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All operational, technical and descriptive material in this publication
is subject to change at any time without notice. For further product
information or queries, please contact your Plinius dealer.

Plinius products are designed and manufactured by
Plinius Audio Limited, New Zealand.
Introduction

Congratulations on your decision to become the proud owner of this Plinius Kaitaki Preamplifier.

This manual has been prepared to help you understand the operation of your preamplifier, and to provide information about its design and the variety of ways it may be used.

We have designed and manufactured this preamplifier to reproduce your favourite music faithfully and accurately. With a little care and a full understanding of the operating recommendations in this manual, your Plinius Kaitaki Preamplifier will provide years of high-quality, trouble-free performance.

Please take the time to read this manual thoroughly before using your preamplifier.

SERIAL NUMBER ________________________________

FINAL TEST CERTIFIED BY ____________________
Design Philosophy

From a distance you can see that the design of the Plinius products is more than an applied styling exercise to the front panel. We have started from the ground up to produce a casing for our electronics that is unrivalled in its physical strength and visual simplicity.

Wherever possible we have reduced the number of parts needed and then invested massively in refining and producing the remaining parts to the highest quality achievable with state of the art computer controlled machines allied with expert craftsman. Examples of this approach include the hydraulically formed corners on the amplifiers giving much greater strength and the one piece housing for the remote control that looks, feels and genuinely is robust.

As with music that you are not familiar with, truly innovative new designs can take time to understand and enjoy. How often have you heard music that you were first unsure of, that over repeated listening, has become a firm favourite?

Our designs are fundamentally different to many other companies, and we hope that you will take the time to explore their unique character and qualities because we have not made them different simply to be different. We genuinely believe that their visual and tactile qualities do improve the experience of listening to music and that is our design goal!

Ross Stevens
DESIGN DIRECTOR
Unpacking

Open the box from the top and remove the accessories from the foam end caps. You may now proceed to lift the unit from the box. Once the unit is removed you can proceed with the removal of the foam end caps. These caps are designed to fit on the front and back of the unit for maximum protection. Retain the packaging for future transportation of this unit.

Placement & Ventilation

This Plinius product may operate at a moderately high temperature, especially during extended listening sessions. With this in mind, we recommend the following guidelines for placement and ventilation:

- The ideal location is upon a rigid stand, away from direct contact with any temperature sensitive materials, furniture or deep pile carpets.
- Ventilation through and around the preamplifier should be kept unimpeded.
- Ensure heat vents (slots in the base and lid) are not covered or restricted in any way.
- Equipment racks should be of an open type with no closed side panels and no closed front or rear panels. Ensure a minimum of 100mm clearance on all sides of your Plinius unit to other equipment and the shelf above.
- If the unit is in an enclosed cabinet, the clearance should be greater than 400mm on all sides. Ensure the space between the chassis and shelf below the unit is unobstructed at all times.
- When stacking separate audio components, ensure a minimum of 400mm clearance above the top unit is maintained for suitable airflow.
- NOTE: This unit has been designed for use in moderate climates only, not for tropical conditions.

The design of this Plinius product incorporates a very high level of mechanical decoupling of the input and output. It can however still be influenced by acoustical feedback in the operating environment. The use of acoustic cones or a suitably spiked stand or table may further enhance the performance of this preamplifier. Consult your Plinius dealer for further advice if required.
Care & Maintenance

With simple care and maintenance your Plinius product can be kept looking and operating like new for many years to come.

MAINTAINING THE CONNECTORS
Exposed connectors such as the RCA connectors will be subject to environmental factors, and over time the surface may degrade. This can be greatly reduced by fitting readily available ‘RCA caps’ to reduce the effects of environmental elements on the RCA connectors. These RCA caps or RCA shorting caps can also provide sonic benefits. Connector cleaning products are also available to clean the RCA and cable connectors and frequent checks and cleaning will help maintain a good signal connection.

NOTE: DO NOT use RCA shorting caps on output connectors or power amplifier input connectors. Use RCA shorting caps on unused preamplifier stage input connectors only. Standard RCA shielding caps can be used on any unused input or output connectors.

MAINTAINING THE SWITCHES
Switches should be maintained by using each various switch setting periodically. Even if a switch or a switch setting is not used, it is a good idea to toggle small switches and turn rotary switches though the full range of the switch several times in succession to keep the contacts active. Performing this simple action will promote longevity of the switch contacts.

