



# 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, all-inclusive solution for making it ideal for capturing audio clear, intelligible audio fidelity to your smartphones, tablets, DSLR cameras, consumer camcorders, PCs etc.

What's special about it is that instead of charging the device via a cable, like devices normally do, miniature itself can neatly be placed into the inside of the charging case with a quick recharging for a longer working time. The case provides 1000mAh of charging power, and it's rechargeable via a USB-C port when it's out of power.

Easy-to-carry feature is designed for videographers, content creator, video hobbyists, avid vlogger. When you are plugged in and powered on, it's set and ready so your focus can stay on your content.

## **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 :**

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

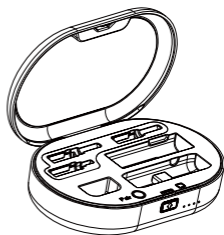
**BY-WM3D consists of one clip-on transmitter, a portable receiver, charging case and their accessories as following:**



Transmitter



Receiver



Charging Case



MFi Certified  
Lightning Adapters



TRRS Audio  
Adapters



TRS Audio  
Adapters



Type-C to USB-A  
Charging Cable



Foam Windshield



Fur windscreen

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Transmitter



Receiver



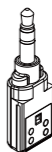
Charging Case



Type-C  
Adapters



TTRS Audio  
Adapters



TRS Audio  
Adapters



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.

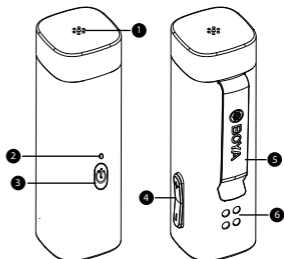
##### 2. Power&Pairing Indicator

##### 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

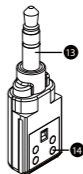
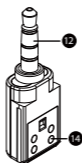
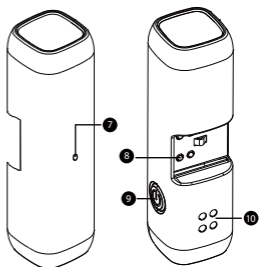
##### 12. TRRS Audio Adapters

- For smartphone, laptop, tablet and others

##### 13. TRS Audio Adapters

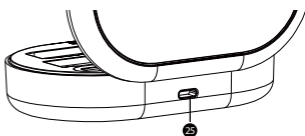
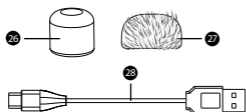
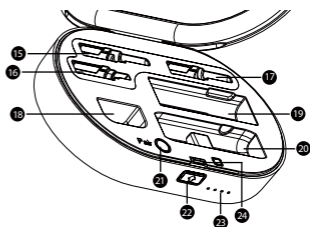
- For DSLR, camcorder, recorder

##### 14. Contacts



## Charging Case

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



## BY-WM3U :

### Transmitter

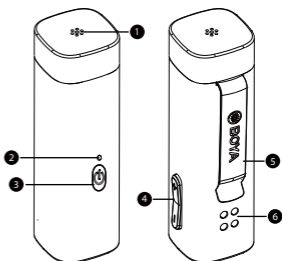
1. Built-in Microphone



#### NOTE:

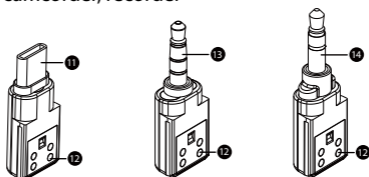
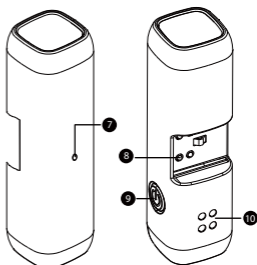
For optimal sound detection, do not hold your hand against the microphone head.

