

Dionysos

Preamplifier

by Thrax Audio

Operating Manual

Manual issued 05/07/2018

CAUTION

THE UNIT CONTAINS NO USER SERVICEABLE PARTS. DO NOT REMOVE THE COVERS. LETHAL VOLTAGES ARE PRESENT WITHIN THE CHASSIS.

NEVER OPERATE THE PREAMPLIFIER WITH THE CHASSIS COVERS REMOVED.
DO NOT OPERATE THE UNIT IF WET OR NEAR WATER.

THE PREAMPLIFIER IS FAIRLY HEAVY. BE SURE TO USE PROPER LIFTING TECHNIQUES TO AVOID BACK STRAIN AND INJURY. BE CERTAIN TO INSTALL IT IN A SECURE LOCATION FROM WHICH IT CAN NOT FALL OR TIP OVER.

TIME SPENT FAMILIARIZING YOURSELF WITH THIS MANUAL WILL BE WELL REWARDED.

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IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS: All the safety and operating instructions of your Thrax Audio equipment should be read before power is applied to the equipment.

RETAIN OWNER'S MANUAL: These safety and operating instructions should be retained for future reference.

HEED WARNING: All warnings on the unit and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS: All operating and use instructions should be followed.

CLEANING: Unplug the unit from the wall outlet and leave for at least 30 min. - make sure the unit is not hot before you start cleaning. Use dry or damp soft cloth to clean the surfaces. Do not use sprays, abrasive or corrosive cleaning products.

VENTILATION: Do not block any ventilation openings. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers). The unit should not be installed in a built-in location such as a bookcase or rack unless proper ventilation is provided.

GROUNDING: Do not defeat the safety purpose of the grounding-type plug. A grounding-type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

POWER CORD PROTECTION: Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.

LIGHTNING: Unplug this apparatus during lightning storms or when unused for long periods of time.

SERVICING: Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled inside the appliance or it has been exposed to moisture, the appliance does not operate normally, or has been dropped.

DO NOT OPEN THE CABINET: There are no user serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your warranty.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

INTRODUCTION

The Dionysos preamplifier is the world's finest audio preamplifier and an absolutely unique component. Its unusual topology, premium parts, and flexibility make it a pleasure to hear and operate.

Dionysos has a single gain stage executed with zero feedback using a triode type vacuum tube. It is transformer coupled eliminating ground loops and isolating the attenuator and amplification stage from external interference (other components).

Features

6 inputs – 4 unbalanced on RCA (independent switching ground) and 2 balanced on XLR, 4 outputs – 2 unbalanced and 2 balanced (allowing bi - amping), 32-stepped volume control, Phase switch normal/inverted, Tape out (switchable), Programmable Home Theatre (HT) bypass with preset volume on each input, Low impedance floating outputs (allowing long cables).

Inside you get

Power supply with a C-core gapped transformer with symmetrical field cancelling windings.

Tube rectified choke input for the cleanest power, followed by military paper in oil reservoir capacitors.

Each channel has a constant current fed shunt regulator with extra low noise tube reference. The amplification stage is a single indirectly heated triode with grounded cathode, loaded with a transformer.

Microprocessor controlled relays take care of attenuation, phase and input selection through a multi tap transformer for volume control.

The case is machined from plates of different thickness aircraft grade aluminum.

SPECIFICATIONS

- Inputs
 - 4 pair unbalanced RCA connectors
 - 2 pair balanced XLR connectors
- Output
 - 2 pair unbalanced RCA connectors
 - 2 pair balanced XLR connectors
 - 1 pair unbalanced RCA connectors – tape out
- Attenuation steps 32
- Volume Control Range
 - Minimum gain -46dB
 - Maximum gain +18db
- Power supply 115 or 230 V
- Power consumption 45W
- Dimensions 432W x 400D x 120H mm
- Weight 15Kg
- Finish Black or Silver anodized aluminum
- Tube compliment :
 - 1 x 6H6П (6N6P) amplification
 - 1 x 6Ц4П (6C6P) rectifier

UNPACKING AND INSTALLATION

This section describes the unpacking and installation procedures for your new component.

Unpacking

All Thrax Audio shipping boxes have been specially designed to protect their contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection of the shipping container. Carefully remove your new component from its packing and examine it closely for signs of shipping damage. We strongly recommend saving all original packing to protect your component from damage should you wish to store it or ship it at a later date.

Installation

- BE CERTAIN TO INSTALL THE UNIT IN A SECURE LOCATION FROM WHICH IT CANNOT FALL OR TIP OVER.

- Provide adequate ventilation - the chassis will become warm in normal use. Do not operate on carpet or any other surface that might block air flow.

- Do not allow the chassis to touch any metal parts, such as the frame of an equipment rack. This might create a parallel ground path that could degrade the sound of your system.

