

# BOYA



## 2.4 GHz Ultra-Mini Wireless Microphone

2.4 GHz 迷你无线麦克风系统

### BOYA mini

User Manual  
用户手册

## Statement

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

## Cautions

1. Non-professionals are strictly prohibited from disassembling this unit on their own.
2. Please keep it away from heat sources such as radiators or spotlights.
3. Do not remove the battery without professionals' help.
4. Please clean the unit with only a soft, dry cloth.
5. When using and storing, please keep away from dust and moisture.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

## General Introduction

The BOYA mini, a 2.4 GHz Ultra-Mini Wireless Microphone system, features automatic re-connection and selectable noise reduction that offer remarkable flexibility for recording. It adopts specific AI algorithms for changing your voice in real time to provide a highly pleasurable listening experience. With ease of operation, the microphone system is compatible with smartphones, tablets, computers, and more. The BOYA mini is ideal for content creation, live streaming, vlogging, mobile journalism, and much more.

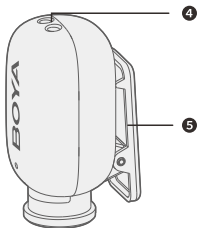
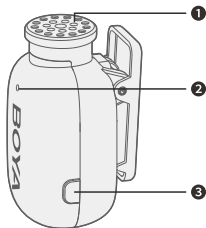
BOYA mini offers multiple configurations with three kinds of receiver options that support USB-C, Lightning, and 3.5 mm TRS outputs, making it widely compatible with smartphones, computers, cameras.

## Features

- Transmitter as lightweight as 5 g
- 3-grade AI noise cancellation
- Delivers CD-quality sound
- Wireless connection & plug and play
- Provides a reliable transmission range up to 100 m
- Playback via device speaker without unplugging receiver
- USB-C/Lightning version: equipped with a portable charging case to record 30 hours; Camera version: equipped with a portable charging case to record 24 hours

## Product Structure

### Transmitter (BOYA mini-TX)



**1** In-built Condenser Microphone

**2** Indicator

Status	Indicator
Unpaired	Blinking blue
Pairing	Blinking blue quickly (5 minutes)
Paired successfully	Static blue
Disconnected (beyond operating range)	Blinking blue
Re-connected (within operating range)	Static blue
Noise reduction enabled	Static green
Low battery	Blinking red (per second)
Charging	Static red
Fully charged	Red light off

**Note:**

- The transmitter(s) will automatically power off after 10 minutes if unpaired.
- If multiple functions are activated on the transmitter(s), its indicator will only illuminate for one feature. The indicator is prioritized as follows: pairing > low battery > re-connecting > noise reduction.

**3 Power Button**

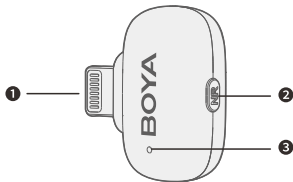
Operation	Function
Press and hold for 2 seconds	Power on or off
Press once	Enable or disable noise reduction
Press and hold for 5 seconds (in shutdown mode)	Enter pairing mode

**Note:**

- The transmitter(s) will automatically power on once removed from the charging case, and automatically power off once placed back.
- Noise reduction is disabled by default. This function can NOT be enabled or disabled when the transmitter(s) is re-connecting to a receiver.

**4 Charging Contacts****5 Belt Clip**

## iOS Lightning Receiver (BOYA mini-RXD)



### ❶ MFi Certified Lightning Connector

It can be connected to an iOS Lightning device.

### ❷ NR Button

Operation	Function	Indicator
Press to select a noise reduction grade	Grade 1 (weak)	Blinking green once
	Grade 2 (medium)	Blinking green twice
	Grade 3 (strong)	Blinking green 3 times
Double press to select an AI sound mode	Uncle voice	Blinking blue once
	Female voice	Blinking blue twice
	Original voice	Blinking blue 3 times
Press and hold for 5 seconds (when plugged into a device)	Enter pairing mode	Blink blue quickly (5 minutes)

### Note:

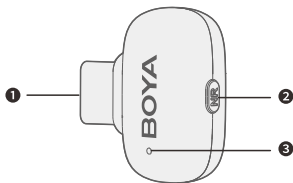
- When the receiver connected to a phone, you can play back your recordings without the need to unplug the receiver. This function is turned on by default.

