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› Lindell Audio PEX-500 Passive EQ User Manual

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Model: PEX-500

INTRODUCTION

The Lindell Audio PEX-500 is a high-quality passive equalizer designed for the API 500 Series rack format. It is engineered to deliver the classic sonic characteristics of legendary passive EQs, providing open midrange, smooth high frequencies, and powerful low-end response. The PEX-500 features an all-discrete circuit design, including transformer-coupled balanced inputs and outputs, ensuring signal integrity and superior audio performance. Its intuitive controls allow for precise shaping of your audio signals.

KEY FEATURES

- **500 Series Rack Format:** Compatible with all standard API 500 Series compliant racks.
- **Passive Parametric Equalizer:** Offers classic Pultec-style equalization with stepped frequency controls.
- **All Discrete Design:** Based on the legendary 990 amplifier for authentic vintage EQ characteristics.
- **Transformer-Coupled I/O:** Ensures balanced signal paths and robust performance.
- **True Bypass:** Maintains signal purity when the EQ is not engaged.

PRODUCT OVERVIEW



Figure 1: Front panel of the Lindell Audio PEX-500 Passive EQ.

The image displays the front panel of the Lindell Audio PEX-500 Passive EQ. Visible controls include:

"PEX-500" and "Passive Eq" labeling at the top.

"LINDELL AUDIO" logo below the model name.

HIGH section: Features a toggle switch for 10kHz, 15kHz, 20kHz frequency selection, a "BOOST" knob (0-5), and an "ATTEN" knob (0-10) with a toggle switch for 6kHz or 16kHz attenuation frequency.

HIGH PWR indicator: A green LED light.

LOW section: Includes a "BOOST" knob (0-5) and an "ATTEN" knob (0-10) with a toggle switch for 30Hz or 100Hz attenuation frequency.

EQ indicator: Another green LED light.

"L" logo at the bottom.

The panel has a metallic, possibly gold or bronze, finish with black knobs and white text markings.

SETUP AND INSTALLATION

1. **Power Off:** Ensure your 500 Series rack is powered off before installation.
2. **Insert Module:** Carefully slide the PEX-500 module into an available slot in your API 500 Series compatible rack.

Ensure it is fully seated and the connectors align properly.

3. **Secure Module:** Fasten the module using the screws provided with your 500 Series rack, if applicable, to prevent accidental dislodgement.
4. **Connect Audio:** Connect your audio source to the input of the 500 Series rack slot and the output of the rack slot to your desired destination (e.g., mixer, audio interface).
5. **Power On:** Once all connections are secure, power on your 500 Series rack. The PEX-500's power indicator LED should illuminate.

For detailed information on your specific 500 Series rack, please refer to its user manual.

OPERATING INSTRUCTIONS

Understanding the Controls

- **HIGH Frequency Section:**
 - **Frequency Selector Switch (20kHz, 15kHz, 10kHz):** Selects the center frequency for the high-frequency boost.
 - **HIGH BOOST Knob:** Controls the amount of high-frequency boost at the selected frequency.
 - **HIGH ATTEN Knob:** Controls the amount of high-frequency attenuation.
 - **ATTEN Frequency Switch (16kHz, 6kHz):** Selects the frequency for high-frequency attenuation.
- **LOW Frequency Section:**
 - **LOW BOOST Knob:** Controls the amount of low-frequency boost.
 - **LOW ATTEN Knob:** Controls the amount of low-frequency attenuation.
 - **ATTEN Frequency Switch (100Hz, 30Hz):** Selects the frequency for low-frequency attenuation.
- **PWR LED:** Illuminates green when the module is receiving power.
- **EQ LED:** Illuminates green when the equalizer circuit is active (not in true bypass).

Basic Operation

The PEX-500 allows for simultaneous boosting and cutting of frequencies, a characteristic of passive EQ designs. Experiment with different combinations of boost and attenuation to achieve desired sonic results. The true bypass feature ensures that when the EQ is bypassed, your signal remains unaffected.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure adequate ventilation around the 500 Series rack to prevent overheating.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry environment, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power / PWR LED off	Module not fully seated; 500 Series rack not powered on; Faulty rack slot.	Ensure module is fully inserted. Check 500 Series rack power. Try a different slot in the rack.
No audio output	Incorrect cabling; EQ bypassed; Faulty module.	Check all audio cables. Ensure EQ is engaged (EQ LED on). Test with another module if possible.
Unexpected noise or distortion	Improper gain staging; Ground loop; Faulty cabling.	Adjust input/output levels. Check for ground loop issues in your system. Replace audio cables.

If problems persist, contact Lindell Audio support or your authorized dealer.

SPECIFICATIONS

- **Model:** PEX-500
- **Type:** Passive Parametric Equalizer
- **Format:** API 500 Series Module
- **Circuitry:** All Discrete, Transformer-Coupled I/O
- **Dimensions (Product):** 7.5 x 5.5 x 2 inches (approximate)
- **Weight (Item):** 1.56 pounds (approximate)
- **First Available:** May 30, 2013

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, and service, please refer to the official Lindell Audio website or contact your authorized Lindell Audio dealer. Keep your proof of purchase for warranty claims.

Lindell Audio Official Website: www.lindellaudio.com (Note: This is a placeholder URL as no official website was provided in the input. Users should refer to the actual manufacturer's website.)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question