

KingRex

Technology Co., LTD



PREference user manual

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PREference pre-amplifier and phono stage

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Contents of KingRex PREference pre-amplifier package

PREference pre-amplifier *1 pc

PREference power supply unit *1pc

PREference DC power cord *1 pc

User manual *1 pc

Warranty Card *1pc

Safety instructions

A. Important safety instructions!

Thank you for choose KINGREX PREference pre-amplifier. We sincerely hope you could keep the user manual for whole PREference life, it provides you with better protection for connected equipment.

Please read this user manual very carefully. It provides safety, installation, and operating instructions that will help you derive the overall performance and fully extend the life that the PREference has to offer.

Please save this manual! It includes important instructions for the safely use PREference and for obtaining factory service should the proper operation of the PREference come into question.

Please save or recycle the packaging materials! The PREference's shipping materials were designing with great care to provide protection from transportation related damage. These materials are invaluable if you ever have to return the PREference for service. Damage sustained during transit is not covered under the warranty.

B. Safety caution!

- To reduce the risk of electric shock, disconnect the PREference reserved power supply unit from the mains supply before installing the PREference pre-amplifier. Reconnect the power cord only after signaling interconnections have been made.
- The following precaution should be observed when working on the power supply unit:
 - Remove watches, rings or other metal objects.
 - Use tools with insulated handles.
 - !!! Caution: Risk of electric shock, do not remove cover. No user serviceable parts inside, Refer servicing to qualified service personnel.
 - !!! Warning: To reduce the risk of fire, replace only with the same type and rating of fuse.
 - !!! Warning: To reduce the risk of fire or electric shock, install in temperature and humidity controlled indoor area of conductive contaminants.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- Do not dispose of in fire to prevent injury or burns. Also do not place the units near the heat sources such as radiator, heat registers, stoves, or other devices (including amplifiers) that produce heat.
- Do not disassemble the machine with power on. If you do, you may receive an electric shock.
- Do not let children (or grownups) push anything into holes or slots in the case-this could result in harmful electrical shock and could cause damage of the equipment.

- Do not set these units near the water near following area: bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool.
- Obstruct the necessary all-around ventilation: especially DO NOT place the set close to curtains or on soft furnishing such as carpets. Overheating can cause unnecessary damage and shorten the lifespan of the equipment.
- No user serviceable parts inside. Refer servicing to qualified technician. Never remove the cover unless qualified to do so. This unit contains dangerous voltage.
- Read the user manual and familiarize yourself with the functions before you attempt to use this equipment.

C. Important warning!

You must earth this machine. The PReference PSU is going through 3 wires power cord and wall ac socket.

If you cut off the mould plug, get rid of it straight away. You cannot rewire the plug it into a socket

The wires in the mains lead have the following color code:

Green and Yellow: Earth

Blue: Neutral

Brown: Live

If the wires in the main lead do not match the colors marked in your plug, do the following:

- You must connect the green and yellow wire to the pin marked by the letter " E " or by the safety 'Earth symbol' or colored green and yellow or green.
- You must connect the blue wire to the pin which is marked with the letter " N " or colored black.
- You must connect the brown wire to the pin which is marked with the letter " L " or colored red.
- You must have a fuse in the plug, adaptor, or at the distribution board.
- The power supply cord should be routed so that it is not likely to be walked on or pinched, especially near the plug, convenience receptacles, or where the cord exists from the unit.
- The power-supply cord of the unit should be unplugged from the wall outlet when it is to be unused for a long period of time.

Introduction

A. Introduction

PReference, the second-generation pre-amplifier from KingRex, is a logical extension of the success store award-winning Preamp. Centered around high-quality op-amp and the diamond buffer highly praised for its musicality, a current booster has been added to the final output of the amplifier stage to enhance drivability. DC servo circuit has also been implemented to avoid unwanted audio signal loss due to coupling capacitors. Volume control is ALPS. Gain is user selectable with a choice

7,14,or 20dB. The result is accurate and perfect signal amplification, free from colouration and yet highly adaptable, the ideal for outputting to power amplifiers.

