



BY-WM4
Wireless Microphone

Instruction Manual

Thank you for purchasing BOYA BY-WM4!

The BOYA BY-WM4 is compact wireless microphone, designed for reliable and trouble-free performance. It can work with Smartphone, Tablet, DSLR camera, Camcorder, Audio recorder, PC and others audio/video devices.

Safety information



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

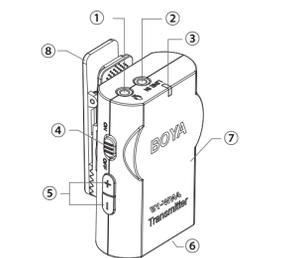
- Please read these instructions for use thoroughly before you use this new equipment for the first time. It contains everything you need to know in order to avoid damage to persons or property.
- Heed all warnings and follow all instructions.
- Do not use this microphone near water and clean only with a dry cloth.
- Only use attachments/accessories specified by the manufacturer.

- 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.
- To protect the device from damage or malfunction, do not expose this device to rain, moisture, or excessive humidity.
- Batteries should not be exposed to excessive heat, such as direct sunlight, fire, or being left in a hot car.
- Take great care when using the microphone around moving objects or in other situations where the cable could be suddenly tugged or pulled.

Package contents

- Transmitter
- Receiver
- Lavalier/lapel microphone
- 3.5mm to TRS audio output cable
- 3.5mm to TRRS audio output cable
- Cold-shoe mount
- Hard case
- User Guide

Transmitter



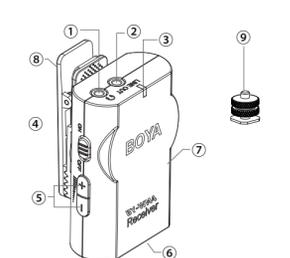
- Microphone input**
- Connect the supplied lavalier microphone here.
- Fully insert the microphone's 3.5mm plug and make sure it clicks into place.
- Line In**
- Power LED**
1) The power LED flash blue when the unit is on.
2) The power LED glows red when low power.

For more details about LED indicator, please refer to as following:

Status	Receiver	Transmitter
Unit is turned ON	Flashing	
Wireless communication is established	Flashing continually every 2.5 seconds	
Receiver unit is turned OFF(Transmitter is still ON)	Off	Flashing
Transmitter unit is turned OFF(Receiver is still ON)	Flashing	Off
Low power	Flashing in red	

- Power OFF/ON**
- Botton +/-**
This botton is just for connecting signal
For details, please see "How to connect transmitter and receiver" on page 9.
- Antenna**
 Please don't touch here during using, otherwise, it will effect signal.
- Battery compartment**
Accommodates one AA battery.
For more details, please see "Installing batteries" on page 7.
- Clip**
For more details, please see "Installing or uninstalling clip" on page 11.

Receiver



- Earphone Jack**
(3.5mm diameter stereo mini jack)
To monitor the receiver output, connect the headphones to this connector.
- LINE OUT (audio output) Jack**
- For using Smartphone, tablet or Mac connect one end (90° plug) of the supplied TRRS stereo 3.5mm mini output cable here, and the other end (straight plug) to smartphone.

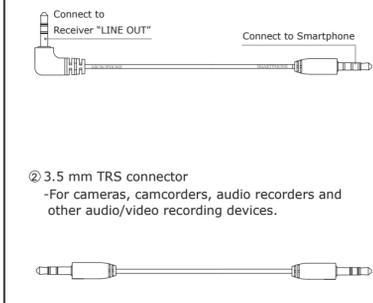
NOTE
Do not connect headphones with a monaural mini jack. This may lead to short-circuiting of the headphone output, resulting in distorted sound output.

- For cameras, camcorders, audio recorders and other audio/Video recording devices. connect one end of the supplied TRS stereo 3.5mm mini output cable here, and the other end to camera.

