



**BY-WM2G**  
Wireless Microphone  
无线麦克风

# Instruction Manual

Thank you for choosing Boya BY-WM2G.

Boya BY-WM2G is a compact wireless microphone, designed for DSLR cameras, smartphones, GoPro Hero 4, 3, etc.

## Safety information



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

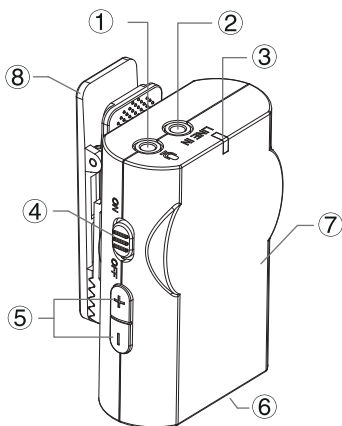
1. Please read these instructions for use thoroughly before you use this new equipment for the first time. It contains everything you need to know in order to avoid damage to persons or property.
2. Heed all warnings and follow all instructions.
3. Do not use this microphone near water and clean only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

5. 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.
6. To protect the device from damage or malfunction, do not expose this device to rain, moisture, or excessive humidity.
7. Batteries should not be exposed to excessive heat, such as direct sunlight, fire, or being left in a hot car.
8. 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
- 3.5mm to 10 PIN USB audio output cable
- Cold-shoe mount
- Hard case
- User Guide

# Transmitter



## 1. Microphone Input

- Connect the supplied lavalier microphone here.
- Fully insert the microphone's 3.5mm plug and make sure it clicks into place.

## 2. Line In

## 3. Power LED

- 1) The power LED flashes blue when the unit is on.
- 2) The power LED glows red when power is low.

For more details about LED indicator, please refer to the 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	

#### **4. Power OFF/ON**

#### **5. Button +/-**

This button is for setting the connection signal.  
For details, please see "How to connect transmitter and receiver" from page 8-page 11.

#### **6. Antenna**



Please don't touch here during using, otherwise, it will affect the signal.

#### **7. Battery compartment**

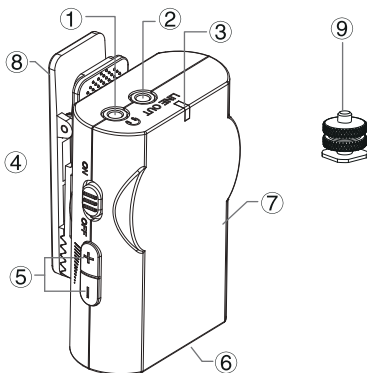
Accommodates one AA battery.

For more details, please see "Installing batteries" on page 8.

#### **8. Clip**

For more details, please see "Installing or uninstalling clip" on page 13.

## Receiver



### 1. Earphone Jack

(3.5mm diameter stereo mini jack)

To monitor the receiver output, connect the headphones to this connector.

### 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.

### 2. LINE OUT (audio output) Jack

- For using Gopro, connect one end 90°plug of the supplied TRS stereo 3.5mm mini output cable here, and the other 10 pin plug to the Gopro.

If you want to connect with mobile devices (smartphones / tablets) or DSLR cameras, we have 2 other different cables included.

### **3. Power LED**

For more details, please see "Power LED" on page 4.

### **4. Power OFF/ON**

### **5. Volume +/-**

Press these buttons to set the attenuation level of the input signal.

### **6. Antenna**



Please don't touch here during using, otherwise, it will affect the signal.

### **7. Battery compartment**

Accommodates one AA battery.

For more details, please see "Installing batteries" on page 8.

### **8. Clip**

For more details, please see "Installing or uninstalling clip" on page 13.

### **9. Shoe Mount Adapter**



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.

## What's difference?

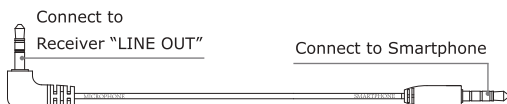
### ① 3.5 mm TRS connector

-For cameras, camcorders, audio recorders and other audio/video recording devices.

