

ΨΙΛΟΝ

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**PST 100**

YPSILON  
PRE  
AMPLIFIER  
MKII



**OWNERS MANUAL**

V2 01/01/2010

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## **INTRODUCTION**

Thank you for trusting YPSILON ELECTRONICS™. We assure you that you have made an excellent purchase. Your pre-amplifier is made only by the best and most reliable materials and we guarantee it will offer you many hours of music enjoyment.

Every pre-amplifier, before delivery, is thoroughly checked and measured for ensuring trouble free operation.

Our goal is to offer you devices of the highest standard of build quality and sonic performance.

## **PLACEMENT OF THE PST 100 PRE-AMPLIFIER**

**PST-100** pre-amplifier is designed to reduce interference from external magnetic and radio fields. Although placement is not critical, any magnetic fields should be avoided.

A solid and sturdy surface should be used as this pre-amplifier has a substantial weight.

As it will generate quite some heat, in order to achieve the best operating conditions, it is strongly suggested that there is good air circulation around the pre-amplifier and especially on its sides where its coolers are positioned.

There must be line of sight from the listening position for the remote control to work correctly.

## **TAKING CARE OF YOUR PST-100**

When wanting to clean the **PST-100** pre-amplifier always disconnect from the mains electricity and use a clean, slightly damp cloth with no possibility of color running.



**NEVER CLEAN PRE-AMPLIFIER CASING WHEN DEVICE IS  
CONNECTED TO MAINS ELECTRICITY.**

**ALWAYS DISCONNECT FROM MAINS ELECTRICITY PRIOR TO ANY  
SUCH ACT.**

## **CONNECTING CABLES**

For best results it is recommended to keep the input and output cables as short as possible. Do not use longer cables than needed. For more information contact your dealer or the factory.

## CONNECTING TO THE MAINS OUTLET

Your pre-amplifier has a description of the appropriate operation voltage on its back panel. Please make sure not to overlook the specifications. In case you need to operate it in a region with no complying voltage, contact your dealer or the factory. The power cable that you will use must be at least 3 x 1.5 square mm and grounded to the mains outlet.

The on/off switch for the **PST-100** is located on the back panel.

This device is **Class I** and the following safety rules apply:



According to guide 73/23/EEC for low voltage and guide 89/336/EEC (EMC) this device is marked with **CE**.

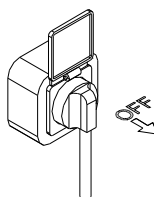
**CAUTION**  
**DO NOT ATTEMPT TO**  
**OPEN THIS DEVICE.**  
**IN CASE OF**  
**MALFUNCTION CONTACT**  
**YOUR DEALER OR THE**  
**MANUFACTURER**



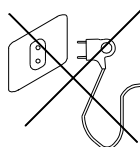
**ONLY USE THE VOLTAGE**  
**PRINTED ON REAR PANEL**

**WARNING:** Before any maintenance or placement /connection takes place  
disconnect the device from electrical outlets.

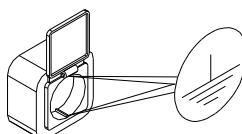
**DISCONNECT THE DEVICE**



**WARNING:** Never use electrical outlets without earth



Use only electrical outlets that are earthed.



## IN CASE OF FAULT



In case of fault never open device. Return to authorized technical agent or manufacturer.

In case of part changing only the exact same parts should ever be used and replaced by authorized staff or manufacturer. Otherwise this device is out of Guarantee and will not be compliant with international rules and regulations

## CONNECTING INPUT CABLES

Your **PST-100** has six inputs on the back panel. With input 4 being input/rec for both input signal and recording output signal. In input 6 an XLR connector is used which is unbalanced. Only connect signal from source.



## CONNECTING OUTPUT CABLES

There are two types of output connectors on the back panel of the **PST-100**. Always use only one output type at any one time, either the XLR connector or the RCA connector.

It must be pointed out that the XLR connector is unbalanced and pins 1&3 are grounded

Only connect to power amplifier.



