



# 2.4 GHz Wireless Microphone

2.4GHz无线麦克风套装

BY-WM3D

BY-WM3U

INSTRUCTION MANUAL

使用说明

Thank you for purchasing BOYA!

BY-WM3 is a 2.4GHz wireless microphone system, an all-inclusive solution for making it ideal for capturing audio clearly.

It's compatible with most smartphones, tablets, DSLR cameras, consumer camcorders, PCs, etc.

The charging case can charge the transmitters and receivers anywhere for a longer working time, and it's rechargeable via a USB-C port.

Portable and lightweight body, BY-WM3 is designed for videographers, content creator, avid vlogger.

## **Packling Lists**

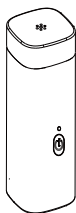
### **BY-WM3D :**

- Charging Case
- Clip-on Minature Transmitter
- Professional Compact Receiver
- MFi Certified Lightning Adapter
- 3.5mm TRS Adapter
- 3.5mm TRRS Adapter
- Foam Windshield
- Fur windscreen
- 30cm/11.8" Type-C to USB-A Charging Cable

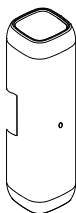
### **BY-WM3U :**

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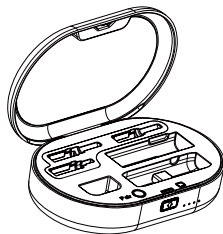
**BY-WM3D consists of one clip-on transmitter, a portable receiver, charging case and their accessories as following:**



Transmitter



Receiver



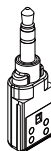
Charging Case



MFi Certified  
Lightning Adapter



TRRS Audio  
Adapter



TRS Audio  
Adapter



Type-C to USB-A  
Charging Cable

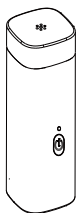


Foam Windshield

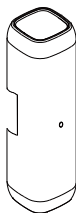


Fur windscreen

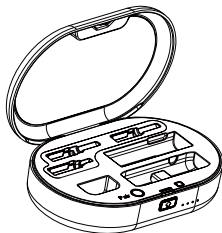
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Transmitter



Receiver



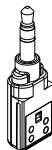
Charging Case



Type-C  
Adapter



TRRS Audio  
Adapter



TRS Audio  
Adapter



Type-C to USB-A  
Charging Cable



Foam Windshield



Fur windscreen

## Product Structure:

### BY-WM3D :

#### Transmitter

##### 1. Built-in Microphone



#### NOTE:

For optimal sound detection, do not hold your hand against the microphone head. Please refer to page 9 for more details.

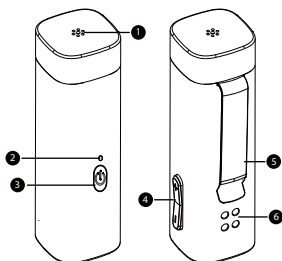
##### 2. Power&Pairing Indicator

##### 3. Power Button

##### 4. +/- Button

##### 5. Mic Clip

##### 6. Charging Contacts



#### Receiver

##### 7. Power&Pairing Indicator

##### 8. Contacts

##### 9. Power Button

##### 10. Charging Contacts

##### 11. Mfi Certificated

Lightning Adapters

- For iPhone, iPad, iPod

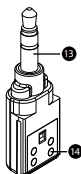
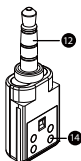
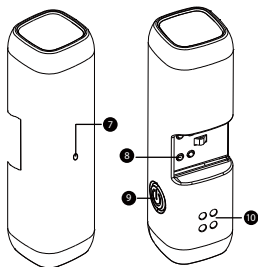
##### 12. TRRS Audio Adapters