A separate high-performance power supply unit further guarantees an interference-free working condition. Panasonic FM electrolytic capacitors stand on guard along critical paths with their dedication to extremely low ESR. Both the preamp and the PSU are housed in all-aluminum chassis. A special feature is the sliding door on top of the preamp opening up to phonostage settings: MC(moving coil)/MM(moving magnet) with high/low gain and 6 pre-set resistive loads.

Boasting impressive full frequency range with THD as low as 0.0005% and dynamic range better than 126dB, the PREference will be the chosen one for discerning audiophiles.

B. Specification

PREference preamplifier

Inputs:	RCA*4
Output:	RCA*1
Gain:	7dB,14dB,20dB Selectable
Frequency Response Range:	20Hz-20Khz(+0~-0.1dB) 5Hz-80Khz(+0~-1.0dB)
Maxium Input Level:	9Vrms(@0dB)
Maxium Output Level:	9Vrms
THD+Noise:	<0.0005% @1KHz
Input Sensitivity:	1.1V For 2.5V Out@7dB Gain 510mV For 2.5V Out@14dB Gain 250mV For 2.5V Out@20dB Gain
Signal to Noise Ratio:	126dB
Channel Separation:	112dB@1KHz,92dB@10KHz
Power Consumption:	<10W

Phonostage(option): Specifications

Signal to Noise Ratio: 112dB(MM-Low gain), 104dB (MC-Low gain)

THD+N Ratio = 0.0006%(MM-LOW Gain) 0.01%(MC-LOW Gain)

Crosstalk (at 1kHz): -94dB (MM-Low gain), -79 dB(MC-Low gain)

Crosstalk (at 10kHz):-100dB (MM-Low gain), -86dB(MC-Low gain)

Gain (at 1k Hz): High gain: 44 dB / 63 dB (MM/MC), Low gain: 24 dB / 43 dB (MM/MC)

Max Input Level: High gain: 19 mV /6.6 mV (MM/MC), Low gain: 218 mV / 72 mV (MM/MC)

Output Impedance: <100 Ohms

Input Impedance : 100Ohms, 220 Ohms, 47kOhms, switchable

Input Capacitance: 0 P, 100P, switchable.

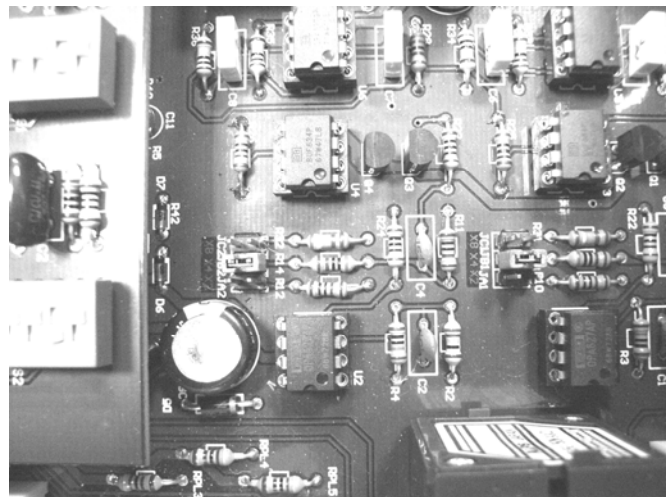
C. Main feature:

PREference pre-amplifier

1. Hi-Fi quality low noise IC as main circuit, gain is user selectable (7dB, 14dB, 20dB)
2. Current booster design for increasing dynamic.
3. DC Servo avoid any chances of harming the power amp and loudspeakers. Free of signal lost in coupling capacitor design.
4. The case is of a rigid construction and elegantly packed in fully aluminum anodized material.
5. Front panel is 6 mm thickness aluminum panel with two aluminum knobs- one is Rotary Encoder switch to select four inputs, another is ALPS RK27 volume pot to provide the fully enjoyment of Hi-Fi sound.

