

# LiN76

Vintage Limiting Amplifier



## Specifications

<b>Attack</b>	Continuously variable 20uS to 800uS
<b>Release</b>	Continuously variable 50mS to 1200mS
<b>Ratio</b>	Pushbutton selected 4:1, 8:1, 12:1, 20:1 and any combination
<b>Voltage</b>	12VAC
<b>AC Mains Input</b>	100V-240V depending on supplied
<b>Dimensions</b>	Width 438mm (19") Height 88mm (2U) Depth 250mm
<b>Weight</b>	8kg

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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.

The Lindell Audio LIN 76 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 LIN 76 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.

## Quick Start Guide

On your sound system, mute your monitors and then using balanced TRS cables, connect your LIN 76 to your mixing bus or patch bay. Set all controls to full counter-clockwise position, and all pushbuttons deselected or in the off position make sure that no ratios are selected. Set the OFF button to the deselected (vu meter will turn on) position, and apply power. Unmute the monitors, and verify that signal is passing to and from the unit. Set the Input, Output, Attack and Release controls to about 12 o'clock, select Ratio 4, and press the GR pushbutton. Increase the Input until the meter is deflecting a few dB. Again, verify signal is passing through the unit. At this point that the unit is functioning correctly. If you would like the compressor to compress more increase the input knob. This will allow more signal into the compressor and cause the compressor to react more. If you would like the compressor to compress more with the same amount of signal input, increase the ratio. Ratios can be selected by pressing one button at a time OR combinations of different buttons at the same time.

## All Button Mode

By pressing in all 4 buttons you active what is referred to as "all button" mode. This "secret mode" changes the ratio to roughly 20:1. It also changes the bias of the circuit and the way that the knobs interact with each other. The unit will become much more aggressive with its reaction knee becoming more like a plateau than a gentle curve and will have a more aggressive dirty tone that sounds incredible on aggressive drums. The attack will become very punchy with a gooey

"sucking" sound on the release.

## Favorite Setting

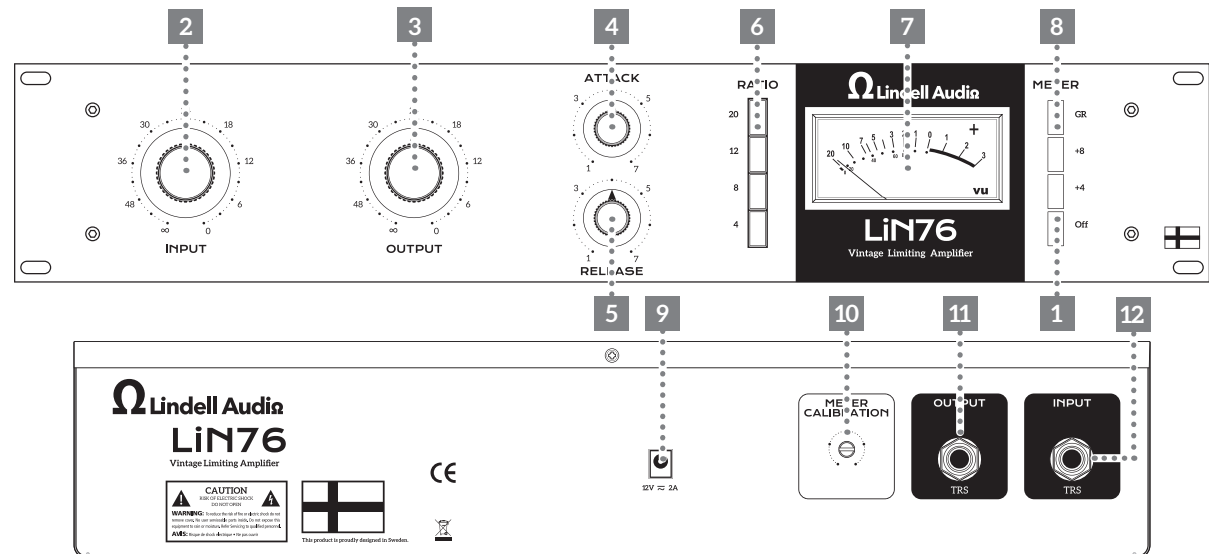
While there is no proper way to use a compressor (please experiment and get creative!) there are certain settings that we do personally suggest for certain sources. The most popular use would be vocals and we find that a relatively mild input signal of about 36-30 should cause gentle compression for vocals, creating a thickening effect without crushing the audio. Then use the output control to bring the vocals back up to the original volume level. Setting the attack to roughly 9 o'clock and the release to about 3 o'clock will give it a natural sound without sounding artificial.

## Meter Calibration

Making sure that the meter returns to zero is important to the compressors functionality. This is controlled the the mater calibration set screw on the back of the unit. Set the meter to GR and make sure that no ratios are selected by pressing in any ratio button just enough that all 4 pop out. Then using a flathead screwdriver, rotate the screw on the rear panel until the needle rests on 0. Voila! Meter calibrated.

## Attack/Release Control

Be aware that the Attack and Release times are opposite a traditional 76 style compressor. Fast times are engaged with the knob turned to the left, and slow times are engaged with the knob turned to the right.



1. **Power Button:** turns the unit off. When GR, +4 or +8 are selected, the unit is on.
2. **Input:** Sets the threshold and controls the level at which the compressor starts compressing. Louder signal will require less input to trigger the same amount of compression than softer sounds.
3. **Output:** Applies makeup gain to compressed signal to compensate for signal lost during compression.
4. **Attack:** Controls the amount of time it takes for the unit to react to an incoming signal. Continuously variable from 20uS to 800uS
5. **Release:** Controls the speed at which the compressor releases the compressed signal. Continuously variable 50mS to 1200mS
6. **Ratio:** Controls the amount of compression applied (Yes, it does all-buttons-in-mode). The higher the ratio, the more compression is applied for the same amount of

- signal input once compression is triggered.
7. **VU Meter:** Displays units selected by Meter Mode.
8. **Meter Mode Selectors:** GR: the meter displays the amount of Gain Reduction being applied to the signal. +4: a meter reading of 0 corresponds to a level of +4 dB output. +8: a meter reading of 0 corresponds to a level of +8 dB output.
9. **AC Adapter Input:** ONLY use the supplied 12VAC to power

- this unit.
10. **Meter Calibration:** Use this control to adjust the 0 resting point when no compression is being applied.
11. **TRS Output:** Balanced line-level output
12. **TRS Input:** Balanced line-level input.

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