

# The performance of a lifetime



Owner's Manual  
**MOON 110LP v2**  
Phono Preamplifier

MOON by Simaudio

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Part No. 100100001

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## Introduction

Thank you for selecting the **MOON 110LP v2** Phono Preamplifier as a part of your music system. This component has been designed to offer state-of-the-art high-end performance in an elegant package, while retaining all the sonic hallmarks on which Simaudio has made its reputation. We have spared no effort to ensure that it is amongst the finest phono preamplifiers available in its class. We have been building high-performance audio equipment since 1980, and the know-how gained through our cumulative experience is an important reason why MOON audio components are so musically satisfying.

The performance of your MOON 110LP v2 will continue to improve during the first 300 hours of listening. This is the result of a "break-in" period required for the numerous high quality electronic parts used throughout this phono preamplifier.

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.simaudio.com>**

## Design Features

Your MOON 110LP v2 Phono Preamplifier incorporates many significant design features to achieve its “world class” level of performance. This is an abbreviated list of the most important features:

End-user adjustable impedance loading (47k $\Omega$ , 475 $\Omega$ , 100 $\Omega$ , 10 $\Omega$ );

End-user adjustable capacitance loading (0pF, 100pF, 330pF, 430pF);

End-user adjustable gain settings for moving magnet and moving coil cartridges (40dB, 50dB, 54dB, 60dB, 66dB);

End user selectable curve (IEC/RIAA);

Four layer PCB tracings using pure copper for low impedance characteristics;

Inductive DC Filtering for a significantly lower noise floor;

Compact, rigid all-aluminum chassis with gold-plated RCA connectors;

Designed to be powered up at all times for optimal performance.

## Unpacking

The **MOON 110LP v2** should be removed from its box with care.

The following accessories are included inside the box with your unit:

- External AC power supply
- AC mains
- Stick for under-panel dipswitches settings
- Warranty and product registration information (USA and Canada only)

Once the unit is unpacked, inspect it thoroughly and report any damage to your dealer immediately. We suggest that you keep all of the original packaging, storing it in a safe, dry place in case you're required to transport this product. The customized packaging is specially designed to protect the unit from any potential damage during transit.

*Please write the serial number of your unit in the space provided below for future reference.*

**Serial Number**

## Installation & Placement

The unit should be placed on a solid level surface. You should avoid placing it near a heat source as this could compromise this component's performance and reliability. You should never place another component directly on top of this phono preamplifier. The MOON 110LP v2 is more sensitive than most other types of audio components to EMI (electro-magnetic interference) from power supplies and motors. Consequently, it should be placed at a minimum distance of 18 inches from power supplies, AC line filters, etc.

## Rear Panel Connections

Figure 1: MOON 110LP v2 back panel



1. Connect the turntable output cables to the left and right input connectors of the MOON 110LP v2.
2. Connect the turntable ground cable to the post labeled GND on the MOON 110LP v2.
3. Connect the left and right output connectors of the MOON 110LP v2 to the preamplifier/integrated amplifier of the audio system using RCA terminated cables.
4. Connect the power supply cable to the input labeled 24VDC INPUT.

### POWERING UP THE UNIT FOR THE FIRST TIME

Since the MOON 110LP v2 is not equipped with an on/off power switch, when connecting/disconnecting the AC power cord you are actually turning the unit on/off. Prior to making the power connection for the first time, make sure that every cable is properly connected to avoid any problems. Once the unit is connected to an AC source, the blue LED on the unit's front panel will illuminate.

### ON AND OFF SEQUENCE

To avoid any annoying noises (ie. "thumps" and "pops") emanate from your speakers, you should  
 i) Always power up your MOON 110LP v2 before powering up your preamplifier and/or integrated amplifier and ii) always power down your MOON 110LP v2 after powering down your preamplifier and/or integrated amplifier.

## Input Settings for cartridge adjustments

**Always power off the unit (by unplugging the power supply) before making any change of input settings via the bottom accessible dipswitches.**

Multiple combinations of settings can be applied to optimize the input for the cartridge. Ideally have the recommended settings from the cartridge manufacturer on hand as a starting point before any experimentation. And then you may experiment around the recommended values for best sound.

To adjust each of the four parameters (Gain, Curve, Resistance and Capacitance), look at the position of dipswitches drawn on the silkscreen representations below the unit, and look for the desired value of each parameter. Then using the provided red stick as a tool, move the dipswitch in the position that corresponds to the desired value.

Basic rule of thumb for typical **MM cartridges** (default factory setting) :

**Gain** : 40dB

**Curve** : RIAA

**Resistance** : 47k $\Omega$

**Capacitance** : 100pF

Basic rule of thumb for **MC cartridges** :

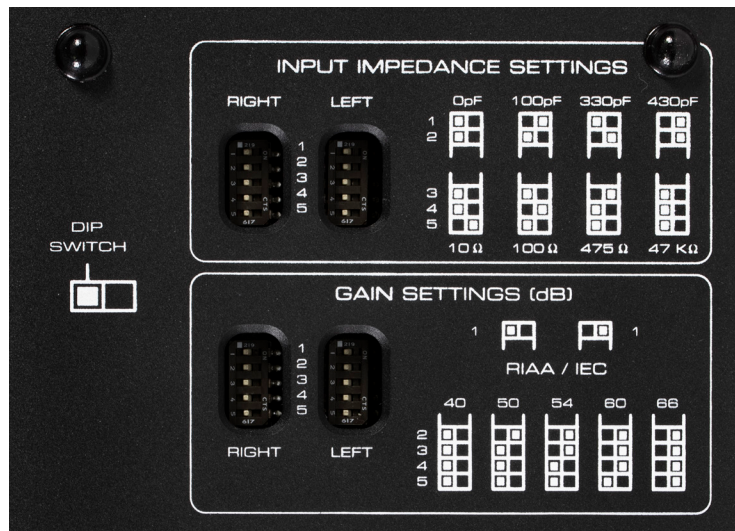
**Gain** : 60dB

**Curve** : RIAA

**Resistance** : 475 $\Omega$

**Capacitance** : 0pF

Please note that these abovementioned settings are starting points, but in no way assure that these are the best settings for any turntable/cartridge setup.



# Specifications

|                                               |                                      |
|-----------------------------------------------|--------------------------------------|
| Circuit Layout                                | Mirror-image symmetrical circuit     |
| Single-ended inputs                           | 1 pair (RCA)                         |
| Input Impedance - Adjustable                  | 10Ω / 100Ω / 475Ω / 47kΩ             |
| Input Capacitance - Adjustable                | 0 / 100pF / 330pF / 430pF            |
| Gain Level – Adjustable                       | 40dB / 50dB / 54dB / 60dB / 66dB     |
| Curve                                         | IEC / RIAA                           |
| Signal-to-noise Ratio (full scale @40dB gain) | 104dB                                |
| Signal-to-noise Ratio (full scale @60dB gain) | 87dB                                 |
| Frequency Response                            | 20Hz - 20kHz (± 0.5dB)               |
| Intermodulation Distortion                    | 0.002%                               |
| THD (20Hz - 20kHz)                            | 0.002%                               |
| Power Consumption @ idle                      | 2 W                                  |
| AC Power Requirements                         | 100-240V 50Hz / 60 Hz                |
| Shipping Weight                               | 3.3 lb / 1.5 kg                      |
| Dimensions (W x H x D, inches / cm)           | 5.0 x 1.65 x 6.5 / 12.7 x 4.2 x 16.5 |

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