- Connect the input and output cables. Input connection is via single ended RCA jacks or XLR jacks (which can be from balanced or unbalanced sources). Output can be on RCA or XLR jacks, and can be set for balanced or unbalanced loads, with or without ground connection at the preamplifier.

IMPORTANT: READ THE SECTIONS "INPUTS" & "OUTPUTS".

- The unit should be operated only with the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your unit dealer or local power company.

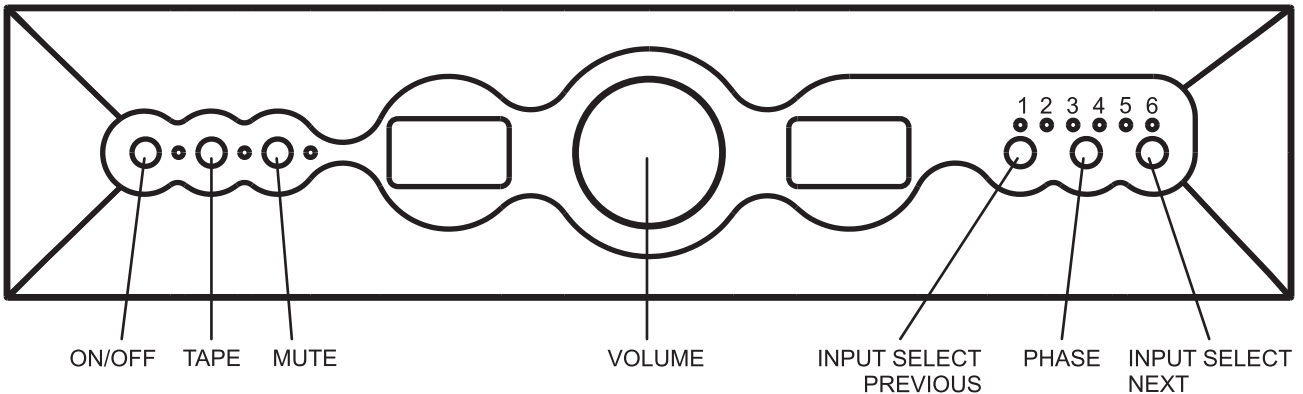
Connect the power supply to the power source indicated on the rear panel. Avoid power conditioners that float the ground pin. ALWAYS connect power cord to component before plugging it into an AC outlet, and make sure that unit's power switch is set to the „off" position before making the final connection. For best performance, try to route the power cord away from signal cables.

Pay close attention to power quality, and be aware that different power cords can alter the sound.

FRONT PANEL

Although most of the front panel controls (Volume, Power, Mute) are self-explanatory, Thrax Audio has outfitted this unit with several advanced features which bear further description:

Figure 1



“ON/OFF” Button

Switches the unit “ON” and “OFF”. See OPERATION SECTION for details.

“TAPE” Button

The “TAPE” button toggles between tape Output “ON” and “OFF”. See “TAPE OUTPUT” section for detailed information on how the tape output functions. When the LED next to the tape button is “ON” the tape output is switched on .

“MUTE” Button

This button toggles between mute and normal volume modes. When the LED next to the mute button is “ON” the system is muted. The mute button on the remote also toggles mute mode. Adjusting volume via the remote control or the volume knob resets the preamplifier to not muted mode.

“Left Channel Volume” Display

This numeric display shows the current volume level of the left channel.

In Mute Mode the display reads double dashes “--”.

- The lowest volume level (level 1) -46 db attenuation
- Unity Gain (level 24) 0 db attenuation
- The highest volume level (level 32) +18 db of gain

“Volume” Knob

Not much to say - it’s a volume knob. Turn it clockwise to increase the volume level and vice versa.

“Right Channel Volume” Display

This numeric led displays the current volume of the right channel.

In Mute Mode the display reads double dashes “--”.

- The lowest volume level (level 1) -46 db attenuation.
- Unity Gain (level 24) 0 db attenuation
- The highest volume level (level 32) +18 db of gain

Just to the right of the Right channel numeric display are the source select functions:

“Input Select Previous” Button

Each button press changes the selected source to the next lower source. If this button is pressed while source 1 is selected the source wraps around to source 6. The current source is indicated via a row of LED's just above the source buttons. LEDs may illuminate in 3 different colors – Green, Red and Amber. For details see “Home Theater (HT) Level Set” and “Phase” Button.

“Phase” Button

Each button press inverts the phase. Green source LED indicates 0° phase. Red source LED indicates 180° phase. Phase change works in Home Theatre mode too despite the source LED remaining amber while indicating HT mode.

Phase settings for each input are saved in non volatile memory so even after a power outage this programming will remain stored.

