Q-tron Audio

Q-tron Audio PRE14B4 Pre-amplifier
user manual

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Fig 1 Front view

Introduction

PRE14B4 is a pre-amplifier with low output impedance and very high transparency, 4 select-able inputs and a relay-switched volume control built with discrete resistors

Content of delivery

1. Amplifier PRE14B4
2. Remote control

Unpacking

Put the box on a table or other steady surface. Open the box and put the amplifier on a steady surface with the front panel facing towards you.

Setup

Connect the amplifier to the mains voltage with a standard IEC 320 mains cable.
Connect signal sources to the connector inputs.
Connect a power amplifier to the connectors marked output.

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Function

The amplifier is equipped with RCA phono and XLR connectors for input and output signals. The active circuit in the amplifier is powered by an advanced power supply with controlled start-up sequences to prolong the tubes' life and avoid any voltage transients on the output.

Start-up procedure

Switch on the mains and switch on the back panel to position 1. Push the front panel push button, and after a few seconds, the display will be lit. After 60 seconds the area around the front panel push button will be lit green and the amplifier is then ready for operation.

Controls and connectors

Front panel

On-switch with an integrated on indicator, this is a switch button which when pushed in will start the switch-on sequence of the amplifier.

Combined volume control and channel selector knob. The volume level is controlled by turning the knob and the channel is changed by pushing the knob slightly inwards. Volume and channel can also be controlled remotely.

Indicator display. This display indicates volume level from 0 to 64 where 0 is the lowest volume and 64 is the highest volume. When a channel is changed either by pushing the control knob or by the remote control the channel is shown momentarily from C1 to C4

Back panel

Input connectors left and right

Connectors marked 1 and 2 These connectors accept standard XLR male plugs
Connectors marked 3 and 4 These connectors accept standard RCA phono plugs

Output connectors left and right

Connectors marked 1 These connectors accept standard RCA phono plugs
Connectors marked 2 These connectors accept standard XLR female plugs

Mains power inlet with integrated fuse holder and mains switch.

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The power inlet accepts a standard power cord with an IEC320 plug. The 2 mains fuses can be accessed if the power cord is removed and the fuse cover/holder is removed, replace the fuses only with fuses of the same rating, (for 230VAC mains power fuse rating is 2A slow blow and for 120VAC mains power fuse rating is 4A slow blow). The mains switch to power up the amplifier is set to position 1, and in position 0 the amplifier is disconnected d from mains power.

Remote control

The remote control can be used to adjust the volume or to change the channel, there is also a muting function where the volume can be toggled between the actual setting and 0 and back again. To increase/decrease volume push on the upper or lower part of the large black circle. To change the channel push the right or left part of the large black circle. For muting push the centre button in the large black circle.

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Performance data:

Gain	14dB, (5 times)
Channel balance difference when adjusting volume	+- 0.05dB
Input impedance	40 kohm
Output impedance	1k ohm
Harmonic distortion, (THD)	<0.001% at 1kHz at 1V out balanced mode, 100kohm load
Frequency response	5 - 100kHz - 1dB
Noise and hum	100 dBA below 1 V out
Volume control	64 1dB steps
Mains voltage	230V ± 10%
Power consumption	100W max
Dimensions	430 x 110 x 370 mm, (W x H x D)
Input connectors	Gold plated RCA phono, 2 inputs Gold plated XLR, 2 inputs
Output connectors	Gold plated RCA phono, 1 output Gold plated XLR, 1 output
Mains connector	IEC320 socket with integrated Power switch
Remote Control function	Volume level, input channel selection, mute
Weight	13kg

Contact information

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