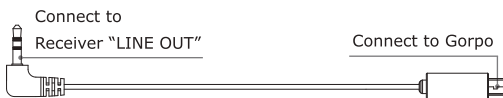


### ② 3.5 mm TRRS connector

-For Smartphone, tablet or Mac



### ③ 3.5mm to 10 PIN USB Audio Output Cable

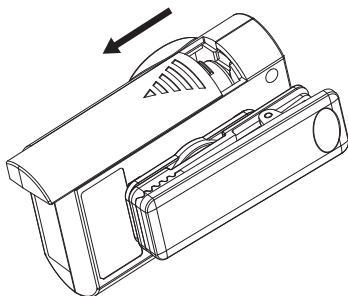




## How to use it

### Insert batteries in the transmitter and receiver units

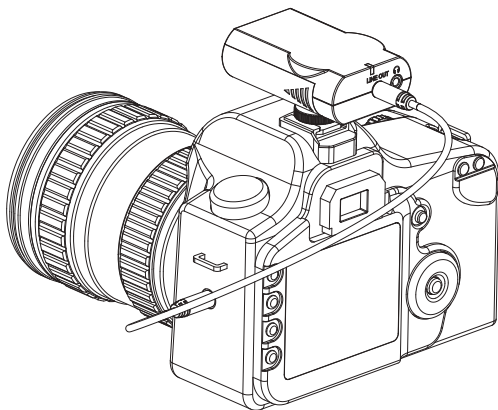
1. Both transmitter and receiver requires one AA size battery.
2. Slide and remove the transmitter's battery compartment cover.
3. Insert one battery.
4. Close the battery compartment cover.
5. Repeat steps 2 to 4 to insert battery into receiver.




### Connecting the transmitter and receiver

## Receiver connect to the camera

1. Mount receiver to cameras, camcorders, audio recorders and other audio/video recording devices.
2. Using TRS cable, plug the 3.5 mm connector into the audio jack of your camera.
3. Insert the other end of the connecting cable into the receiver "LINE OUT" jack.
4. Insert earphone into receiver "🎧" for monitoring sound.



## Transmitter

1. Insert the lavalier/lapel microphone into transmitter "  ".
2. Slide the power ON/OFF switch to the ON position (the LED indicator will turn blue)
3. Use the belt clip on the back to attach to 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 the factory, the wireless connection of the transmitter and receiver will be have been established.

If transmitter and receiver disconnect, please follow below steps:

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

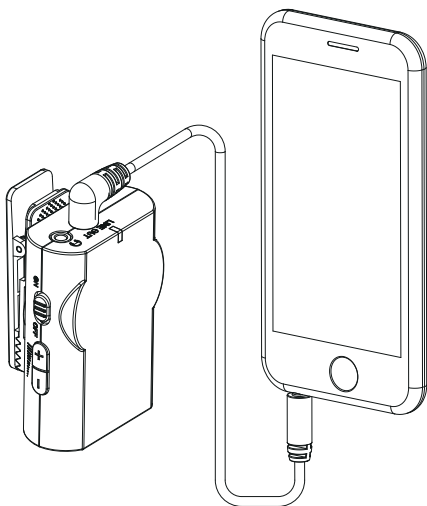
If the LED light of both the transmitter and receiver flashes blue, the connection was successful.

Otherwise, repeat steps 1-3.

## Receiver connect to the smartphone

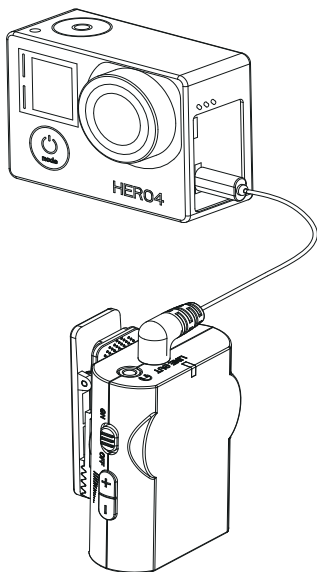
1. Mount the receiver to the smartphone.
2. Using 3.5mm to TRRS cable, plug the TRRS connector into the audio jacket of your smartphone.
3. Insert the other end of the connector into the receiver "line out" jacket.
4. Insert the earphone into receiver "🎧" for monitoring sound.
5. Slider the power ON/OFF 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 7"



