

# **Audial**

# A20

STEREO AMPLIFIER

# USER MANUAL

Revision 0, September 2021



This manual comprises introducing information on the use and performance of this device. For more information, please visit <https://www.audialonline.com/a20/>, or send your questions to [info@audialonline.com](mailto:info@audialonline.com).

## IMPORTANT!

1. This manual is a guide only.
2. Do not expose this device to rain or moisture, excessive heat, or mechanical force.
3. Use this device exclusively with specified voltages.
4. Unplug the device from the wall outlet during a lightning storm.

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The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## STARTING WITH THE A20

A20 stereo amplifier is relatively simple to use and, provided it is used within its limits, it requires no special care in everyday operation.

It achieves claimed specifications right from the start, even though it still needs 5-7 days of burning in to perform its best in the subjective audio terms. Afterward, it is generally enough to leave it powered on for half an hour before the critical listening.

It is not harmful if A20 is left constantly powered on, however a general recommendation to turn such devices off whenever out of home applies regardless.

Also, it is important not to block the opening holes at the bottom, back and top plate, as they provide the air circulation into and from the unit interior, and thus ensure the proper cooling.

## CONNECTIONS

No special knowledge is required to connect the A20 into the system.

Mains connector is standard IEC C14, and is located at the back panel. Every unit is produced to match the mains voltage in the customer's country.

There are five RCA line input connectors, and its impedance is 45 kOhm, so the A20 is a friendly load for the majority of sources.

The A20 employs a buffered pre-out, which can be useful for bi-amping, or to connect the active subwoofer.

The output loudspeaker connectors are Audial made pure copper binding posts, which accept the usual 6.3 mm spades or 4 mm banana plugs.

The A20 does not invert polarity (absolute phase). Hence with the source which also does not invert polarity, the speakers should be wired in phase, so the ground connection to the negative pole, and hot (live) connection to the positive pole.

## USING THE A20

Apart from the mains switch, the A20 has only one control knob, which is both the volume and balance control, and the input switch, while the amplifier setting is shown by the display.

Normally, the volume is set by rotating the knob. The volume is set in 1 dB steps, and has the "mute", and 63 steps between the 0 dB and maximum position.

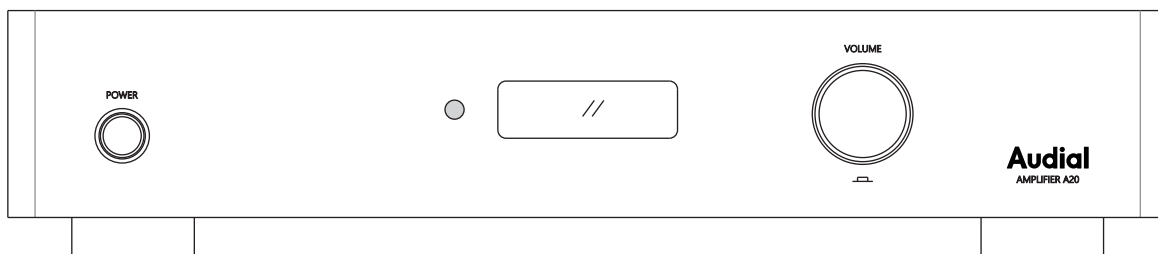
The input is set by pressing the knob.

By long pressing the knob (for 2 seconds), the amplifier enters the balance menu. The display, instead of the volume position, in its second row then shows the balance position. The balance can be set in 1 dB steps (32 dB is maximum). By another long pressing (again for 2 seconds) the knob, or by its inactivity for 5 seconds, the knob will go back to the regular volume control operation. If the balance is set out of center, the notice will remain on the right side of the upper row of the display.

## WARRANTY

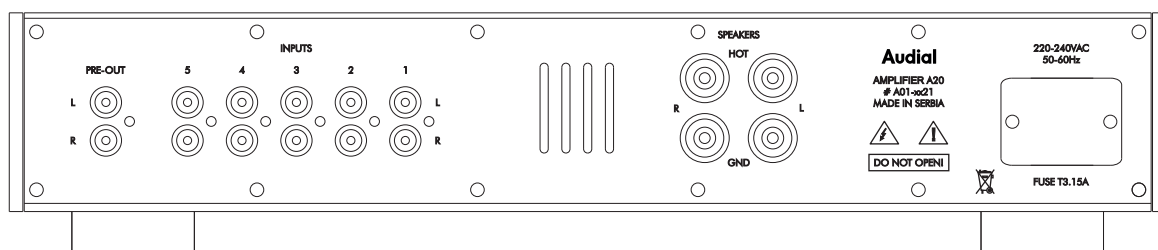
Audial claims the proper operation of this product for two years. Audial is obliged to correct for any malfunction within this period, at no charge, either by the competent repair service, or by swapping the sold unit with the new one.

For the units sold directly by Audial, the invoice is also a guarantee certificate. Audial however maintains its database of directly sold units, so the original buyers will not usually need it. Warranty is also fully transferrable from the original to the subsequent owner(s), however in this case we will probably ask for the invoice.



A20 front plate

From left to right:  
Power switch, display, control knob.



A20 back plate

From left to right:  
Pre-out, line inputs, loudspeakers outputs, mains connector.

# SPECIFICATIONS

## INPUT VOLTAGE:

Min 0.5 V RMS for full power  
Max 5 V RMS (input overload)

## INPUT IMPEDANCE:

45 kOhm

## OUTPUT POWER:

20 W RMS @ 8 or 4 Ohm

## MAXIMUM OUTPUT CURRENT:

3 A, continuous

## FREQUENCY RESPONSE:

20 Hz - 200 kHz,  $\pm 0.5$  dB, typical

The amplifier is directly coupled, but its gain is blocked for DC, for loudspeakers safety

## HARMONIC DISTORTION (@ full power):

0.01% @ 1 kHz @ 8 Ohm

0.02% @ 1 kHz @ 4 Ohm

0.03% across the audio band (worst case) @ 8 Ohm

0.06% across the audio band (worst case) @ 4 Ohm

## INTERMODULATION DISTORTION (@ full power):

0.03% @ 8 Ohm

## GAIN (max gain between the input and speakers out, and also the ratio between the pre-out and speakers output):

31.3x (29.9 dB)

## PRE-OUT GAIN:

1x (0 dB) @ max position

## PRE-OUT IMPEDANCE:

130 Ohm

## ABSOLUTE PHASE:

Correct, for both the loudspeakers and pre-out

## MAINS VOLTAGE:

220-240VAC/50-60Hz, or 110-120VAC/50-60Hz, or 100 VAC/50-60Hz

## DIMENSIONS (W x D x H):

426 x 280 x 92 mm, including feet, but excluding the knob and connectors

## WEIGHT:

Approx. 6Kg

