

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

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

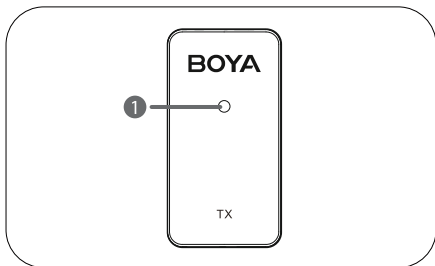
1. Disintegration of this device by non-professionals is strictly prohibited.
2. Please keep it away from heat sources such as heaters or ovens.
3. Do not remove the battery without professionals' help.
4. Please clean the device with only a soft, dry cloth.
5. When using and storing, please keep away 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

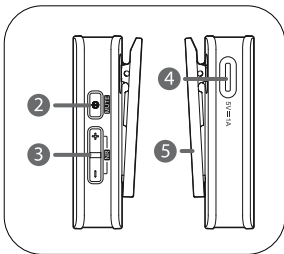


1. Status Indicator

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.

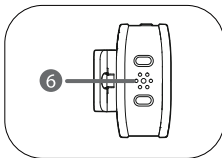
- Press and hold or continuously press "+" / "-" to adjust mic gain to maximum/ minimum level, the indicator blinks blue twice rapidly.
- Press the NR button (press both "+" and "-" buttons at the same time) to turn on/off noise cancellation. Default setting is off.

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

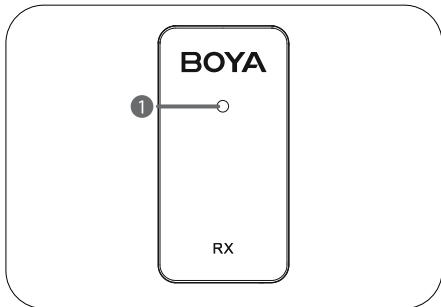
Use the included USB-C charging cable to charge the transmitter.

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)

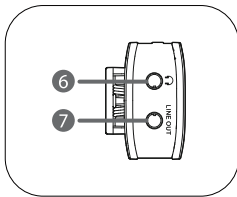
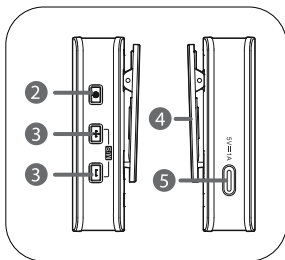
Use the included USB-C charging cable to charge the receiver.

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

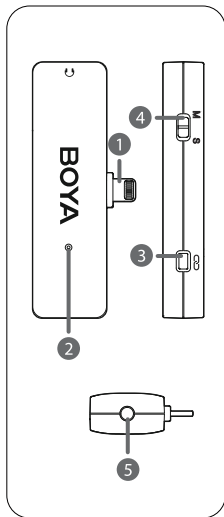
3. Pair Button

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

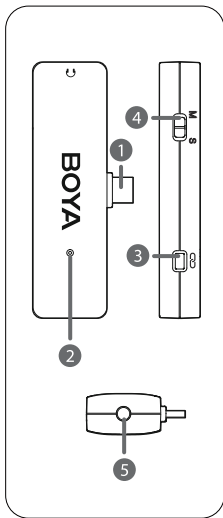
3. Pair Button

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

1× USB-A to Triple Head 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

声明

感谢您选择BOYA!

请在使用前仔细阅读本手册，并严格按照说明进行操作和存储。请妥善保存好说明书以供将来参考。如果用户手册不能帮助您解决某些问题，请向零售商寻求帮助或给我们发送电子邮件：sales@boya-mic.com

概述

博雅WMic5系统是迷你双通道无线麦克风系统，采用2.4GHz无线传输技术。产品提供出色的广播级音质，适用于单反、无反相机、摄像机、手机、平板、电脑等设备，是内容创作、Vlog拍摄、街头采访等场景的理想选择。