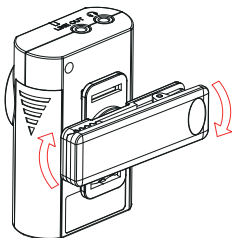
## Receiver connect to the Gopro

1. Mount receiver to Gopro.
2. Use the 3.5mm to 10 pin cable, plug the 10 PIN USB connector into the audio jack of your Gopro.
3. Insert the 90° plug of the connecting cable into the receiver "LINE OUT" jack.
4. Insert earphone into receiver "🎧" for monitoring sound.
5. Slide the power ON/OFF switch to the ON position (the LED indicator will turn blue)



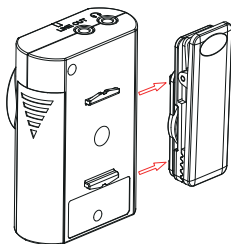
## Installing or uninstalling clip

1. Clip is mounted on the microphone before leaving factory.
2. Both transmitter and receiver include clip, that means you can mount them in any place you want.
3. You can adjust the direction of the microphone by rotating the clip.

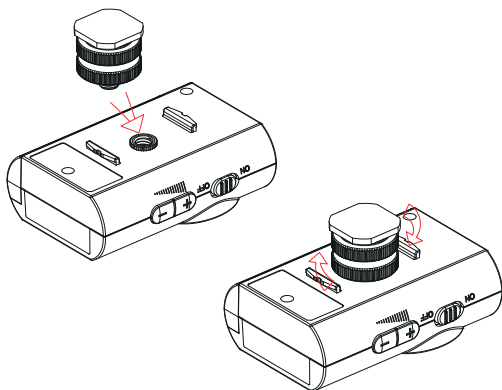


If the receiver needs to be mounted onto a camera hot/cold shoe, please follow below steps:

1. Push the clip to the right side.



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



## Features:

- Clear sound recording
- Compatible with DSLR cameras, smartphones, Gopro Hero 4, 3 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 15m (49ft) operation range
- Power Supplied by two AA batteries

Cautioun:Hero 6&5 need a Pro 3.5mm Mic Adapter (not include)

## Specifications:

RF Modulation:	GFSK (Gauss frequency Shift Keying)
Frequency band:	2.4GHz (2405-2478MHz)
Frequency response:	35Hz-14KHz $\pm$ 3dB
Signal/Noise:	76dB or more
Distortion:	0.1% or less (32 $\Omega$ ,1 KHz,65mW output)
RF output level:	2 mW
Earphone output level:	32 $\Omega$ ,65mW
Reception sensitivity:	-85dB +/- 3dB / 0dB=1V/Pa, 1kHz
Audio input connector:	3.5mm mini jack
Operation range:	15m (49ft)
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 x28mm (W/H/D) (2.36 x 3.3 x 1.1 inches) Receiver: 60mm x 86mm x41mm (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

- 1.Please only use our original Audio Signal Cable which is included.
- 2.The operation range 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. You can adjust the direction of the microphone to your mouth by rotating the clip



## **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 get close to high-voltage equipment or to devices that emit strong electromagnetic fields, otherwise, it may cause distortion.
- 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 the use of 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 .
- 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.

## **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.

感谢您选择BOYA!