PREference Pre-amplifier GAIN Setting :

V gain=2X	=7db
V gain=4X	=14db
V gain=8X	=20db



PREference power supply unit

1. Reserved power supply unit(isolated power system design)- It provides pure signal sources, less noise and distortion than switching power adaptor or build-in power system.
2. Using NEUTRIK gold plating XLR socket for DC output.
3. Panasonic FM electrolytic capacitors stand on guard along critical paths with dedication to extremely low ESR.
4. Rigid construction and elegantly packed in fully aluminum anodized case.

Optional – phono stage Board

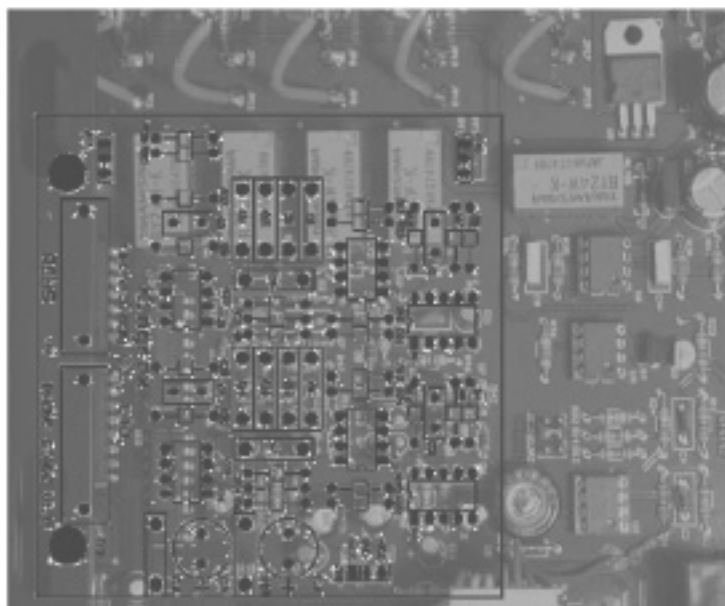
To reach more Hi-End users' demand, the PREference pre-amplifier has one additional design for phono stage Board.

Characteristic

- High quality audio integrated circuit by plug-in design, flexible for vinyl enthusiast to for getting exceptional signal purity and low-noise operation.
- Adapting MM (moving magnet)/ MC (moving coil) cartridge, total 6 pre-set resistive loads with high/low gain by DIP-SW adjust.
- Easy setting by upper sliding case design, this unit will fit the most demanding of audiophile systems.

How to install the optional phono stage circuit board with the main:

1. Open PREference pre-amplifier top cover.
2. Remove JPF1, JPF3 jumper.
3. Install the phono stage Board.
4. Lock the screw (2pcs* screw)
5. Cover the top cover.



Connecting to the mains

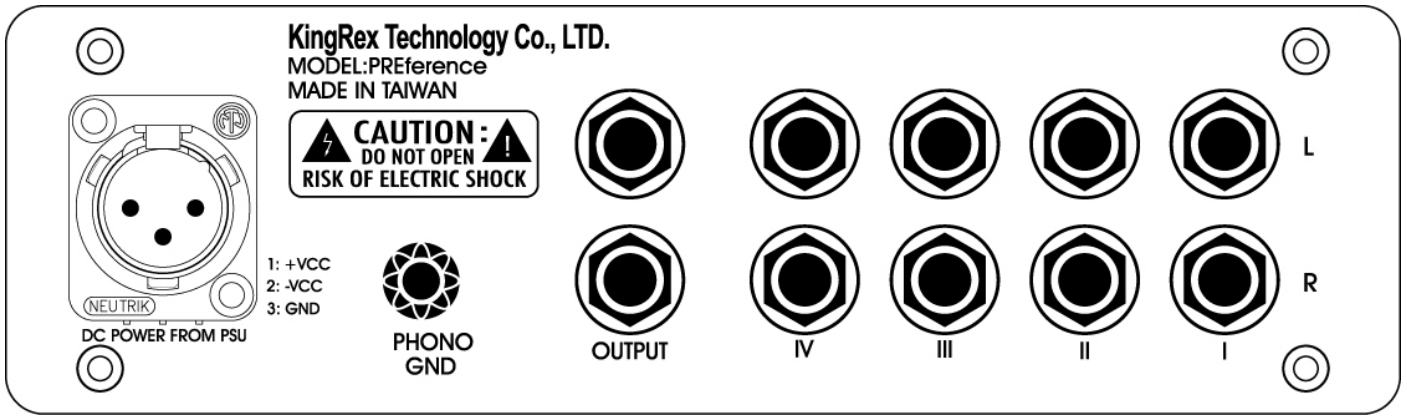
PREference has been especially made for the country to which it has been shipped. Any attempt to change the voltage or other types of modifications should be considered unsafe and may cause damage to both the preamplifier, reserved power supply unit, and other connected equipment. Warranty is annulled by any form of modification performed by any person not authorized by KingRex.

