



BY-M1
Universal Lavalier Microphone

Introduction

Thanks for choosing BOYA!

The BOYA BY-M1 is universal Lavalier Microphone, which can be used with cameras, smartphones, and other recording devices.

It is designed for reliable and trouble-free performance.

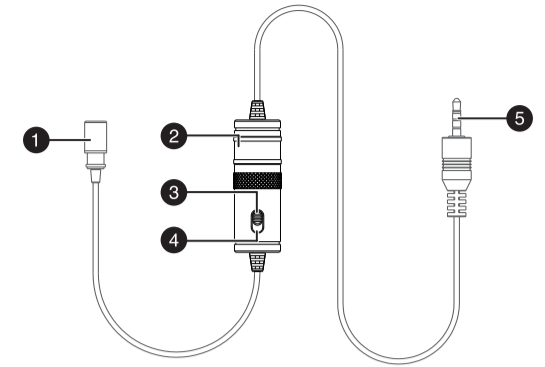
In order to ensure you have a good experience, please read this manual thoroughly and retain it for future reference.

Package contents

- Lapel microphone
- Foam wind screen
- Clothing clip
- Battery (LR44)
- 1/4" plug adapter
- User Guide

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Main features



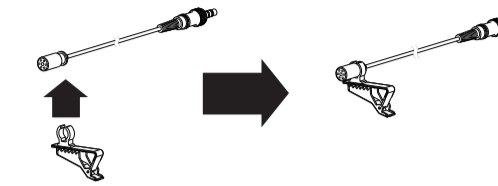
#	Item	Description
1	Omni-directional microphone	Picks up sound. The sound enters through the holes in the top of the capsule.
2	Power pack	Provides power for the microphone for use with cameras and other devices requiring a powered mic.
3	Camera setting	Turns the power on to the microphone. For use with cameras and other devices requiring a powered mic.
4	OFF/Smartphone setting	Turns the power off to the microphone. For use with Smartphones and other devices requiring an unpowered mic. NOTE: Keep the device in this mode when not in use to save the battery.
5	3.5 mm connector	Connects the microphone to the Smartphone, camera, camcorder, or other recording device.

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Using the microphone

Attaching the microphone to the clothing clip

- Insert the microphone into the plastic loop on the clothing clip.



Notes

- Attach the microphone upside down to reduce excessive breath noises and tonal inconsistencies due to head movements.
- It is recommended that you use the foam wind screen at all times to avoid wind noise, even when recording inside.

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Mounting the microphone to your clothing

- Attach the microphone to the front of your clothing with the clothing clip, about six inches (15-20 cm) from your face.

Notes

- Tape a loose loop of the microphone cord to the inside of your clothing. This provides additional strain relief for the microphone cord and isolation from unwanted noise.
- Before recording an important event, record and play back a short test clip with the microphone attached to ensure audio recording is functioning properly.

Using the microphone with a camera

- 1 Plug the 3.5 mm connector into the audio input jack of your DSLR, Point and Shoot camera, or camcorder.
- 2 Attach the microphone to your clothing (see previous instructions).
- 3 Move the switch on the power pack to the **Camera (on)** setting and begin filming.

Note

Not all cameras have a microphone input. Verify this with your camera manufacturer. Many cameras have headphone, remote control, and other ports that look similar to a microphone input. Make sure that you are using the correct one.

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Using the microphone with a Smartphone

Caution

Make sure that the microphone power pack is set to the **OFF/Smartphone** setting before plugging it into your smartphone.

- 1 Plug the 3.5 mm connector into the audio jack of your smartphone.
- 2 Attach the microphone to your clothing (see previous instructions).
- 3 Open the audio-only or video recording app and begin recording.

Using the microphone with other devices

- 1 Plug the 3.5 mm connector into the audio input jack of your device (audio recorder, amplifier, PC, laptop).

Note

On some devices, such as amplifiers, you may need to use the 1/4-in. adapter (included).

- 2 Attach the microphone to your clothing (see previous instructions).
- 3 Move the switch on the power pack to the **Camera (on)** setting, then begin recording.

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Replacing the battery

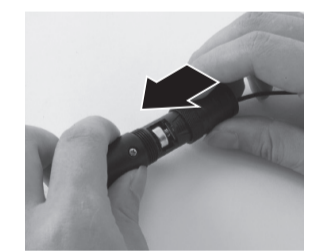
- 1 Unscrew the two parts of the power pack and separate the pieces.



- 2 Remove the old battery from its compartment in the power pack.

Tip

Use a non-metallic object, such as a toothpick, to gently lift the battery straight up. Do not push the battery side-to-side as you are lifting it or it will bind inside the compartment.



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- 3 Place the new battery, with the + and - oriented as indicated, into the battery compartment in the power pack. The + symbol is stamped inside the compartment for reference.

Troubleshooting

Problem	Solution
The microphone does not turn on	The battery may be incorrectly oriented in the battery compartment. Open the battery compartment and make sure the battery is correctly installed. The battery may be exhausted. Replace it with a new one. See the Specifications section for compatible replacements. The battery terminals are dirty. Open the battery compartment and clean the terminals with a cotton swab.
The battery discharges too quickly	The microphone is being left on (in the Camera position). Turn off the microphone by moving the switch to the OFF/Smartphone position. You are using the microphone in extremely hot or cold conditions which drains it quickly.
Too much ambience noise is being picked up	Make sure that the microphone is as close as possible to the subject. A certain amount of ambient noise is unavoidable in loud environments.

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Specifications

Transducer	Electret condenser
Polar pattern	Omnidirectional
Frequency range	65 Hz ~ 18 KHz
Signal/Noise	74 dB SPL
Sensitivity	-30 dB +/- 3 dB / 0 dB=1V/Pa, 1 kHz
Output impedance	1000 Ohm or less
Battery type	LR44 included (compatible with LR44, 357, and SR44)
Connector	3.5mm (1/8") 4-pole gold plug
Dimensions	Microphone: 18.00mmH x 8.30mmW x 8.30mmD Cable: 6.0m
Weight	Microphone: 2.5g Power Module: 18g

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Safety information



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your microphone.

Important safety instructions

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this microphone near water.
- 6 Clean only with a dry cloth.
- 7 Only use attachments/accessories specified by the manufacturer.
- 8 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as, 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.
- 9 To protect the device from damage or malfunction, do not expose this device to rain, moisture, or excessive humidity.
- 10 Batteries should not be exposed to excessive heat such as direct sunlight, fire, or being left in a hot car.

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- 11 Take great care when using the microphone around moving objects or in other situations where the cable could be suddenly tugged or pulled.

- 12 NEVER wrap the microphone cable around your neck or any part of your body.

Warning

Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.

Features

- Clip-on lapel microphone for Smartphones, cameras, camcorders, audio recorders, PCs, and other audio/video recording devices
- High-quality condenser microphone, ideal for accurate voice recording
- Omnidirectional pick-up pattern for flexible, easy use
- Low handling noise

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