

PH 1.10
USER MANUAL

Phono Tube Preamplifier PH1.10



MUTE

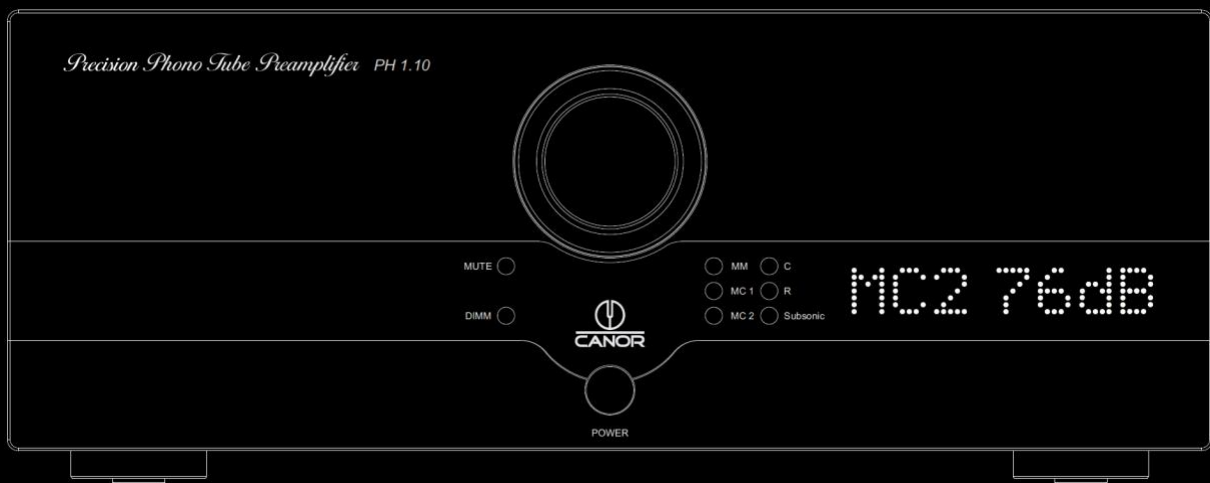
DIMM


CANOR



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CANOR PH 1.10 Phono Tube Preamplifier User Manual



Dear Music Lover,
thank you for purchasing our CANOR PH 1.10 Phono Tube Preamplifier. To preserve and maintain the best characteristics of your preamplifier, 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 preamplifier.
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 – the PH 1.10 Phono Preamplifier should not be placed near water, for example near bathtubs, swimming pools, kitchen sinks, 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. Any placement of the device should be in accordance with the manufacturer's instructions and only accessories recommended by the manufacturer should be used.
7. Ventilation – the unit should be placed the way to ensure proper airflow. That means it is not allowed to place the preamplifier on a sofa, or on upholstered furniture. The preamplifier may not be covered over when in operation; it would otherwise prevent proper airflow around the vent holes of the preamplifier.
8. Heat – preamplifier must be placed to avoid the heating effect from heat sources, for example, radiators or 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 PH 1.10 may not be any barrier. Alongside the unit should be ensured 20 cm minimum distance from other objects.
9. Power source – the device must be connected only to a main supply for what it is designed for.
10. Power cord – it is necessary to pay particular attention to a power cord, it must be positioned to avoid setting foot on it and ensure it is protected against mechanical damage.
11. If you do not use the preamplifier for a longer period – you should disconnect the power cord from the mains supply, or at least turn off the main power switch located on the back panel.
12. Objects containing liquid – do not place these objects (vases, flowerpots), so that they can fall on the preamplifier and, eventually, prevent the liquid from being leaked out on the device.
13. Damages requiring service – equipment should be repaired only by qualified service if:
 - 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 on the ground or is otherwise mechanically damaged.
14. Repairs – all repairs must be entrusted to a qualified service.
15. 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 preamplifier to rain or moisture!

DELIVERY CONTENT

- Shipping packaging
- CANOR PH 1.10 Phono Tube Preamplifier
- Power cord
- Textile gloves
- CANOR PH 1.10 User Manual

CANOR PH 1.10 is a fully valved phono preamplifier for both MM and MC phono cartridges that contain as many as nine vacuum tubes (including one vacuum diode) and is equipped with a high-quality MC step-up Lundahl transformer.

The PH 1.10 is designed with the highest possible audio quality. The overall electrical and mechanical construction is tailored to achieve this ultimate goal.

- Wiring circuitry without any global feedback.
- PCBs utilize our premium CMT™ technology.
- Absolute selection and tubes matching with above-average parameters.
- Vacuum-impregnated transformer core.
- The transformer is potted in a special anti-vibration compound.
- Only high-quality polypropylene capacitors are in the signal path.
- High variability of gain settings, resistances, and capacitances settings for all types of phono cartridges.
- Symmetric XLR output is available.

If a turntable is fitted with two tonearms, one having an MM phono cartridge installed and the other MC, both can be connected simultaneously without mutually affecting each other.

