

B12A MkII 500 | User Manual

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INTRODUCTION

The B12A MkII 500 packs the same punch as its ½ rack cousin, but in the convenient and flexible 500 series format. The API®-style design features a delicious CineMag input transformer, serves up huge portions of low-noise gain, and has the same classic American rock sound that the original API® 312A is known for! Get ready to fill your lunchbox®, 'cause once you go Black Lion Audio, you never go back!

FEATURES

- 500 Series format (lunchbox® required)
- Cinemag Input Transformer
- Edcor Output Transformer
- 70dB Gain
- Hi-Z Input (passive, unbalanced)
- Phantom Power
- 18dB Pad
- Phase Switch

SPECIFICATIONS

Mic Section

- Max Microphone Input Level: +1dBu
- Input Impedance: 200Ω
- Pad: 18dBu
- Gain (no pad): +26dB to +70dB
- Equivalent Input Noise (noise floor): -120dBu
- THD+N (@ +4dBu output):
 - .010% @ +22 dBu
 - .010% @ +36 dBu
 - .041% @ +56 dBu
 - .122% @ +66 dBu
- Bandwidth (1kHz, 150Ω source, unweighted): 10Hz to 30kHz

D.I. Section

- Max D.I. Input Level: +18dBu
- Input Impedance: 1.1MΩ
- Pad: none
- Gain: +10dB to +53dB
- Equivalent Input Noise (noise floor): -94dB

- THD+N (@ +4dBu output):

- .009% @ +10 dBu
- .115% @ +36 dBu

- Bandwidth (1kHz, 600Ω unbalanced source, unweighted): 10Hz to 30kHz

Output Section

- Max Output Level: +28dBu
- Output Impedance: 600Ω

Power Supply

- +/- 15v (lunchbox® supply)

Product Dimensions

- 1.5" x 6.5" x 5.25"

Product Weight

- .8 lbs

Shipping Dimensions

- 13" x 11" x 5"