Please connect the PREference to the main supply with the supplied IEC main cable and DC cable by KingRex.

For further improvements to the level of sound quality, various type of mains cable type may be tested. Like the importance of any other cable in the system, the quality and refinement of the mains cable has an influence on the total balance of the sound, please feel free to experiment with the various brands available in your country. Please noted that KingREx cannot accept responsibility for damage incurred due to improper usage, connection, or manufacture of other cables than the enclosed.

D. Connecting to other equipment

The KingRex PREference Pre-amplifier features several types of inputs and output:



Inputs :

- I
- II
- III
- IV

All of the inputs are line level inputs. If a turntable is to be connected, a special RIAA amplifier must either be fitted as a plug-in module or an external must be connected in between the turntable and the PREference.

Remark:

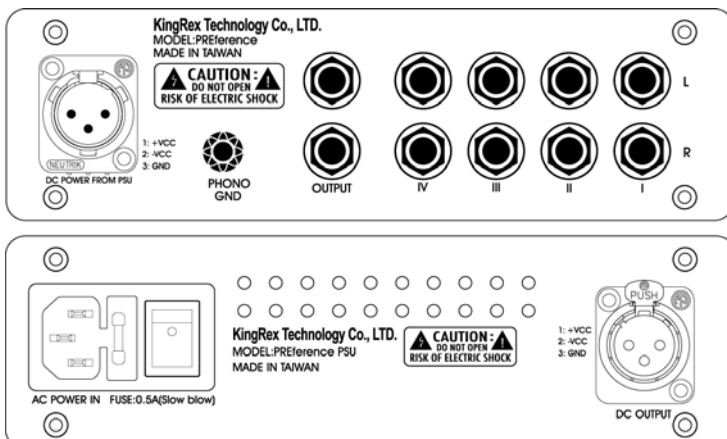
1. When the optional phono stage Board installed, the vinyl signal will pass through IV input. Please do not connect with any other line level output device, or it will have the funny sound into your loudspeakers.
2. Please note that all connectors of the PREference are gold plated. This is done to ensure long lasting and stable connections. Do only use cable and connectors either gold or silver plated.

Output

One pair unbalanced signal line out.

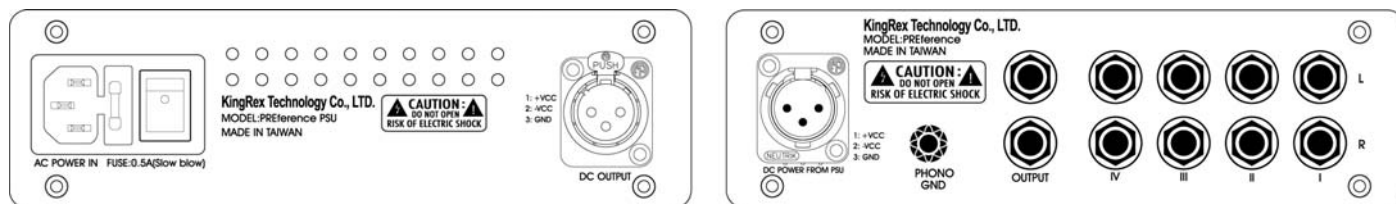
Placement Notice(When Phonostage Installed)

Bad setting-



When pile up the PReference preamplifier and power supply unit, the PSU transformer will bring interflow noise to get hum when using phono stage. (The interflow of transformer is super noise for the phono stage, the iron shield or aluminum shield cannot shelter it all, to avoid pile up the units will be the best solution.