- For smartphone, laptop, tablet and others

##### 13. TRS Audio Adapters

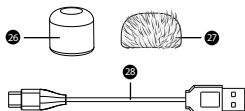
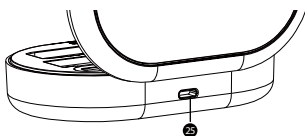
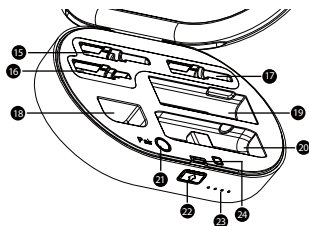
- For DSLR, camcorder, recorder

##### 14. Contacts



## Charging Case

- 15. TRS Audio Adapters' Slot
- 16. Mfi Certificated Lightning Adapters' Slot
- 17. TRRS Audio Adapters' Slot
- 18. Foam Windshield's Slot
- 19. Transmitter's Slot
- 20. Receiver's Slot
- 21. Pair Button
- 22. Open Button
- 23. Battery Capacity Indicator
- 24. Catch
- 25. Charging Port (DC 5V)
- 26. Foam Windshield
- 27. Fur windscreen
- 28. 30cm/11.8" Type-C to USB-A Charging Cable



## BY-WM3U :

### Transmitter

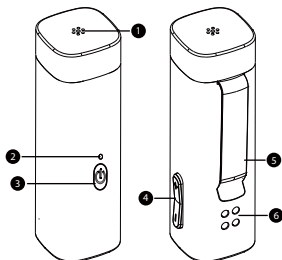
- 1. Built-in Microphone



#### NOTE:

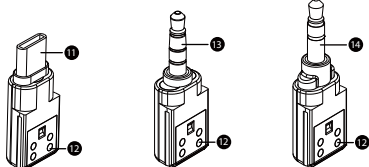
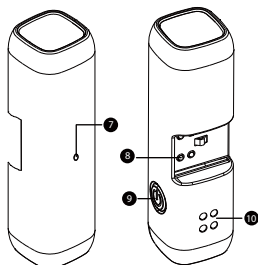
For optimal sound detection, do not hold your hand against the microphone head.

- 2. Power&Pairing Indicator
- 3. Power Button
- 4. +/- Button
- 5. Mic Clip
- 6. Charging Contacts



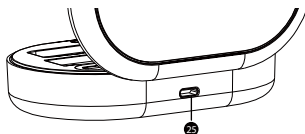
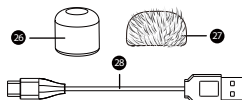
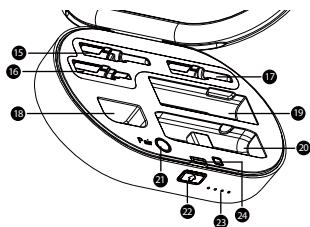
## Receiver

7. Power&Pairing Indicator
8. Contacts
9. Power Button
10. Charging Contacts
11. Type-C Adapters
12. Contacts
13. TRRS Audio Adapters
- For smartphone, laptop, tablet and others
14. TRS Audio Adapters
- For DSLR, camcorder, recorder



## Charging Case

15. TRS Audio Adapters' Slot
16. Type-C Adapters' Slot
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## Transmitter & Receivers' LED Status

Status	Operation	Indicator
Power On	1) Open the cover of case. 2) Long press the power button of transmitter and receiver until they turn on.	Lights On
Power Off	1) Long press the power button of transmitter and receiver until they turn off. 2) Put the device back to the case, and close the cover.	Lights Off
Entering Pairing Mode	Short press the power button of transmitter and receiver twice.	Quick Flashing in Blue Light
Paired Successfully	/	Solid Blue Light
Disconnected/ Out of Connection Mode	/	Slow Flashing in Blue Light
Low-battery Warning	/	Flashes Red Light
Mute On (TX Only)	Short press the power button of transmitter	Slow Flashing Red Light
Charging	/	Solid Red Light
Fully Charged		Red Lights Off

