



## LP-X1

MM/MC Audiophile Grade Tube Phono Preamplifier



# USER MANUAL

Manual Rev 1.1 2016

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## **Preface**

Thank you for purchasing the LP-X1 as part of your music entertainment system. The engineers and designers at Aeron have spent countless hours of listening and testing to create a MM/MC Audiophile Grade Tube Phono Preamplifier of the highest caliber for music reproduction. The LP-x1 has been designed to provide you many years of playback.

Before use we encourage you to please read this manual thoroughly to properly acquaint yourself with its features. We hope you enjoy listening to Aeron product as much as we have had the pride that we have taken in manufacturing this fine receiver for your listening pleasure.

If you have any questions regarding the operational functions, contact your dealer or distributor for assistance.

Thank you for choosing AERON for your audio experience!

## Illustrations

### Front Panel



1. Power On/Off Button
2. MM or MC Input Selector
3. Subsonic Filter Selector
4. MM Capacitance Selector
5. MC Impedance Selector
6. Gain Control

### Rear Panel



1. MC Input
2. MM Input
3. Grounding Terminal
4. RCA Output
5. AC Power Input
6. Voltage Selector

## Safety Notices

1. Heed all warnings and follow all instructions in this manual.
2. Do not use this apparatus near water.
3. Clean only with a dry cloth.
4. Do not block ventilation openings. Install in accordance with instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves or another apparatus that produces heat.
6. Do not defeat the safety purpose of the polarized or grounding type plug. If the provided plug does not fit into the outlet, consult your Reseller.
7. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, etc.. Unplug the AC mains cord as well as all other connecting cables during transportation.
8. Only use attachments and accessories specified by Aeron or your Authorized Aeron dealer.
9. Use a surge protector on the main AC-Line to this component as well as all other components connected to this product. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. Refer all servicing to qualified service personnel. NO USER SERVICEABLE PARTS INSIDE. Owner may change tubes.

### OTHER SAFETY CONSIDERATIONS

1. **ALWAYS** disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
2. **NEVER** use flammable or combustible chemicals for cleaning audio components.
3. **NEVER** wet the inside of this component with any liquid. If a liquid substance does enter your unit, immediately disconnect it from the AC mains and take it to your Aeron Dealer for inspection.
4. **NEVER** spill or pour liquids directly onto this component.
5. **NEVER** block air flow through ventilation slots or heat sinks.
6. **NEVER** bypass any fuse or replace any fuse with a value or type other than those specified.
7. **NEVER** expose the LP-X1 to extremely high or low temperatures. If the LP-X1 has been taken out of storage from an unheated environment, let the unit acclimate to room temperature before making any connections and applying power to the unit.
8. **ALWAYS** keep electrical equipment out of reach of children. Do not handle the tubes when hot, or wet them. Only touch the tubes only when they are cold and the unit is unplugged from its source of AC Power.
9. **ALWAYS** unplug sensitive electronic equipment such as this unit during lightning storms.

## **Installation**

### **In your System**

To insure normal component life and safe operation this unit must be operated only in a horizontal (upright) position. Adequate airflow and proper cooling thereby can occur only if there is no restriction below, behind and above the unit.

The four special non-marring elastomer feet provide adequate spacing only from a smooth, hard surface. Never operate the unit while it is sitting on a surface such as a rug or carpet.

If the unit is to be operated in an enclosed equipment cabinet, an exhaust fan is desirable so as not to operate the LP-X1 in overheated ambient air. The "ambient" operating temperature should never exceed 120°F or 49°C. Improper installation will cause premature tube failure and will affect your warranty, as well as the service life of the unit.

## **Connections**

### **AC Power Connection**

It is essential that the phono amplifier be connected to wall AC power receptacle, or a similar heavy-duty source. If it is connected to convenience receptacles on preamplifiers, etc., the full sonic capabilities of both the LP-X1 and the preamplifier will be compromised.

For the very best sonic performance, the LP-X1 should be connected to its own AC power circuit branch, protected by a over 5 amp breaker. The other audio equipment should be connected to a different power circuit and breaker. Avoid the use of extension cords. If they must be used on a temporary basis, use High quality power cords.

The LP-X1 utilizes a compatible grounding system that generally does not require a “ground lifter” adapter plug on the AC power cord to minimize hum. The power cord supplied with the LP-X1 has a standard three-prong grounding plug to provide maximum safety when it is connected to a grounded wall receptacle. If there is any question regarding the safety of grounding procedures, be certain to seek competent help with the installation.

### **Rear Panel Connections**

All two sets of Single-Ended input, one set of mm phono input and one set of mc phono input are clearly marked to indicate use.

One set of Single-Ended output and connect to integrated amplifier or pre-amplifier line-level input (e.g.: AUX, Line 1)

GND is used for phono grounding only! Please do not connect to power socket grounding.

# **Operation**

## **Power-up Procedure**

Make sure you have read and complied with the Installation and Connection instructions prior to attempting operation.

