Precaution

Please read these instructions carefully before use.

- Do not attempt to disassemble or modify the product.
- Keep the product away from external shocks or vibrations.
- Do not use damaged or peeled cables.
- Do not use the product outdoors.
- Product specifications and features are subject to change without notice.

Warranty Information

- Free warranty service
 - In the case that a defect is found which is caused by a design or the production flaw while using the device properly, the manufacturer is responsible for the faulty product and there is free warranty service for 1 year from the date of purchasing.
 - Even during the warranty service period, malfunction or damage of products caused by inevitable incidents such as a natural disaster is not subject
 to the free warranty service.

Rev1.0g

- Warranty service at a cost
 - The free warranty service period is expired.
 - Malfunction of the product caused by a user's fault.
 - Malfunction of the product caused by incidents.
 - Malfunction of the product caused by a natural disaster such as earthquake, flood, lightning & etc.
 - In case of the warranty service at a cost, the customer should cover the shipping costs.
- Examples of a user's fault
 - In case of attempts to disassemble or modify the device.
 - In case of not following the instructions in this manual.
- Please read these operating instructions and Q&A board on our website carefully before asking for the warranty service.

Supplied Components

- A sPQ-100 Unit
- A 9V adaptor
- sPQ-100 Operating instructions

Specification

- User interface
 - Power on/off switch
 - Operating indicator LED x1
 - MM/MC selection switch
 - Input impedance/capacitance selection switch

MM : 47KΩ, 100pF, 150pF, 220pF, 330pF

MC : 15Ω, 20Ω, 100Ω, 500Ω, 10pF

- Bass boost level selection switch

14.5dB, 16dB, 20dB @ 20Hz, 33dB @ 7Hz(no bass shelf)

- Bass turnover frequency selection switch

250Hz, 354Hz, 500Hz, 800Hz

- High frequency roll off frequency selection switch

1592Hz, 2122Hz, 2500Hz, 3183Hz

- Total gain selection switch

40dB, 50dB, 60dB, 70dB @ 1KHz

- Tolerance : ±10%(all switch location)

Input/Output signal

- Input signal

Stereo RCA jack with earth terminal x 1

MM input

Signal level : $3mVac \sim 10mVac @ 1KHz$ Recommended impedance : $47K\Omega$

Recommended capacitance : $100pF \sim 330pF$ Frequency response : $20Hz \sim 20KHz$

MC input

Signal level: 0.1mVac ~ 1mVac @ 1KHz



Ultimate High Performance Audio

Recommended impedance : $15\Omega \sim 500\Omega$ Frequency response : 20Hz ~ 20 KHz

- Output signal

Stereo RCA jack

Output signal level : 9.5Vac Max Output impedance : 20Ω typical Frequency response : $20\text{Hz} \sim 20\text{KHz}$

SNR : 100dB typical @ 1KHz max output level

(MC, RIAA, 50dB Gain setting)

- Tolerance : ±10%(all signal level, gain and frequency)
- DC power input

- Input voltage : 7Vdc ~ 9Vdc

- Input current : 1A max

- 5.5mm OD, 2.1mm ID adaptor jack

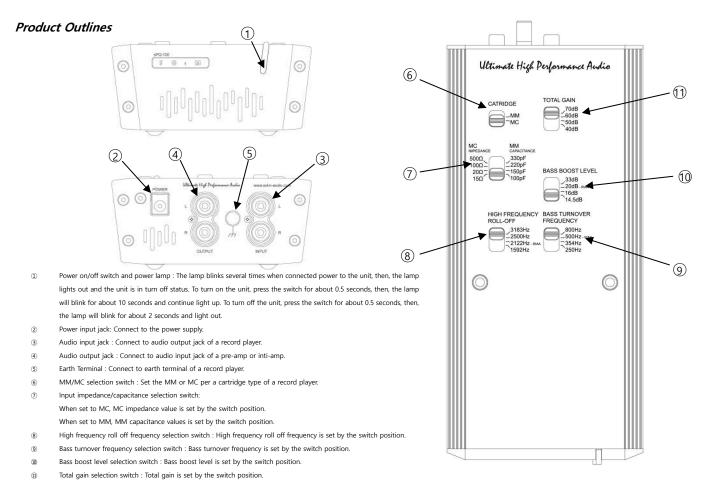
Operating environment

- Operating temperature : $0 \sim +40^{\circ}$ C

- Storage temperature : 0 ∼ +40°C

- Operating & storage humidity : 10% ~ 90%

- Dimension
- 106 x 48 x 245(mm)
- Weight
 - 1.5kg >



How to use

- Precautions

- Please read these operating instructions fully before installing the unit.
- Please turn off all audio devices and disconnect AC power cables from all audio devices before installing the unit.
- Please check output and input connectors and connect cables correctly.