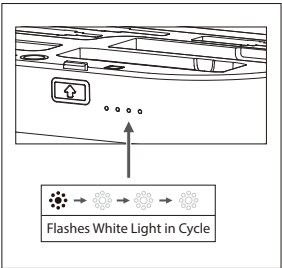
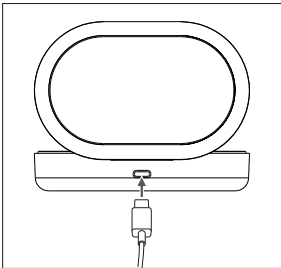
## Charging Case's LED Status Lights

Status	Indicator
Open/Closed	Current Battery's Capacity
Low-battery Warning	Flashes White Light
Charging	Flashes White Light in Cycle
Fully Charged	Lights Off

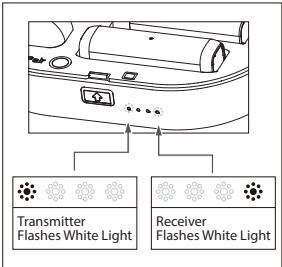
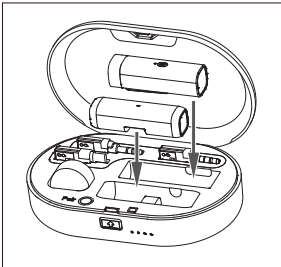
\* Please neatly placed the device in the charging case, to ensure that they can be charged.



# Charging Indicator (Charging Case)

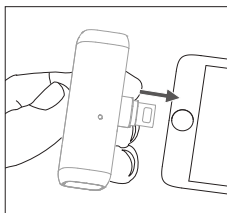
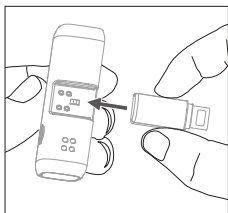


# Charging Indicator (Transmitter & Receiver Charging)

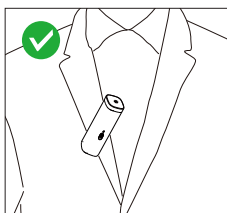
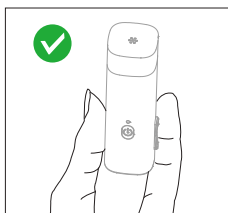


## How to use?

### Receiver



### Transmitter

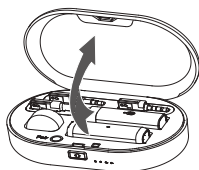


## How to pairing ?

### Pairing Transmitter and Reciver by the Charging Case

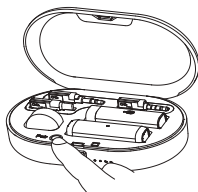
#### 1. Auto Pairing

1. Put the transmitter and receiver back to the case on the right position and direction, and close it.
2. Open the cover of the charging case again, the transmitter and receiver are powered on.
3. When they paired successfully, their indicators are in solid blue light.



#### 2. One-touch pairing

1. Open the charging case, the transmitter and receiver are powered on.
2. Long press the Pair button twice to enter into the pairing mode.
3. When they paired successfully, their indicators are solid blue.



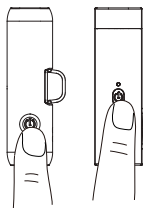
### Pairing Transmitter and Reciver by Manually Matching

#### 1. Manually matching

1. Open the charging case, the transmitter and receiver are powered on.
2. Press the Pair button twice to enter into the pairing mode.
3. When they paired successfully, their indicators are in solid blue light.

When paired successfully, please follow the steps below:

4. Select a corresponding adapter and push it into the receiver.
5. Connect the receiver to your audio devices, such as cameras, camcorders, smartphone and more.
6. You are ready to record.