## **Power-On & Shut Down**

Press the “Power” button to turn unit ON / OFF

## **General Notes about Usage**

Turn off the LP-X1 wait at least five minutes before turning it on again. This brief cool down period will reduce stress on the output tubes and potential damage to them.

Aeron does not recommend leaving your LP-X1 on 24 hours a day as is the custom of some listeners to achieve maximum sonic performance on demand. While this is often recommended for solid-state equipment, Aeron does not recommend this procedure for MM/MC Audiophile Grade Tube Phono Preamplifier.

## **Operation**

### **Front Panel Control Functions**

#### **Phono — MM/MC**

Select the source “MM” or “MC”

For MM phono cartridge, appeared MM capacitance needed to be select.

Please check your MM cartridge specification, normal MM capacitance is 47pF.

For MC phono cartridge, appeared MC Impedance need to be select.

Please check your MC cartridge specification, normal MC impedance is 100ohms.

#### **Level**

Output level can be adjust on front Panel.

#### **Subsonic**

Subsonic filter can reduce unwanted subsonic signal in order to reserve the amplifier power. LP-X1 provide two level of subsonic filter 20Hz & 40 Hz.

For normal setting, we recommend using 20Hz subsonic filter.

## **Maintenance**

### **Tube Replacement**

As usual, the audio tubes used in LP-X1 can last for 10,000 hours or above.

If the tube does not glow, can change out tube for same model, The models that used in LP-X1 of audio tubes: (1) 6N1, (2) 12AX7

**CAUTION:** If misuse the tube or re-placement the tubes by yourself, the machine have cause any malfunction, will not be eligible for warranty.

### **Servicing**

**CAUTION:** Your LP-X1 contains sufficient levels of voltage and current to be lethal. Do not tamper with a component or parts inside the unit. Refer any needed service to your authorized Aeron dealer or other qualified technician. Should service be necessary, please contact your Aeron dealer, or Aeron Customer Service Email: [info@lhe.com.hk](mailto:info@lhe.com.hk) or [postmaster@stereoland.info](mailto:postmaster@stereoland.info).

### **Cleaning**

To maintain the visual appearance of your LP-X1, occasionally wipe the front panel and top cover surfaces with a soft damp (not wet) cloth to remove dust. A mild, non-alkaline soap solution may be used to remove fingerprints or similar smudges. Cleaners containing abrasives should not be used as they will damage the brushed grain of the front panel finish.

### **Disposal and Recycling Guidelines**

To dispose of this electronic product, do not place in landfill. This product may contain regulated materials which upon disposal require special reuse and recycling processing. Please contact your dealer or importing distributor for instructions on proper disposal of this product on your country. Packing and shipping materials may be disposed of in a normal manner.

## **Limited Warranty**

Aeron products are covered by 2-Year Limited Warranty, or a 90-Day Limited Warranty on vacuum tubes. This Limited Warranty initiates from the date of purchase, and is limited to the original purchaser, or in the case of demonstration equipment, limited to the original purchaser, or in the case of demonstration equipment, limited to the balance of warranty remaining after original shipment to the retailer or importer.

The authorized importing retailer or distributor has accepted the responsibility for warranty of Aeron products sold by them. The specific terms and remedies for fulfillment of the Limited Warranty may vary from country to country. Warranty service should normally be obtained from the importing retailer or distributor from whom the product was purchased.

In the unlikely event that technical service beyond the ability of the importer is required, Aeron will fulfill the terms and conditions of the Limited Warranty. Such product must be returned at the purchaser's expense to the Aeron factory, along with a photocopy of the dated purchase receipt for the product, a written description of the problem(s) encountered, and any information necessary for return shipment. The cost of return shipment is the responsibility of the purchaser.

## **AERON LP-X1 Specifications:**

<b>Power Supply Input:</b>	50W
<b>Voltage Range:</b>	100-120V, 220-240V
<b>Max. Current Draw Indicated:</b>	50W
<b>Power Consumption:</b>	50W
<b>Distortion Spec.:</b>	0.07% (1kHz)
<b>Tube Compliment:</b>	(1) ECC85 (6N1), (2) 12AX7
<b>Inputs:</b>	one pair MC (RCA); one pair MM (RCA)
<b>Outputs:</b>	one pair RCA output
<b>MC Gain:</b>	Max. 63dB (adjustable to 66dB and 60dB)
<b>MM Capacitive Loading:</b>	10pF, 20pF, 47pF, 100pF
<b>MM Resistive Loading:</b>	47kohms fixed
<b>MC Resistive Loading:</b>	Adjustable 20ohms, 50ohms, 75ohms, 100ohms, 200ohms, 500ohms
<b>Frequency Response:</b>	10Hz-25kHz ( $\pm 2$ dB)
<b>Power Sequence:</b>	Mute delay power up sequence with soft start for improved tube life
<b>Dimensions:</b>	380x280x125mm (WxDxH)
<b>Weight:</b>	8kg

The manufacturer herewith declares that the product is in conformity with the provisions of the CE directive(s) including all applicable amendments.



### **WorldWide Sales & Marketing Office: Hong Kong**

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