SURFACE CLEANING
From time to time you may wish to clean the surface of your Plinius equipment to remove dust, or any material build up from the atmosphere or on commonly used controls. Your Plinius product is made up of parts that have a hard anodised or a powder coat finish and will clean easily without being damaged.

Cleaning should be carried out using a soft cleaning cloth, dry or with either a small amount of water or a very mild surface cleaner, while observing the following guidelines:
• As a safety precaution, always switch the equipment off prior to cleaning
• Always use a cloth that is soft and clean
• Never use abrasives or polishing compounds anywhere on the unit
• Never apply liquid directly to the surface of the unit
• Use the cloth dry or with mild surface cleaners of either liquid or foaming type
• Apply only small amounts of cleaner to the cloth
• DO NOT rub the surface but wipe clean only. Excessive rubbing may dull powder coat or wear the screen printed text.
Precautions

PLEASE TAKE SPECIAL NOTE OF THE FOLLOWING PRECAUTIONS BEFORE OPERATING YOUR NEW PREAMPLIFIER.

• The Plinius Kaitaki Preamplifier contains electronic circuits that are capable of generating heat that could have an adverse effect on other electronic equipment, furniture, etc.

• DO NOT leave flammable material on the preamplifier whilst running, as this could pose a serious fire risk.

• This preamplifier operates at hazardous voltage levels. There are some alterations that may be made by you, the owner. However, we recommend that any work requiring removal of the lid be referred to a suitably qualified and experienced service technician.

• DO NOT attempt to connect any input of this preamplifier to its own outputs.

• DO NOT earth any output terminal or connect any of these terminals together without following the instructions in this manual or seeking qualified assistance.

• DO NOT place this preamplifier in any position where liquids, or any foreign material may accidentally enter it.

• DO NOT connect any voltage source, short circuit, earth/ground or appliance to the preamplifier output terminals.

• DO NOT expose the unit to dripping or splashing.

• DO NOT place objects filled with liquids on the unit, e.g. vases.

• DO NOT place sources of naked flame on the unit, e.g. candles.
Front Panel Functions

The front of the Plinius Kaitaki Preamplifier incorporates all the facilities you will require on a daily basis.

1. **DISPLAY LED**
   The blue LED on the front panel indicates the mode of operation. When first switched on the unit will go into standby and the display LED will vary in brightness. When the unit is taken out of standby and is ready for use, the LED will remain lit. Whenever mute or a remote volume button is pressed, the LED will dim.

2. **SOURCE SELECTION BUTTONS**
   The buttons on the front panel allow selection of any of the different inputs available on the rear panel. This selection is fed to the Pre Out, Line Out and speaker outputs of the preamplifier.

3. **SOURCE DISPLAY LEDS**
   These small white LEDs communicate the current source selection.

4. **HT BYPASS LED**
   This small white LED is ON when the current source selection is the HT Bypass Input. This input can be selected using the remote control or activated by the trigger input.

5. **PHASE LED**
   This small white LED is ON when the phase of the input signal is inverted 180°. This option can be activated using the remote control.

6. **VOLUME CONTROL KNOB**
   The volume control is a motorised unit that will accurately convey the selected source signal to the line stage of the Plinius Kaitaki Preamplifier. When using the remote control to alter the volume level, briefly press the button to make small adjustments, or hold the button down to continuously adjust the volume.
Rear Panel Functions

This panel incorporates all terminals for connecting the input signals from your CD or Network player, tuner, etc, to the outputs to the power amplifier and the mains supply. Please remember that your Plinius Kaitaki Preamplifier is a high quality electronic instrument capable of an exceptional level of performance. Be sure that you understand your system’s requirements fully before you make any connection to this preamplifier.

1. MAINS SWITCH
The heavy-duty rocker switch turns the Mains/Line Power to the preamplifier ON or OFF. The preamplifier draws a moderately high current when switched on, so it is not good practice to rapidly turn the Mains switch on and off repeatedly.

2. INPUT TERMINALS
The input terminals for your Plinius Kaitaki Preamplifier are easily accessible along the bottom of the rear panel, with the right channel (red) inputs along the top. The phono inputs are suitable only for low level input phono turntables, while the rest are all ‘line level’ inputs, for use with unbalanced signals from line level source components such as CD players, tuners, etc. Consult your Plinius dealer for further advice if required.

NOTE: The internal Phono stage is an optional accessory. If your unit is not fitted with an internal phono stage, an external phono preamplifier can be used, or an additional line level source can be connected.

3. CD XLR INPUT TERMINALS
The CD input has the option for RCA or XLR ‘line level’ XLR balanced inputs for use with source components that feature XLR balanced outputs. Balanced signals are carried via a three way cable.

