

Canor AI 1.10 USER MANUAL

AI 1.10

MUTE
TR/UL
MM




CANOR

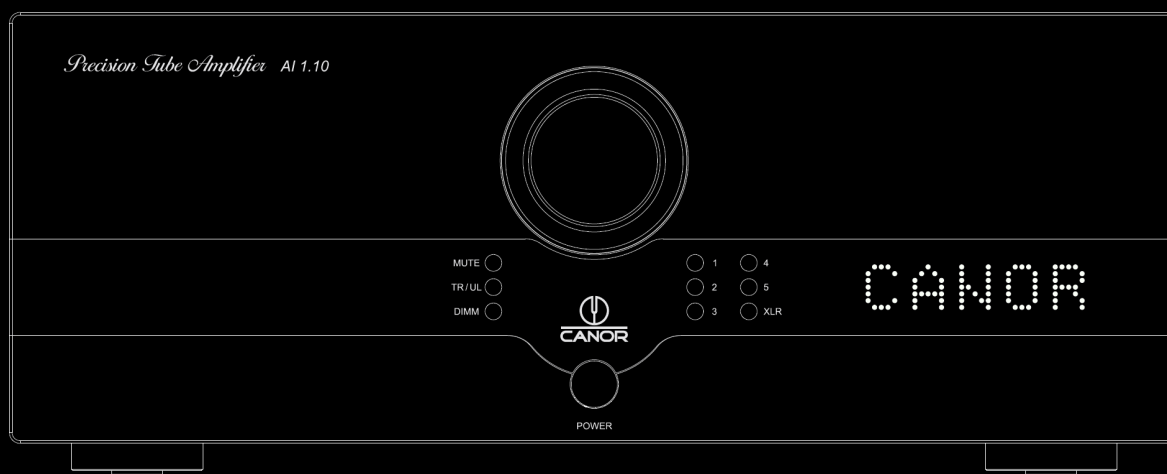
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CANOR AI 1.10 integrated tube amplifier user manual



Dear music lover,

thank you for purchasing our CANOR AI 1.10 integrated tube amplifier.

To preserve and maintain the best characteristics of your amplifier, we recommend you carefully read the following lines.

Safety instructions

Please read before putting the device into operation.

1. Read the instructions – all safety information and instructions should be read before using the amplifier.
2. Keep the user manual – the safety and user instructions manual should be stored for possible later use.
3. Follow the instructions – all safety and user instructions should be followed.
4. Water and moisture – AI 1.10 amplifier should not be placed near water, for example near bathtubs, swimming pool, kitchen sink, etc...
5. Accessories - do not use accessories not recommended by the manufacturer.
6. Placement – do not place a device on an unstable pad. The device may fall, which can cause serious injuries to children or adults, as well as damage to the device. Use only pads or racks recommended by the manufacturer or pads sold to dealers with this device.
7. Any placement of the device should be in accordance with the manufacturer's instructions and only accessories recommended by the manufacturer should be used.
8. Ventilation – the unit should be placed the way to ensure proper airflow. That means it is not allowed to place the amplifier on a sofa, or on upholstered furniture. The amplifier may not be covered over when in operation, it would otherwise prevent proper airflow around the vent holes of the amplifier.
9. Heat – amplifier has to be placed so as to avoid the heating effect from heat sources, for example, radiators, stoves, or other heat-producing equipment. The distance from the back wall of the unit may not be less than 20 cm, and 20 cm above the area of AI 1.10 may not be any barrier. Alongside the unit should be ensured 20 cm minimum distance from other objects.
10. Power source – the device must be connected only to a main supply for what it is designed for.
11. Power cord – it is necessary to pay particular attention to a power cord, it must be positioned in order to avoid setting foot on it and ensure it is protected against mechanical damage.
12. If you do not use the AI 1.10 amplifier for a longer period of time – you should disconnect the power cord from the mains supply, or at least turn off the main power switch located on the back panel.
13. Objects containing liquid – do not place these objects (vases, flowerpots), so that they can fall down on the amplifier, eventually, preventing the liquid from being leaked out on the amplifier.
14. Damages requiring service – equipment should be repaired only by qualified service in the event that:
 - a) The power cord is damaged.
 - b) The device dropped into the water or was poured.
 - c) The device was exposed to rain.
 - d) The device works incorrectly.
 - e) The device fell down on the ground or is otherwise mechanically damaged.
15. Repairs - all repairs must be entrusted to a qualified service.
16. General warning - use the device only in accordance with this user guide.