轻薄小巧的WMic5-TX发射器具备降噪和静音功能，内置全向型麦克风，能够360°拾音，背夹带有磁吸功能，可搭配磁吸铭牌（另售），轻松吸附在衣领上使用。

本系列有WMic5-RX、WMic5-RXD、WMic5-RXU三种接收器可供选择，可自由切换单声道和立体声模式，支持实时音频监听。其中，WMic5-TX发射器和WMic5-RX接收器内置可充电电池，为您的录音提供超长续航（TX长达约10小时，RX长达约20小时）；WMic5-RXD为通过MFi认证Lightning接收器，用于iOS系统的Lightning接口设备；WMic5-RXU为USB-C接收器，用于安卓以及其他USB-C接口设备。

注意事项

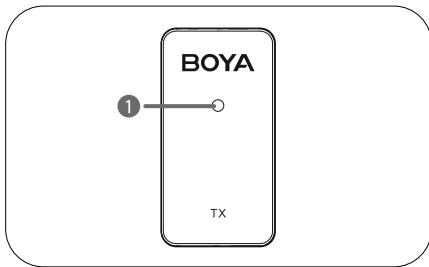
1. 请勿擅自拆开机壳；
2. 请勿将本机靠近热源，如加热器、烤箱或其他产生热量的设备；
3. 电池不可自行更换；
4. 请使用柔软的干布清洁本设备；
5. 在使用和储存时，请注意防尘和防潮。
6. 为获得最佳拾音模式，请勿将手放在麦克风咪头上。

WMic5组合套装

型号	套装内容	
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

产品结构

无线发射器WMic5-TX



1. 状态指示灯

模式	指示灯状态
未联机	蓝灯慢闪（每秒一次）
对码中	蓝灯快闪
联机成功	蓝灯常亮
静音模式开启	红灯慢闪（每0.5秒一次）
降噪模式开启	绿灯常亮
最大/最小增益	蓝灯快闪两次
低电量	红灯快闪
充电中	红灯常亮
充满电	红灯熄灭，蓝灯常亮

2. 电源键

功能	操作
开启/关闭电源	长按电源键3秒
开启/关闭静音	短按电源键
配对	双击电源键

3. + - / 降噪键

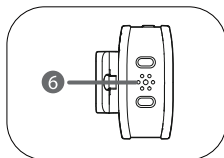
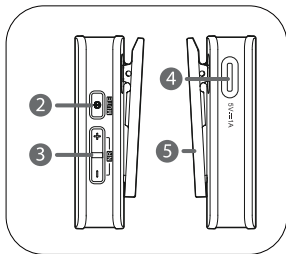
- 短按+或-键调节麦克风增益（共6档），该参数设定在电源关闭后仍保留；
- 长按或连续按“+”或“-”可将麦克风增益调节至最大/最小，指示灯呈蓝灯快速闪烁两次；
- 短按降噪键（+，-键同时按）以开启/关闭降噪功能，默认降噪功能为关闭状态。

4. USB-C充电口（直流电5V）

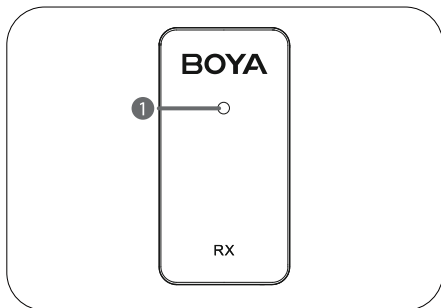
使用随附的USB-C充电线进行充电。

5. 磁吸背夹

6. 内置麦克风



无线接收器WMic5-RX

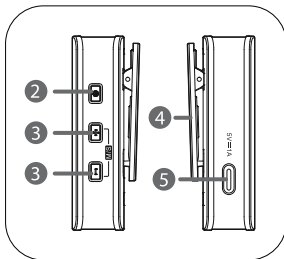


1. 状态指示灯

模式	指示灯状态
未联机	蓝灯慢闪（每秒一次）
对码中	蓝灯快闪
联机成功	蓝灯常亮
单声道输出模式	蓝灯常亮
立体声输出模式	绿灯常亮
最大/最小音量	蓝灯快闪两次
低电量	红灯快闪
充电中	红灯常亮
充满电	红灯熄灭，蓝灯常亮