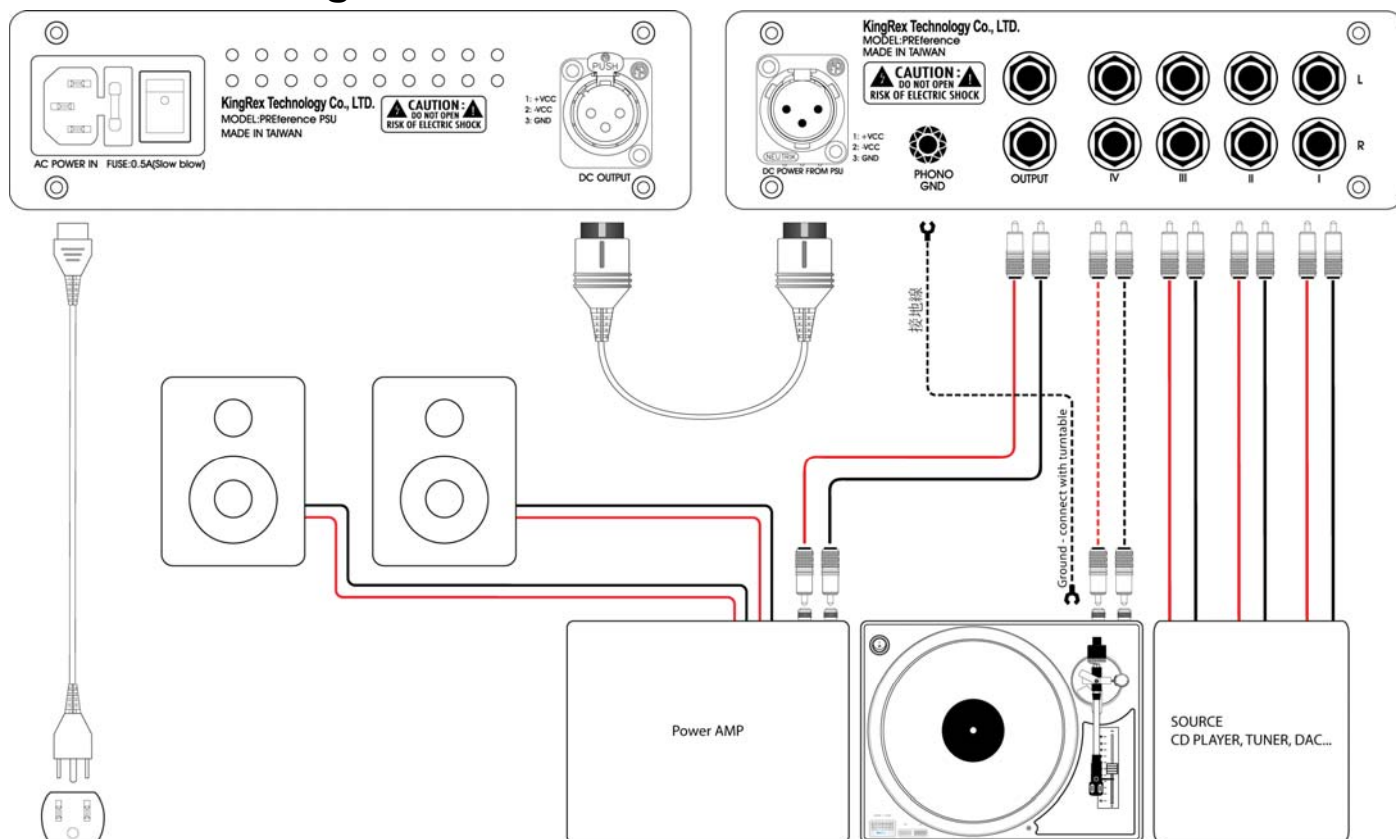
Good setting



This is the placement position we would like to suggest you. After setting the units as this position, please do some testing as following procedure:

1. Please power on the PReference PSU, choose the input selector into IV phono stage input. Please noted the volume should be set to the minimum. and disconnect the input IV cable from preference side. to make sure no any external noise into the preference.
2. Adjust the volume of PReference to suit your audition habit.
3. Please check the sound if there is any hum there and adjust the position of both units until there is no further hum of the interflow. The very low level hiss sound is normal.