The manufacturer declines any liability should these safety measures not be observed. To help you avoid an electric shock, do not expose the amplifier to rain or moisture!

Delivery content

- Shipping packaging
- Canor Virtus I2 amplifier
- Remote Control
- Power cord
- Set of precisely selected KT88 tubes
- Textile gloves
- TX10 screwdriver/screws
- Canor AI 1.10 user manual and tube installation guide

European Community Directives

This product is designed and manufactured in order to comply with existing laws of the European Community. This product is certified by a testing laboratory and bears the CE mark.



Remote Control

Insert two AAA-sized batteries into your remote control and take care of polarity.

Do not expose the sensors of your remote control to direct sunlight or to other strong light sources.

Remote control operates at an angle of 60 ° to about 5 meters. Aim your remote control at the sensor on the device. There may not be any obstacles in the way between the sensor and the remote control.

If the unit is placed behind the glass, it may result in shortening the operating distance of the remote control (according to the colour and strength of the glass).

The keys on the remote control have the same function as the keys on the front panel of the device.

The remote control is equipped with features for the amplifier and a CD player:

- **VOLUME** + function for amplifier only /volume control keys/

← **INPUT** → function for amplifier only /inputs switching/

AMP ON/OFF – function for amplifier only /turning on and off the amplifier /

Large power button – turns off both amplifier and CD player at once.

Functions of CD player only:

CD ON/OFF – CD player turning on and off.

Numeric keypad (0-9) – direct track selection.

Numeric key 0 – CD1.10 inputs selection: 1. CD, 2. COAXIAL, 3. OPTICAL, 4. USB

Numeric keypad+10 – you can pick tracks with a higher sequential number than 10.

REPEAT –allows you to cyclically opt for single track repeat, entire disc repeat or disable repeat.

BACKWARD |<< – when pressed for a short time it jumps to the beginning of a track if playback time lasts longer than 5 seconds, further pressing results in jumping one track back. When pressed for a longer time playback moves smoothly backwards.

FORWARD >>| – when pressed for a short time it jumps one track forward, when pressed for a longer time, playback moves smoothly forward.

OPEN – closing and ejecting.

STOP – ceases CD disc playback.

PLAY/PAUSE – resumes and pauses CD disc playback.

FRONT PANEL

contains a button with an additional function unlike the remote control:

MUTE – pressing this button results in an instant muting of the volume. Subsequent pressing results in default volume

TR/UL – pressing this button switches between a triode and an ultra-linear mode.

Short press shows selected mode („Triode“ or „U-linear“) on a display.

Repeated pressing selects the other mode. The default mode is Triode.

DIMM – sets the display brightness in six steps whereby 0 is a turned-off display, and 5 is maximum brightness.

After turning on, the display brightness level is 3 and by repeatedly pressing or holding the button, brightness lowers to values 2,1,0 and continues to rise until maximum brightness (5) is reached, and repeatedly lowers until the display is turned off. In the state of a turned-off display while operating the device with function keys the display lights up to brightness 2, and after a few seconds, the display turns off again.

** it is highly recommended to stop or pause the source of the signal in case you are switching between Triode and Ultra-linear mode*

Caution!

The Waste Electrical and Electronic Equipment Directive -Regulation of the European Union 2002/96/EC governing the issue of separate waste collection.