- Every time the receiver is turned on, the AI sound mode is turned off by default.
- Noise reduction is disabled by default, and its default grade is 3 when turned on for the first time. The noise reduction grade will be retained even after the power is turned off.
- If the transmitter(s) and receiver are in pairing mode but not paired within 5 minutes, they will switch into re-connecting mode.
- Noise reduction on or off, noise reduction grade, and AI sound mode can NOT be set when the unit is in re-connecting mode.

### 3 Indicator

Status	Indicator
Unpaired	Blinking blue
Pairing	Blinking blue quickly (5 minutes)
Paired successfully	Static blue
Noise reduction enabled	Static green
Noise reduction grade 1 (weak)	Blinking green once
Noise reduction grade 2 (medium)	Blinking green twice
Noise reduction grade 3 (strong)	Blinking green 3 times
Uncle voice	Blinking blue once
Female voice	Blinking blue twice
Original voice	Blinking blue 3 times

## USB-C Receiver (BOYA mini-RXU)



### 1 USB-C Connector

It can be connected to iPhone 15 or newer, Android smartphones, tablets, computers and other USB-C devices.

### 2 NR Button

Operation	Function	Indicator
Press to select a noise reduction grade	Grade 1 (weak)	Blinking green once
	Grade 2 (medium)	Blinking green twice
	Grade 3 (strong)	Blinking green 3 times
Double press to select an AI sound mode	Uncle voice	Blinking blue once
	Female voice	Blinking blue twice
	Original voice	Blinking blue 3 times
Press and hold for 5 seconds (when plugged into a device)	Enter pairing mode	Blink blue quickly (5 minutes)

### Note:

- When the receiver connected to a phone, you can play back your



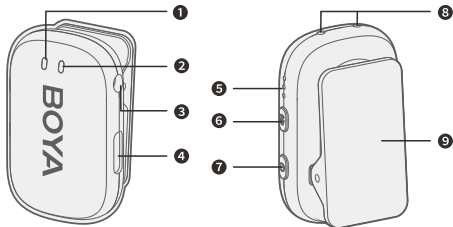
recordings without the need to unplug the receiver. This function is turned on by default.

- Every time the receiver is turned on, the AI sound mode is turned off by default.
- Noise reduction is disabled by default, and its default grade is 3 when turned on for the first time. The noise reduction grade will be retained even after the power is turned off.
- If the transmitter(s) and receiver are in pairing mode but not paired within 5 minutes, they will switch into re-connecting mode.
- Noise reduction on or off, noise reduction grade, and AI sound mode can NOT be set when the unit is in re-connecting mode.

### 3 Indicator

Status	Indicator
Unpaired	Blinking blue
Pairing	Blinking blue quickly (5 minutes)
Paired successfully	Static blue
Noise reduction enabled	Static green
Noise reduction grade 1 (weak)	Blinking green once
Noise reduction grade 2 (medium)	Blinking green twice
Noise reduction grade 3 (strong)	Blinking green 3 times
Uncle voice	Blinking blue once
Female voice	Blinking blue twice
Original voice	Blinking blue 3 times

## 3.5 mm TRS Receiver (BOYA mini-RX)



### 1 Indicator 1

### 2 Indicator 2

Indicator 1 & Indicator 2 Information:

Function	Indicator 1 & Indicator 2
Unpaired	Blinking blue
Pairing	Blinking blue quickly
Paired with transmitter 1, but not paired with transmitter 2	Indicator 1: static blue Indicator 2: blinking blue
Not paired with transmitter 1, but paired with transmitter 2	Indicator 1: blinking blue Indicator 2: static blue
Press transmitter's power button to enable its noise reduction function	Static green
Press transmitter's power button to disable its noise reduction function	Static blue
Low battery	Blinking red
Charging	Static red

**Note:**

- The receiver will automatically power off after 10 minutes if unpaired with the transmitter.
- After the receiver is successfully paired with only one transmitter, one of the receiver's indicators 1 and 2 will glow static blue, while another indicator will automatically turn off after 5 minutes if there is no pairing with a second transmitter.




**3 3.5 mm TRS output**

Connect the receiver to a camera using the included 3.5 mm TRS to TRS audio cable, and the audio recorded by the transmitter will be transmitted to the camera.