The XLR pin configuration used in all Plinius product is:

PIN 1 to GND
PIN 2 to +Signal
PIN 3 to -Signal
NOTE: Because of the way our XLR and balanced inputs are configured it is not possible to use both XLR and RCA at the same time.

4. INPUT SELECTION SWITCH
This switch next to the CD XLR input is used to select the pair of CD input sockets required as described above. Moving the switch DOWN selects the CD RCA input connections, while UP selects CD XLR input.

5. HT BYPASS INPUT
This input is for use specifically with home theatre processors. In some circumstances you may wish to use the power amplifier connected to the Kaitaki as the front two channels of a surround or home theatre environment. The HT Bypass input can be used for this purpose, as any signal connected to these inputs can be sent directly to the power amplifier bypassing the preamplifier entirely. It is accessed by the remote control or the trigger input.

6. OUTPUT
The Output connections are provided to enable the Kaitaki Preamplifier to be connected to an external power amplifier. Use either single ended RCA or Balanced XLR. DO NOT use both.

7. LINE OUT
These RCA outputs are located next to Pre Out and are provided to interface to headphone amplifiers, line level recording devices for archiving, or other accessories that require a line level signal. The outputs are always live with the signal of whichever source is selected at the time of recording.

8. GROUND LIFT SWITCH
This switch allows the signal ground to be disconnected from the chassis. In some installations a hum loop may exist due to duplicate ground paths from different equipment. Use this switch to remove the connection from 0V to ground thus allowing some flexibility in your particular set-up.

9. REMOTE TRIGGER INPUT/OUTPUT SOCKETS
In order to integrate more effectively into a home theatre system, the Kaitaki Preamplifier has a remote trigger input socket fitted to the rear panel. By connecting a processor with a remote trigger signal to this socket, the Kaitaki Preamplifier can be switched between HT Bypass and standby modes. When in standby the preamplifier draws less current and will operate at minimum temperature. This may be of advantage in multi-amplifier and/or remote installations. The Kaitaki Preamplifier also features a remote trigger output socket fitted to the rear panel. By connecting this trigger output to other system components, the entire system can be put in and out of standby by the processor.
10. REMOTE IR INPUT
This socket is for connecting to an external remote control sender. Some companies manufacture these devices to enable multi-room remote control. Please see your Plinius dealer for further advice.

11. MAINS POWER CORD IEC SOCKET
This connector is where the mains supply cable from your wall connects to the preamplifier. You will notice that a fuse holder is mounted within this connection, and it holds a mains fuse to provide surge and overload protection for your preamplifier.

12. PHONO EARTH POST
This is a chassis connected gold-plated earth post for use with most vinyl turntables.
Remote Control Functions

The Plinius Kaitaki Preamplifier features a full function remote to control all settings and configurations of the preamplifier as well as complete controls for operating your Plinius CD player.

KAITAKI PREAMPLIFIER REMOTE FUNCTIONS:

1. STANDBY
Standby is used to put the unit into a low power mode. This disconnects the outputs of the preamplifier and turns off the white display LED’s. It also switches the preamplifier to a low bias mode to reduce power consumption and still keep the circuitry active. This allows a minimum warm up period before the Plinius Kaitaki Preamplifier is at its sonic best.

2. DISPLAY
The display button on the remote enables you to adjust the display brightness of the white LED’s. Pressing the display button repeatedly will dim the LED in steps until they are off. The next press of the button will cycle the display back to full brightness.

3. SOURCE SELECTION
The source selection buttons enable changing from one input to another when needed and can be scrolled left or right to select the desired source. On reaching the left most or right most input, the selection will scroll in a continuous loop with the next button press.

4. HT BYPASS
The HT Bypass button activates the Plinius Kaitaki Preamplifier home theatre bypass mode. Once activated, the preamplifier is bypassed and the signal is transmitted from the HT Bypass input directly to the output. NOTE: In HT Bypass mode the only buttons that continue to function are Standby and Display. More information on HT Bypass can be found in the Installation & Operation section in this manual.

5. PHASE
The phase of the output signal from the preamplifier is toggled from absolute (in-phase) to inverted 180 degrees with each press of this button.

6. VOLUME CONTROL
Use these two buttons to control the volume level of the preamplifier. The right side...
button increases volume, while the left side button decreases the volume. Briefly press either button to make fine adjustments to the volume level. Hold down either button to continually adjust the volume level.