- Power LED**
For more details, please see "Power LED" on page 3.
- Power OFF/ON**
- Volume +/-**
Press these buttons to set the attenuation level of the input signal.
- Antenna**
 Please don't touch here during using, otherwise, it will effect signal.
- Battery compartment**
Accommodates one AA battery.
For more details, please see "Installing batteries" on page 7.
- Clip**
For more details, please see "Installing or uninstalling clip" on page 11.
- Shoe mount adapter**

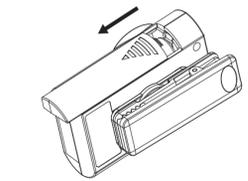
What's difference?

- 3.5 mm TRRS connector
-For Smartphone, tablet or Mac
- 3.5 mm TRS connector
-For cameras, camcorders, audio recorders and other audio/video recording devices.



 Precautionary measures when using batteries
Batteries/power packs, if inappropriately handled, can run out or explode. Please observe the following notes on safety when handling batteries to be used in this device:

- Use only batteries mentioned in these operating instructions.
- Do not lay the batteries in a fire and do not expose them to direct heat.
- In order to avoid damage to the product you must make sure that you remove the batteries, if you do not use the product over a longer period of time or if the batteries have been discharged.
- If battery fluid comes into contact with skin or clothes, rinse it off immediately with fresh water.



How to use it
Insert batteries in the transmitter and receiver units

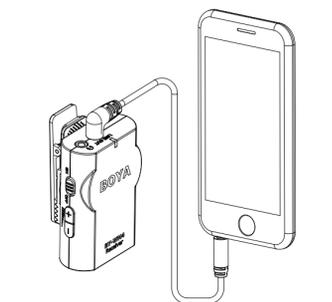
- Both transmitter and receiver requires one AA size battery.
- Slide and remove the transmitter's battery compartment cover.
- Insert one battery.
- Close the battery compartment cover.
- Do the same ways as step 2 to 4 to insert battery into receiver.

Connecting the transmitter and receiver
Using the microphone with Smartphone, tablet or Mac

Receiver

- Mount receiver to Smartphone, tablet or Mac.
- Using TRRS cable, plug the 3.5 mm connector (straight plug) into the audio jack of your smartphone.
- Insert the 90° plug of the connecting cable into the receiver "LINE OUT" jack.
- Insert earphone into receiver "🔊" for monitoring sound.
- Slider the power ON/OFF switch to ON position (the LED indicator will light in blue)

Caution: Please do not mix up plug, for details, please refer to "What's difference" on page 6.



Transmitter

- Insert the lavalier/lapel microphone into transmitter "🎤".
- Slider the power ON/OFF switch to ON position (the LED indicator will light in blue).
- The belt clip on the back of the unit clips the transmitter onto a belt, or the transmitter simply can be put into a pocket.

If transmitter and receiver connect, the light will flash every 2.5 seconds. Otherwise, the light will flash rapidly.

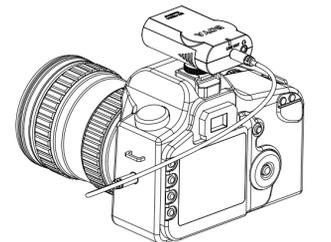
Before leaving factory, the connection of both of transmitter and receiver will be established.

If transmitter and receiver disconnect, please follow below steps:

- Turn on the receiver
- Press the button "+" and "-" for 3 seconds at the same time.
- Repeat steps 1 to 2 steps to set up the transmitter.

If the LED light of both transmitter and receiver flashes blue, connecting successfully.
Otherwise, try 1-3 steps.

Using the microphone with cameras, camcorders, audio recorders and other audio/video recording devices.



Receiver

- Mount receiver to cameras, camcorders, audio recorders and other audio/video recording devices.
- Using TRS cable, plug the 3.5 mm connector into the audio jack of your camera.
- Insert the other end of the connecting cable into the receiver "LINE OUT" jack.
- Insert earphone into receiver "🔊" for monitoring sound.
- Slider the power ON/OFF switch to ON position (the LED indicator will light in blue)

Caution: Please do not mix up audio cable, for details, please refer to "What's difference on page 6".

Transmitter

For how to setup transmitter, please refer to "Transmitter" section on page 9.

