

B23 L

USER INSTRUCTIONS 14

Please read the manual before using the equipment!



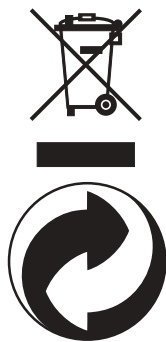
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1 Safety and the environment

- Do not spill any liquids on the equipment.
- The equipment must only be opened, serviced, and repaired by authorised personnel. The equipment contains no user-serviceable parts.
- Please only clean the unit with a damp cloth, but not one that is wet. Please do not by any means use harsh or abrasive cleaning agents including any that contain alcohol or solvent, as these could cause damage to the paint and to the plastic parts.
- Only use the equipment for the applications described in this manual. AKG cannot accept any liability for damages resulting from improper handling or misuse.
- At the end of the lifetime of the product, disconnect the housing, electronics and cable from each other and discard all components according to applicable disposal regulations.
- The packaging is recyclable. Dispose of the packaging via an appropriate collection system provided for this purpose.

Environment



2 Description

Introduction

Thank you for your decision to buy an AKG product. **Please read the user instructions carefully** before using the unit and keep them in a safe place so that you can refer to them in the future at any time. We wish you a lot of fun and success!

Scope of supply

- B23 L Battery Power Supply Unit
- Transport band
- Connection cable 3.5 mm jack – Mini XLR
- Quick start guide

Please ensure that the packaging contains all of the parts listed in the above. In the event that something is missing, please contact your AKG dealer.

Optional accessories

Optional accessories can be found in the current AKG catalogue at www.akg.com. Your dealer will be happy to advise you.

Short description

The B23 L Battery Power Supply Unit supplies "C... L" & "C... ML"- versions of AKG MicroMic II Series microphones with phantom power and enables operation of the microphones with mixers, home recorders or the like without integrated phantom power. The B23L output signal can be used on your notebook or Tablet PC for the purposes of further processing or recording. The battery supply unit operates on two AA batteries.



Control elements

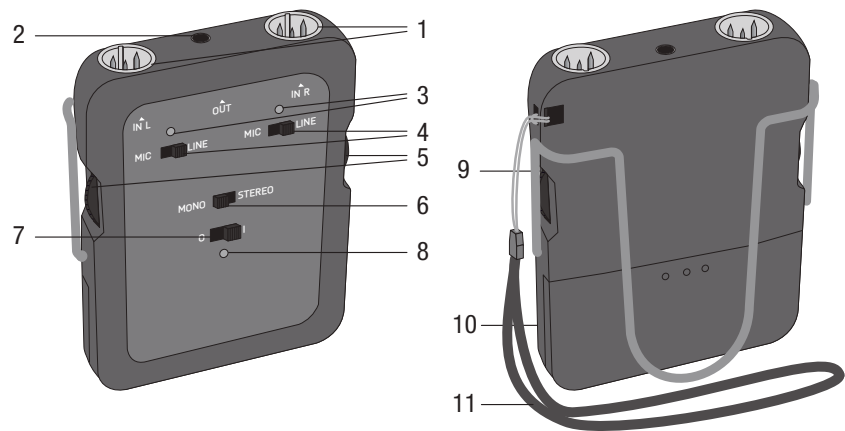


Figure 1: B23 L control elements

- 1 **Mini XLR inputs (2x):** Two microphones can be provided with supply voltage.
- 2 **Output jack 3.5 mm** is connected to a pocket transmitter, mixer or recording device (notebook, Tablet PC).
- 3 **CLIP LED:** This LED lights up if the audio level is too high.
- 4 **MIC/LINE selector switch:** With this switch, the output level is adjusted to match the input device.
- 5 **VOLUME controls:** Both input signals are mixed with the VOLUME controls to balance audio level differences, e.g., between voice and instrument.
- 6 **MONO/STEREO selector switch** for use of the unit in MONO or STEREO operation mode.
- 7 **ON/OFF switch:** The unit has an ON/OFF switch for operation. In the "Off" position, there is no drain on the batteries.