7. MUTE
Pressing this button toggles the Kaitaki Preamplifier in and out of mute.

**CD PLAYER REMOTE FUNCTIONS:**

8. REPEAT
The repeat LED on the front panel will illuminate once this button is pressed. The CD Player will play all tracks on the CD as normal, but then repeat all tracks from track 1 in an endless loop. It does not repeat one track only, but will repeat the entire contents on the CD.

9. DISPLAY
This function enables you to quickly adjust the display brightness. Use this button to toggle between high, low, and off settings. Note that whenever the compact disc drawer is ejected to change a CD, the display will automatically revert to full brightness.

10. CUE BUTTONS
Use these two buttons to cue through the track you are listening to. Press and hold the right side button to cue forward through the track, or press and hold the left side button to cue backwards through the track. Once the start or end of the track is reached, Cue will continue into the next track.

11. TRACK BUTTONS
The track buttons enable you to move forward (right button) or back (left button) through the tracks on the CD. Press the button once to skip to the next track on the CD, or hold down to skip through multiple tracks. When you press the back button once the CD Player will revert to the start of the current track. Pressing the back button again will skip back to the previous track. The track currently selected will be brightly lit.

12. STOP/EJECT
If the CD player is playing a CD, pressing the Stop/Eject button will stop play and return to track 1. Pressing the button again will open the compact disc drawer so the CD can be changed.

13. PLAY/PAUSE
Press the Play/Pause button to begin playing the CD at the track selected. The display LED corresponding to the track that is being played will vary in brightness. Press the Play button again, and the track will pause, designated by the LED flashing. If the compact disc drawer is open, pressing play will shut the drawer and start playing the CD from track 1.
Installation & Operation

WARNING: RISK OF ELECTRIC SHOCK. TERMINALS MARKED WITH ⚡ SHOULD BE CONSIDERED HAZARDOUS LIVE AT ALL TIMES.

This preamplifier operates at hazardous voltage levels. We recommend that any work requiring removal of the lid be referred to a suitably qualified and experienced service technician. DO NOT place this preamplifier in any position where liquids or any foreign material may accidentally enter it.

PLEASE READ & UNDERSTAND THE PRECAUTIONS WITHIN THIS MANUAL FOR PLACEMENT & OPERATION OF THIS PRODUCT.

CONNECTIONS
Connections to your Kaitaki Preamplifier should be made in the same order as they are listed in this section. DO NOT attempt to connect your Kaitaki Preamplifier until you have read and fully understood these instructions. Should you require further assistance, please contact your Plinius dealer.

DO NOT POWER UP YOUR PREAMPLIFIER UNTIL YOU HAVE CONNECTED YOUR INPUT/OUTPUTS CORRECTLY FOR YOUR SYSTEM.

SOURCE COMPONENT INPUTS
Connect your source to the input of the Kaitaki Preamplifier using suitable single-ended RCA or Balanced XLR interconnect cables only. For RCA, make sure you connect the red coded cable to the red RIGHT RCA input, and the white cable to the white LEFT RCA input. Also make sure the RCA connectors are a snug fit and are inserted all the way in.

For CD XLR input connection, make sure you connect the RIGHT XLR input and LEFT XLR inputs to the right and left outputs from your source respectively. Also make sure the XLR connectors click into place. Use the input selection switch to select RCA if you are using RCA inputs or to select XLR if you are using XLR inputs.

NOTE: DO NOT connect XLR and RCA at the same time, use only one or the other. The phono input should be connected to a suitable source turntable only.
OUTPUT TERMINALS
The connection of the outputs of the Kaitaki Preamplifier must be made by an 'instructed person' or by suitable ready made interconnect cables only. Connections for power amplifiers are provided at the rear of the unit. If using single-ended RCA outputs, connect your Kaitaki to the RCA inputs on the back of the power amplifier.

Make sure you connect the red coded cable to the red RIGHT RCA output, and the white (or black) cable to the black LEFT RCA output. Also make sure the RCA connectors are a snug fit and are inserted all the way in. For XLR output connection, make sure you connect the RIGHT XLR output and LEFT XLR output to the right and left inputs of your Power Amplifier respectively. Also make sure the XLR connectors click into place.

NOTE: DO NOT connect XLR and RCA at the same time, use only one or the other. The only time the outputs are not 'live' is when the Preamplifier is in mute or standby.

TERMINATION QUALITY
Quality of the connections must be examined to ensure that high-performance, trouble-free operation is enjoyed. Check that the connections are tight but do not over tighten. Be sure to use good quality connectors with a firm fit.