**RCA  
OUTPUT**      **XLR  
OUTPUT**



## POWER SUPPLY

The **PST-100** uses a power supply with a big choke and a valve rectifier. The valve used is a **EZ 81/ 6CA4**. This valve is also specified for 10.000 hours operation. When the valve lifetime passes contact your dealer or the factory.

## DESCRIPTION

The volume is controlled by an output transformer. The transformer has 31 steps of which the first five steps are 3db, the following four are 2 db and the next eighteen steps are 1,5 db and the final four steps are of one db attenuation.

The active gain stage uses one **C3m** valve per channel transformer coupled. The lifetime of the valves is specified at 10.000 hours. These valves have been matched to +/- 0,2 db.

When the valve lifetime passes contact your dealer or the factory for a new matched set.

## OPERATION

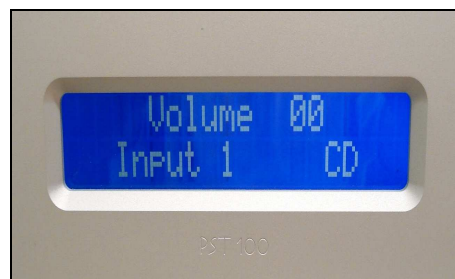
After completing all the connections on the **PST-100** your pre-amplifier is ready to be turned on.

When turned on, the front display screen will illuminate and the following message can be read "**YPSILON PST-100 mk2**" this message will last for 30 seconds and then it will turn to "**VOLUME 00 INPUT 1 CD**".

Choose the appropriate input and suitable volume level by using the remote control.



STARTUP DISPLAY



DISPLAY AFTER 30 SEC

## REMOTE CONTROL

The **PST-100** remote control has 6 buttons. Starting from the top the first button is marked “S” and when on “VOL 00” position it is a mode selector for choosing either the ACTIVE or the PASSIVE stage.

Further down is the button marked ”D” which is used to turn the display on/off. Further down is the Input selector marked “IN” which is used to select the desired input.

When the pre-amp is turned on the display will illuminate the message “**VOLUME 00 INPUT 1 CD**”, accordingly choose the desirable input by using the “IN” button. Further down is the volume selector marked “VOL” to choose appropriate volume level

The remote control uses 2 AA batteries. The battery compartment is accessed by removing the back plate using a 2 mm hex key.



## PROGRAM SELECTION

By using the button “S” on the remote control, when in Vol “00”, either the **ACTIVE** or the **PASSIVE** stage of the pre-amplifier can be selected.

When choosing the **ACTIVE** stage the display will illuminate the message “ACTV” and when choosing the **PASSIVE** stage the message “PASS” will illuminate.

When in a setting other than Vol “00” button “S” is used as a mute button.

When in the **ACTIVE** mode from steps 1 to 6 the pre-amplifier uses the **PASSIVE** stage of the circuit. From step 7 upwards all the way to step 37 the **ACTIVE** mode is engaged.

When in the **PASSIVE** mode from steps 1 to 31 the pre-amplifier uses the **PASSIVE** stage of the circuit. In step 31 the overall gain is **0db**. To efficiently drive the transformer its best to use a source with no more than 3kohm output impedance. The “**0db**” setting in the **ACTIVE** mode is on step **25**.

The **PASSIVE** mode reaches step **31**.



DISPLAY IN ACTIVE MODE



DISPLAY IN PASSIVE MODE

## SPECIFICATIONS

<b>BANDWIDTH</b>	<b>9Hz-100KHz -3db</b>
<b>OUTPUT IMPEDANCE</b>	<b>150 ohm</b>
<b>INPUT IMPEDANCE</b>	<b>50 Kohm</b>
<b>GAIN(in active mode)</b>	<b>x 7(16,9db)</b>
<b>POWER CONSUMPTION</b>	<b>100 VA maximum</b>
<b>DIMENSIONS</b>	<b>400x180x410 (WxHxD)mm</b>
<b>WEIGHT</b>	<b>25 Kgr</b>



Specifications may change without notice