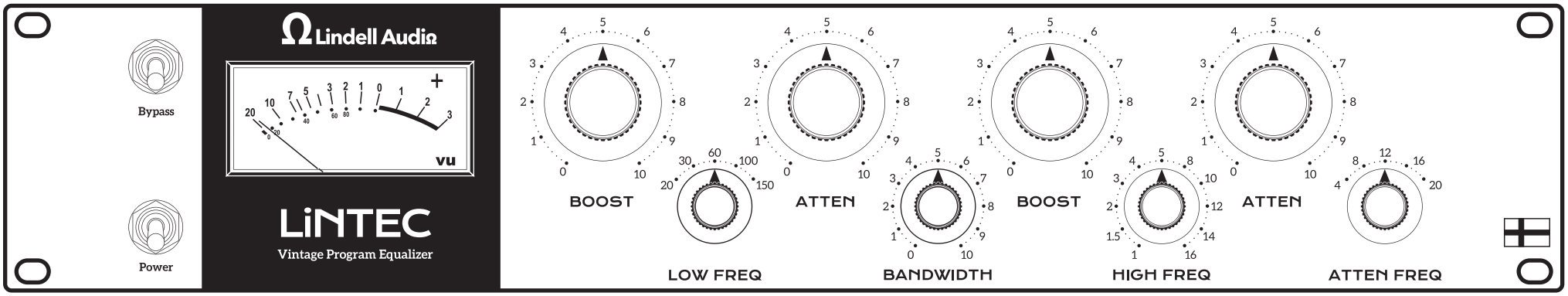
LiNTEC

Vintage Program Equalizer



Specifications

EQ Switch Settings	5-Step Switched EQ Low Freq Boost/Atten: 20, 30, 60, 100, 150 Hz +/-10% 11-Step Switched EQ High Freq Boost: 1, 1.5, 2, 3, 4, 5, 6, 10, 12, 14, and 16 kHz +/-10% 5-Step Switched Eq High Freq Atten: 4, 8, 12, 16, and 20 kHz +/-10%
Voltage	115 VAC, 230 VAC rear panel switchable AC Mains Input: IEC320-C14 standard plug.
Dimensions	Width: 438 mm (19”) Height: 88 mm (2U) Depth: 250 mm

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Lindell Audio

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 supplied 12V AC supply with this unit. Other supplies can potentially damage the unit.

The lightning flash with an arrowhead symbol within an equilateral triangle 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 to persons.

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: To reduce the risk of fire or electric shock do not remove cover. No user serviceable parts inside. Do not expose this equipment to rain or moisture. Refer Servicing to qualified personnel.

AVIS: Risque de shock electrique • Ne pas ouvrir

The Lindell Audio LiNTEC 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 1 Year Warranty

Lindell Audio's LiNTEC 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 tor 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.

Quick Start Guide

1. Mute your studio monitors.
2. Connect your LiNTEC to your mixing bus or patch bay then using balanced TRS cables.
3. Set all of the Boost and Attenuate knobs fully counter-clockwise, to zero.
4. Set the **Power** switch to ON, Bypass to OFF, and apply power. Power LED meter will light up.
5. Unmute your monitors, and verify that signal is passing to and from the unit.
6. Send your desired signal through the LiNTEC.
7. Adjust the controls and listen for changes in the program material.
8. If you hear the controls affecting the character of your music, the unit is functioning correctly.

Basic Use

The LiNTEC works a little differently than other parametric or graphic EQs you may have used in the past.

The three control knobs on the left of the LiNTEC (Boost, Low Freq, and Atten) **affect low-frequency content**. The Boost and Atten controls both affect the frequency chosen by the Low Freq control.

The five control knobs on the right of the LiNTEC (Bandwidth, Boost, High Freq, Atten, and Atten Freq) **affect high-frequency content.** The Boost and Atten controls each have their own corresponding frequency selectors, (High Freq for the Boost control, Atten Freq affects the Atten control.)

The Low-End Trick

Documentation for the original Pultec rather bullishly asserted "**Do not attempt to boost and attenuate simultaneously on the low frequencies.**" So, of course, that's exactly what curious, rascally engineers did. The result of this simultaneous boost/cut operation is a low-end boost below the selected frequency, with a cut slightly above the selected frequency.

Because the bandwidth (Q) of the Boost and Atten controls differ, the two controls do not cancel each other out. This setting results in satisfying thump and body that doesn't risk muddying the midrange, and has been a not-so-secret trick of engineers and producers ever since.

Try it, you'll like it.

Meter Calibration

Meter should be calibrated so that 0 VU = +4 dB. This is controlled the the master calibration set screw on the back of the unit.