The wire setting:

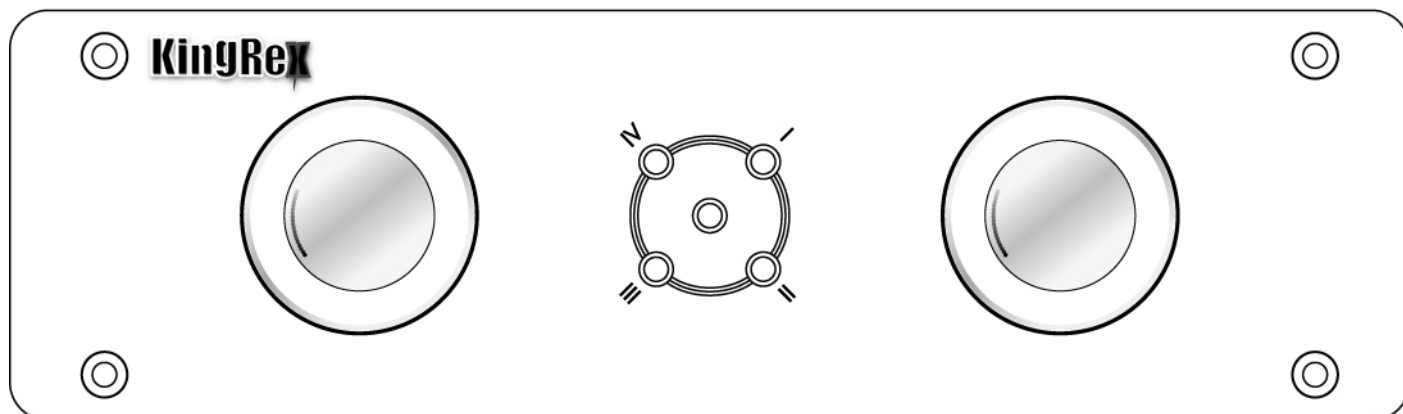


All of the inputs are line level inputs. If a turntable is to be connected, a special RIAA amplifier must either be fitted as a plug-in module or an external must be connected in between the turntable and the PReference.

*When using internal phono stage board, the turntable directly input to IV.

How to operate

Turning on the power of the PReference reserved power supply and using the left hand side rotary switch of the PReference preamplifier front panel.



A. Selecting a source

By turning on the mains supply, the LED will illuminate. The front panel LED circle of different input sources will light up when input has been selected. The left hand side knob could be rotated by clockwise and anti-clockwise both.