**4 USB-C Data Port**

For charging the receiver. It also supports connecting to a phone to transmit the audio recorded by the transmitter to the phone. When the receiver is connected to the phone via this port, you can play back your recordings without the need to unplug the receiver. This function is turned on by default.

**5 Volume Indicators**

Operation	Function	Volume Indicators
Press the volume button	Volume level 1	
	Volume level 2	
	Volume level 3	

**Note:**

The volume indicators will automatically go out after being on for 5 seconds.

## 6 Volume Button

Press to adjust the volume in levels 1 to 3, with each level increasing by 6 dB. Each time you press this button, the volume level cycles from level 1 > level 2 > level 3.

## 7 Power Button

Operation	Function	Indicator 1 & Indicator 2
Press and hold receiver's power button for 2 seconds	Power on or off	/
Press receiver's power button to select a noise reduction grade	Grade 1 (weak)	Blinking green once
	Grade 2 (medium)	Blinking green twice
	Grade 3 (strong)	Blinking green 3 times
Double press receiver's power button to select an AI sound mode	Uncle voice	Blinking blue once
	Female voice	Blinking blue twice
	Original voice	Blinking blue 3 times
Press and hold receiver's power button for 5 seconds (in shutdown mode)	Enter pairing mode	Blinking blue quickly (5 minutes)

### Note:

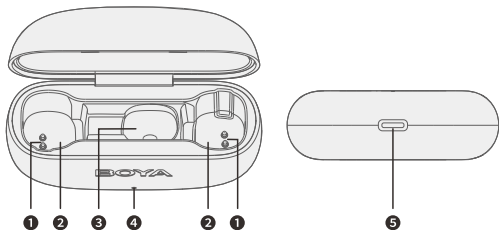
- Every time the receiver is turned on, the AI sound mode is turned off by default.
- Noise reduction is disabled by default, and its default grade is 3 when turned on for the first time. The noise reduction grade will be retained even after the power is turned off.

## 8 Charging Contacts

## 9 Belt Clip

For mounting the receiver on a camera.

## CC Charging Case (BOYA mini-CC)



### ❶ Charging Contacts

For charging transmitters.

### ❷ Slot for Transmitters

### ❸ Slot for Receiver

### ❹ Charging/Remaining Battery Level Indicator

When the charging case is connected to power, this indicator will display the case's charging status.

Status	Battery level (case)	Indicator
Low battery	30% or lower	Blinking red
Charging	31%~99%	Blinking green
Fully charged	100%	Static green

When the charging case is NOT connected to power and the transmitter(s) is placed into it for charging, this indicator will display the case's remaining battery level.

Battery level (case)	Indicator	Charging Cycles (for transmitters)
5% or lower	Blinking red	Unable to charge
6%~30%	Static red	0.3
31%~100%	Static green	0.5~1

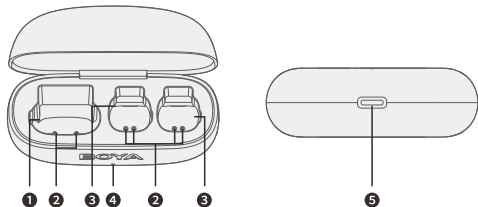
**Note:**

- Please charge the charging case as soon as possible when its indicator flashes red.
- When the charging case is out of power, the transmitter(s) does not turn off automatically once placed in.
- It takes about an hour and a half for the charging case to charge the transmitter from 0% to 100%.

**5 USB-C Charging Port**

For charging the charging case.

**CCC Charging Case (BOYA mini-CCC)**



### ① Slot for Receiver

### ② Charging Contacts

For charging the transmitters and receiver.

### ③ Slot for Transmitters

### ④ Charging/Remaining Battery Level Indicator

When the charging case is connected to power, this indicator will display the case's charging status.

Status	Battery level (case)	Indicator
Low battery	30% or lower	Blinking red
Charging	31%~99%	Blinking green
Fully charged	100%	Static green

When the charging case is NOT connected to power and the transmitter(s) and receiver placed into it for charging, this indicator will display the case's remaining battery level.

