



**Callisto  
LINE STAGE**

Aesthetix Audio Corporation  
5220 Gabbert Rd. Suite A ♦ Moorpark, CA. 93021  
Phone: (805) 529-9901

## **INTRODUCTION**

Thank you for purchasing the Callisto Line Stage. It has been engineered to deliver the highest attainable sound quality from your music sources. This is its sole purpose. Only the highest grade electronic components are used in the Callisto, including: non-inductive wirewound resistors in the signal path; polystyrene, polypropylene, and electrolytic power supply, bypass, and signal capacitors; low noise matched vacuum tubes; glass epoxy dual mono circuit boards; 20 gauge steel chassis; custom wound low flux power transformers.

## **PLACEMENT**

The Callisto main unit should be located away from possible sources of hum such as power cords, power transformers and the like. It should not be located on top of its own power supply or any other heat source such as a power amplifier. It must be kept well ventilated at all times. If it is positioned within an enclosed space then fans may be warranted. All air vents must remain unobstructed. The power supply is the main source of heat and should therefore be positioned for adequate ventilation and away from the main unit. Placement of the power supply immediately below the main unit reduces the lifespan of the main unit's tubes.

## **CONNECTIONS**

Note: Never connect power supply's power cord to a wall outlet while umbilicals between main unit and power supply are disconnected.
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A. Connect male end of one of the supplied umbilical cables to a power output jack on the power supply. This is a keyed connector so proper alignment is necessary for correct pin connection.

B. Connect female end of the same umbilical cable to a male receptacle on the main unit.

- C. Connect male end of the other supplied umbilical cable to the remaining power output jack on the power supply.
- D. Connect female end of the same umbilical cable to the remaining male receptacle on the main unit.
- E. Connect sources to Callisto using either RCA or XLR connectors.
- F. Connect Callisto to the power amplifier using either RCA or XLR connectors.
- G. Ensure that the power amplifier is turned off.
- H. Connect power cord of the power supply to an unswitched wall outlet or line conditioner.

## **OPERATION**

<p>*Ensure linestage/preamp and/or power amp are properly muted to prevent possible damage to speakers.</p>
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- A. Turn power on.
- B. Wait at least ten minutes for power supplies to fully stabilize before turning on power amplifier.
- C. Play music from a source.
- D. Slowly increase volume level until desired loudness is attained.
- F. Before turning Callisto off, ensure that the power amplifier is properly muted/turned off.
- G. Turn off Callisto.

Unity gain on current production units is 38. Due to slight variations in tube gain, in some units unity gain may be at 37 or 39.

## TECHNICAL DESCRIPTION

NOTE: The following is a detailed technical description of the circuitry employed in Callisto. It is intended for technically inclined readers for informational purposes only.

Callisto comprises two separate units, the Linestage stage itself and the power supply unit. The units are connected together via two detachable umbilical cords.

The main unit contains one main amplification section and an output buffer section. The first section is a medium gain, low noise, zero feedback (or 6dB feedback from single ended sources) differential amplifier composed of a 6922 and a 12AX7. Lastly, the signal is buffered and sent to the output jacks in balanced form. Each separate amplification section has its own power supply filtering network and regulated heater supply to isolate the individual sections and prevent them from interacting.

The Power Supply has two main sections, the heater power supplies and the primary plus and minus power supplies. The heart of the heater supply is its massive, low flux, 210 volt-amp power transformer which has no less than fourteen separate secondary windings that are individually regulated and supply both the power supply and main unit tubes. The primary high voltage supply is composed of a similarly massive 170 volt-amp transformer which feeds a common-mode choke input filtering network and then high current vacuum tube regulators (one EL34/6CA7, three 12AX7 tubes per regulator).

Each regulator is capable of supplying 600 volts at 100mA. There are two such regulators in the power supply.

90 DAY LIMITED WARRANTY TERMS AND CONDITIONS  
(3 Year optional extended service contract)

1. Aesthetix warrants the product designated herein to be free of manufacturing defects in material and workmanship, subject to the conditions herein set forth, for a period of 90 days from the date of purchase by the original purchaser. If the purchaser registers the unit with Aesthetix by mailing in the warranty card, together with a copy of the bill of sale, within 14 days of the date of purchase, said purchaser will be registered for an extended service contract. The extended service contract extends the 90 days to a period of 3 years from the date of purchase by the original purchaser or no later than 4 years from the date of shipment to the authorized Aesthetix dealer, whichever comes first. The warranty period for factory tubes does not get extended and therefore remains at 90 days.

2. **CONDITIONS**

This warranty is subject to the following conditions and limitations. The warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being repaired or tampered with or modified by anyone other than Aesthetix. The product must be packed and returned to Aesthetix by the customer at his or her sole expense. A returned product must be accompanied by a written description of the defect and a photocopy of the original purchase receipt. This receipt must clearly list model and serial number, the date of purchase, the name and address of the purchaser and authorized dealer and the purchase price. Aesthetix reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

3. **REMEDY**

In the event the above product fails to meet the warranty, and the above conditions have been met, the purchaser's sole remedy under the limited warranty shall be to return the product to Aesthetix where the defect will be rectified without charge for parts or labor.

4. **LIMITED TO ORIGINAL PURCHASER**

This warranty is for the sole benefit of the original purchaser of the covered product and shall not be transferred to a subsequent purchaser of the product.

5. **DURATION OF WARRANTY**

This warranty expires 90 days after the date of original purchase. If Aesthetix receives the warranty registration card, this period is extended to the third anniversary of the date of purchase or no later than the fourth anniversary of the shipment to the authorized Aesthetix dealer, whichever comes first. The warranty period for factory tubes does not get extended and therefore remains at 90 days.

6. **MISCELLANEOUS**

ANY IMPLIED WARRANTIES RELATING TO THE ABOVE PRODUCT SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. THE WARRANTY DOES NOT EXTEND TO ANY INCIDENTAL OR CONSEQUENTIAL COSTS OR DAMAGES TO THE PURCHASER. Some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

7. **WARRANTY OUTSIDE THE USA**

Aesthetix has formal distribution in many of the countries of the free world, in each country the Aesthetix importer has contractually accepted the responsibility for product warranty. Warranty should normally be obtained from the importing dealer or distributor from whom you obtain your product.