“Input Select Next” Button

Each button press changes the selected source to the next higher source. If this button is pressed while source 6 is selected the source wraps around to source 1. The current source is indicated via a row of LED's just above the source buttons.

Source LED's

Above the source/phase buttons is a row of 6 LED's. They indicate the selected source number. The leftmost LED is source 1 and the rightmost LED is source 6.

- Green = Normal phase
- Red = Inverted phase
- Amber = Home Theatre

BACK PANEL

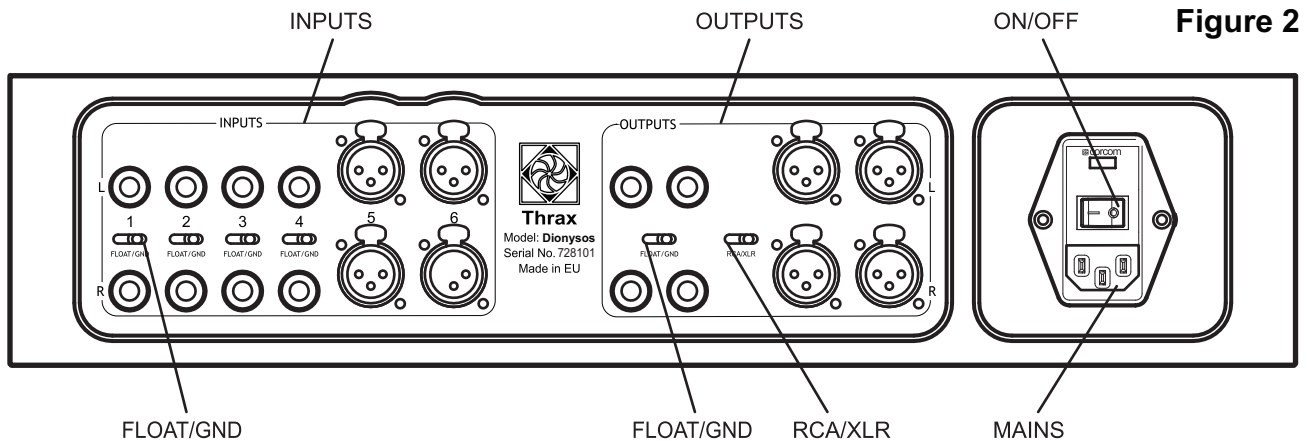


Figure 2

AC Fuse

There are fuses located in the IEC power connector on the back panel. For 220 volt operation a 1.0 ampere fuse is used. For 110 volt operation the fuse should be 2.0 amperes. If power does not come on, contact your authorized service representative.

Inputs

4 pairs of RCA jacks accommodate unbalanced line level sources. These are labeled "1", "2", "3" and "4". Each pair of RCA jack is GND/FLOAT – switchable (see Fig. 2).

For unbalanced sources, you will normally use the RCA "GND" setting. You may also choose RCA "FLOAT" if it is necessary to break a ground loop.

Inputs "5" and "6" can accept a balanced signal on XLR connectors.

Note: not all sources with XLR connectors are balanced. Many are unbalanced, with pin 2 or pin 3 tied to ground. The preamplifier accepts such sources.

Outputs

Two sets of RCA output jacks are provided as main outputs to power amplifiers. These sets are equal and are parallel connected internally.

In addition, two pairs of XLR jacks can be used to drive a power amplifier. Again, these sets are equal and are parallel connected internally.

The output selection is set by the "RCA/XLR" switch (see Fig. 2). Incorrect setting will result in either excessive buzz, or cause gross distortion of frequency response and output. Do not connect an unbalanced load with "pin 3 hot" to the XLR connectors.

For power amplifiers with RCA input jacks, you will normally use the RCA "GND" setting. You may also choose RCA "FLOAT" if it is necessary to break a ground loop.

REMOTE CONTROL

The remote control allows for wireless adjustment of Source Select, MUTE, PHASE, BALLANCE and VOLUME. The remote wand is powered by two “AAA” batteries. These should be of the alkaline type. You will need to install them in the wand before using the remote. Since batteries can leak, they should be removed from the wand if it is not going to be used for an extended period of time.

Remote Handset Functions

On/off button

This button switches the unit ON / OFF, when in stand-by mode.

Phase button

This button inverts the source phase

Mute (center of volume/balance grid):

This button toggles between mute and normal volume modes. When the mute LED is on the system is muted.

The mute will be cancelled when the volume is adjusted by the remote handset or by the volume knob on the front of the pre-amp.

Volume Up / Down

The volume up and down buttons step the volume up or down 1 step (about 2db) per button press or if held down they continuously adjust volume.