BOYA BY-WM2G是一款性价比高、轻便简约的麦克风, 专门为摄影爱好者和摄影师设计, BY-WM2G是新一代2.4GHz无线麦克风, 双通道用于双主体拾音, 可以用于智能手机、单反相机、Gopro Hero 4, 3, 等等。

## 注意标志



凡带有这个标志的内容, 是使用者应该引起重视的部分, 否则会因为操作不当引起产品损伤或造成损失。

## 声明

请在使用前仔细阅读使用手册, 并按照手册严格操作。

请妥善保存本手册以供将来参考。如果使用手册不能解决您的问题, 请向您的零售商寻求帮助, 或发送电子邮件给我们: [guoneiyewu02@jiayz.com](mailto:guoneiyewu02@jiayz.com)  
[yang.zhongqing@jiayz.com](mailto:yang.zhongqing@jiayz.com)

## 注意事项

1. 请不要在水下或雨中使用, 并将产品储存在阴凉, 干燥的地方。
2. 请在常温下保存. 请不要在极端条件下使用, 请远离热源, 如加热器和烤箱。
3. 在使用和存储过程中, 请注意避免灰尘和湿气。
4. 为了获得最佳拾音效果, 请不要遮盖咪头。
5. 如果长时间不使用, 请将电池取出

## 包装清单

- 发射器
- 接收器
- 领夹麦克风
- 3.5 mm的TRS转TRS音频输出线
- 3.5mm的TRS转TRRS音频输出线
- 3.5毫米转10 PIN USB音频输出线
- 冷靴座
- 彩盒包装
- 说明书

# 发射器

## 1. 麦克风接口

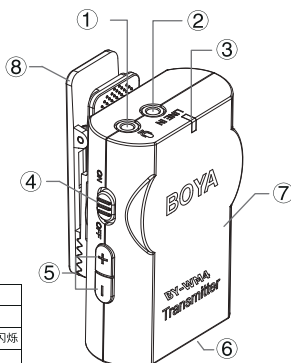
- 插入提供的领夹麦克风。
- 确保麦克风3.5 mm的插头完全插入到位。

## 2. Line In 输入接口

## 3. LED指示灯

- 1) 当发射器打开时，电源LED指示灯闪蓝光。  
电池电量不足时，LED指示灯闪红光。  
有关LED指示灯的详情，请参阅如下：

状态	接收器	发射器
开机状态	快速闪烁	
连接成功	每2.5秒一次的频率缓慢地闪烁	
接收器关闭（发射器仍开机）	关闭	快速闪烁
发射器关闭（接收器仍开机）	快速闪烁	关闭
电池电量不足	闪烁红灯	



## 4.关闭/开启

## 5.按钮+ /-

- 1) 音量+/- 按钮，用于加减音量
- 2) 这两个按钮同时按下用于连接信号

有关详细信息，请参见第13页的“如何连接发射器”和“接收器”

## 6.天线



在使用过程中请勿触摸天线，否则容易干扰信号。

## 7.电池舱

可容纳一节AA电池。

欲了解更多详情，请参阅第9页的“安装电池”


## 8.夹子

了解更多详情，请参阅13页的“安装或卸载“夹子”。

## 接收器

### 1. 耳机插孔

(3.5mm立体声耳机插孔)

要监听接收器输出音频，请将耳机插入到这个接收器的“”接口

注：

不要连接单声道耳机进行监听，这可能导致耳机短路，输出时导致声音输出失真。

### 2. LINE OUT（音频输出）连接

– 适用于智能手机、电脑或平板电脑  
连接接收器一端（90°插头）

TRRS 3.5mm输出插头与智能手机连接的另一端（直插头）

– 相机、摄像机、录音机和其他音频/视频记录设备。

接收器连接两端都是TRS 3.5mm接口（直插头）其中一端连接接收器的“LINE OUT”另一端连接相机。

### 3. LED指示灯

了解更多详情，请参阅第3页的“LED指示灯”。

### 4. 关闭/开启

### 5. 按钮+ /-

1) 音量+/-A按钮，用于加减音量

2) 这两个按钮同时按下用于连接信号

有关详细信息，请参见第11页的“如何连接发射器”和接收器“

### 6. 天线

在使用过程中请勿触摸，否则容易干扰信号。

### 7. 电池舱

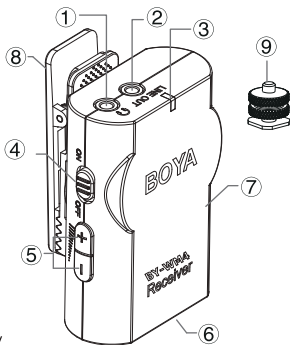
可容纳一节AA电池。

欲了解更多详情，请参阅第7页的“安装电池”