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



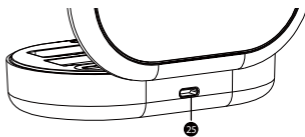
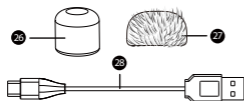
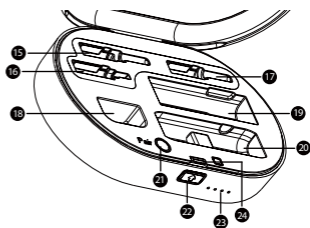
## Receiver

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. Groove for TRS Audio Adapters
16. Groove for Type-C Adapters
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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) Replace the device to the case, and close the cover. 2) Long press the power button of transmitter and receiver until they turn off.	Lights Off
Entering Pairing Mode	Quick 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

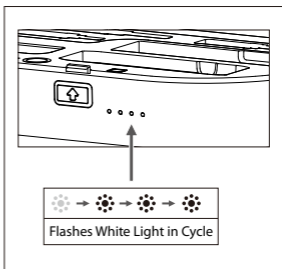
## Charging Case's LED Status Lights

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

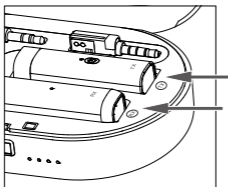
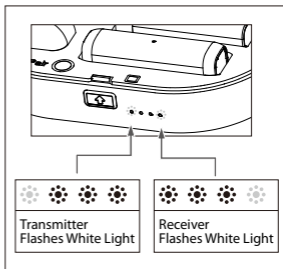
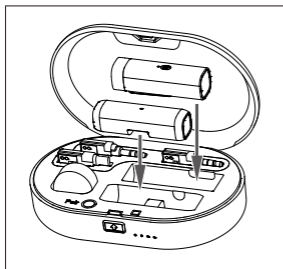
\* Please neatly placed the device in the charging case, to ensure that they can be charged.



## Charging Indicator (Charging Case)



## Charging Indicator (Transmitter & Receiver Charging)

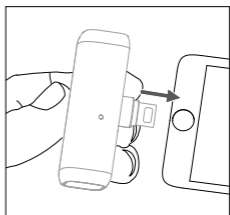
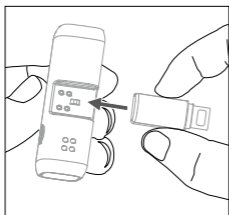


**NOTE:**

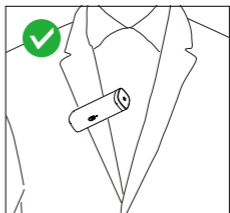
Make sure that transmitter and receiver place on the right position and direction for charging successfully as shown above

## How to use?

### Receiver



### Transmitter

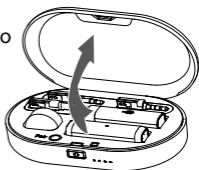


## How to pairing?

### Pairing Transmitter and Receiver by the Charging Case

#### 1. Auto Pairing

1. Replace the transmitter and receiver to the case and close it.
2. Open the cover of the charging case again, the transmitter and receiver are activated.
3. When they paired successfully, their indicators are in solid blue light.



#### 2. 1-touch pairing

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



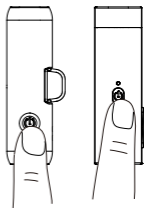
### Pairing Transmitter and Receiver by Manually Matching

#### 1. Manually matching

1. Open the charging case, the transmitter and receiver are activated.
2. Press the Pair button entering 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, Longer Continuous Time for Recording
- Alternative Types of Adapter
- Muting Function

## Specification

Transmission Type	2.4GHz
Frequency Response	20-20kHz
Distortion	<0.1%
Sampling Rates	48 kHz
Bit Depth	16 Bit
Signal-to-noise ratio	83 dB
Sensitivity	-42 dB
Operating Distance	20m (without obstacle)
Continuous Time	TX: 4.5 hrs
	RX: 9 hrs
Charging Time	TX: 2 hrs
	RX: 2 hrs
	Charging Case: 2 hrs
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	129g (4.5 oz)

## **CAUTION**

1. Please use our original audio signal cable which is 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.
3. 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 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.
- 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 with a damaged housing, do 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.

**FCC ID:2ARN3- BY-WM3**

# **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.

Any 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.

