

# LAB 12

Handcrafted High-End Audio

## Owner's Manual

### PRE1

*Triode Class A Line Preamplifier*

[www.lab12.gr](http://www.lab12.gr)

v1.1

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### IT IS YOURS!

Thank you for selecting the Lab12 Pre1, a high grade audiophile Line Preamp. Pre1 Preamp born after two years of development. It is the first preamp in Lab12 products range and aims to exactly the same target as all our products, to achieve a warm, musical and most of all realistic sound that remains enjoyable even after many hours of listening.

PRE1 offers five analog inputs and two preamp outputs, so you can easily drive a bi-amping system or a power amp and active subwoofer(s) without problem. All components are carefully chosen after hours of listening and testing, while paying great attention to every detail affecting the final outcome. As every lab12 device, Pre1 has an ultra-solid construction with handcrafted finishing and luxury metal paint.

Internally we use a matched pair of E88cc tubes in a special configuration and a four stages solid state power supply with more than enough capacity and smart filtering. Dual mono philosophy and fine symmetry<sup>®</sup> exists in every stage of circuit and PCB and of course we use the SRSG<sup>®</sup> topology in this gear too. Special selected parts like MKP audio grade capacitors and 1% resistors bring the fine detailed sound and the wider resolution.

Do not forget that your Pre1 is totally handcrafted with perfectly matched parts of the finest selections. You have to know that to reach the optimal performance your PRE1 need at least 200 hours of listening. In this time all components go from “burn in” period to stable.

Before setting up your new PRE1, we encourage you to read this manual to properly acquaint yourself with its features. We love music and audio devices; we build your new device with emotion and personal treatment.

The information contained in this manual is subject to change without notice. The most current version of this manual is available on our official website at <http://www.lab12.gr>

### Features

- Handcrafted audio grade transformers
- IR remote control
- Toroidal power transformer
- Special Audio Grade parts in every stage
- No feedback design
- SRSG® implementation
- fine symmetry® implementation
- Gold plated Teflon rca connectors
- Gold plated tube sockets
- 5mm Aluminum face panel with luxury painting
- Five Years Warranty

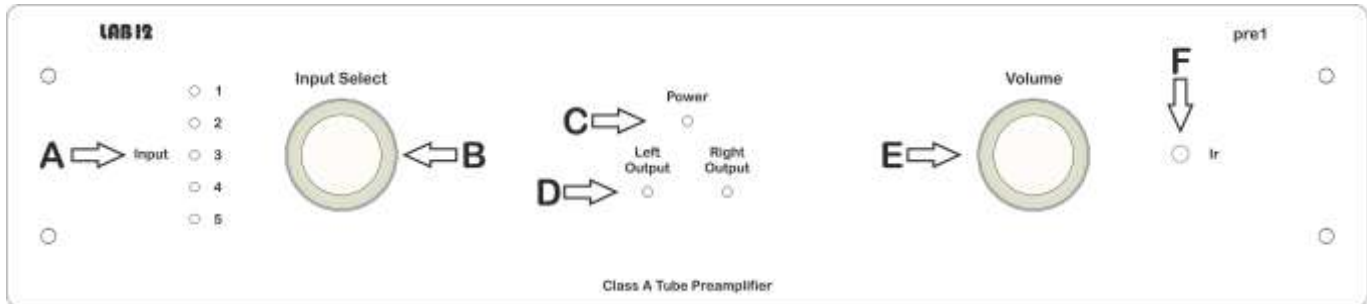
### Installation & Placement

The **LAB12 PRE1** should be placed on a solid flat surface. You should avoid placing it near a heat source as this could compromise the preamplifier performance and reliability. You should never place another component directly on top of PRE1.

Prepare the remote control inserting the included batteries. Beware of polarity.

Take care of the finest luxury finish of front panel with a soft cloth.

## Front Panel



PRE1 Front panel

At front panel you will see eight indication LEDs, one input selector, the volume control and the ir receiver.

The center LED (**C**) indicates that the device is powered on.

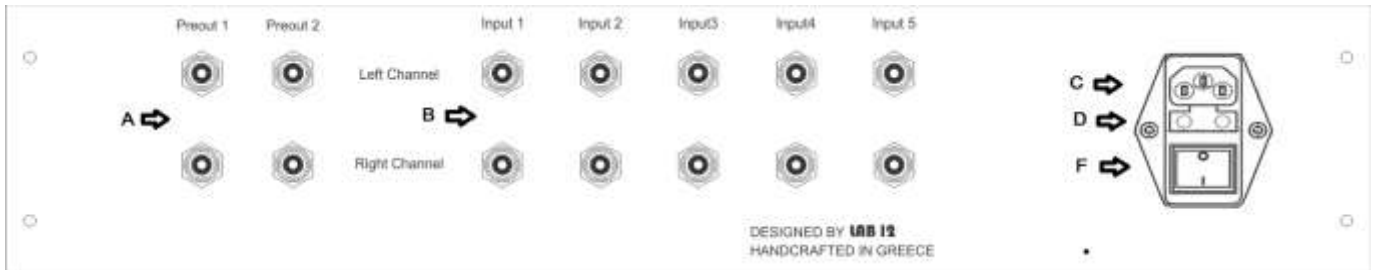
The LEDs (**D**) indicates that the outputs of PRE1 are active. LEDs (**D**) blinking for a 1 minute (tubes warm up time) after turning on the PRE1, make sure that the volume control is in a low level within this minute.

