AMP150 Integrated Stereo Amplifier

Warning：

Water and moisture: This device should not be used near water (as per example, near a bathtub, washbasin, kitchen sink, laundry tub, wet basement or swimming pool). Care should be taken such that objects do not have the opportunity to fall, and that liquid is never spilled onto or into the device enclosure through openings.

Power Sources: This device must be connected to a mains power source in strict accordance with the supplied product owners manual. Please verify that the AC mains voltage specified in the product manual matches those requirements indicated on the unit and the AC voltage provided to your location by the power company. The product MUST be connected to a MAINS socket outlet with a protective earthing connection.

Power Cords: We provides a power supply cord that meets all legislated requirements for the market in which the product was originally sold. If you choose to substitute an after-market product we urge you to choose one that is fully safety rated by the necessary local authority.

Power supply cords should be routed so that they are not likely to be walked on, abraded, or pinched by items placed on or against them, paying particular attention to cords where they enter plugs or exit from a device. Never under any circumstance insert a cut or damaged power cord into a mains power socket. Cables should never be connected / disconnected with equipment powered up. Failure to heed this warning may damage or destroy equipment.

Ventilation: Power-amplifiers run warm, but you should be able to place your hands on them without discomfort. You must allow for this heat in installation, by providing for free air circultion around the product. Leave a minimum of 6" of space around the amplifier. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

Other Warnings:
No naked flame sources, such as lighted candles, should be placed on the apparatus; This amplifier is suitable for tropical climates under 2000m and ambient temperatures of 40 degreesC or less.

Servicing: To reduce the risk of fire, electrical shock or other injuries, the user should not attempt to service the device beyond that which is described in the operating instructions. All other servicing must be referred to qualified service personnel.

For Units With Externally Accessible Fuse Receptacle: Unplug the device from all sources of power before changing or inspecting any fuse. Replace fuse with one of same physical size, type and rating as that specified by the manufacturer for that product.

Introduction:

The Model AMP150 is like a "Swiss Army Knife", a high end device that integrates multiple functions. It caters to all modern music sources: streaming from the network, the Internet, or your mobile device. It also connects to music streaming platforms such as Spotify,Tidal, qobuz and Roon. Naturally this device includes Bluetooth and inputs for digital and analogue sources. It is equipped with high-quality balanced and unbalanced inputs.

The RCA and XLR inputs are flexible in operation, and can be assigned to different source devices. The input selector switches incorporated gold-contact relays of outstanding quality in order to guarantee freedom from harmonic distortion and background noise.

The AMP150 reigns with power and superb sound. The unit was developed from the Cool Class A technology, whose outstanding sound we succeeded in improving further. With a high damping factor, it is powerful enough to drive almost any loudspeaker currently on the market.
With the AMP150, you can easily connect to your speakers and enjoy your favorite music right away.

Thank you for purchasing this AMP150. It is my sincere hope that you will enjoy it as much as we do.

Setup：

The AMP150 measures 43cm W x 40cm D x 12cm H and weighs 12kg. You may place it wherever you please, but it is going to need lots of free air for adequate cooling.
There needs to be space above and unobstructed space around the sides to allow for proper air flow. This is a factor in reliable operation and long life.

If the amplifier becomes too hot to touch please contact your dealer or the factory for assistance.

AC power is provided by a conventional detachable IEC 320 grounded AC mains power cord. This power cord serves as the safety disconnect. The power cord should be removed from the wall in the event of electrical storms or when the AMP150 is not going to be used for long periods.

The required voltage and correct fuse value will be indicated on the rear of the amplifier.The 220 - 240 Vac build amplifiers are fused at 5A.Both 100 Vac and 120Vac builds are fused at 8A.

In all instances the fuses are type 5x20mm slow blow (time delay) fuse rated.Do not substitute fuses of different values or physical size. If you cannot source equivalent replacement fuses locally, please contact your dealer or the factory.

The fuse holder is located on the rear panel of the amplifier. Changing the fuse requires a close fitting straight blade screwdriver,and the power cord should be unplugged from the wall. If you are not comfortableperforming this function in the unlikely event that it becomes necessary, please contact your dealer or a service professional.
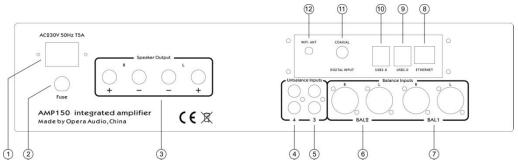
Quick Connections:

Connect your sources to the inputs. There are four inputs, two with XLR ⑥⑦ and two with RCA ④⑤ only.