NOTE

Please switch the unit off when not in use. In this way, the lifespan of the batteries is prolonged.

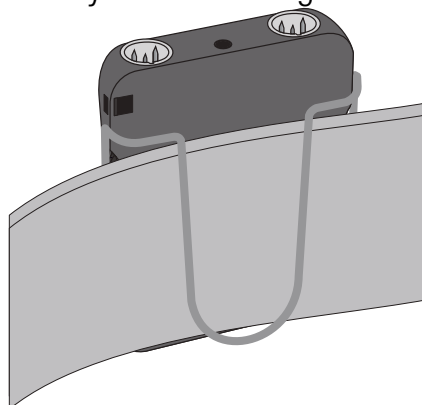


Description

8 STATUS LED:

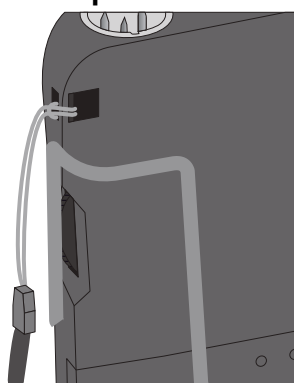
- ▶ lights up for approx. one second when switching the unit on: B23 L is ready for operation.
- ▶ does not light up: Check the batteries and ensure that the polarity is correct.
- ▶ lights up during operation: Change the batteries.

- 9 **Belt clip:** To attach the unit to a belt. Place the unit onto a belt or into a pocket in such a way that the battery cover is facing the body.



- 10 **Battery cover**

- 11 **Transport band**



3 Setting up

Insert the batteries and turn on the unit

- 1) Pull off the **belt clip (9)** .
- 2) Pull the **battery compartment cover (10)** downward.
- 3) Insert two AA batteries into the battery compartment and ensure that they have been inserted in the right direction.
If the batteries have been inserted in the wrong direction, the unit will not be supplied with power.
- 4) Switch on the unit using the **ON/OFF switch (7)**.
 - ▶ If the **status LED (8)** lights up for approx. one second immediately after switching on, the batteries are in good condition and the unit is ready for operation.
 - ▶ If the Status-LED does not light up, the batteries are empty or inserted incorrectly. Insert new batteries or insert the batteries correctly. Ensure that the batteries are facing the right direction!
 - ▶ If the Status LED lights up during operation, the batteries are depleted. Exchange the batteries with new ones as soon as possible.
- 5) Close the battery compartment by sliding the battery cover over the battery compartment until it clicks into place.
- 6) Insert the belt clip.

Setting up

Connect microphones

The unit has been designed for use with the AKG MicroMic II "C... L" & "C... ML" Microphone Series.

If you would like to connect microphones from other manufacturers to the unit, please note that you may have to replace the connector plug of your microphone with a 3 pole mini XLR plug.

Contact assignment of the audio input plug:

Contact 1: Shielding

Contact 2: Audio in-phase (+)

Contact 3: Supply voltage

At contact 3, there is a positive voltage supply of 9 V (idle) available for condenser microphones.



ATTENTION

Proper functioning of the B23 L with products from other manufacturers cannot be guaranteed. Potential damage due to the operation using products from other manufacturers shall be excluded from the guarantee.



4 Application



NOTE

Do not use pocket transmitters in a range closer than 10 cm.

MONO

A typical example is the use of two microphones on an accordion.



Figure 2: MONO operation mode with an accordion

- 1) Connect both microphones on the accordion to the B23 L battery power supply unit.
 - ▶ Plug the mini XLR connector plug on the cable of your microphone to an **audio input plug (1)**.
- 2) Connect the B23 L with a pocket transmitter over the **output jack (2)**.
- 3) Set the **selector switch (4)** of both inputs to "MIC".
- 4) Set the **selector switch (6)** to "MONO".
- 5) Switch on the B23 L using the **ON/OFF switch (7)**.

