

# BOYA

## Ultracompact 2.4GHz Dual-Channel Wireless Microphone System

2.4GHz 迷你双通道无线麦克风系统

WMic5-M1

WMic5-M2

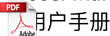
WMic5-M3

WMic5-M4

WMic5-M5

WMic5-M6

User Manual



用户手册



# Statement

Thanks for choosing BOYA!

Please read this manual carefully before using and strictly operate and store it in accordance with the instructions. Please save the manual for your future reference. If you need further assistance than the user manual, please consult your retailer for help or email us: [sales@boya-mic.com](mailto:sales@boya-mic.com)

## General Introduction

BOYA WMic5 is an incredibly lightweight, and easy-to-use wireless microphone system for up to 2 people, adopting 2.4GHz wireless transmission technology. The microphone delivers exceptional and broadcast-quality sound to DSLR, mirrorless and video cameras, smartphones, tablets, computers, etc. It is ideal for content creation, vlogging, mobile journalism, and more.

With capabilities of mute and noise cancellation, the small and light WMic5-TX transmitter has a built-in omnidirectional microphone and with 360-degrees of sound pickup. The magnetic belt clip of transmitter can be used with the magnetic nameplate (sold separately), which can be easily clipped to shirts and clothing.

The series has WMic-RX/ WMic5-RXD/ WMic5-RXU receiver to choose from, featuring selectable Mono/ Stereo output setting and supporting monitor the sound in real-time. WMic5-TX transmitter and WMic5-RX receiver of the series provide long operating life for your recordings (up to about 10 hours for TX; about 20 hours for RX). WMic5-RXD receiver features a MFi Certified Lightning output, designed for iOS devices, while WMic5-RXU receiver features a USB-C output, designed for devices with a USB-C port.

## Cautions

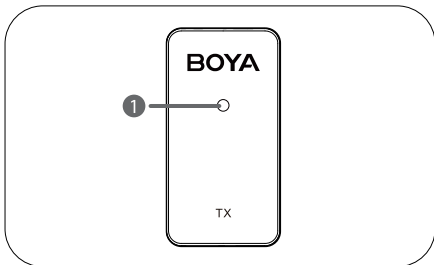
1. Disintegration of this device by non-professionals is strictly prohibited.
2. Please keep it away from heat sources such as heaters or ovens.
3. Do not remove the battery without professionals' help.
4. Please clean the device with only a soft, dry cloth.
5. When using and storing, please keep away from the dust and moisture.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

## Available Kits

Model	In the box
WMic5-M1	1 × WMic5-TX 1 × WMic5-RX
WMic5-M2	2 × WMic5-TX 1 × WMic5-RX
WMic5-M3	1 × WMic5-TX 1 × WMic5-RXD
WMic5-M4	2 × WMic5-TX 1 × WMic5-RXD
WMic5-M5	1 × WMic5-TX 1 × WMic5-RXU
WMic5-M6	2 × WMic5-TX 1 × WMic5-RXU

# Product Structure

## Wireless Transmitter WMic5-TX



### 1. Status Indicator

Mode	Indicator
Unpaired	Blinks blue slowly (per second)
Pairing	Blinks blue rapidly
Paired Successfully	Static blue light
Mute ON	Blinks red slowly (every half second)
Noise Cancellation ON	Static green light
Maximum / Minimum Gain	Blinks blue twice rapidly
Low Battery	Blinks red rapidly
Charging	Static red light
Fully Charged	Red light off, Static blue light

## 2. Power Button

Function	Operation
Power ON / OFF	Press and hold for 3 seconds
Mute ON / OFF	Press once
Pair	Press twice

## 3. +/- NR Button

- Press +/- button to adjust mic gain (totally 6 levels).

The setting is retained even after the power is turned off.

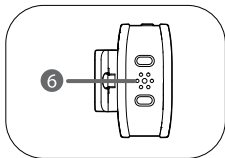
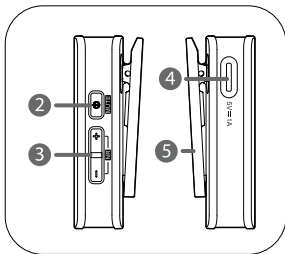
- Press and hold or continuously press "+" / "-" to adjust mic gain to maximum / minimum level, the indicator blinks blue twice rapidly.
- Press the NR button (press both "+" and "-" buttons at the same time) to turn on/off noise cancellation. Default setting is off.

## 4. USB-C Charging Port (DC 5V)

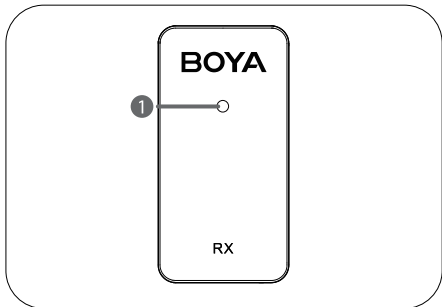
Use the included USB-C charging cable to charge the transmitter.

