

**ELECTRODYNE  
AUDIO™**

# 2501 PREAMP™



**Owner's Manual**

## **WARRANTY:**

### **One Year Internal Parts And Labor Warranty.**

Your Warranty begins on the date of purchase. To activate your Warranty, please fill out and mail the Warranty Card to:

Pete's Place Audio  
P.O. Box 4255  
West Hills, CA 91304  
U.S.A.

Also, your name may be placed on our mailing list for future updates and new product announcements (unless otherwise requested).

Pete's Place Audio reserves the right to make improvements and/or changes to this product at any time.

### **Your Warranty Is Void If:**

1. This product has been opened by unauthorized personnel.
2. The product serial numbers have been removed or tampered.
3. The product has been damaged by misuse or abuse.
4. Modified and/or repaired by unauthorized personnel.

### **There Are No User Serviceable Parts Inside.**

Pete's Place Audio warrants that our hardware conforms substantially to the specifications contained in this manual. When used in accordance these specifications, Pete's Place Audio warrants for a period of one year from the date of purchase to the original purchaser if purchased from Pete's Place or its authorized dealers. In the case of a valid warranty claim, your sole and exclusive remedy is Pete's Place. Pete's Place Audio entire liability under any theory of liability will be, at its option, to repair or replace the product without charge or, if not possible, to refund the purchase price to you. This warranty is not transferable and applies only to the original purchaser of this product.

For warranty service contact Pete's Place Audio at 818-716-4153 to obtain a Return Merchandise Authorization (RMA) number. After obtaining the RMA number, ship defective product to Pete's Place Audio, P.O. Box 4255, West Hills, CA 91304. Write the RMA number on the outside of the shipping box. Be sure to include your name, address and phone number with a copy of original sales invoice and detailed description of the problem. Pete's Place Audio will not accept responsibility for loss or damage in shipping.

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Published by: Pete's Place Audio  
P.O. Box 4255  
West Hills, CA 91304  
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Edition 1.0 2005  
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## Pete's Place Audio Introduces...

The Electrodyne Audio 2501 Dual Mono Microphone Pre Amplifier was designed for both Professionals and Home Recording Artists.

After the serious demand for the 501 Electrodynes' 500 Series Preamp, we found that not all people in the recording industry want 500 Series and many are much more attracted to 19" Rack Mounted gear.

Most companies will introduce 19" rack mount products first, and if they have any success, only then they will dive into the 500 Series Format. We have done just the opposite and taken the 500 Series Electrodyne products to Dual Mono 19' rack mounted versions with all the same tone and features,. Instead of sharing the limited resources of many 500 "lunchbox" power supplies, we paired them with their own powerful dedicated supply modules ensuring top performance under any conditions. So, the qualities you fell in love with using the Electrodyne 501 Preamp (and 511 EQ) are now even more accessible.

The 2501 is a 100% original Electrodyne design, not a clone or a copy. Electrodyne products are still made here in the USA by Electrodyne Audio LLC, handcrafted the same as they were in the 1960's and 1970's with the same proud workmanship and design that made them collectable classics then, and today over 60 years later.

All current designs are built following actual original Electrodyne proprietary factory lab and engineering notes. We have even gone to the trouble to have the designs reviewed and approved by original Electrodyne engineering staff for accuracy and adherence to company design criteria.

So, we invite you to experience the rich tone that the 2501 delivers to any recording and the limitless possibilities that will open creative doors to any project you work on.

- All discrete transistor, transformer input/output design
- Custom wound Input Transformers
- Custom wound Output transformers
- 2db per step Gain Control for easy recall
- Continuously variable Output Level control
- Phase Reverse Switch
- 48v Phantom Switch
- Active Class-A Fet DI
- Dual Impedance Selector Switch
- Original design knobs and control levers (original manufacturer)
- Rugged powder coated steel chassis
- Heavy-gauge Anodized Aluminum Face Plate
- All XLR I/O
- On/Off Power Switch
- Red LED Power Indicator

In line with our company policy of continuous development, the above features are subject to change without notice.