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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，可将音频捕捉到您的智能手机、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。

充电盒内置1000mAh的内置电池，可为设备提供2次的充电续航，电量耗尽时请尽快通过USB-C接口进行充电。

简单易用的操作方式，对视频制作者、视频爱好者和视频博客爱好者来说，当你插上并开启电源时，就可开始你的录音制作了。

## 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
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- 30cm Type-C 转 USB-A C充电线



## BY-WM3D:



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

## BY-WM3U:



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

## 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。

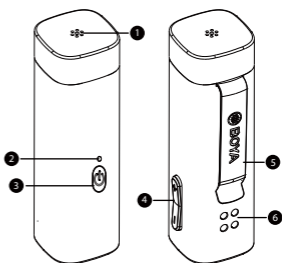
##### 2. 电源&配对指示灯

##### 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

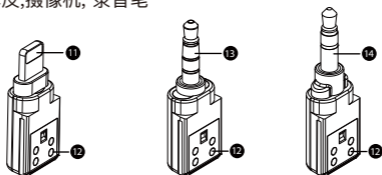
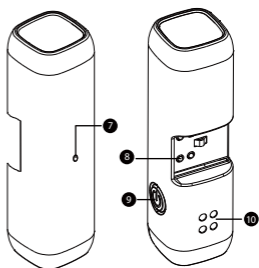
##### 12. 触点

##### 13. TRRS转接头

- 适配手机, 笔记本, 平板

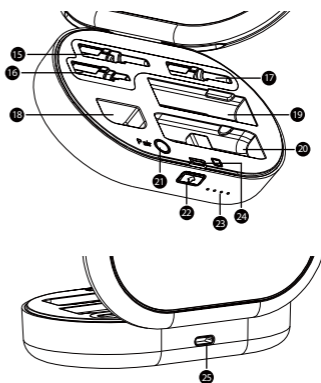
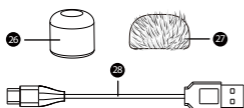
##### 14. TRS转接头

- 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:

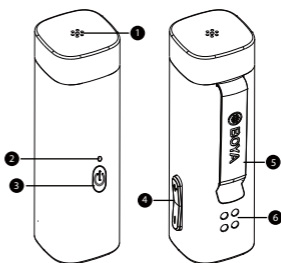
### 发射器

1. 内置麦克风



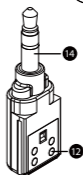
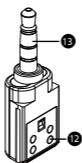
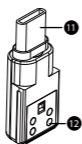
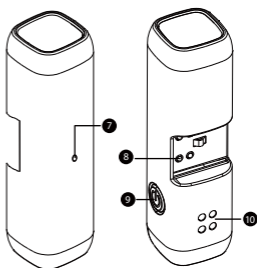
注意：为获得最佳收音效果，  
请勿将手覆盖在发射器  
顶部。

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



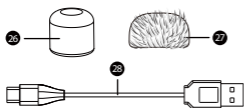
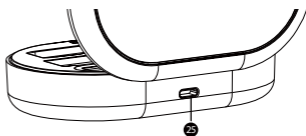
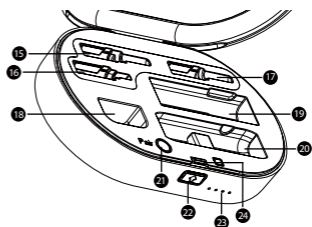
## 接收器

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. TRRS转接头
15. TRRS转接头
16. Type-C转接头
17. TRS转接头
18. 防风棉
19. 发射器
20. 接收器
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



## 充电盒

15. TRRS转接头
16. Type-C转接头
17. TRS转接头
18. 防风棉
19. 发射器
20. 接收器
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

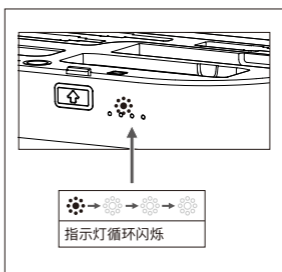
状态	操作	指示灯
开机	1) 打开充电盒上盖 2) 长按发射器和接收器电源键	蓝灯亮起
关机	1) 放入充电盒，合上上盖 2) 长按发射器和接收器电源键 直至关机	灯熄灭
进入配对模式	快速短按发射器和接收器电源键 两次	蓝灯快闪
配对成功	/	蓝灯常亮
无连接/ 超距离/ 断开连接	/	蓝灯慢闪
低电量提醒	/	红灯闪烁
静音 (只有发射器TX)	短按发射器电源键	红灯慢闪
充电状态	/	红灯常亮
充电完成		红灯熄灭