## 5. Magnetic Belt Clip

## 6. Built-in Microphone



## Wireless Receiver WMic5-RX



### 1. Status Indicator

Mode	Indicator
Unpaired	Blinks blue slowly (per second)
Pairing	Blinks blue rapidly
Paired Successfully	Static blue light
Mono Output Mode	Static blue light
Stereo Output Mode	Static green light
Maximum / Minimum Volume	Blinks blue twice rapidly
Low Battery	Blinks red rapidly
Charging	Static red light
Fully Charged	Red light off, Static blue light

## 2. Power Button

Function	Operation
Power ON / OFF	Press and hold for 3 seconds
Pair	Press twice

## 3. + - or M/S Button

- Press +/- button to adjust output volume (totally 6 levels). The setting is retained even after the power is turned off.
- Press and hold or continuously press "+" / "-" to adjust output volume to maximum/ minimum level, the indicator blinks blue twice rapidly.
- Press the M/S button (press both "+" and "-" buttons at the same time) to set the output mode to mono or stereo. When in mono mode, the audio from the left and right channel will be mixed. When in stereo mode, the audio from the left and right channel will be separated to the left and right of the stereo output. Default setting is mono.

## 4. Belt Clip

## 5. USB-C Charging Port (DC 5V)

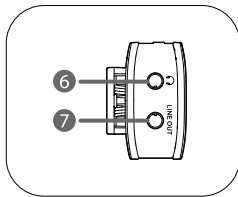
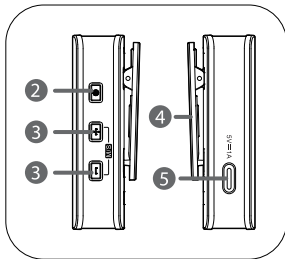
Use the included USB-C charging cable to charge the receiver.

## 6. 3.5 mm Headphone Output

Connect headphones for audio monitoring.

## 7. LINE OUT Jack

Connect the WMic5-RX to a smartphone, tablet, camera, recorder or mixer with the included output cables.



# WMic5-RXD: Compact Receiver with Lightning Connector

## 1. MFi Certified Lightning Connector

It can be connected to an iOS Lightning device.

## 2. Status Indicator

Mode	Indicator
Unpaired	Blinks blue slowly
Pairing	Blinks blue rapidly
Paired Successfully	Static blue light

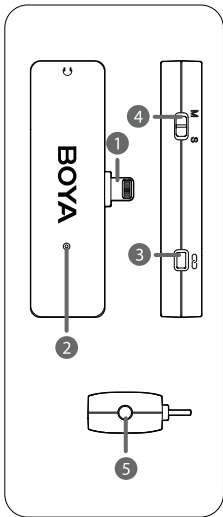
## 3. Pair Button

## 4. Mono/ Stereo Switch

The output mode can be toggled between mono and stereo. When in mono mode, the audio from the left and right channel will be mixed. When in stereo mode, the audio from the left and right channel will be separated to the left and right of the stereo output.

## 5. 3.5 mm Headphone Jack

Connect headphones for audio monitoring.



# WMic5-RXU: Compact Receiver with USB-C Connector

## 1. USB-C Connector

It can be connected to an Android smartphone, tablet or other USB-C devices.

## 2. Status Indicator

Mode	Indicator
Unpaired	Blinks blue slowly
Pairing	Blinks blue rapidly
Paired Successfully	Static blue light

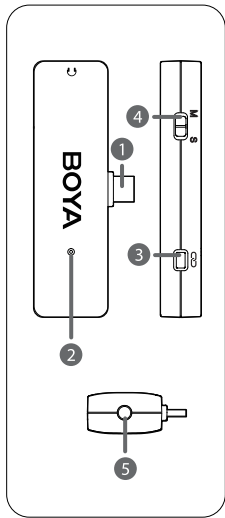
## 3. Pair Button

## 4. Mono/ Stereo Switch

The output mode can be toggled between mono and stereo. When in mono mode, the audio from the left and right channel will be mixed. When in stereo mode, the audio from the left and right channel will be separated to the left and right of the stereo output.

## 5. 3.5 mm Headphone Jack

Connect headphones for audio monitoring.



# Operation

## For the WMic5-M1 / WMic5-M2 kit

1. Press and hold the power button for 3 seconds to turn on the WMic5-TX transmitter and the WMic5-RX receiver.

### 2. Pairing

Before leaving factory, the system is pre-paired. Therefore, the connection will be established once they are powered on. If they are disconnected, please follow below steps:

① Press the TX's and RX's power button twice in the on state to enable pairing mode. The indicators of both blink blue rapidly.

② Transmitter and receiver will be successfully paired within 5 seconds. The indicators of both light up static blue.

3. Connect the receiver to the mic input of a camera, recorder or mixer with the supplied 3.5 mm TRS to TRS cable; or connect it to a smartphone, tablet, or computer with the supplied 3.5 mm TRS to TRRS cable.