Output Connections and Loudspeakers：

The rear of the AMP150 is equipped with a pair of binding posts for each channel, four total.The binding posts are marked red and black.

The Red output connector connects to the Red (+) of your speakers and the Black connector will connect to the Black (-).
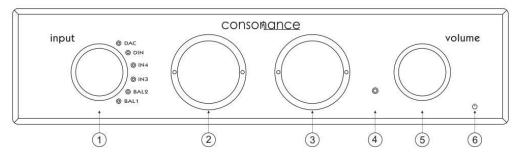
Rear panel

The amplifier is stable into any load which does not dip below 2 ohms, but it will protect itself by shutting off any channel which outputs more than 8 amps (200 watts peak into 2 ohms). The protection circuit is reset by turning the amp off for a few moments and then turning it back on. We recommend that you check your output wiring and/or the loudspeaker if this happens, and contact your dealer or the factory if you have problems.

The binding posts deserve special note - in keeping with the requirements of Class 2 circuits in North America they are fully insulated. Speaker cables connected as intended will have no exposed conductive metal. The posts accept banana, spade, bare wire or pins with a diameter of 4.5mm or less. Bare wire, pins and spades socket into the binding post only from the bottom. The nuts on the binding posts should only be finger tight. Never tighten with wrench or pliers.

Operation:

Front panel

Once the speakers have been connected in observation of the proper regulations and with the observation of polarity and phase you may attach the input cables and power cord. It is always advised that the power cord is the last connection made and the first to be removed.
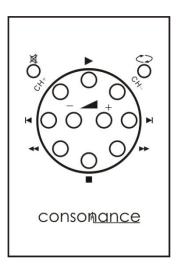
You are now ready to play music. Press the power switch ⑥ of the AMP150, the VU meter ②③ will light up. Select the input ① you want from the front panel or remote. Turn the volume ⑤ up to your preferred listening level. Sit back and enjoy!

The AMP150 takes approximately an hour to fully warm up and sounds better as it does. The VU meter located in the middle of the front panel will display the output power of the two channels.

Remote Control:

This remote is designed to operate several pieces of opera-consonance electronics, not all of the functions available on this remote will be applicable to your AMP150.

The volume, channel select and mute functions of the amplifier can be operated by using the remote control. The opear-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 two 1.5-volt LR03 AAA batteries. The two AAA batteries should be replaced every six months at least. The batteries are located under the remote back. This is held in place with four phillips fl at head screws. Please note the polarity of the batteries, putting them in wrong could cause damage.
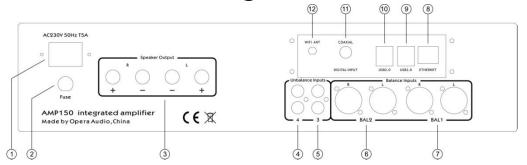
Cleaning:

The finish can be damaged by harsh cleaners and abrasive cloths. We find a damp soft cloth works best. You can also use a mild solution of windex or white vinegar but be careful to avoid the acrylic window. The acrylic window should only be cleaned using "plastic cleaner & polish".
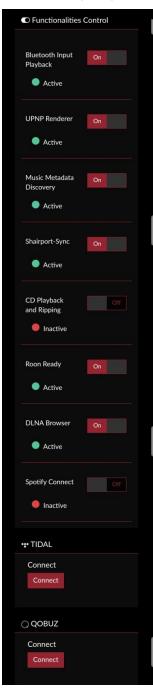
Streaming Media Playback:

The digital stream unit of AMP150 works best when it is connected to your network, since it is meant to be used as a headless device: no monitor connected, and

controlled via another device (PC, smartphone, tablet etc).It is the easiest way to connect your router to your network⑧ with a network cable. No setup is required.

Another easy way to connect to it, especially on first setup, is to connect in Hotspot Mode. If no wireless network is configured, it will create a network called "Opera". Simply connect to it (password: 12345678) and the User Interface will automatically pop up.

It can be controlled via a Web User Interface, it means that the controlling device can be a mobile phone, a tablet, a PC, and more generally, anything with a browser. For an optimal experience, Google Chrome is suggested.

To reach our User Interface, first discover the IP address of your unit. To do so, an easy way is to use FING Android and iOS App.

Opera_consonance also provides Android apps.
http://www.opera-consonance.com/products/amplifier/AMP150.htm
It will automatically discover the unit on your Network and reach web-UI.