- Installations

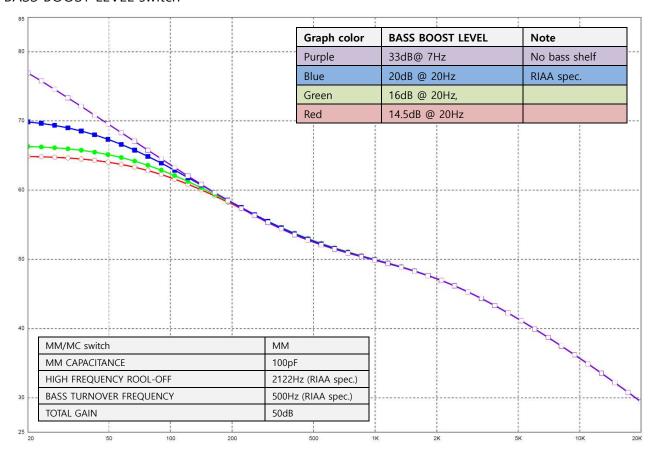
- Make sure to turn off all audio devices.
- Disconnect AC power cables from all audio devices.
- Connect the Earth terminal of a record player and the earth terminal of the sPQ-100 with a earth cable. And tighten the earth terminal so that it does not come loose.
- Connect audio output jack of a record player and the audio input jack of a sPQ-100 with an inter cable.
- Connect the audio output jack of a sPQ-100 and the audio input jack of a pre-amp or inti-amp.
- Set the MM or MC per a cartridge type of a record player, and set MC impedance or MM capacitance.
- Refer to the enclosed sPQ-100 EQ characteristics and select the desired EQ graphs by setting the switches on the top of the sPQ-100 according to the specifications of the record you want to listen to.
- Turn on the unit by pressing the switch for about 0.5 seconds, then, the lamp will blink for about 10 seconds and continue light up.
- Turn the volume down on the audio system, then turn on all audio devices.
- Put a record into the record player and start playing.
- Set the volume of a pre-amp or inti-amp gradually and fix the volume to listen to music.
- When turning off the sPQ-100, make sure turn off the power-amp and pre-amplifier first, then press the switch on the front of the sPQ-100 to turn off.

LP record EQ table by Switch settings

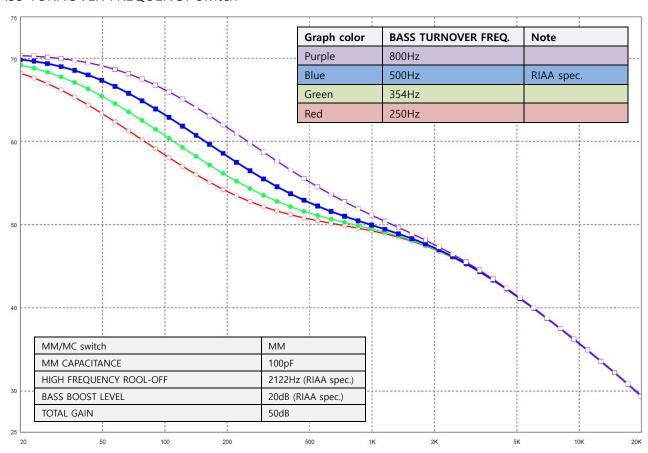
EQ Graph Spec.	HIGH FREQUENCY ROLL-OFF	BASS TURNOVER FREQUENCY	BASS BOOST LEVEL	Note
RIAA	2122Hz	500Hz	20dB	
AES	2500Hz	354Hz	33dB	
NARTB(NAB)	1592Hz	500Hz	33dB	
TELDEC	3183Hz	500Hz	20dB	
CCIR 78	3183Hz	354Hz	33dB	
IEC N78	3183Hz	354Hz	16dB	
Columbia LP	1592Hz	500Hz	14.5dB	
RCA Old Orthophonic	2122Hz	500Hz	33dB	
LONDON LP	3183Hz	500Hz	14.5dB	
All settings tolerance are ±1 dB with ideal values at 50Hz, 1KHz, 10Khz				

EQ characteristics per sPQ-100 Switch settings

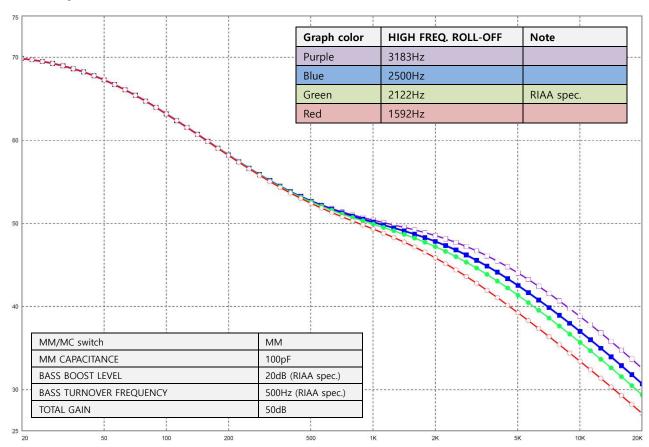
- BASS BOOST LEVEL switch



- BASS TURNOVER FREQUENCY switch



- HIGH FREQUENCY ROLL-OFF switch



- TOTAL GAIN graph