This device may not be disposed of in unsorted municipal waste. Devolve the appliance into a collection centre for recycling and disposal of electrical and electronic equipment waste. Correct disposal of waste does not cause negative impacts on the environment and human health. You will thus contribute to the protection of the environment.

Basic functions of reproduction

Plug the power cord in AI 1.10. Turn on the AI 1.10 with the Power Main switch, which is located on the back panel. When you turn on the main switch, the AI 1.10 will set into standby mode - the red LED diode on the front panel lights up. After pressing the Power button (on the front panel or on the remote control) controlled turning-on sequence gets initiated, which consists of cooling and preheating the tubes, thereby extending their life span. The cooling cycle is also carried out when the unit is turned off, if the main switch on the back panel is not turned off, i.e. after turning off via the button on the front panel, or via remote control, and a 45-second countdown to cooling without indication begins. If you turn on the unit at this time, the cooling will continue and will be indicated by a flashing red LED. When the cooling cycle is over the main toroidal transformer gets connected (the CANOR logo lights up), and then the slow start-up of voltage begins.

This cycle lasts 45 seconds and then the red LED stops flashing, and an output relay connects the signal to the last selected input if the main power supply does not get connected.

During the first turning on or disconnecting of the main power supply IN1 input gets preselected and the volume level is set to -44dB. Volume is being set in 63 steps by 1dB. The highest volume is 0dB, the lowest being -63 dB. Another step is MUTE. You can control the volume with a big control knob on the front panel. The volume is being controlled by a relay attenuator with an accuracy of concurrence better than 0.05dB.

You can connect both 4- and 8-Ohm loudspeakers. The amplifier has separated terminals for each type.

MONOBLOCK mode:

As the amplifier has all its basic functions controlled electronically, we have capitalized on this advantage and adjusted amplifier control the way in order to be able to use a stereo amplifier as a monoblock. We therefore developed a special protocol and a C-link communication interface.

This solution benefits from a great advantage, hence the monoblocks do not need a control preamplifier and AI 1.10 can thus be used as an integrated stereo amplifier and as a monoblock. Attenuators ensure absolute channel concurrence. Two AI 1.10 get connected by a data cable via a C-link bus and at this moment one amplifier becomes a MASTER and the other one a SLAVE. The MASTER amplifier then takes over the entire control of both amplifiers synchronous-wise. SLAVE amplifier has all the control elements turned off.

Interconnecting two AI1.10 amplifiers by a data cable must be carried out when both amplifiers are turned off!! Caution! Make all connections only if the device is disconnected from the mains!

Specifications:

Stereo output power:	2 x 40W /4,8 Ohm - ultra-linear 2 x 20W /4,8 Ohm - triode
Monoblock output power :	1 x 80W /8 Ohm - ultra-linear 1 x 40W /8 Ohm - triode
Input sensitivity:	500mV
Frequency range:	10 - 50 000Hz -0,5dB /5W
Input impedance:	30 kOhm
Stereo Inputs:	5 RCA
Monoblock Inputs:	2 XLR
Total Harmonic Distortion:	<0,05% /1kHz , 5W
THD Monoblock:	<0,008% /1kHz , 5W
Signal-to-noise ratio:	>95dB
Signal-to-noise ration monoblock:	>100dB
Tube Complement:	1x 12AX7 , 2 x 12AT7 , 4 x KT88
Power:	230V / 50Hz / 375VA
Dimensions (WxHxD):	435 x 170 x 485 mm
Weight:	26 kg

Guarantee conditions:

Your CANOR AI 1.10 integrated tube amplifier is guaranteed against any defect in materials and workmanship for a period of 24 months from the date of purchase except for audio vacuum tubes that are covered by warranty for a period of three months.

The warranty only applies if an original proof of purchase and acknowledged certificate of warranty can be furnished. The warranty covers defects in materials and labour but does not cover misuse, unauthorized modifications, and external causes such as acts of nature.





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