4. You are ready to record.

## For the WMic5-M3 / WMic5-M4 / WMic5-M5 / WMic5-M6 kit

1. Press and hold the power button for 3 seconds to turn on the transmitter.
2. Plug the WMic5-RXD into an iOS device or the WMic5-RXU into a USB-C device.
3. Pairing

Before leaving factory, the system is pre-paired. Therefore, the connection will be established once they are powered on. If they are disconnected, please follow below steps:

- ① Press the transmitter's power button twice in the on state to enable pairing mode. Its indicator blinks blue rapidly.
  - ② Press and hold the receiver's pair button for 3 seconds to enable pairing mode. Its indicator blinks blue rapidly.
  - ③ Transmitter and receiver will be successfully paired within 5 seconds. The indicators of both light up static blue.
4. You are ready to record.



**Note:** Due to the 2.4GHz wireless frequency is widely used, the signal may be easily attenuated or interfered. Please try to avoid obstacles while using, such as walls and buildings. And keep away from the devices with 2.4GHz frequency, such as high-power Wi-Fi antennas, radios, etc.

# Specifications

## WMic5-TX Transmitter

Transmission Type	2.4GHz ISM Frequency
Modulation	GFSK
Operating Range	Up to 196 ft (60 m) (without obstacle)
RF Output Power	<10mW
Polar Pattern	Omnidirectional
Frequency Response	20Hz-20KHz
Maximum SPL	120dB SPL
Sensitivity	-39±2dB
SNR	>78dB
Power Requirements	Built-in Li-ion Battery or USB-C DC 5V
Battery Voltage / Capacity	3.7V/ 180mAh
Built-in Battery Life	Approx. 10 hours
Antenna	PIFA
Audio Input	Built-in Microphone
Weight	Approx. 14.5 g (0.5 oz)
Dimensions	45.9x23.9x15 mm
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to +60°C

## WMic5-RX Receiver

Transmission Type	2.4GHz ISM Frequency
Modulation	GFSK
Operating Range	Up to 196 ft (60 m) (without obstacle)
RF Output Power	<10mW
Power Requirements	Built-in Li-ion Battery or USB-C DC 5V
Battery Voltage / Capacity	3.7V/ 400mAh
Built-in Battery Life	Approx. 20 hours
Antenna	PIFA
Audio Output	3.5 mm Headphone Jack 3.5 mm TRS Output Jack
Weight	Approx. 32 g (1.1 oz)
Dimensions	62.1x31.6x16.5 mm
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to +60°C

## WMic5-RXD Receiver

Transmission Type	2.4GHz ISM Frequency
Modulation	GFSK
Operating Range	Up to 196 ft (60 m) (without obstacle)
RF Output Power	<10mW
Audio Output	3.5 mm Headphone Jack MFi Certified Lightning Connector
Power Requirements	Supplied by iOS Devices
Antenna	PIFA
Weight	Approx. 14.5 g (0.5 oz)
Dimensions	75.6x23.2x12 mm
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to +60°C

## WMic5-RXU Receiver

Transmission Type	2.4GHz ISM Frequency
Modulation	GFSK
Operating Range	Up to 196 ft (60 m) (without obstacle)
RF Output Power	< 10mW
Audio Output	3.5 mm Headphone Jack
	USB-C Connector
Power Requirements	Supplied by USB-C Devices
Antenna	PIFA
Weight	Approx. 14.5 g (0.5 oz)
Dimensions	75.6x23.2x12 mm
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to +60°C

## Packing List

### WMic5-M1

1× WMic5-TX Transmitter

1× WMic5-RX Receiver

2× USB-C Charging Cable

1× Fur Windshield for Built-in Microphone

1× 3.5 mm TRS to TRS Output Cable for Cameras

1× 3.5 mm TRS to TRRS Output Cable for Smartphones

### WMic5-M2

2× WMic5-TX Transmitter

1× WMic5-RX Receiver

3× USB-C Charging Cable

2× Fur Windshield for Built-in Microphone

1× 3.5 mm TRS to TRS Output Cable for Cameras

1× 3.5 mm TRS to TRRS Output Cable for Smartphones

### **WMic5-M3**

- 1× WMic5-TX Transmitter
- 1× WMic5-RXD Receiver
- 1× USB-C Charging Cable
- 1× Fur Windshield for Built-in Microphone

### **WMic5-M4**

- 2× WMic5-TX Transmitter
- 1× WMic5-RXD Receiver
- 2× USB-C Charging Cable
- 2× Fur Windshield for Built-in Microphone

### **WMic5-M5**

- 1× WMic5-TX Transmitter
- 1× WMic5-RXU Receiver
- 1× USB-C Charging Cable
- 1× Fur Windshield for Built-in Microphone

### **WMic5-M6**

- 2× WMic5-TX Transmitter
- 1× WMic5-RXU Receiver
- 2× USB-C Charging Cable
- 2× Fur Windshield for Built-in Microphone