## Features

- 2.4 GHz Wireless Transmission Technology
- One-touch Pairing, Fast Focus on Recording Subject
- Lightweight and Low-Profile Design
- Fast-charging with Charging Case
- Alternative Types of Adapter
- Muting Function

## Specification

Transmission Type	2.4GHz
Polar Pattern	Omnidirectional
Frequency Response	20Hz-20KHz (±3dB)
Distortion	<0.1%
Sampling Rates	48 kHz
Bit Depth	16 Bit
Signal-to-noise ratio	75db or more
Sensitivity	-42dB±3dB (1dB=1V/Pa@1kHz)
Operating Distance	20m (without obstacle)
Power Consumption	TX: 80mW RX: 60mW
RF Output Power	TX: <10mW
Working Time	TX: 4.5 hours * two times
	RX: 8 hours * two times
Charging Time	TX: 2 hours
	RX: 2 hours
	Charging Case: 2 hours
Charging Port (Charging Case)	Type-C
Battery Capacity	TX: 100mA
	RX: 100mA
	Charging Case: 1000mA
Size	Charging Case: 120*77*30.5mm (4.7*3*1.2")
	TX: 51.8*15.6*18mm (2*0.6*0.7")
	RX: 54*15.6*15.6mm (2*0.6*0.6")
Weight	TX+RX+Charging Case: 129g (4.5 oz)
	TX: 10.5g (0.37 oz) RX: 9.5g (0.33 oz)

## **CAUTION**

1. Please use our original audio adapters which are equipped, it's more compatible with the wireless microphone, and make the sound better.
2. 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.

## **IMPORTANT**

- Do not touch the 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 electrom-agnetic 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 leave the receiver attached to the camera when storing the camera in a case.

## **WARNING**

- Keep the wireless microphone out of the reach of children.

## **MAINTENANCE**

- Do not operate the device with wet hands or feet.
- 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:  
Not repair 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.

感谢您选择BOYA!

BY-WM3是一款2.4GHz无线麦克风系统，全功能解决方案，兼容智能手机、平板电脑、单反相机、消费型摄像机、个人电脑等。

它的特别之处在于，体积小巧，长续航，并且通过多种接头，能够兼容不同的设备。另外，BY-WM3配置充电盒，可为设备实现充电的同时，提供收纳功能，方便携带。

当发射器和接收器电量快耗尽时，您只需要将设备放回充电盒进行充电。1000毫安的电池容量，可通过USB-C接口进行充电。

轻便小巧使用方便，BY-WM3非常适合视频制作者、视频爱好者和视频博客爱好者等人群。

## 包装清单

### **BY-WM3D:**

- 充电盒
- 领夹式迷你型发射器
- 便携式接收器
- MFi 认证Lightning音频转接头
- 3.5mm TRS 音频转接头、
- 3.5mm TRRS音频转接头；
- 防风海绵
- 防风毛套
- 30cm Type-C 转 USB-A C充电线

### **BY-WM3U:**

- 充电盒
- 领夹式迷你型发射器
- 便携式接收器
- Type-C音频转接头
- 3.5mm TRS 音频转接头、
- 3.5mm TRRS音频转接头；
- 防风海绵
- 防风毛套
- 30cm Type-C 转 USB-A C充电线

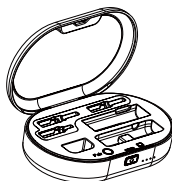
## BY-WM3D:



发射器



接收



充电盒



Lightning 转接头



TRRS 转接头



TRS 转接头



Type-C 转 USB-A 充电线



防风棉



防风毛套

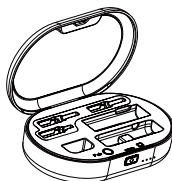
## BY-WM3U:



发射器



接收



充电盒



Type-C 转接头



TRRS 转接头



TRS 转接头



Type-C 转 USB-A 充电线



防风棉



防风毛套



## 产品结构

### BY-WM3D:

#### 发射器

##### 1. 内置麦克风



注意：为获得最佳收音效果，请勿将手覆盖在发射器顶部。

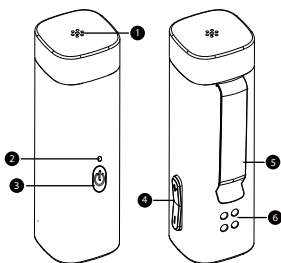
##### 2. 电源&配对指示灯

##### 3. 电源键

##### 4. +/- 按键

##### 5. 背夹

##### 6. 充电触点



#### 接收器

##### 7. 电源&配对指示灯

##### 8. 触点

##### 9. 电源键

##### 10. 充电触点

##### 11. MFi Lightning转接头

– For iPhone, iPad, iPod

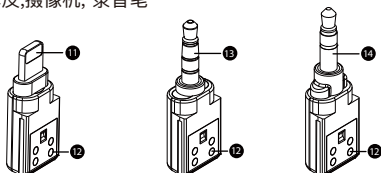
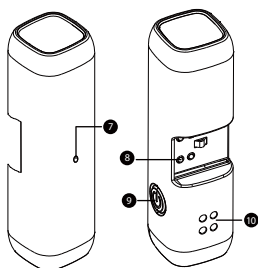
##### 12. 触点

##### 13. TRRS转接头

– 适配手机, 笔记本, 平板

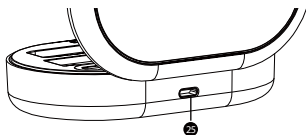
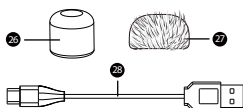
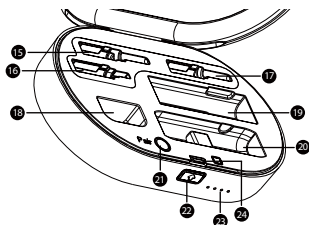
##### 14. TRS转接头

– 适配单反, 摄像机, 录音笔



## 充电盒

- 15. TRRS转接头凹槽
- 16. MFi Lightning转接头凹槽
- 17. TRS转接头凹槽
- 18. 防风棉凹槽
- 19. 发射器凹槽
- 20. 接收器凹槽
- 21. 配对键
- 22. 打开键
- 23. 电量指示灯
- 24. 卡扣
- 25. 充电口（直流电 5V）
- 26. 防风棉
- 27. 防风毛套
- 28. 30cmType-C充电线



## BY-WM3U:

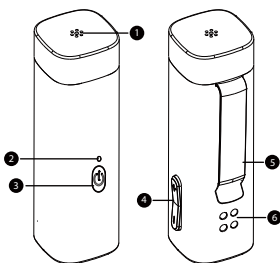
### 发射器

- 1. 内置麦克风



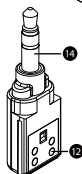
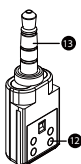
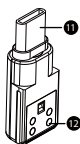
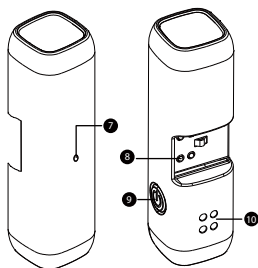
注意：为获得最佳收音效果，  
请勿将手覆盖在发射器  
顶部。

- 2. 电源&配对指示灯
- 3. 电源键
- 4. +/-按钮
- 5. 背夹
- 6. 充电触点



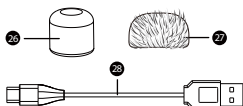
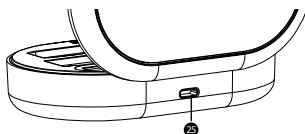
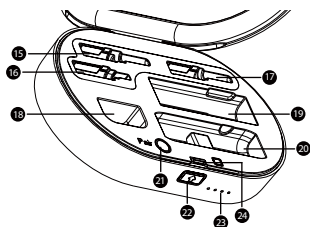
## 接收器

7. 电源&配对指示灯
  8. 触点
  9. 电源键
  10. 充电触点
  11. Type-C转接头
  12. 触点
  13. TRRS转接头
  14. TRS转接头
- 适配手机, 笔记本, 平板
- 适配单反, 摄像机, 录音笔