## 充电盒指示灯状态

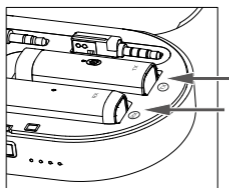
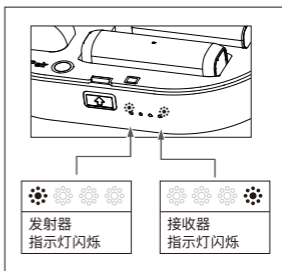
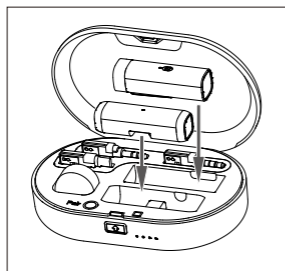
状态	指示灯
打开/关闭	显示充电盒电量
低电量提醒	白灯闪烁
充电状态 (充电盒)	白灯循环闪烁
充电完成	白灯熄灭

\* 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)



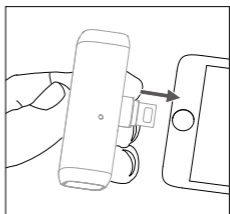
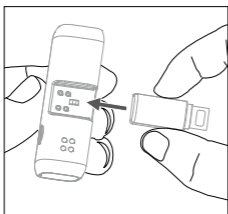
## 指示灯状态 (发射器&接收器充电)



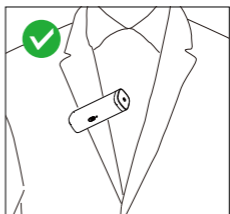
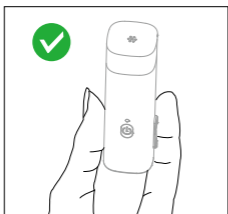
**注意：**  
请确保发射机和接收机摆放方向正确，以便充电成功

## 使用方法

### 接收器



### 发射器



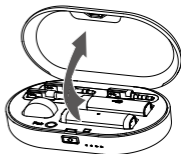
## 发射器(TX)/接收器 (RX) 指示灯说明

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。



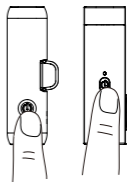
#### 2) 方式2: 一键对码

1. 将发射器和接收器放入充电盒;
2. 双击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
频率响应	20-20kHz
失真	<0.1%
采样率	48kHz
位宽	16位
信噪比	83dB
灵敏度	-42dB
操作距离	20米（无障碍距离）
续航时间	TX: 4.5小时
	RX: 9小时
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
充电盒重量（含产品）	129g

## 警告

1. 请使用我们配置的原装音频线，它兼容多种类型的无线麦克风，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。
3. 电池寿命视电池使用情况而定。

## 重要事项

- 如果您长期不使用麦克风，请移除发射器和接收器里的电池。
- 当你录音时，请勿触碰领夹麦、发射器及接收器。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。
- 请勿混用发射器和接收器。

## 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。
- 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，让专业维修人员帮你查看情况。
- 如果您闻到的灼烧的气味，可能是设备已损坏或有缺陷：
- 应马上切断电源供应，移除电池。
- 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。

## 警告

未经遵守我方明确批准的变更或修改可能会使用户丧失操作设备的权力。  
提示：

该设备已经过测试，根据FCC第15条条款，符合B级数字设备标准。

这些限制是为了住宅装置提供合理的保护，防止有害干扰。

这种设备能适用于各种用途并能发射无线电频率，若不按操作手册使用，可能对无线通信造成有害干扰。但也不能保证在特定安装中不会发生干扰。如果这种设备确实干扰到收音机或电视机的信号接收，可以通过关闭和打开设备来判断，建议用户尽量采取下列一项或多项措施纠正干扰：

重新旋转或安装接收天线。

增加设备和接收器之间的距离。

请将设备连接至除接收器相连电路以外的外接电路插座。

向经销商或有经验的广播、电视技术人员寻求帮助。

## RF警告申明：

该设备已进行测试，满足一般射频的使用要求，可在外可以无限制条件下使用。

[www.boya-mic.com](http://www.boya-mic.com)

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