Battery level (case)	Indicator	Charging Cycles (for transmitters and receiver)
5% or lower	Blinking red	Unable to charge
6%~30%	Static red	0.3
31%~100%	Static green	0.5~1

#### Note:

- Please charge the charging case as soon as possible when its indicator flashes red.
- When the charging case is out of power, the transmitter(s) and receiver do not turn off automatically once placed in.
- It takes about an hour and a half for the charging case to charge the transmitter(s) and receiver from 0% to 100%.

## 5 USB-C Charging Port

For charging the charging case.

### Magnetic charger to USB-A cable

Simply hold the charger near the charging contacts of the transmitter, where magnets cause it to snap into place automatically.





## How to Use

### For BOYA mini-12 package to BOYA mini-17 package

1. The transmitter(s) will power on automatically as soon as it is taken out of the charging case. The transmitter(s) can be attached to clothes through its belt clip.
2. Plug the iOS Lightning connector into an iOS Lightning device or the USB-C connector into a USB-C device.
3. The transmitter(s) and receiver are pre-paired before leaving the factory. Therefore, they will be paired once they are powered on. Their indicators will glow static blue if paired successfully.  
If they are disconnected, please follow the below steps:
  - ① Press and hold the NR button on the receiver for 5 seconds until its indicator blinks blue rapidly to enter pairing mode.
  - ② Press and hold the power button on the transmitter(s) for 5 seconds in shutdown mode until its indicator blinks blue rapidly to enter pairing mode.
  - ③ The transmitter(s) and receiver are successfully paired when their indicators turn static blue.
4. Launch a video or audio recording app.
5. Some phones may default to using its built-in microphone, so you may need to switch to the external microphone (BOYA mini) on the recording app.
6. You are ready to record.

### For BOYA mini-18 package

1. The transmitter(s) and 3.5 mm TRS receiver will automatically power on once removed from the charging case.
2. Pair the transmitter (s) with the receiver.
  - ① With the receiver powered off, press and hold its power button for 5 seconds until its indicator 1 and indicator 2 blink blue rapidly to enter pairing mode.

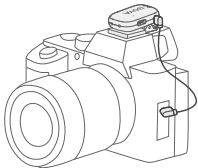
- ② With the transmitter(s) powered off, press and hold its power button for 5 seconds until its indicator blinks blue rapidly to enter pairing mode.
- ③ The transmitter 1 and receiver are successfully paired when the receiver's indicator 1 and transmitter 1's indicator both turn static blue. Similarly, the transmitter 2 and receiver are successfully paired when the receiver's indicator 2 and transmitter 2's indicator both turn static blue.

**3. Place the transmitter(s) on clothes through its belt clip.**

**4. Using the receiver**

• Using with a camera

Connect the 3.5 mm TRS output on the receiver to the microphone port of a camera using the 3.5 mm TRS to TRS audio cable provided. Refer to the camera's accompanying user manual to start recording, then the audio captured by the transmitter(s) will be transferred to the camera.



- Using with a phone

The receiver can also be connected to a phone via its USB-C data port using a correct data cable (not included), then the transmitter's audio to be transmitted to the phone. Start a video or audio recording application on your phone to begin recording. Some phones may default to using its built-in microphone, so you may need to switch to the external microphone (BOYA mini).

### **For BOYA mini-19 package**

This package comes with 3 kinds of receivers, namely the Lightning, USB-C and 3.5 mm TRS receiver, allowing you have more choices whether you want to output audio to a phone or a camera. If you are going to use the Lightning or USB-C receiver to output audio to a phone, please refer to the above instructions from "For BOYA mini-12 package to BOYA mini-17 package". If you are going to use the 3.5 TRS receiver to output audio to a camera, please refer to the above instructions from "For BOYA mini-18 package".

#### **Tips:**

1. It is recommended to record a sample and play it back to check if the audio level is acceptable before recording.
2. In order to improve the recording effect in a noisy environment, it is recommended to press the power button on the transmitter(s) to enable noise reduction (this function on both transmitters will be enabled or disabled at the same time). You can also operate the receiver to select an optimal noise reduction grade.
3. Put the unit back into the charging case for charging after recording.

**Note:**

Due to the 2.4 GHz wireless frequency, signals can be easily attenuated. Please try to avoid obstacles, such as walls and buildings, and avoid close proximity to devices with 2.4 GHz signals, such as high-power Wi-Fi antennas, radios, etc.