B. Adjusting the volume

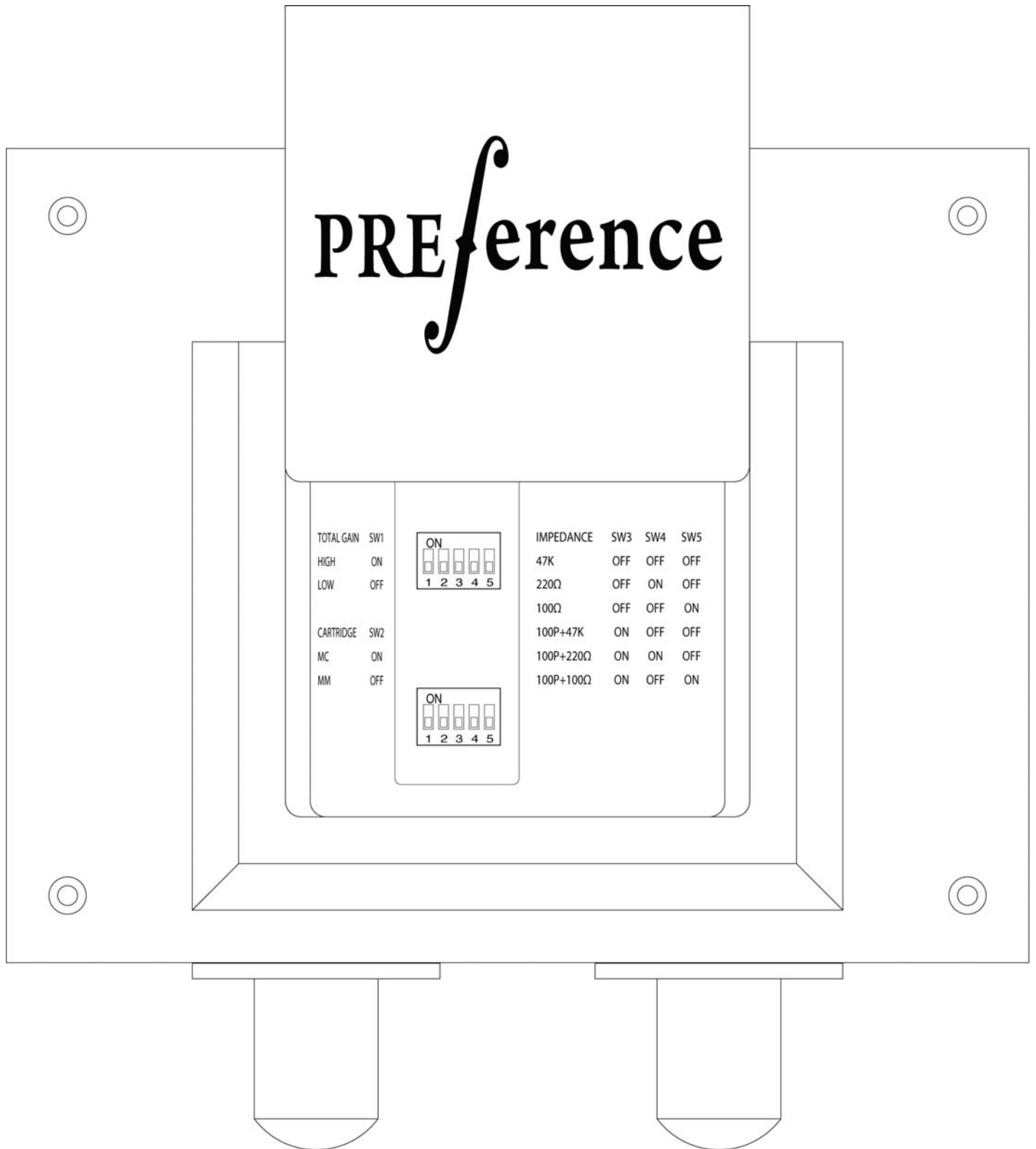
The knob on right side of the front panel controls the volume. On the outside of the knob a small dot in the indicates the level setting. The scale goes from approx. 8 o'clock minimum to approx 4 o'clock as maximum output level.

C. Optional -phono stage setting.

When you ordered the PReference pre-amplifier set, you could assigned the machine with or without the phono stage board. If you did not choose the optional phono stage to amp the RIAA, please pass reading this section of the PReference. If you have chosen the phono stage for your PReference, please read about the instruction included the safety instruction and safety notice.

1. When you received the PReference, you might notice there are one frame and one engraved PReference sliding aluminum panel. The sliding panel could be pull out, there are two DIP switch of R & L channel on the phono stage board and also there is phono stage setting instruction manual printing on the top cover of the PReference aluminum panel underneath the sliding panel. The instruction could help you to set the gain to fit the requirement of your cartridge.
2. Caution: The sliding panel only uses the magnet to stick on the panel and the frame. Please do not toward the machine slant to avoid the sliding panel drop unexpected.
3. The cartridge in market has lots of different gain setting requirement. KingRex sets the most in common standard for user to fit. If there is no same setting for your cartridge, please choose the closest setting to suit your cartridge requires. If there are two similar

setting, please test them both and choose the one you prefer the most. (***) We would like to suggest you to test the gain setting from Low Gain to High Gain. Normally the performance of the low gain might be better as the noise might be lower.)