Allow 1-2 minutes to let the LiNTEC warm up after powering on before calibrating the meter's zero-point — heat from the bulb can gently affect the meter.

To calibrate, ensure that no audio is passing through the unit. Then, using a flathead screwdriver, rotate the screw on the rear panel until the needle rests on 0. Use very small movements... a little goes a long way in meter calibration!

Voila! Meter calibrated.

Output Calibration

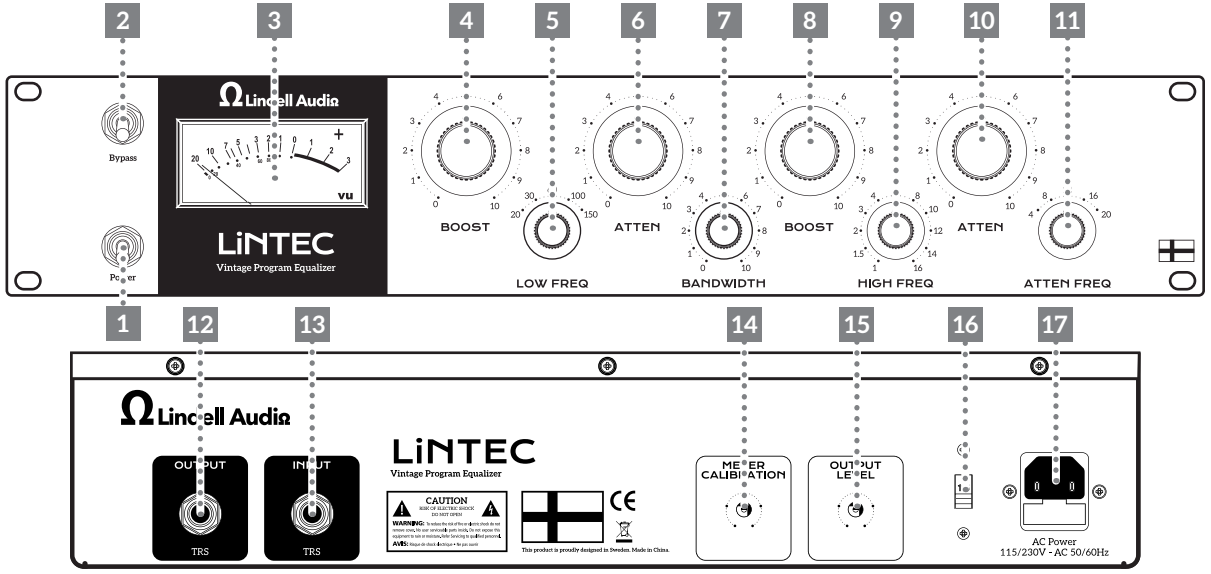
All LiNTECs are hand-calibrated at the factory to match each other at unity gain within 0.2 dB for use in matched stereo pairs. This calibration is measured with all controls set fully counter-clockwise.

We doubt it will be necessary, but if you would like to re-calibrate your unit, adjust the Output Calibration control on the back of the unit.

The 1731 op-amp

The LiNTEC's "VINTAGE OPA 1731" is our take on the classic vintage 1731 op-amp – the predecessor to the 2520, known for its smooth, punchy character.

We think you'll like it as much as we do.



1. **Power switch**: Turns the unit off.
2. **Bypass switch**: Bypasses the EQ circuit, useful for A/B comparisons.
3. **VU Meter**: Displays output VU level.
4. **(LF) Boost**: Selects the amount of boost at the frequency selected by the Low Freq control.
5. **Low Freq**: Selects the frequency affected by the LF Boost and LF Atten controls.
6. **(LF) Atten**: Selects the amount of attenuation at the frequency selected by the Low Freq control.
7. **Bandwidth**: Selects the width (Q) of the HF Boost control. Left=narrow, right=wide.
8. **(HF) Boost**: Selects the amount of boost at the frequency selected by the High Freq control.
9. **High Freq:** Selects the frequency affected by the HF Boost control.
10. **(HF) Atten**: Selects the amount of boost at the frequency selected by the High Freq control.
11. **HF Atten Freq:** Selects the frequency affected by the HF Atten control.
12. **TRS Output**: Balanced line-level output.
13. **TRS Input**: Balanced line-level input.
14. **Meter Calibration:** Use this control to adjust the 0 VU point at +4 dB.
15. **Output Level:** Use this control to adjust the output level of the LiNTEC to match that of another LinTEC for stereo use.
16. **Voltage setting**: Select the voltage suitable to your region. Do not power the LiNTEC by inappropriate voltage.
17. **AC Adapter Input:** ONLY use the supplied 12VAC to power this unit.

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