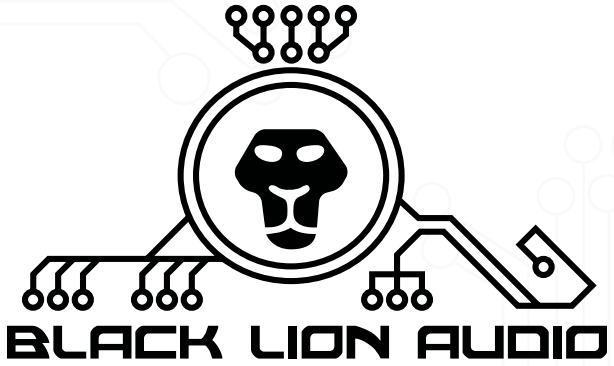


B12A MkII | User Manual

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INTRODUCTION

What happens when you take the stately B12A and add some extra special sauce? You get the B12A MkII! With a titillating CineMag input transformer, less noise, and more API-style gain than ever before, the B12A MkII will sweeten your preamp collection for years to come!

FEATURES

- Cinemag Input Transformer
- Edcor Output Transformer
- 70dB Gain
- Hi-Z Input (passive, unbalanced)
- Phantom Power
- 18dB Pad
- Phase Switch
- XLR Microphone Input
- TRS Line Output (balanced)

SPECIFICATIONS

Mic Section

- Max Microphone Input Level: +1dBu
- Input Impedance: 200Ω
- Pad: 18dB
- Gain (no pad): +26dB to +70dB
- Equivalent Input Noise (noise floor): -120dB
- THD+N:
  - .01% @ +26dB Gain
  - .011% @ +40dB Gain
  - .049% @ +60dB Gain
  - .15% @ +70dB Gain
- Bandwidth (1kHz, 150Ω source, unweighted): 10Hz to 30kHz

D.I. Section

- Max D.I. Input Level: +18dBu
- Input Impedance: 500kΩ
- Pad: none
- Gain: +10dB to +53dB
- Equivalent Input Noise (noise floor): -102dB
- THD+N:
  - .008% @ +10dB Gain
  - .01% @ +25dB Gain
  - .03% @ +40dB Gain
  - .14% @ +53dB Gain
- Bandwidth (1kHz, 600Ω unbalanced source, unweighted): 10Hz to 30kHz

Output Section

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

Power Supply

- 24VAC, 500mA External Supply

Product Dimensions

- 9.5" x 6.5" x 1.75"

Product Weight

- 3.2 lbs

Shipping Dimensions

- 13" x 11" x 5"

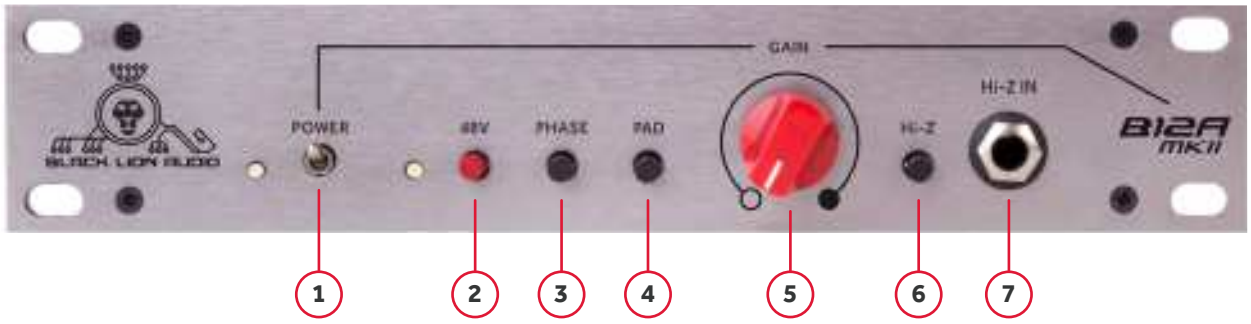
Shipping Weight

- 5.5 lbs

PACKAGE CONTENTS

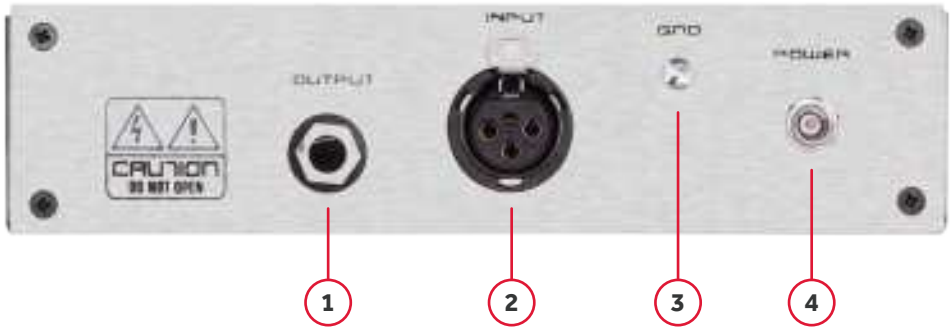
- B12A MkII
- Power Supply (wall wart)
- ½ Rack Connector Plate