## 充电盒

15. TRRS转接头凹槽
16. Type-C转接头凹槽
17. TRS转接头凹槽
18. 防风棉凹槽
19. 发射器凹槽
20. 接收器凹槽
21. 配对键
22. 打开键
23. 电量指示灯
24. 卡扣
25. 充电口 (直流电 5V)
26. 防风棉
27. 防风毛套
28. 30cm Type-C 充电线



## 发射器(TX)/接收器 (RX) 指示灯说明

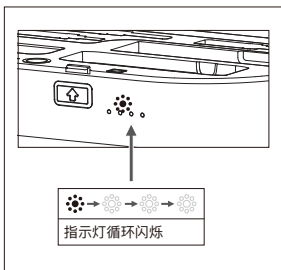
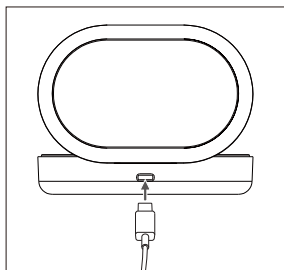
状态	操作	指示灯
开机	1) 打开充电盒上盖 2) 长按发射器和接收器电源键	蓝灯亮起
关机	1) 长按发射器和接收器电源键 直至关机 2) 放入充电盒，合上上盖	灯熄灭
进入配对模式	快速短按发射器和接收器电源键 两次	蓝灯快闪
配对成功	/	蓝灯常亮
无连接/ 超距离/ 断开连接	/	蓝灯慢闪
低电量提醒	/	红灯闪烁
静音 (只有发射器TX)	短按发射器电源键	红灯慢闪
充电状态	/	红灯常亮
充电完成		红灯熄灭

## 充电盒指示灯状态

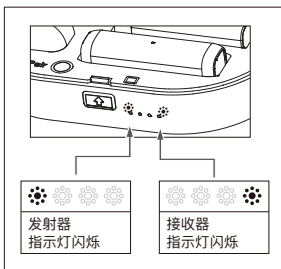
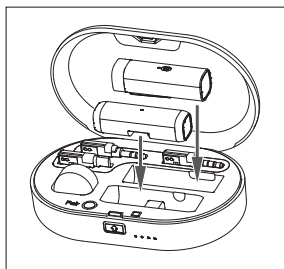
状态	指示灯
打开/关闭	显示充电盒电量
低电量提醒	白灯闪烁
充电状态 (充电盒)	白灯循环闪烁
充电完成	白灯熄灭

\* 为确保设备能进行充电状态，请确保设备完全放入充电盒

## 指示灯状态 (充电盒)

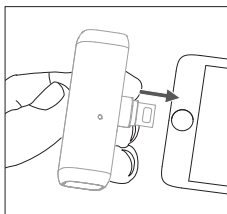
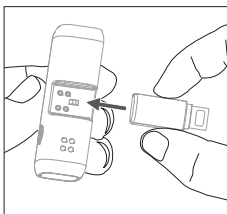


## 指示灯状态 (发射器&接收器充电)

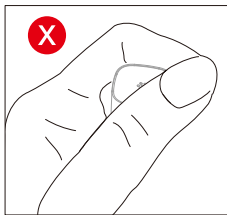
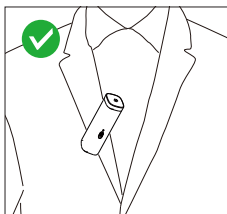
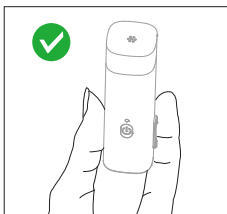


## 使用方法

### 接收器



### 发射器



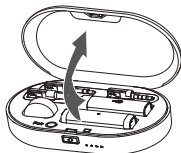
## 发射器(TX)/接收器 (RX) 指示灯说明

出厂默认配对，若设备断开或其他情况 请按下列步骤操作：

### 1. 快速配对（充电盒）

#### 1) 方式1：自动配对

1. 将发射器和接收器放入充电盒，合上上盖；
2. 重新打开充电盒盖子,自动开启接收器和接收器电源；
3. 发射器和接收器指示灯由蓝灯快闪变为蓝灯常亮表示配对成功。