PHASING (OR POLARITY)
It is important to achieve good stereo imaging in your listening room. By observing the wiring instructions for your preamplifier, each power amplifier/loudspeaker combination should be in phase. If you experience poor stereo image and/or a lack of bass, check that the loudspeaker wiring has been connected correctly. If in doubt, consult your Plinius dealer for advice. Naturally it is also important to make sure all the leads carrying signals for the RIGHT channel loudspeaker are connected to the RIGHT input to the amplifier from your preamplifier or CD player etc. Signals for the LEFT channel should be wired in a similar fashion.

USING HT BYPASS INPUT
The Kaitaki Preamplifier features a home theatre input to bypass the preamplifier stage when used in home theatre or multimedia installations. When HT Bypass is selected, the signal will pass from the HT Bypass input directly to the Kaitaki output and on to the connected power amplifier.
This enables the unit to remain in circuit for use with two channel sources (such as digital players and turntables), as well as a link to the amplifiers and speakers should you wish to use your normal stereo set-up in a surround or home theatre environment.

To access the HT Bypass input, press the HT button on the remote control. To exit the HT Bypass mode and return to using a source component, press HT again, or use the source buttons to scroll to any desired source component.

NOTE: Only connect a suitable pre out signal to the HT Bypass input. When HT Bypass is selected, remote volume cannot be accessed.

USING THE OUTPUT
The signal from this output is preamplifier out level, and can be taken from either the RCA or XLR connections. The output level remains adjustable by using the volume control and carries the signal of the selected output. Using the Mute function will silence the Preamplifier Output.

USING LINE OUT
A line level output is provided on the back of the Kaitaki Preamplifier for connection to accessories such as recording devices, headphone amplifiers sub-woofer speakers etc. the level is fixed and carries signal of the selected output, even when the Preamplifier is muted.

CONNECTING THE MAINS SUPPLY
Firstly, check that the mains supply voltage printed on the rear of this preamplifier is similar to the mains supply voltage in your area. If in doubt, please consult your Plinius dealer. Mains supply power connection is via the plug-in lead supplied with your Kaitaki Preamplifier. Where possible, check the wall outlet is switched OFF, then connect the local mains plug end of the lead to the wall outlet. Check the preamplifier is switched OFF, and connect the IEC end of the cable to the IEC socket at the back of the preamplifier. With the cord fully connected, switch the wall outlet ON.

Now that your Kaitaki Preamplifier is configured correctly, switch the power switch on the rear panel to ON. The display LED will cycle in brightness for approximately ten seconds as the internal circuitry stabilises. You can now enjoy your new Plinius Kaitaki Preamplifier.

NOTE: This unit must be connected to a mains socket outlet with a protective earthing connection. The wall outlet socket or mains switch must be accessible at all times in case of emergency.

WARM-UP PERIOD
You will find that the Kaitaki Preamplifier will become noticeably ‘purer’ in sound after being on for a period of time. We usually recommend waiting at least 24 hours before expecting the best quality of sound reproduction from your preamplifier.
Product Features

REMOTE CONTROL
Provided with your Kaitaki Preamplifier is a 17 function remote control. Two AAA batteries power the remote, and these are replaced by removing the two screws on the base of the remote that hold the battery compartment in place. The bottom end of the remote is now free to slide out for access to the batteries. Replace the two batteries, taking care to refit the new ones with correct polarity.

PHONO OPTION
The internal Phono stage is an optional accessory. If your unit is not fitted with an internal phono stage, an external phono preamplifier can be used, or an additional line level source can be connected.

PHONO GAIN ADJUSTMENT
The phono stage can also be set to high or low gain to suit your phono turntable specifications (high gain is the factory setting). Disconnect the lead from the IEC socket on your Kaitaki Preamplifier and make sure the Mains switch is OFF. Carefully remove the lid by undoing the cap screws on the top and side. Locate the small black phono jumpers set in the middle of the phono circuit board. The gain can now be adjusted noting that high gain (factory setting) is set with jumpers toward the base, and low gain is set with jumpers toward the lid. Now re-assemble your Kaitaki Preamplifier.