## Troubleshooting

If you encounter problems when using the unit, please refer to the following checklist first. If the problem cannot be solved, please contact the dealer's after-sales service department.

- **If there is no sound from the unit or no sound when connected to an external device**

Make sure the connector on the receiver is well connected to your device.

- **The operating range of the unit is limited and the sound is frequently intermittent**

Make sure there is no interference between the transmitter(s) and receiver. If the intermittent sound still occurs frequently, please contact our customer service.

- **The charging case fails to charge the unit**

- ① Make sure charging contacts are in full contact. Wipe charging contacts with a clean cloth and try again.
- ② If you want to check whether the magnetic force is aging or whether charging contacts are not in sufficient contact, push down the unit placed in the charging case until charging contacts are in full contact to see if it is charged. If the unit still fails to be charged, please contact our customer service.

# Specifications

## Transmitter

Transmission Type	2.4 GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Antenna	FPC
Operating Range	Up to 100 m (without obstacles)
RF Output Power	< 10 dBm
Distortion	≤0.1%
Frequency Response	20 Hz-20 kHz
Sensitivity	-36 dB
Sampling Rate	48 kHz
Bit Rate	16 bit
Signal-to-Noise Ratio	> 80 dB
Audio Input	In-built condenser microphone capsule
Battery Capacity	65 mAh
Power Requirements	In-built lithium-ion battery / Charging contacts (5 V/1 A)
In-built Battery Life	Approx. 6 hours
Charging Time	Approx. 1.5 hours
Weight	5 g
Dimensions	31 x 15 x 16.4 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +50°C

## iOS Lightning Receiver/USB-C Receiver

Transmission Type	2.4 GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Antenna	Ceramic Antenna
Operating Range	Up to 100 m (without obstacle)
RF Output Power	< 10 dBm
Distortion	≤0.1%
Frequency Response	20 Hz-20 kHz
Sensitivity	-36 dB
Sampling Rate	48 kHz
Bit Rate	16 bit
Signal-to-Noise Ratio	> 80 dB
Audio Output	iOS Lightning or USB-C digital output
Power Requirements	Powered by an external device
Weight	USB-C receiver: 2.5 g iOS lightning receiver: 3 g
Dimensions	USB-C receiver: 23.2 x 22.4 x 10.1 mm iOS lightning receiver: 23.2 x 22.6 x 10.1 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +50°C

## 3.5 mm TRS Receiver

Transmission Type	2.4GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Antenna	Ceramic Antenna
Operating Range	Up to 100m (without obstacles)
RF Output Power	< 10 dBm
Distortion	≤0.1%
Frequency Response	20 Hz-20 kHz
Sensitivity	-36 dB
Sampling Rate	48 kHz
Bit Rate	16 bit
Signal-to-Noise Ratio	> 80 dB
Audio Output	3.5 mm TRS/USB-C data port
Power Requirements	In-built lithium-ion battery/ Charging contacts/USB-C data port
Battery Capacity	130 mAh
In-built Battery Life	Approx. 6 hours
Charging Time	Approx. 1.5 hours
Weight	11 g
Dimensions	40 x 25 x 12.5 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +50°C

## CC/CCC Charging Case

Battery Capacity	CC: 260 mAh
	CCC: 550 mAh
Charging Time	Approx. 2 hours (5V 2A)
Charging Port	USB-C port
Charging Cycles	CC: More than once (2*transmitters)
	CCC: More than once (2*transmitters and 1*3.5 mm TRS receiver)
Weight	CC: 29 g
	CCC: 60 g
Dimensions	CC: 67.4 x 48.4 x 22.5 mm
	CCC: 78.9 x 61.5 x 29.5 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +50°C

## Packing List

### BOYA mini-12 (2TX+2RX+Charging Case) (Black)

- 2 × Transmitter
- 1 × Lightning Receiver
- 1 × USB-C Receiver
- 1 × CC Charging Case
- 1 × USB-C to USB-A Charging Cable
- 1 × Carrying Pouch



### **BOYA mini-13 (2TX+2RX+Charging Case) (White)**

- 2 × Transmitter
- 1 × Lightning Receiver
- 1 × USB-C Receiver
- 1 × CC Charging Case
- 1 × USB-C to USB-A Charging Cable
- 1 × Carrying Pouch