Burn in

All new electronic equipment must be burned in to achieve optimum performance. Please allow the new pre-amplifier and reserved power supply unit to burn in by playing music with the loudspeakers connected for 200 hours before critical listening is performed.

Maintenance

For cleaning the cabinet, use a dry cloth and wipe dust away. If needed, moisturize the cloth with a small amount of window cleaning dissolvent. Do not use excessive amounts of solvents, and do not let any of solvent spill into amplifier. The front panel is made of aluminum it can be cleaned by using normal mild solvents and clean paper tissue or cloth. Do not use any other the scratch the mirror display at the front.

Please do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Any mounting of the devices should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Please read all the safety and operating instructions before connecting or using this unit. Retain this notice and the user manual for future reference.

Service

The simplicity of the KingRex PReference pre-amplifier and reserved PSU are very few parts can be breaking down.

Should you ever require service, you can either contact your dealer or national distributor, who can solve any problems locally.

The units should be serviced by qualified service personnel, technician, dealer or distributor when:

1. The units have fallen, or liquid has been spilled, into the units.
2. The units have been exposed to rain, or liquid of any kind.
3. The units do not appear to operate normally, or exhibits a marked change in performance.
4. The units have been dropped or the enclosure damaged.

You are also very welcome to contact KingRex Technology Co., LTD directly if you need any information or help.

Our contact information is listed on the last page of this user guide.

Your Responsibilities

The above warranties are subject to the following conditions:

1. You must retain and present your dated invoice, order record, or bill of sale to provide proof of original purchase from a KingRex Authorized dealer and coverage under the warranty period.
2. You must notify us within thirty (30) days after you discover a defective product or part as we only provide one month free replacement unit.
3. All warranty servicing of this product must be done by KingRex authorized dealer or distributor or KingRex.
4. Charges by third parties for set-up, installation, adjustments, shipment, insurance, and other charges are not covered by this warranty.
5. This warranty extends only to defects in material workmanship as limited above and does not extend to any product or part which has been lost or discarded by you, or to damage to products or parts caused by misuse, accident, any nature forces as lightening, fluctuations in electrical power, improper maintenance or use in violation of instructions provided in this user manual, or to products which have been altered or modified. This warranty does not extend to products which have had the serial number removed, altered, or rendered illegible.
6. Physically damaged products are not covered by this warranty and will be returned as received without repair.

Our best wishes ~

We at KingRex only use the best "raw materials" trimmed and rafted to perfection by the best engineers and sound enthusiasts for all audiophiles.

The guidance lines in this manual will assure you of an exquisite sound experience hope it will provide clear instruction to operate our products.

We hope you years of proud ownership and happy listening. We feel confident that you will cherish this amplifier for both its amazingly clear reproduction as well as for its splendid craftsmanship, elegant appearance, and convenient size.

Hope you won't mind to share with us if there is any problem or questions. Please do not hesitate to contact with us. We look forward to hearing from you~

KingRex Warranty		NOTICE INFORMATION :
PRODUCT		<p>※The warranty content of our service</p> <p>The breakdown of product is not artificial. The warranty for exchange new product is only one month after purchasing and the free fixing service is only for one year after purchasing. After the warranty, we still offer repairing service (change for service & components).</p> <p>※ The warranty is annulment by following condition:</p> <p>The damage of machine by artificial damage, improper using, repair or refit by yourself, nature disaster, lightening strike, leaking water, using power voltage didn't follow designated, unable provide warranty certification, unmatched model NO. Empty or alter content of warranty, cannot recognize content of warranty certification.</p>
SERIAL NUMBER		
PURCHASING COMPANY		
PURCHASE DATE		
Client Information		
Name		<p>KINGREX TECHNOLOGY CO., LTD 2F, NO.232 LIANCHENG RD.,JHONGHE CITY,TAIPEI TAIWAN 235 kingrex.tec@msa.hinet.net</p>
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