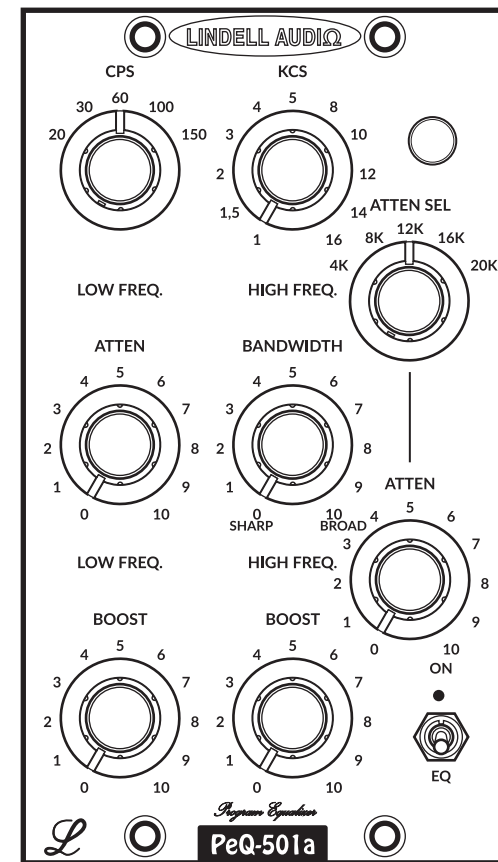


# PeQ-501a

500-Series Equalizer

## Specifications

Power Requirements	+/- 16V
Input Impedance	2.4 k $\Omega$ , op-amp balanced
Output Load Impedance	70 $\Omega$ transformer-balanced
Frequency Response	+/- 1dB 20 Hz to 20 kHz
Dimensions	Width: 76 mm (3") Height: 178 mm (5.25") Depth: 229 mm (9")
Weight	1.47 kg (3.25 lbs)



## Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. If the power cord becomes frayed, stop using immediately.
10. Use only attachments/accessories specified by the manufacturer.
11. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases, shall be placed on the apparatus.
15. Note that this apparatus is not completely disconnected from the AC mains service when the power switch is in the OFF position.
16. The mains plug or power inlet on the product is used as the disconnect device, so the disconnected device shall remain readily operable when reconnected.

17. Any changes or modifications not expressly approved in this manual could void your authority to operate this apparatus.



### Important!

Be sure to only use the power connection intended for your 500-series rack.

The triangular lightning flash icon is intended to alert the user to the presence of uninsulated, dangerous voltage within

the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The triangular exclamation point icon is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

The PeQ-501a complies with all applicable RoHS / WEEE European Union directives.

Do not attempt to service this unit yourself, as it will void your warranty. Please check your unit carefully upon receipt and return to place of purchase immediately if there are any problems with the product. After that, the standard Lindell Audio 1 YEAR warranty will apply to defects in materials and workmanship.

## International Service

For service or warranty assistance, please contact the Lindell Audio distributor in your country through the dealer from whom you purchased this product.

## Limited One-Year Warranty

Lindell Audio's PeQ-501a is warranted by Lindell Audio to be free from defects in materials and workmanship for the period of ONE (1) YEAR to the original purchaser. In the event of such defects, the product will be repaired without charge or, at our option, replaced with a new one if delivered to Lindell Audio prepaid, together with a copy of the sales slip or other proof of purchase date. The warranty excludes problems due to normal wear, abuse, shipping damage or failure to use the product in accordance with the specifications.

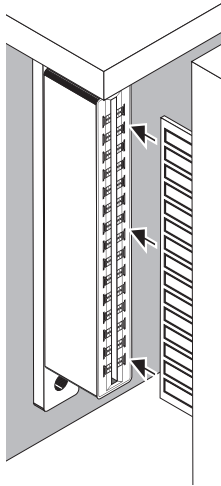
All parts and labor are covered under this Limited Warranty. However, if it is determined by Lindell Audio that the device was damaged or made defective through abuse, we reserve the right to charge the customer for the cost of the repair.

Lindell Audio shall not be liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation or commercial loss or any other damages, whether incidental, consequential or otherwise. This warranty gives you specific legal rights, and you may have other rights, which will vary from state to state.

This warranty is not transferable.

## Installation

1. Power off the 500-series rack that the PeQ-501a is to be installed in.
2. Make sure nothing surrounds the card edge connector on the back of the PeQ-501a.
3. Carefully slide the PeQ-501a into an empty slot in your 500-series rack.
4. Ensure that the PeQ-501a edge connector is installed securely into the connector on the 500-series rack.
5. Install screws on the PeQ-501a faceplate to secure the unit.



## PeQ-501a Features

- Extended high frequency range: 1K, 1.5K, 2K, 3K, 4K, 5K, 8K, 10K, 12K, 14K, 16K
- Extended low frequency range: 20Hz, 30Hz, 60Hz, 100Hz, 150Hz
- Transformer balanced output
- Designed around vintage 1731 op-amp
- Hand-wound inductor
- All switched rotary controls
- Gold-plated PCB internals
- Real hardware bypass

## The infamous low-end trick

Back in 1951, a classic EQ manual instructed users with this note: "Do not attempt to boost and attenuate simultaneously on the low frequencies." And of course, folks did exactly that to see what would happen.

Due to slight differences in the unit's the boost and attenuation curves, the result is not that the boost and attenuation cancel each other out... it just so happens that this approach can create an EQ curve that can be very flattering to kick drum sounds. Try it; this storied studio secret is now yours!

## INITIAL SETUP:

Using balanced XLR cables, connect the PeQ-501a's inputs and outputs from your 500-series chassis to your mixing bus or patch bay. Set the EQ button to the on position, and apply power.

## Basic Use

On the PeQ-501a, low-frequency options are presented on the left of the control panel; high-frequency options are on the right.

## Low-Frequency Controls (left)

1. **CPS:** (Cycles per second) Sets the operating frequency of the unit's low-frequency Boost and Atten controls.
2. **Atten:** Sets the amount of low shelf cut to be applied to the frequency set by the CPS switch.
3. **Boost:** Sets the amount of boost applied to the frequency chosen via the CPS control.

## High-Frequency Controls (right)

4. **KCS:** (Kilocycles per second) Sets the operating frequency of the unit's high-frequency Boost and Atten controls.
5. **Atten Sel:** Sets the operating frequency of the unit's high-frequency Atten control.
6. **Bandwidth:** Sets the width of frequencies affected by the high-frequency Boost control. Left for sharp, right for broad.
7. **Atten:** Sets the amount of attenuation applied to the frequency set by the Atten Sel control.
8. **Boost:** Sets the amount of boost applied to the frequency chosen via the KCS control.
9. **EQ:** Turns the unit on/off. Unit is more fun when set to "on."

Note: For proper performance, balanced TRS must be used for all inputs and outputs.