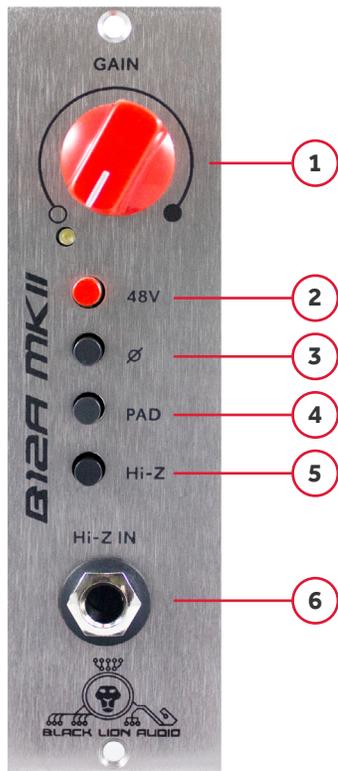
Shipping Weight

- 1.8 lbs

PACKAGE CONTENTS

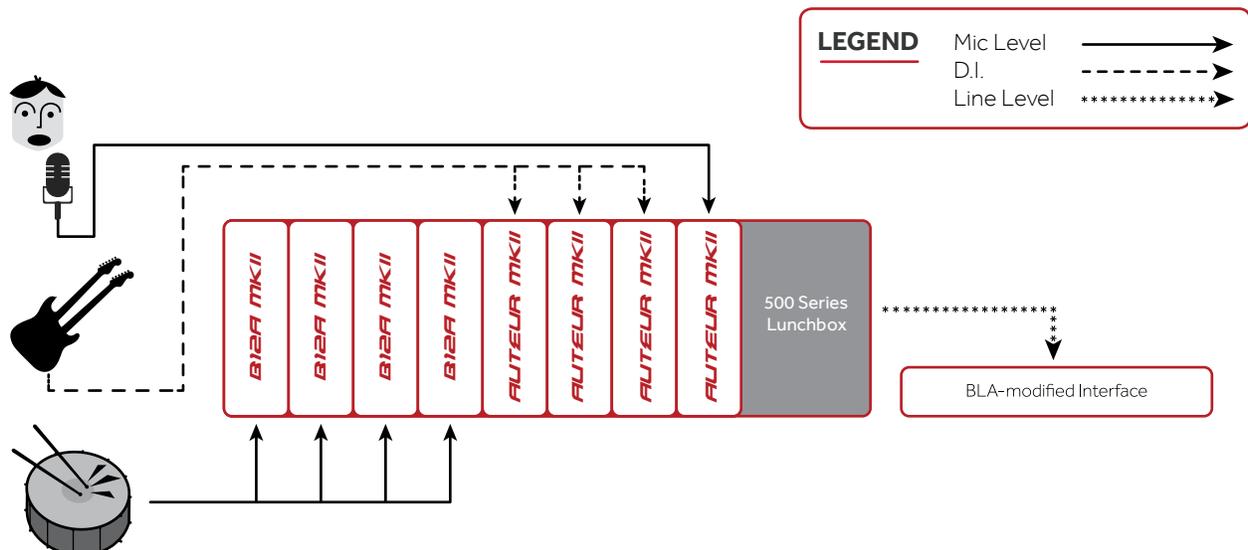
- B12A MkII 500

FRONT

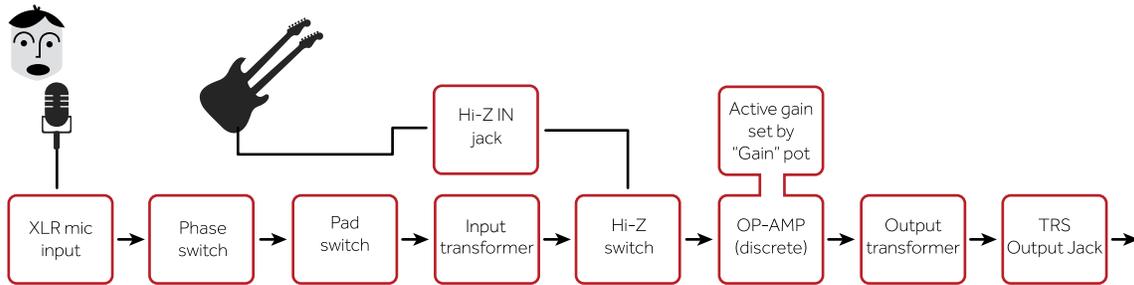


1. **GAIN:** clockwise rotation yields an increase in output signal amplitude, counterclockwise rotation yields a decrease in output signal amplitude
2. **48V:** engage to turn phantom power on, disengage to turn phantom power off
3. **PHASE:** engage to adjust input signal polarity by 180°, disengage to leave input signal polarity unchanged
4. **PAD:** engage to reduce input signal amplitude by 18dBu, disengage to leave input signal amplitude unchanged
5. **Hi-Z:** engage to use front panel Hi-Z IN as preamp source, disengage to use 500 series rack's XLR input as preamp source
6. **Hi-Z IN:** input jack for use with high impedance, unbalanced sources (GAIN knob adjusts signal amplitude)

B12A MKII 500 CONNECTION DIAGRAM



SIGNAL FLOW/HARDWARE BLOCK DIAGRAM



REPAIR

To reduce the risk of fire or electric shock, the user should not attempt to repair the device in the event of a failure. Repairs should be referred to qualified service personnel only. Please contact Black Lion Audio if you need assistance.

WARRANTY

We extend a two-year warranty on defects in materials and workmanship for all Black Lion Audio products from the date of purchase. This does not cover user error, wear, tear, or abuse. Should your B.L.A. product experience any problems or failures during the warranty period, immediately contact us, and we will gladly correct the issue at no charge (excluding shipping).

DISCLAIMER

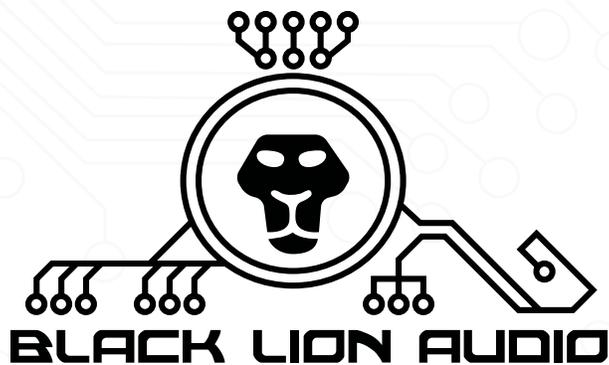
For your safety, please read the following!

Grounding: For your safety, do not defeat the grounding connection. Use the device only when it is properly grounded.

Liquids, water, and moisture: The device should not be used near water, or when it is wet. Care should be taken so that it remains dry. Be sure to keep the device away from rain or other moisture.

Power: The device must be loaded in and powered by a 500 Series lunchbox®.

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