### **BOYA mini-14 (2TX+1RX+Charging Case) for USB-C Device**

- 2 × Transmitter
- 1 × USB-C Receiver
- 1 × CC Charging Case
- 1 × USB-C to USB-A Charging Cable

### **BOYA mini-15 (2TX+1RX+Charging Case) for Lightning Device**

- 2 × Transmitter
- 1 × Lightning Receiver
- 1 × CC Charging Case
- 1 × USB-C to USB-A Charging Cable

### **BOYA mini-16 (1TX+1RX) for Lightning Device**

- 1 × Transmitter
- 1 × Lightning Receiver
- 1 × Magnetic Charging Cable
- 1 × Carrying Pouch

### **BOYA mini-17 (1TX+1RX) for USB-C Device**

- 1 × Transmitter
- 1 × USB-C Receiver
- 1 × Magnetic Charging Cable
- 1 × Carrying Pouch

## **BOYA mini-18(2TX+1RX+Charging Case) for Camera**

2 × Transmitter

1 × 3.5 mm TRS Receiver

1 × CCC Charging Case

1 × USB-C to USB-A Charging Cable

1 × 3.5 mm TRS to TRS Audio Cable

1 × Carrying Pouch

## **BOYA mini-19 (2TX+3RX+Charging Case) for Camera, USB-C and Lightning Device**

2 × Transmitter

1 × USB-C Receiver

1 × Lightning Receiver

1 × 3.5 mm TRS Receiver

1 × CCC Charging Case

1 × USB-C to USB-A Charging Cable

1 × 3.5 mm TRS to TRS Audio Cable

1 × Carrying Pouch

## 声明

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：

support@boya-mic.com

## 注意事项

1. 请勿擅自拆开机壳；
2. 请勿将本机靠近热源，如散热器、聚光灯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. 为获得最佳拾音效果，请勿将手放在麦克风咪头上。

## 概述

BOYA mini是一款迷你便携的2.4 GHz无线麦克风系统，具有自动回连和可设置的降噪功能，可提供出色的高品质音频。它还具有AI变音功能，提供不同的声音特效，增添声音的互动性和趣味性。产品操作简单，兼容智能手机、平板、电脑等设备，是内容创作、直播、Vlog拍摄、移动新闻等应用场景的理想选择。

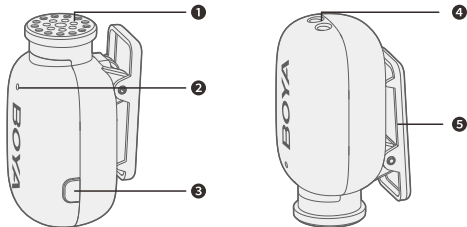
BOYA mini预设多种配置，提供三款接收器供选择，支持USB-C、Lightning 和3.5 mmTRS输出，广泛兼容手机、电脑、相机等设备。每个发射器一次充电可支持 6小时的连续使用。此外，充电盒可为发射器提供移动电源，快速解决充电难题，便于出行携带。

## 特点

- 5 g轻盈机身
- 三级AI降噪
- CD级无损音质
- 无线连接即插即用
- 100米稳定传输
- 免插拔外放
- 搭配充电盒使用，手机版综合续航30小时；相机版综合续航24小时

# 产品结构

## 发射器 (BOYA mini-TX)



### ① 内置电容麦克风

### ② 指示灯

状态	指示灯
未联机	蓝灯闪烁
对码中	蓝灯快闪 (持续5分钟)
联机成功	蓝灯常亮
超距离断开连接	蓝灯闪烁
超距离断开后回连	蓝灯常亮
降噪开启	绿灯常亮
低电量	红灯闪烁 (每秒1次)
充电中	红灯常亮
充满电	红灯熄灭