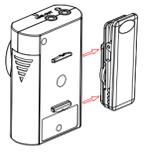
Install microphone

- Clip is mounted on the microphone before leaving factory.
- Both transmitter and receiver include clip, that means you can mount them in any place you want.
- Adjust the direction of the microphone to your mouth by rotating the Microphone.

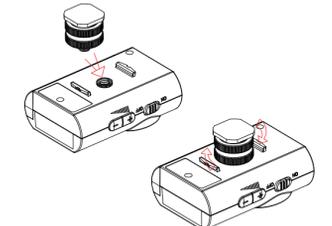


If receiver need to be mounted onto camera hot/cold shoe, please follow below steps:

- Push the clip to right side.



- Screw the shoe mount adapter to receiver as shown.
- Mounted receiver onto camera hot/cold shoe



Feature:

- Clear recording sound
- Compatible with smartphones, DSLR cameras, Consumer Camcorders, PCs etc.
- Light and compact for easy carrying
- Omnidirectional lavalier microphone
- Easy to use
- Hard case included
- standard camera shoe mount and clip included
- Up to 25m (82ft) operation range
- Power Supplied by two AA batteries

Specifications:

- RF Modulation: GFSK (Gauss frequency Shift Keying)
- Frequency band: 2.4GHz (2405-2478MHz)
- Frequency response: 35Hz-14KHz±3dB
- Signal/Noise: 76dB or more
- Distortion: 0.1% or less (32Ω, 1 KHz, 65mW output)
- RF output level: 2 mW
- Earphone output level: 32Ω, 65mW
- Reception sensitivity: -85dB +/- 3dB / 0dB=1V/Pa, 1kHz
- Audio input connector: 3.5mm mini jack
- Operation range: 25m (80ft.)
- Power requirements: 1.5V DC (One AA size battery)
- Consumption power: Transmitter: 1.5V/120 mA
Receiver: 1.5V/120 mA
- Battery life: Transmitter: Approx. 3.0 hours
Receiver: Approx. 3 hours
- Dimensions:
Transmitter: 60mm x 86mm x 28mm (W/H/D)
(2.36 x 3.3 x 1.1 inches)
Receiver: 60mm x 86mm x 41mm (W/H/D)
(2.36 x 3.3 x 1.61 inches)
- Weight:
Transmitter: 136g (4.37oz) (Without battery)
Receiver: 152g (4.89oz) (Without battery)

CAUTION

- Please use our original Audio Signal Cable which is equipped, it's more compatible with the wireless microphone, and make the sound better.
- The figure given is only the approximate value that applies when there are no obstructions between the transmitter and receiver. This distance will vary depending on metal objects, people and other obstructions and on the signal strength.
- Battery life may vary depending on the type of battery used.

IMPORTANT

- If you do not intend to use the wireless microphone for a long period time, please remove the batteries from both the transmitter and receiver.
- Do not touch the lavalier/lapel microphone, transmitter and receiver while recording, as this will cause noise to be recorded.
- Do not let the transmitter close to high-voltage equipment or to devices that emit strong electromagnetic fields, otherwise, it may cause the noise to be recorded.
- Do not use or leave the transmitter and receiver in hot, humid places.
- Do not store the receiver attached to the camera when leaving the camera in a case.
- Do not mix up to use the transmitter and receiver.

WARNING

- Keep the wireless microphone out of the reach of children.
- Never use leaking batteries and never expose batteries to excessive heat or fire.

MAINTENANCE

- Do not operate the device with wet hands or feet.
- Clean the equipment only in the way described in the instructions for use.
- Take care to prevent the equipment from dropping down. Make sure that the device is properly fastened and reliably mounted. If the device has dropped down on the floor have it inspected by a skilled electrician before you switch it on again.
- Should the equipment be damaged or defective, or if you notice a scorching smell: interrupt the electric power supply immediately by removing the batteries. Do not operate the device yourself. Have the device only repaired by a skilled electrician.
- Always keep your device in good condition, as specified in these instructions for use.
- Do not open the device.

WARNING

FCC STATEMENT :
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

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