### 8. 夹子

了解更多详情，请参阅13页的“安装或卸载“夹子”

### 9. 冷靴座



## 区别在哪

### ① 3.5毫米TRRS连接线

—用于智能手机、电脑或平板电脑



### ② 3.5毫米TRS连接线

— 照相机，摄像机，录音机和其他音频/视频录制设备。



### ③ 3.5毫米转10 PIN USB音频输出线



### 有关电池的注意事项：

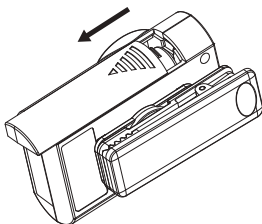
安装方式不对会导致电池渗漏或者爆炸，必须遵循以下几点：

- 请确保电池极性放置方向是正确的
- 更换电池最好是两节一起替换
- 请勿使用不同品牌的电池作为组合或者一节新电池，一节旧电池这样的组合
- 长时间不使用设备的时候，记得取出电池仓内的电池，以免电池渗漏之后影响设备；如果存在电池渗漏了请及时清除设备以及零部件内的渗漏物。

## 如何使用它？

### 在发射器中装入电池

1. 发射器和接收器都需要一个AA级电池。
2. 滑动和拆卸发射器的电池室盖。
3. 如图所示，插入一个电池。
4. 如图所示，关闭电池室盖。
5. 和第2步到4步一样插入电池到接收器。



### 连接发射器和接收器

将3.5毫米音频输出线插入接收机和智能手机，平板电脑，电脑、相机或摄像机的音频接口

## 发射器

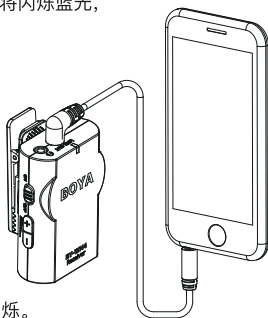
发射器的设置：

1. 装上电池，将电源开/关键切换到ON位置（LED指示灯闪烁蓝光）
2. 将领夹麦克风插入发射器“🎤”
3. 发射器的后面有夹子，可以把发射器夹到皮带上，或可以把发射器放进口袋里。
4. 如果发射器和接收器正常连接指示灯将闪烁蓝光，并以每2.5秒一次的频率缓慢地闪烁。

## 接收器

当麦克风用于智能手机，平板电脑或电脑时，接收器的设置：


1. 装上电池，将电源开/关键切换到ON位置（LED指示灯闪烁蓝光）
2. 所示，将耳机插入接收器“🎧”用于监控声音，确保机器已对上频道，正常连接指示灯将闪烁蓝光，并以每2.5秒一次的频率缓慢地闪烁。否则，指示灯就会快速闪烁。
3. 插入智能手机时，直线插头插入手机音频插孔，90°的插头插入接收器“LINE OUT”接口。
4. 将接收器安装到智能手机、平板电脑或Mac电脑上。

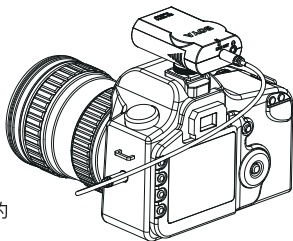





## 接收器

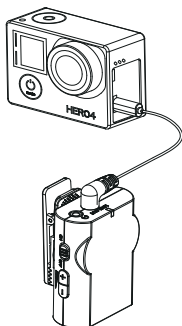
当麦克风用于相机、摄像机时，接收器的设置：

1. 装上电池，将电源开/关键切换到ON位置（LED指示灯闪烁蓝光）
2. 所示，将耳机插入接收器“”用于监控声音，确保机器已对上频道，正常连接指示灯将闪烁蓝光，并以每2.5秒一次的频率缓慢地闪烁。否则，指示灯就会快速闪烁。
3. 插入相机、摄像机时，两头都是3.5毫米TRS直插头，一端连接接收器“LINE OUT”接口，另一端连接相机、摄像机音频接口。
4. 将接收器安装到相机或者摄像机上。