PHONO LOAD ADJUSTMENT
The phono stage load can also be adjusted to suit your phono turntable specifications (47k ohms is the factory setting). Disconnect the lead from the IEC socket on your Kaitaki Preamplifier and make sure the Mains switch is OFF. Carefully remove the lid by undoing the cap screws on the top and side. Locate the ‘piano’ switches at the back of the phono circuit board. The load can now be adjusted following the labels in front of the load switches. Be sure to adjust both the left channel (lower) and right channel (upper) switch to the same value. Now re-assemble your Kaitaki Preamplifier.
MAINS/LINE FUSE
A Mains/Line fuse is fitted within the IEC socket on the rear of the preamplifier. A small drawer at the bottom of this socket may be removed (after the IEC plug is removed) by levering it out with a flat blade screwdriver. The fuse fitted should be rated as specified on the rear panel.

⚠️ IMPORTANT: DO NOT FIT A FUSE WITH A HIGHER RATING.

In the unusual event that this fuse should blow, you must first establish the cause of this failure (such as power surges, damaged mains cable, etc) before replacing the fuse with one of the same rating and type. Should the preamplifier continue to suffer mains fuse failure, contact your Plinius dealer.
Troubleshooting

NO SOUND FROM THE UNIT
If the unit is not reproducing audio take the following steps:

• Check the source is correctly connected to an appropriate input on the unit.
  Refer to the Installation & Operation section on page 13.
• Check the source is playing, and not paused or muted. If it has adjustable
  volume, check this is at the usual output level.
• Check the unit is set to select the correct source input. Adjust the source
  selector for the correct source component.
• Check the volume. Turn the unit volume up to a point just below the normal
  listening level. DO NOT turn the volume up to maximum in case the sound begins
  to come through the speakers.
• Check the unit is not in Mute. If the Display LED is dim, this indicates the unit is in
  Mute mode. The Display LED should be full brightness for operational mode.
• Check the unit is not in Standby. If the Display LED is varying in brightness, this
  indicates the unit is in Standby mode. The Display LED should be full brightness
  for operational mode.

POWER FAILURE
The unit may have suffered mains fuse failure.

• Mains Fuse Failure: Check the mains fuse and replace if needed.

Refer to the Product Features section on page 16 for further information.

NOTE: If the unit immediately or repeatedly suffers mains fuse failure, there may be a
major problem and you should contact your Plinius dealer.
## Specifications

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<th>Details</th>
</tr>
</thead>
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<tr>
<td><strong>FREQUENCY RESPONSE</strong></td>
<td>20Hz to 20kHz +/-0.2dB</td>
</tr>
<tr>
<td><strong>DISTORTION</strong></td>
<td>&lt;0.05% THD at rated input level</td>
</tr>
<tr>
<td><strong>SIGNAL TO NOISE RATIO</strong></td>
<td>-80dB at rated input level, A weighted</td>
</tr>
<tr>
<td><strong>INPUT SENSITIVITY FOR RATED OUTPUT</strong></td>
<td>125mV RMS Unbalanced inputs, 62mV RMS Balanced inputs</td>
</tr>
<tr>
<td><strong>INPUT IMPEDENCE</strong></td>
<td>50k ohms</td>
</tr>
<tr>
<td><strong>RATED PRE OUT LEVEL</strong></td>
<td>500mV RMS into 10k ohms or higher</td>
</tr>
<tr>
<td><strong>PRE OUT</strong></td>
<td>Minimum Recommended Load: 47k ohms</td>
</tr>
<tr>
<td><strong>LINE OUT LEVEL</strong></td>
<td>190mV at 200 ohms</td>
</tr>
<tr>
<td><strong>OUTPUT SOURCE IMPEDENCE</strong></td>
<td>Typically 100 ohms</td>
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<tr>
<td><strong>GAIN</strong></td>
<td>Line Amplifier: 12dB</td>
</tr>
<tr>
<td><strong>POWER/CURRENT CONSUMPTION</strong></td>
<td>40W / 0.10A (23W)</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>Height: 105mm 4’</td>
</tr>
<tr>
<td></td>
<td>Width: 450mm 17.75’</td>
</tr>
<tr>
<td></td>
<td>Depth: 400mm 15.75’</td>
</tr>
<tr>
<td></td>
<td>Weight: 9kg 20lbs</td>
</tr>
</tbody>
</table>

**PHONO INPUT:**

- **INPUT CAPACITANCE**: 100pF
- **GAIN**: 60dB, 66dB
- **LOAD**: 47k ohms, 470 ohms, 100 ohms, 47 ohms, 22 ohms
- **FREQUENCY RESPONSE**: 20Hz to 20kHz +/-0.2dB, within RIAA specification
- **SIGNAL TO NOISE RATIO**: -80dB wrt 5mV input, A weighted
- **DISTORTION**: <0.01% THD at all levels below clipping
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