## TECHNICAL DATA

### Inputs:

- Microphone: Custom wound original Electrodyne design multi-Impedance input transformer
- DI: Active Fet impedance converter directly feeding the microphone input transformer.
- Output: Custom wound original Electrodyne design large format multifilar transformers
- Microphone transformer impedance: switchable 50 and 200 ohms
- Fet DI impedance: Approximately 7 megohms
- Output impedance: 600 ohms
- Preamp section gain control: 12 positions, 2db per step
- Output section gain control: continuously variable.
- Maximum gain: 68db
- Distortion: 0.007%typical.
- Maximum output: +30dbu at less than 0.8%thd, +29.5dbu at 0.06%thd. (measured with +/-16v power rails)
- Frequency response: +/- 0.25db, <10hz to >70khz typical (no filters engaged).
- Noise: -85db typ.l

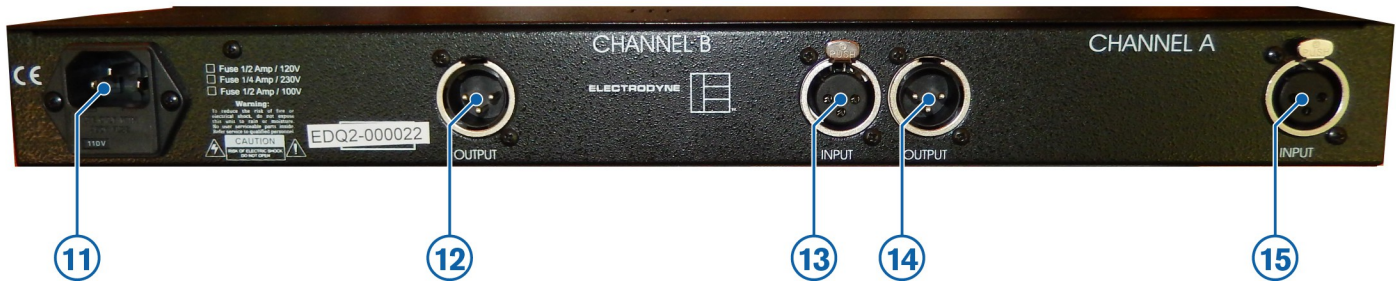
In line with our company policy of continuous development, the above specifications are subject to change without notice.

## Front Panel



- 1 Signal Present Indicator (green led)**
- 2 Input Gain Control (stepped)**
- 3 Output Level Control (continuous)**
- 4 DI Switch (press to activate DI input)**
- 5 1/4" Jack for DI input**
- 6 Impedance Switch (switch out=200ohms impedance, switch in=50ohms impedance)**
- 7 -20dB PAD for Mic/DI Input (switch out=pad out, switch in=pad engaged)**
- 8 Phase Reverse Switch (switch out=normal, switch in=out of phase)**
- 9 48v Phantom Power with red led indicator (press to activate)**
- 10 Power Switch with red led Indicator**

### Rear Panel



- 11 Power Supply Connector**
- 12 Balanced XLR Output, Channel B**
- 13 Balanced XLR Input, Channel B**
- 14 Balanced XLR Output, Channel A**
- 15 Balanced XLR Input, Channel A**

Dual gain stages:

Two stages of gain and a huge original Electrodyne design output transformer allow you to change the character of each stage and ultimately your tone. Although the 2501 is a finely crafted studio preamplifier the multi-stage design allows you to control the input and output gains separately, simultaneously affecting the final drive level to the output transformer, to get tonal effects not possible with single stage preamps. We carefully selected the original Electrodyne design output transformer to respond very flat when presented with normal preamp levels, but provide warmth and desirable harmonics in a controllable manner when driven hard.

“Z” switch: (Selectable Microphone Impedance)

The “Z” switch is a selectable impedance tap for the 2501 preamp microphone input transformer. Impedance is one of many critical factors for determining how microphones will sound when connected to a specific preamp. Originally, this Electrodyne preamp was designed for different impedances by changing the input wiring. We have taken advantage of that and placed it as a front panel “Z” switch.

Depending on each microphone components and internal design, changing the Z switch may change the way the 2501 preamp and microphones interact, and as a result gain and frequency response can change in wonderfully creative ways.

Imagine being able to press a button and get two or more different tones from one mic. From flat response to various combinations of gentle peaks or roll-offs at high and low frequencies, or both - you may be able to add extra sparkle, silkiness or control sibilance or harshness, add needed body or warmth or remove unwanted boom or woolyness, all without touching an equalizer. Experiment with the impedance switch settings with your favorite microphones to see what new tones are possible.

Gain change when switching preamp impedance is normal and will be different for each mic type. Some active, non-transformer output microphones may not change character or level with preamp impedance change and this is also normal.





**PETE'S PLACE AUDIO**

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