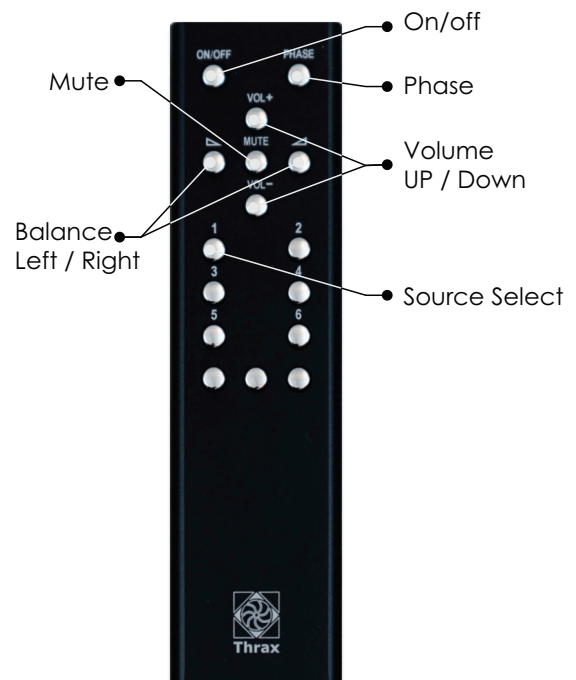
Balance Left / Right

The Balance Left / Right buttons step the volume levels to adjust the balance. This adjustment moves the sound to the right or left side by 1 volume step per button press (or if held down continuously balance will progressively move in the desired direction). A sliding / alternating balance method is implemented to move balance from left or right and vice versa. This way the overall volume level of the system is maintained. Also you can slide balance over to one side and then slide it back to the original volume by pressing the opposite balance button.

Source Select Buttons

The buttons labeled '1' through '6' on the bottom portion of the remote handset directly access each of the 6 source inputs on the preamplifier. These direct buttons (rather than next/prev) are used to make sure that macro functions programmed into a (user supplied) advanced programmable handset function repeatedly.

Figure 3



OPERATION

For initial power up press the main switch located on the back panel. Red LED on the front panel next to the ON/OFF button (see Fig. 1) indicates the unit is now in STANDBY mode.

To switch the preamplifier on press the "ON/OFF" button on the front panel or the ON/OFF button on the remote control. The red LED indicator blinks for approx 30 sec. whilst the unit warms up. When ready, the red light turns to green, mute is automatically engaged, and the last active source will be selected automatically.

The front panel display will be on while the unit is executing a command and then turns off after a short timeout period.

To turn the preamplifier off press the ON/OFF button. All the amplifier circuitry will be turned off for minimum power consumption leaving only a small STANDBY circuit running. However if you are not going to use the amplifier for a long period we recommend turning it off, using the power switch on the back panel, to save power.

As with all high fidelity products, the sound characteristic changes somewhat as it warms up. Best sound will be achieved after about 15 minutes of operation.

Any time that the Dionysos Preamplifier has not been used for a few weeks the sound may be different. This is also normal for high resolution audio equipment. Optimum sound should return after a few hours of operation, preferably with an audio signal.

Note that although your Thrax Audio System has been run for 72 hours at the factory, it will continue to "break in" for approximately 150 hours. Also be aware that many components display the need for a new break in period after being transported in unheated cargo aircraft.

Home Theater (HT) Level Set

The "Mute" button on the front panel (see Fig. 1) is used to program the currently selected input to 'lock' on any volume level. Press and hold this button for 5 sec. to set the current volume level as the default level for the selected input. Pressing the button again for 5 sec. 'unlocks' the volume setting. The status of each input is indicated with a separate LED on the front panel: For normal (unlocked) mode the LED is green or red in case the phase is inverted. For lock (HT) mode the LED will turn amber.

The HT mode of each input is saved in non volatile memory so even after a power outage this programming is stored inside the preamplifier.

Most often this is used to program an input connected to a home theater processor so that the input will jump to the pre-set level when that input is selected. Each time that source is selected the level will jump to the programmed level and you use the HT processors level control to set the volume - which also controls the other channels such as rear channels, etc...

OPERATION

If your HT processor already had its levels set for the same amplifiers directly connected to the HT Processor then using level 24 (unity gain) on the preamplifier will maintain proper surround channel vs main channel levels. If you are installing a new processor or making other changes in the system then you should set the preamplifier to an HT mode for that processor input BEFORE you set your surround levels. That way the system levels will be correct each time that input is selected.

The volume could simply be set manually to the desired level each time you use that input. The HT feature is just a handy way to make the level jump automatically to the same volume each time that input is selected.

NOTE: In some systems switching to an unused input will cause a small amount of hum at the speakers. This is because with no input connected the signal path is 'hanging in the breeze' picking up whatever noise is floating by. For unused inputs HT mode can be engaged and set to volume level 1 or mute. Then when selected the level is so low that there will be no hum.