



Thank you for purchasing the EUSONIA Audio Pre-1 Tube Microphone Preamplifier. This unit was meticulously crafted and designed to give the user a near-infinite variety of tone, color, and character. Through an abundance of gain staging opportunities and impedance switching, you can find a perfect and unique tone for every recording scenario. Experiment. Twist, turn, push, tweak, and enjoy your experience.

### Quick Start Guide

- Please allow 90 seconds for the tubes to warm up before use.
- The XLR front and rear inputs are parallel so do not plug 2 mics into the unit simultaneously.
- It is always recommended to drop the input control to “off” when engaging phantom power or changing impedance.

### Feature Set

- All tube super class A signal path
- Optimal gain structure to accommodate any microphone or instrument source
- 1/4" Balanced/unbalanced FX Loop with 2 tubes in the signal path
- +10db Boost and -20dB Pad on input section
- Drive knob controls harmonic content
- Phase switch
- 110v - 220v operation
- 12 step input gain control
- Dual Mic/Line input on front panel (+4dB, -10dB, Hi-Z)
- 6 tubes: (3) 12au7, (2) 6922, (1) 12bh7
- Input mic impedance selector (50, 88, 150, 333, 500 Ohms)
- Mult output for parallel processing
- HPF selector (30, 60, 90, 120, 150Hz)
- V/U Meter settings for input/output (0dB, -10dB)
- +48v (red LED), 250v (amber LED), 12v (yellow LED)
- Dual transformer design (input and output)

## Functionality

### FRONT PANEL:

#### INPUT Switch

Toggles between Mic and Line inputs.

When the Input switch is set to Mic, the front and rear panel XLR jacks will be active. When the switch is set to Line, you can plug an instrument or line level signal into the ¼" combo jack.

NOTE: *You can only have either the front or rear jack plugged in at one time.*

#### MIC/INST IN Jack

Combo jack which accepts XLR or ¼" TS (unbalanced) or TRS (balanced) signals.

#### +48V Switch

When the switch is set to On it delivers +48v phantom power to a microphone which requires phantom power. When the switch is set to Off, no phantom power is delivered..

NOTE: *Please be careful to not send phantom power to microphones which do not need phantom power (such as most ribbon mics)*

#### MIC IMP Switch

5-position microphone impedance selector switch. You can set impedance to a setting which is closest to the impedance (Ohms) of your microphone. But also feel free to experiment with different settings that will change the tone of the microphone.

#### PAD Switch

Toggles between a -20dB pad and no pad.

The pad is placed in the input section before the input transformer.

#### INPUT GAIN Knob

Sets the input level of the pre-amp. Switched steps in 5dB increments.

Note: *set to OFF when changing microphones or changing impedance.*

#### PHASE Switch

Toggles between normal phase and 180 degree inverted phase.

#### HPF Knob

5-position high pass filter at 5 different frequencies: 30k, 60k, 90k, 120k, 150k

#### BOOST Switch

Toggles between a 10dB boost and no boost.

The boost is placed in the input section after the input transformer.

**DRIVE Knob**

Continuously variable drive control associated with one of the output tubes which works in conjunction with the output gain. The Drive knob is one of the most unique features of the PRE-1. Through loading a tube, it saturates the signal creating pleasing harmonics and character. It gives depth and density to the signal. Experiment with turning the Drive knob up while bringing the Output knob down. Alternatively, if you are looking for the cleanest possible signal, put the Drive knob at Low, the Output at max and set the input level at desired amount.

**LOOP Switch**

Toggles between the Loop circuit being In and Out. When the Loop is In, the signal is routed to the rear panel ¼" SEND jack, which can carry a balanced (TRS) or unbalanced (TS) signal. The Loop is in the middle of the PRE-1's signal path and passes through a tube on the way out and on the way back in. You can use Loop Out jack as a mult of the main signal for parallel processing. However, the primary purpose of the Loop is to leave the PRE-1, go into a compressor and/or eq, and come back into the RETURN jack of PRE-1 before the output stage. It is an insert, designed to function like a console where compression, eq, gates and other processing occur after the pre-amp input stage, but before the fader (Output stage).

*NOTE - When the loop switch is set to ON and no cables are connected to the SEND and RETURN jacks, the signal passed through the loop circuit with 2 extra tubes in the path. This is wonderful if you are looking for more harmonic saturation.*

**METER Switches**

Switch 1 toggles between the meter measuring the Input or Output signal.

Switch 2 toggles between a -10dB attenuation (for hot signals) and no attenuation (0dB) to the meter.

**OUTPUT LEVEL Knob**

Continuously variable final output level with 20dB of gain.

**LED Indicator Lights**

+48v (red LED) - this light indicates that the phantom power is functioning

250v (amber LED) - this light indicates that the plate voltage for the tubes is functioning

12v (yellow LED) - this light indicates that the meter is functioning

**REAR PANEL:****LOOP SEND**

Balanced (TRS) or Unbalanced (TS) send of the signal to external audio device.

**LOOP RETURN**

Balanced (TRS) or Unbalanced (TS) return of the signal from external audio device.

## OUTPUT

XLR jack, balanced line level output signal.

## MIC

XLR jack, for microphone.

NOTE: *do not plug in microphones to front and back jacks at the same time*

## AC INPUT

Standard IEC power input. Automatically switches voltages between 110V (USA) and 220V (Europe). A voltage converter is not required.

## SPECS

- Freq Response 20Hz to 20kHz
- THD 0.05% @ 1kHz
- Total Gain 80db
- Output Impedance 600 Ohms
- DI Impedance 1M
- 6 Tubes (3- 12AU7, 2 - 6922, 1 - 12BH7)
- +48v Phantom Power

## WARRANTEE

This product is warranted by Eusonia Audio, LLC to be free from defects in materials and workmanship under normal use for a period of one (1) year from the date of original purchase. During the warranty period, Eusonia Audio, LLC will, at its sole discretion, repair or replace the defective product. This warranty does not cover damage due to misuse, accident, unauthorized modifications, or improper maintenance.

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