- 6) Play the instrument.
- 7) Set the **VOLUME control (5)** of the inputs in such a way that the **CLIP LEDs (3)** occasionally light up shortly.

STEREO

For stereo recording with two microphones or a microphone and instrument, the B23 L battery power supply unit is preconfigured to "STEREO":

- 1) connect two microphones or a microphone and an instrument to the B23 L.
 - ▶ Plug the mini XLR plug on the cable of your microphone to an **audio input jack (1)**.
 - ▶ Insert the jack connector plug of the MKG L guitar cable (optional accessories) into the output jack of your instrument and the guitar cable's mini XLR plug into the audio input jack on the B23 L.
- 2) Connect the B23 L with a pocket transmitter, mixer or recording device over the **output jack (2)**.
- 3) Set the **selector switch (4)** of both inputs to "**MIC**".
- 4) Set the **selector switch (6)** to "**STEREO**".
- 5) Switch on the B23 L using the **ON/OFF switch (7)**.
- 6) Sing into the microphone or play into the instrument.
- 7) Set the **VOLUME control (5)** of the inputs in such a way that the **CLIP LEDs (3)** occasionally light up shortly.

Adjusting audio level



NOTE

If the CLIP LED lights up frequently or continuously due to loud singing or playing, the input sensitivity is too high. Turn the VOLUME control down slightly, or change the selector switch from MIC to LINE so that the CLIP LED occasionally lights up shortly.

RECORDING

The B23 L output signal can be used on your notebook or Tablet PC for purposes of further processing or recording.

- Connect a notebook or a Tablet PC to the B23 L battery power supply unit.
 - ▶ Insert a jack connector plug into the **jack output (2)** and the two jack connector plugs into the appropriate input jack of your notebook or Tablet PC.



NOTE

Please only use cables shorter than 3 m in length.



5 Cleaning

- Use a soft cloth moistened with water to clean the surfaces.

6 Technical data

| | |
|------------------------------|---|
| Power supply: | Two AA alkaline or rechargeable batteries |
| Phantom voltage: | 9 V (idle), 4 V (4.2 kOhm) |
| Power consumption: | 40 mA @ 3 VDC |
| Lifespan of the batteries: | 30 - 50 h depends on battery capacity |
| Input channels: | Two mini XLR inputs |
| Max. input level: | 0 dBV |
| Input impedance: | 5 kOhms |
| Max. input attenuation LINE: | 50 dB +/- 1 dB (volume control position 0) |
| Min. input attenuation LINE: | 0 dB +/- 1 dB (volume control position 10) |
| Max. input attenuation MIC: | 37 dB +/- 2 dB (volume control position 0) |
| Max. MIC amplification: | 30 dB +/- 2 dB (volume control position 10) |
| Output channel: | A 3.5 mm stereo output jack (max. 55 VDC) |
| Max. output level | Stereo LINE: 0 dBV +/- 1 dB @ 1 KHz < 0.1 % Stereo MIC (+ 30 dB): 0 dBV +/- 1 dB @ 1 KHz < 1 % |
| Output impedance: | 200 ohms unbalanced |
| Gain LINE: | 0 dB +/- 1 dB |
| Gain MIC: | 30 dB +/- 2 dB |
| Noise LINE (Mono & Stereo): | < 5 uV (A) |
| Noise MIC (Mono & Stereo): | < 22 uV (A) |
| Frequency range: | 20 Hz - 20 kHz |
| Temperature range: | -10 °C – 60 °C (14 °F – 140 °F) |
| Dimensions (W x D x H) | 89 x 70 x 26 mm (3.5 x 2.75 x 1.02 in) |
| Weight including batteries: | 115 g (4.05 oz) |

This product conforms to the standards listed in the Declaration of Conformity. To view a copy of the Declaration of Conformity for this product, visit <http://www.ake.com> or contact sales@ake.com.