2. 电源键

功能	操作
开启/关闭电源	长按电源键3秒
配对	双击电源键



3. + -键或单声道/立体声切换键

- 短按+或-键调节输出音量（共6档），该参数设定在电源关闭后仍保留；
- 长按或连续按“+”或“-”可将输出音量调节至最大/最小，指示灯呈蓝灯快速闪烁两次；
- 短按单声道/立体声切换键（+，-键同时按）设置输出模式为单声道或立体声。在单声道模式下，左右声道的音频将混合输出。在立体声模式下，左右声道的音频将独立输出。默认输出模式为单声道。

4. 背夹

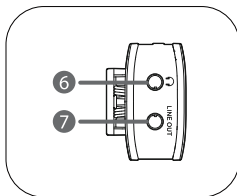
5. USB-C充电口（直流电5V）

6. 3.5 mm耳机监听孔

接入耳机进行音频监听。

7. 线性输出孔

使用相应的输出线，连接至单反相机、手机、混音器等设备。



WMic5-RXD：迷你接收器（带Lightning接口）

1. MFi认证Lightning接头

可接入带Lightning接口的iOS设备。

2. 状态指示灯

模式	指示灯状态
未联机	蓝灯慢闪
对码中	蓝灯快闪
联机成功	蓝灯常亮

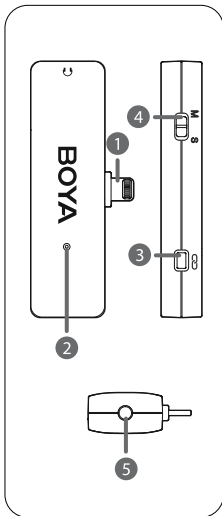
3. 对码键

4. 单声道/立体声切换键

输出模式可以设置为单声道或立体声模式。在单声道模式下，左右声道的音频将混合输出。在立体声模式下，左右声道的音频将独立输出。

5. 3.5 mm耳机插孔

接入耳机进行音频监听。



WMic5-RXU：迷你接收器（带USB-C接口）

1. USB-C接头

可接入安卓手机、平板或其他USB-C设备。

2. 状态指示灯

模式	指示灯状态
未联机	蓝灯慢闪
对码中	蓝灯快闪
联机成功	蓝灯常亮

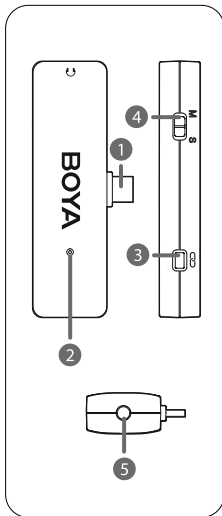
3. 对码键

4. 单声道/立体声切换键

输出模式可以设置为单声道或立体声模式。在单声道模式下，左右声道的音频将混合输出。在立体声模式下，左右声道的音频将独立输出。

5. 3.5 mm耳机插孔

接入耳机进行音频监听。



操作指南

WMic5-M1 / WMic5-M2套装：

1. 长按电源键3秒依次启动WMic5-TX发射器和WMic5-RX接收器。

2. 配对

发射器和接收器出厂前已配对成功。因此，产品开机之后会自动联机。若无成功连接，请进行如下配对操作：

①开机状态下依次双击发射器和接收器电源键以进入对码状态，其指示灯均呈蓝灯快闪；

②发射器和接收器将在5秒内完成配对，其指示灯均呈蓝灯常亮。

3. 使用随附的 3.5 mm TRS转TRS转接线将接收器连接至相机、录音笔或混音器等设备。或者使用随附的3.5 mm TRS 转TRRS 转接线将接收器连接至手机、平板电脑等移动设备。