FRONT



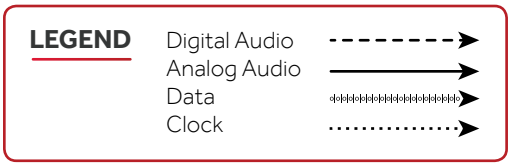
1. **POWER:** flip switch up to turn preamp on, flip switch down to turn preamp off
2. **48V:** engage to turn phantom power on, disengage to turn phantom power off
3. **PHASE:** engage to adjust input signal polarity by 180°, disengage to leave input signal polarity unchanged
4. **PAD:** engage to reduce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

BACK

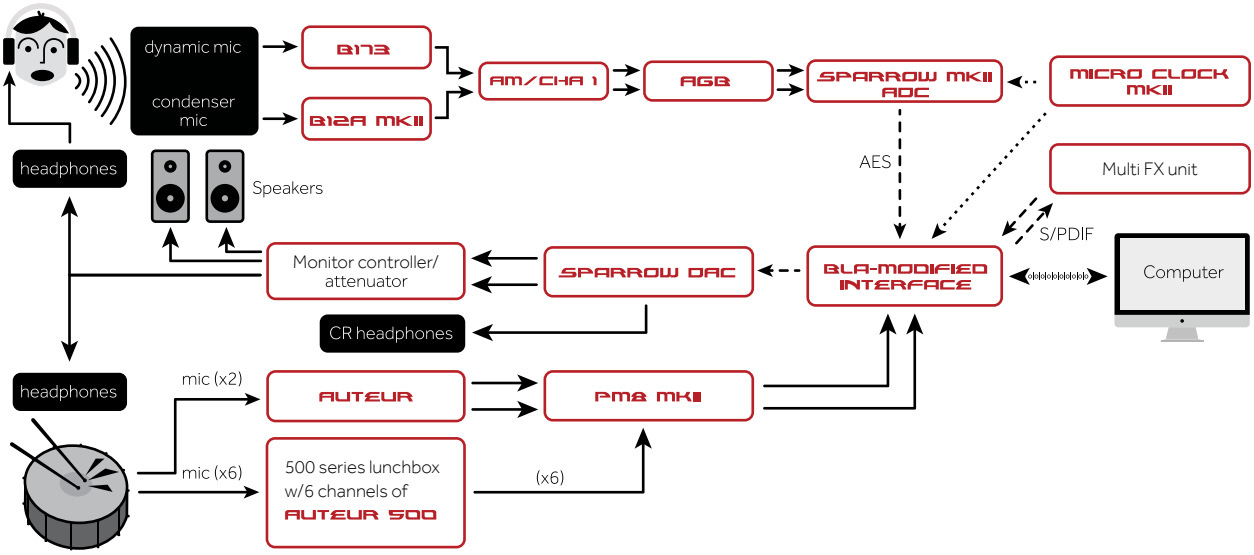


1. **OUTPUT:** balanced, line-level TRS output
2. **INPUT:** balanced, mic-level XLR input
3. **GND:** internal chassis ground
4. **POWER:** 24VAC input jack (only use a B.L.A.-specified power supply)

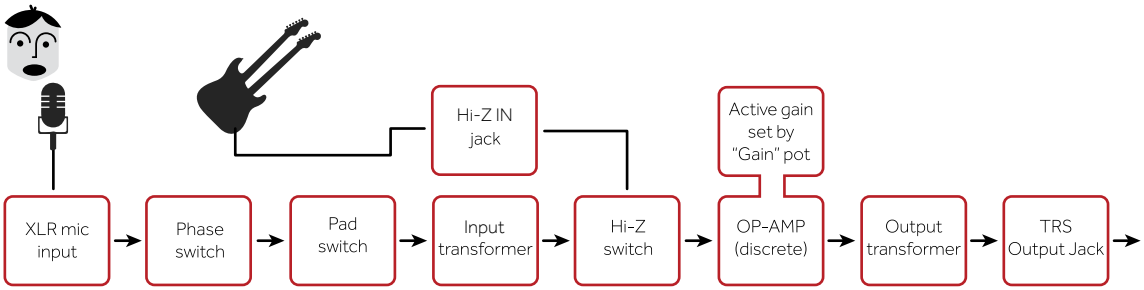
CONNECTION DIAGRAMS



TRACKING



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!

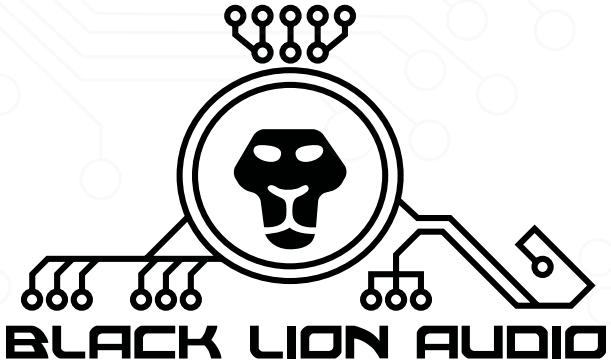
Grounding: For your safety, do not defeat the grounding connection. Use the device only when it is properly grounded.

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 should be connected to a power supply only of the type described in the user manual and/or as marked on the rear panel.

Power cables: Power supply cables should not be routed under carpets, or where they are likely to be walked on or pinched by items placed upon or against them. Do not use power supply cables that have become worn or frayed.

Multiple-input voltage: The device may require the use of a different power supply, power plug, cable, or both, depending on the available power connection in your area.



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