To the left of 3 LEDs you see the input indicators (**A**) and rotary input selector (**B**). You can select your desired input of total five.

Finally to the right of 3 LEDs you see the Volume control (**E**). You can adjust the Volume of the Preamplifier outputs.

Make sure that no objects are placed in front of ir receiver (**F**)

## Rear Panel



PRE1 Rear panel

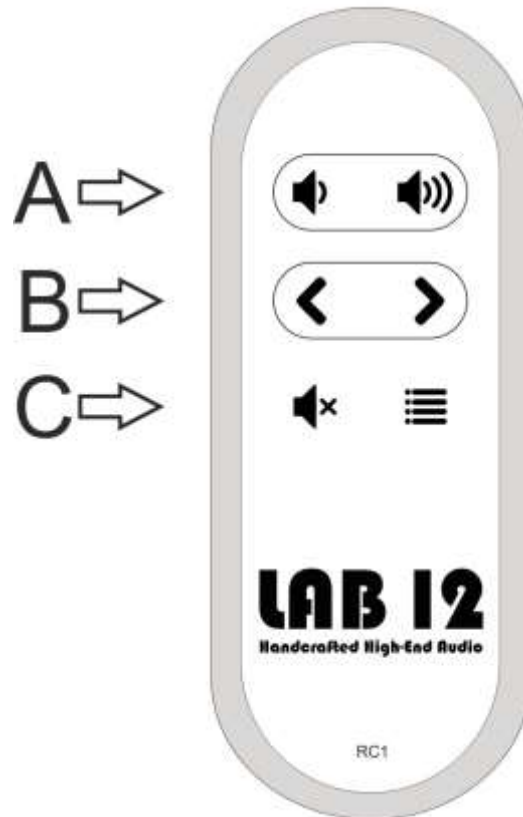
On the rear panel you will find the connection sockets for inputs and outputs.

On the left side there are the two pairs of preamp outputs (**A**).

On the right of the preamp outputs you will find the line inputs named 1 to 5 (**B**).

To the right side you will find an IEC AC input (**C**). Below IEC input is located the main fuse holder (**D**) and the Power switch (**F**).

## Remote Control



PRE1 Remote Control Panel

You can fully control your preamplifier from IR remote control RC1.  
To the top of the remote control located the two buttons for output volume adjustment (**A**).  
Bellow volume buttons you will find two buttons for input selection (**B**).  
You can instantly mute the preamplifier output with lower left mute button (**C**).

## Main connections

Connect a High Grade Power cable to the IEC input and to your wall socket. Make sure that your wall socket provides a good ground before connecting the power cable. You can supply 230 to 240 Volts AC (50Hz). (Every **PRE1** is tuned and calibrated using the **LAB12 Knack Power Cable**)

## Connect to your Power Amplifier

Connect the preamplifier analog output to an analog line level input to your Power Amplifier. Make sure about the correct channel connections. We suggest to use a good quality interconnect cable pair.

## Connect an analog output Source

Make sure that your Source has an analog line level output. Connect an analog interconnect cable from the source output to one of analog inputs of **PRE1**. Select input number with the selector switch on the left side of the front panel on your **PRE1**.

## Note

### For the safety of your equipment

**! Make sure that all of your equipment is turned off before any connection.**

**! To avoid damaging you speakers you have to turn on the PRE1 some seconds before turning on your power amplifier and turn it off some seconds after turning off your power amplifier.**



## **Specifications**

- Power: 230/240 Vac 50Hz (1A fused)
- Power consumption: 80 VA max
- Frequency response: +0-3dB, 5Hz to 100kHz
- Distortion: 0.04% at 2V RMS output
- Gain: 21dB
- Signal to Noise ratio: 90dB
- Maximum output: 14V RMS
- Input impedance: 50K ohms
- Output impedance: 900 ohm
- Tube complement: 2x E88CC dual triode
- Warm up time: 1 minute
- Inputs: 5x line stereo (RCA connectors)
- Preamp outputs: 2xline stereo (RCA connectors)
- Available colors: Etna Black, Pearl White, Custom color
- Dimensions (WxHxD): 43x11x29 cm
- Weight: 5 Kg

## **Warranty**

This device has 5 years warranty from the day of purchase for all parts excluding valve tubes.