4. 开始录制。

WMic5-M3 / WMic5-M4 / WMic5-M5 / WMic5-M6套装：

1. 长按电源键3秒启动发射器。

2. 将WMic5-RXD插入iOS设备或将WMic5-RXU插入USB-C设备。

3. 配对

发射器和接收器出厂前已配对成功。因此，产品开机之后会自动联机。若无成功连接，请进行如下配对操作：

①开机状态下双击发射器电源键以进入对码状态，其指示灯呈蓝灯快闪；

②长按接收器对码键3秒以进入对码状态，其指示灯呈蓝灯快闪；

③发射器和接收器将在5秒内完成配对，其指示灯均呈蓝灯常亮。

4. 开始录制。



注意：由于在2.4GHz频谱下，信号很容易受干扰，请尽量避开墙壁和建筑物等障碍物，避免接近2.4GHz频率的设备，如大功率Wi-Fi天线、收音机等。

参数

WMic5-TX发射器

传输方式	2.4GHz ISM频段
信号调制	高频移键控
操作距离（无障碍）	最远至60米
射频输出功率	<10mW
极性模式	全向型
频率响应	20Hz-20KHz
最大声压级	120dB SPL
灵敏度	-39±2dB
信噪比	> 78dB
供电方式	内置锂电池供电/ USB-C直流电5V
内置电池标称电压/容量	3.7V/ 180mAh
内置电池续航时间	约10小时
天线	PIFA
音频输入源	内置麦克风
重量	约14.5 g
尺寸	45.9x23.9x15 mm
工作温度	-10°C~50°C
贮存温度	-20°C~+60°C

WMic5–RX接收器

传输方式	2.4GHz ISM频段
信号调制	高频移键控
操作距离（无障碍）	最远至60米
射频输出功率	<10mW
供电方式	内置锂电池供电/ USB–C直流电5V
内置电池标称电压/容量	3.7V/ 400mAh
内置电池续航时间	约20小时
天线	PIFA
音频输出	3.5 mm耳机插孔
	3.5 mm TRS输出孔
重量	约32 g
尺寸	62.1x31.6x16.5 mm
工作温度	–10°C~50°C
贮存温度	–20°C~ +60°C

WMic5–RXD接收器

传输方式	2.4GHz ISM频段
信号调制	高频移键控
操作距离（无障碍）	最远至60米
RF输出功率	< 10mW
音频输出	3.5 mm耳机插孔
	MFi认证Lightning接头
供电方式	iOS设备供电
天线类型	PIFA
重量	约14.5 g
尺寸	75.6x23.2x12 mm
工作温度	–10°C~50°C
贮存温度	–20°C~ +60°C

WMic5-RXU接收器

传输方式	2.4GHz ISM频段
信号调制	高斯频移键控
操作距离（无障碍）	最远至60米
RF输出功率	<10mW
音频输出	3.5 mm耳机插孔
	USB-C接头
供电方式	USB-C设备供电
天线类型	PIFA
重量	约14.5 g
尺寸	75.6x23.2x12 mm
工作温度	-10°C~50°C
贮存温度	-20°C~+60°C

包装清单

WMic5-M1

- 1× WMic5-TX发射器
- 1× WMic5-RX接收器
- 2× USB-C充电线
- 1× 内置麦克风防风毛套
- 1× 3.5 mm TRS转TRS相机输出线
- 1× 3.5 mm TRS转TRRS手机输出线

WMic5-M2

- 2× WMic5-TX发射器
- 1× WMic5-RX接收器
- 1× USB-A转三接头USB-C充电线
- 2× 内置麦克风防风毛套
- 1× 3.5 mm TRS转TRS相机输出线
- 1× 3.5 mm TRS转TRRS手机输出线

WMic5-M3

- 1× WMic5-TX发射器
- 1× WMic5-RXD接收器
- 1× USB-C充电线
- 1× 内置麦克风防风毛套

WMic5-M4

- 2× WMic5-TX发射器
- 1× WMic5-RXD接收器
- 2× USB-C充电线
- 2× 内置麦克风防风毛套

WMic5-M5

- 1× WMic5-TX发射器
- 1× WMic5-RXU接收器
- 1× USB-C充电线
- 1× 内置麦克风防风毛套

WMic5-M6

- 2× WMic5-TX发射器
- 1× WMic5-RXU接收器
- 2× USB-C充电线
- 2× 内置麦克风防风毛套

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地址:广东省深圳市龙华区观澜街道大富社区硅谷动力智能终端产业园A16栋

TEL: 400 6131096

Email: sales@boya-mic.com

www.boya-mic.com / www.jiayz.com