注：

- 发射器在未联机状态下，10分钟后无连接将自动关机。
- 指示灯的优先级：对码 > 低电量提示 > 回连 > 降噪。

### ③ 电源键

操作	功能
长按电源键2秒	电源开启/关闭
短按电源键	降噪开启/关闭
长按电源键5秒（关机状态下）	进入对码状态

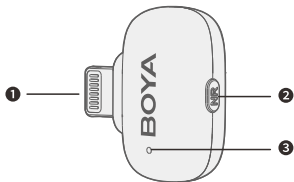
注：

- 发射器从充电盒中取出将自动开机，放回充电盒后将自动关机。
- 降噪功能默认关闭，回连状态下不可开启/关闭降噪功能。

### ④ 充电触点

### ⑤ 背夹

## iOS Lightning接收器 (BOYA mini-RXD)



### ❶ MFi认证Lightning接头

可接入带Lightning接口的iOS设备。

### ❷ NR键

操作	功能	指示灯
单击循环切换	一级降噪 (弱)	绿灯闪烁1次
	二级降噪 (中等)	绿灯闪烁2次
	三级降噪 (强)	绿灯闪烁3次
双击循环切换AI变音模式	大叔音	蓝灯闪烁1次
	女神音	蓝灯闪烁2次
	原声	蓝灯闪烁3次
长按5秒 (插入相应设备时)	进入对码状态	蓝灯快闪 (持续5分钟)

### 注:

- 当接收器插入手机时,支持免拔插外放功能, 该功能默认开启。
- 接收器重新开机后, 变音功能默认关闭。
- 降噪默认关闭。首次开启降噪功能, 默认三级降噪。降噪等级设定在电源关闭后仍保留。

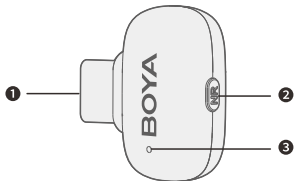
- 接收器和发射器进入对码模式后，若5分钟未成功对码，则退出对码模式，转为回连模式。
- 回连状态下不可切换降噪功能、降噪等级、变音模式。

### ③ 指示灯

状态	指示灯
未联机	蓝灯闪烁
对码中	蓝灯快闪（持续5分钟）
联机成功	蓝灯常亮
降噪开启	绿灯常亮
一级降噪（弱）	绿灯闪烁1次
二级降噪（中等）	绿灯闪烁2次
三级降噪（强）	绿灯闪烁3次
大叔音	蓝灯闪烁1次
女神音	蓝灯闪烁2次
原声	蓝灯闪烁3次



## USB-C接收器 (BOYA mini-RXU)



### ❶ USB-C接头

可接入iPhone 15或更高版本、安卓手机、平板或其他带USB-C接口的设备。

### ❷ NR键

操作	功能	指示灯
单击循环切换	一级降噪 (弱)	绿灯闪烁1次
	二级降噪 (中等)	绿灯闪烁2次
	三级降噪 (强)	绿灯闪烁3次
双击循环切换AI变音模式	大叔音	蓝灯闪烁1次
	女神音	蓝灯闪烁2次
	原声	蓝灯闪烁3次
长按5秒 (插入相应设备时)	进入对码状态	蓝灯快闪 (持续5分钟)

### 注:

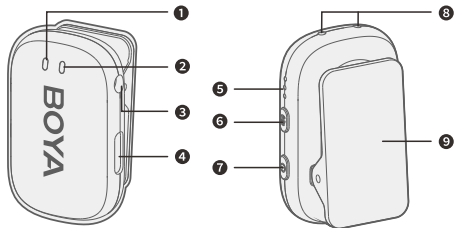
- 当接收器插入手机时,支持免拔插外放功能,该功能默认开启。
- 接收器重新开机后,变音功能默认关闭。

- 降噪默认关闭。首次开启降噪功能，默认三级降噪。降噪等级设定在电源关闭后仍保留。
- 接收器和发射器进入对码模式后，若5分钟未成功对码，则退出对码模式，转为回连模式。
- 回连状态下不可切换降噪功能、降噪等级、变音模式。

### ③ 指示灯

状态	指示灯
未联机	蓝灯闪烁
对码中	蓝灯快闪（持续5分钟）
联机成功	蓝灯常亮
降噪开启	绿灯常亮
一级降噪（弱）	绿灯闪烁1次
二级降噪（中等）	绿灯闪烁2次
三级降噪（强）	绿灯闪烁3次
大叔音	蓝灯闪烁1次
女神音	蓝灯闪烁2次
原声	蓝灯闪烁3次