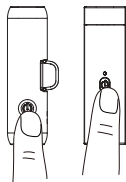
#### 2) 方式2：一键对码

1. 将发射器和接收器放入充电盒；
2. 长按充电盒上的对码键进入配对模式；
3. 发射器和接收器指示灯由蓝灯快闪变为蓝灯常亮表示配对成功。



### 2. 手动配对（单个发射器和接收器）

1. 开启接收器和接收器电源；
2. 连续短按两次发射器和接收器上的电源键，使其进入配对模式；
3. 发射器和接收器指示灯由蓝灯快闪变为蓝灯常亮表示配对成功。



完成配对后，请按以下步骤操作：

1. 选择适配的转接头，推入接收器的凹槽。
2. 将接收器插入相应设备中。
3. 准备开始录音。  
(充电状态下，请确保设备完全放入充电盒)

## 特点

- 2.4GHz信号传输技术
- 充电盒开盖开机，自动秒连
- 一键配对功能，快速复位
- 发射器一键静音，音量可调节
- 轻巧便携
- 充电盒快速充电，提升续航时间
- 配备各类型转接头，兼容手机，相机等多设备

## 参数

信号传输	2.4 GHz
拾音模式	全向型
频率响应	20Hz~20KHz ( $\pm 3\text{dB}$ )
失真	$< 0.1\%$
采样率	48kHz
位宽	16位
信噪比	$\geq 75\text{ dB}$
灵敏度	$-42\text{dB} \pm 3\text{dB}$ ( $1\text{dB}=1\text{V}/\text{Pa}@1\text{kHz}$ )
操作距离	20米（无障碍距离）
功耗	TX: 80mW    RX: 60mW
输出功率	TX: $< 10\text{mW}$
续航时间	TX: 4.5小时 x2
	RX: 8小时 x2
充电时长	TX: 2小时
	RX: 2小时
	充电盒: 2小时
充电盒接口	Type-C
产品电池容量	TX: 100mA
	RX: 100mA
	充电盒: 1000mA
尺寸	TX: 51.8*15.6*18mm
	RX: 54*15.6*15.6mm
	充电盒: 120*77*30.5mm
重量	TX+RX+充电盒: 129g
	TX: 10.5g    RX: 9.5g



## 警告

1. 请使用我们配置的原装转接头，它兼容不同类型的设备，并且能提升音质效果。
2. 提供操作范围仅是大致的参考数值，是发射器和接收器在无障碍情况下的操作距离。当遇到金属物品、人以及其它障碍时，实际操作距离会根据信号强度发生变化。

## 重要事项

- 当你录音时，请勿触碰发射器顶部及接收器。否则，噪音也将收录进去。
- 请勿将发射器靠近高压器械或设备，这将会产生强大的电磁场，并且产生噪音影响音质。
- 请勿将发射器和接收器在炎热或潮湿的环境下使用或存放。
- 当相机存放在箱子时，确保接收器已从相机上拆卸。

## 警告

- 将设备放在儿童接触不到的地方。
- 请勿使用漏电电池或将电池弃置热源或火源处。

## 保养方法

- 操作设备时请保持手的干燥。
- 务必按照说明书的方法来清洁设备。
- 保护好设备以防跌落，确保设备已安装稳固。
- 若设备发生跌落的情况，请勿马上开启设备，让专业维修人员帮您查看情况。
- 如果您闻到的灼烧的气味，可能是设备已损坏或有缺陷：
  - 当设备损坏时，请勿自行修复。
  - 设备维修只能由专业维修人员进行。
  - 请将设备放在良好的存储环境，按照说明书的指示进行使用。
  - 请勿擅自打开设备。

## 警告

FCC 声明：

该设备符合FCC第15条条款操作符合以下两种情况下。

- (1) 本设备不会发出有害的干扰。
- (2) 此设备会受到其他信号的干扰，包括可能导致意外操作的干扰。

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