Apple system opens Safari browser, enter opera.local/, PC recommends using Google Chrome, enter opera/ to reach web-UI.
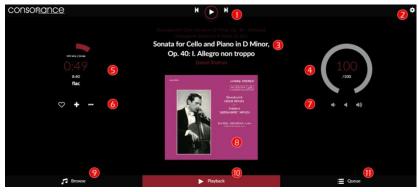
Once the system is operational and you have connected to it through your network or via the hotspot, you will reach Opera's web-UI.

The first time please click on the cog-wheel in the top right part of the UI, select "**My Music**" and you can see all kinds of streaming media receivers. When leaving the factory, we will activate all of them by default.

Before using TIDAL and other streaming media, you need to log in and register. The Bluetooth receiver of this machine is called "Opera".

You can also connect a USB Drive on USB2.0⑨or⑩ with your music.

Once the first setup has been completed, your unit is ready.

Depending on the device used to connect to unit, a desktop or mobile version of the User Interface is shown. Both provide same features, but ergonomic is different to best fit with the use (mobile or desktop).

Opera's User Interface is made up by 4 main components:

- ▶ Playback Page tab
- 🎵 Browser Page tab

- 📋 Play Queue tab
- ⚙ Settings pages

1 - Command buttons
Play/Stop
Previous: jump to previous track
Next: jump to next track

2 - Settings gears
Here you'll find all settings

3 - Track text information
First line: Album name
Second line: Track title
Third line: Artist name

4 - Volume Settings
Please use the default (maximum volume)

5 - Timer zone
Miscellaneous info about the played track
First line: Sample rate / bit resolution
Second line: Elapsed time
Third line: Total duration
Fourth line: Track source

6 - Track management
Left: Add to favorite
Middle: Add to playlist
Right: Go to - Artist/Album – Twitter

7 - Volume control
Left: Lower volume
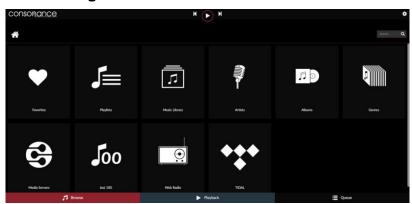Middle: Mute
Right: Higher volume

8 - Album art Display
Display album art for the played track or radio if available.

9 - Browse page
Clicking here, you access to all available music on your system (Nas, USB disk, radio, depending on plugins/options installed).

10 - Playback
The current page

11 - Queue
Here you access to the current queue with all tracks in it.

Browse Page

Clicking on Browse tab will allow to access all available music sources on your system.

Queue Page

Clicking on Queue tab will allow to access to the queue of the tracks that are going to be played.

1 Random
Randomize the order tracks are played

2 Repeat
Repeat the track

3 Save
Save the current queue as a playlist. A name is asked for this Playlist

4 Clear queue
Clear the current queue

5 Remove track
Remove track from the queue

More features

You can change the order of each track by clicking and moving it up or down.

Software Upates

The unit features an OTA (Over The Air) updater, meant to allow seamless and reliable way to update to new system versions. It's strongly suggested to check for updates periodically to ensure that your system is always at the latest version.

How to check for Updates
- Verify that your unit is connected to the Internet
- click on the cog-wheel ⚙ in the top right part of the UI
- Select **system**
- Click on "Check Updates"
- If an update is available, you'll be presented with the new features.
- Click on "Update Now"
- System update will start, and depending on the update size it might take up to 20 minutes
- Once Update has finished, you'll be asked to reboot. Do it
- The system will now restart, and the new version will be applied
- IMPORTANT: Do not remove power in this phase, as it might damage the unit.

Specifications:

Supported audio file formats:
DSD: DSF (DSD), DIFF (DSD)
PCM: FLAC, Apple Lossless (ALAC), WAV, AIFF, MP3, AAC

Supported audio sample rates, bit depths, number of channels:
PCM, 44.1KHz-384KHz, 16-32bit, Stereo
DSD, 2.8MHz-11.2MHz, 1bit, Stereo

LAN: Gigabit

Digital inputs: USB2.0, Coaxial, Bluetooth (Name: Opera)

Power output: 105W+105W(8ohm), 170W+170W(4ohm)

CH Sources: 6 remote controllable inputs switched by gold plated relays

CH Terminals: Gold plated Phono/RCA unbalanced and gold plated XLR balanced

Frequency response: Less than +/- 0.5 dB deviation 5Hz-100kHz

Signal-to-noise ratio: More than 95dB

Distortion: Less than 0.018% @ 20W 8 0hms

Damping factor: More than 1000

Dimensions: 12cm× 43cm× 40cm (H×W×D)

Weight: 11.6kg

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:

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Registration Card

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