-consonance.com



Registration Card

Name
Address
City
State
Zip
Email
Telephone
Model
Serial Number
Purchase Date
Dealer