BASIC FUNCTION

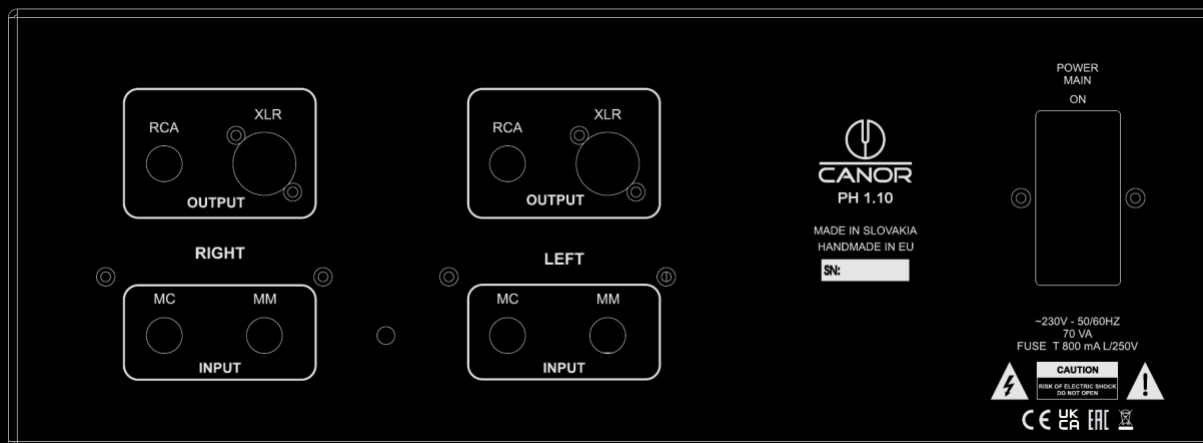
Plug the power cord in PH 1.10. Turn on the PH 1.10 with the Power Main switch, which is located on the back panel. When you turn on the main switch, the PH 1.10 will set into standby mode – the red LED on the front panel lights up. After pressing the Power button controlled turning-on sequence gets initiated, which consists of preheating the tubes, thereby extending their life span. The cooling cycle is 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 a button on the front panel, 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 20 – 30 seconds.

FRONT PANEL

- **POWER** – Turning on and off the preamplifier.
- **MUTE** – Pressing this button results in an instant muting of the volume. Subsequent pressing results in default volume.
- **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.
- **MM** – To use with Moving Magnet cartridges. Gain: 46 dB. Available MM loads: 50 pF, 150 pF, 270 pF, 370 pF, 520 pF, 620 pF, 740 pF and 840 pF.
- **C** – This button will set the loading capacity for Moving Magnet cartridge (MM input) in steps: 50pF to 840pF.
- **MC1** – To use with Moving Coil cartridges. Gain: 70 dB. Available MC1 resistance: 10 R, 20 R, 40 R, 80 R, 150 R, 300 R, 600 R, 1200 R.
- **MC2** – To use with Moving Coil cartridges. Gain: 76 dB. Available MC2 resistance: 2 R, 5 R, 10 R, 20 R, 40 R, 80 R, 150 R, 300 R.
- **R** – Pressing this button will set the loading resistance for the Moving Coil cartridge.
- **SUBSONIC** – Subsonic ON / subsonic OFF.
- **MAIN ROTARY KNOB** – Adjusting loads and resistance for dedicated input. It replaces the C / R buttons.

BACK PANEL

- **LEFT / RIGHT OUTPUTS** – Balanced (XLR) and unbalanced (RCA) output.
- **LEFT / RIGHT INPUTS MC** – Unbalanced (RCA) inputs for MC cartridges.
- **LEFT / RIGHT INPUTS MM** – Unbalanced (RCA) inputs for MM cartridges.
- **GROUNDING SCREW** – Grounding point for turntable.
- **POWER** – Mains power inlet / mains switch with mains fuse.



SPECIFICATIONS

MM	50, 150, 270, 370, 520, 620, 740 and 840 pF / Gain: 46 dB
MC1	10, 20, 40, 80, 150, 300, 600 and 1200 Ohm / Gain: 70 dB
MC2	2, 5, 10, 20, 40, 80, 150 and 300 Ohm / Gain: 76 dB
Output Impedance	RCA: < 300 Ohm, XLR: < 600 Ohm
Inputs	RCA – MM / RCA – MC
Outputs	RCA / XLR
Total Harmonic Distortion	MM / MC < 0,1 % / 1 VRMS
Subsonic Filter	18 dB / Octave
RIAA Accuracy	0,3 dB / 20 Hz – 20 kHz
Signal-To-Noise ratio MM	72 dBV (87 dBV – IEC-A)
Signal-To-Noise ratio MC	68 dBV (82 dBV – IEC-A)
Tube Complement	8 x 6922, 1 x 6CA4
Power	230 V / 50 Hz / 70 VA
Dimensions (W x H x D)	435 x 170 x 485 mm
Weight (Net)	18 kg
Weight (Gross)	26 kg

CAUTION!

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

This device may not be disposed of in unsorted municipal waste. Devolve the appliance into a collection center 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.

GUARANTEE CONDITIONS

Your CANOR PH 1.10 Tube Preamplifier is guaranteed against any defect in materials and workmanship for 24 months from the date of purchase except for audio vacuum tubes that are covered by warranty for 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.

EUROPEAN COMMUNITY DIRECTIVES

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



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