## Gopro相机连接接收器

1. 使用3.5毫米转10 PIN USB音频输出线，将10 PIN USB一端连接Gopro相机
2. 将90°的插头一端，插入接收器“LINE OUT”孔
3. 将耳机插入“”孔，监听音频录制情况
4. 将开关拨至ON档位，电源指示灯状态为蓝灯常亮

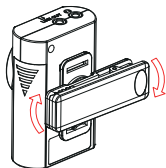


## 发射机

如何设置发射器，请参考“发射器”部分11页。

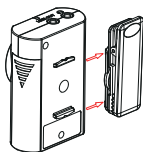
### 安装

1. 出厂之前夹子会安装在麦克风上。
2. 发射器和接收器都配备夹子，这意味着你可以在任何你想要的地方安装它们。
3. 如图所示，通过旋转麦克风可以调整麦克风的夹子角度



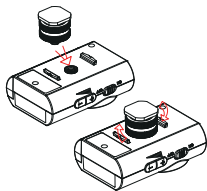
如果接收器需要安装在相机上热/冷靴座上，请按以下步骤操作：

1. 把夹子推到右边



2. 如图所示，将冷靴座适配器拧紧到接收器

3. 如图所示，安装在摄像机的热/冷靴座上。



## 注意事项

1. 电池电量不足时，LED指示灯闪红光，此时应及时更换电池。
2. 2.4GHZ 无线跳频技术，信号容易衰减。在使用此产品时要注意两大项，一是障碍物，二是尽量避开所有2.4GHZ 信号的设备 包括大功率WIFI、手机、收音机等。
3. BY-WM2G发射器和接收器的天线设计机器在的底部，在使用过程中请勿触摸天线，否则容易干扰信号。
4. 不要连接单声道耳机进行监听，这可能导致耳机短路，输出时，导致声音输出失真。

## 重点提示

- 如果您长时间不使用无线麦克风，请取出发射器和接收器的电池。
- 不要在炎热或潮湿的地方使用或放置无线麦克风
- 照相机存放在箱子里时，请勿将接收器装在照相机上。
- 不要混淆使用发射器和接收器。

## 警告

- 请将无线麦克风放置于儿童无法触及的位置，以免损坏。
- 禁止使用漏电池，这会导致电池过热或起火。

产品特点:

- 音质清晰真实，降噪功能强
- 适用广泛，可用于智能手机、单反相机、Gopro Hero 4, 3, 等等
- 轻巧便于携带
- 全向性麦克风
- 易于使用
- 配有防潮外箱
- 配备标准相机冷靴座和夹子
- 有效操作距离15米
- 由两节AA电池供电

产品参数

调制模式:	GFSK(高斯频移键控)
频率范围:	2.4GHz(2405–2478MHz)
频率响应:	35Hz–14KHz±3dB
信噪比:	76dB以上
失真比:	0.1%以下(32欧姆, 1kHz, 65毫瓦输出)
射频输出电平:	2毫瓦
耳机输出电平:	32欧姆, 65毫瓦
接收灵敏度:	–85dB+/-3dB/0dB=1V/Pa,1kHz
音频输入接口:	3.5毫米接口
通讯距离:	25米
电源要求:	1.5伏DC(1个AAA/5号电池)
消耗功率:	发射器: 1.5伏/120毫安
	接收器: 1.5伏/120毫安
电池续航:	约3小时
尺寸:	发射器: 60mm×86mm x28mm (W / H / d)
	接收器: 60mm×86mm x41mm (W / H / d)
重量:	发射器: 136g (不含电池)
	接收器: 152g (不含电池)

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

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深圳市长丰影像器材有限公司

地址:深圳市观澜街道草阁大富路智能终端产业园A16栋

TEL: 400 6131096

Email: [sales@boya-mic.com](mailto:sales@boya-mic.com)

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