### 3.5 mm TRS接收器 (BOYA mini-RX)



❶ 指示灯1

❷ 指示灯2

指示灯1和指示灯2信息：

功能	指示灯1 & 2
未联机	蓝灯闪烁
对码中	蓝灯快闪
与发射器1联机成功， 与发射器2未联机	指示灯1蓝灯常亮，指示灯2蓝灯闪烁
与发射器1未联机， 与发射器2联机成功	指示灯1蓝灯闪烁，指示灯2蓝灯常亮
短按发射器电源键开启降噪	绿灯常亮
短按发射器电源键关闭降噪	蓝灯常亮
低电量	红灯闪烁
充电中	红灯常亮

- 注：
- 接收器在未联机状态下，10分钟内未与发射器连接，将自动关机。
  - 当接收器与一个发射器成功配对后，接收器的两个指示灯（指示灯1和指示灯2）中有一个会保持蓝色常亮。若未与第二个发射器配对，另一个指示灯将在5分钟后自动熄灭

### ③ 3.5 mm TRS输出孔

使用标配的3.5 mm TRS转TRS音频线将接收器连接至相机，发射器录制的音频将传输至相机。

### ④ USB-C 数据口

此接口用于给接收器充电，还支持连接至手机，将发射器录制的音频传输至手机。当接收器通过此接口连接手机时，支持免拔插外放功能，该功能默认开启。

### ⑤ 音量指示灯

操作	功能	音量指示灯
短按音量键	一档音量	
	二档音量	
	三档音量	

注：音量指示灯常亮5S后会自动熄灭。

### ⑥ 音量键

短按调节音量，可循环切换1至3档音量，每档增加6 dB。

## 7 电源键

操作	功能	指示灯1 & 2
长按接收器电源键2秒	电源开启/关闭	/
短按接收器电源键切换降噪等级	一级降噪（弱）	绿灯闪烁1次
	二级降噪（中等）	绿灯闪烁2次
	三级降噪（强）	绿灯闪烁3次
双击接收器电源键切换AI变音模式	大叔音	蓝灯闪烁1次
	女神音	蓝灯闪烁2次
	原声	蓝灯闪烁3次
长按接收器电源键5秒 （关机状态下）	进入对码状态	蓝灯快闪（持续5分钟）

### 注:

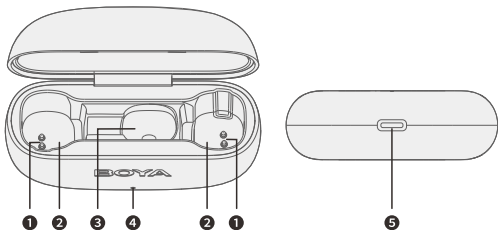
- 接收器重新开机后，变音功能默认关闭。
- 降噪默认关闭。首次开启降噪功能,默认三级降噪。降噪等级设定在电源关闭后仍保留。

## 8 充电触点

## 9 背夹

可将接收器安装在相机上。

## CC充电盒 (BOYA mini-CC)



### ❶ 充电触点

用于给发射器充电。

### ❷ 发射器凹槽

### ❸ 接收器凹槽

### ❹ 充电/剩余电量指示灯

充电盒充电状态时，该指示灯显示其充电的状态。

状态	充电盒电量	指示灯
低电量	≤30%	红灯闪烁
充电中	31%~99%	绿灯闪烁
充满电	100%	绿灯常亮

充电盒非充电状态时，盒内放入发射器后，该指示灯显示其剩余电量。

充电盒电量	指示灯	可供发射器循环充电次数
<5%	红灯闪烁	无法给发射器充电
6%~30%	红灯常亮	0.3
31%~100%	绿灯常亮	0.5~1

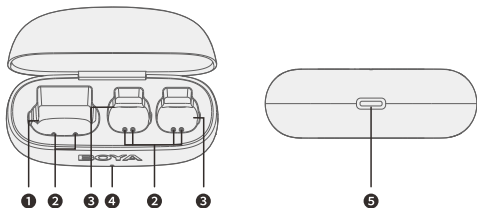
**注：**

- 充电盒指示灯呈红灯闪烁时，请尽快给充电盒充电。
- 充电盒没电时，发射器放入充电盒后不会自动关机。
- 充电盒将发射器从0%充满至100%，大约需要一个半小时。

**⑤ USB-C充电口**

用于给充电盒充电。

**CCC充电盒 (BOYA mini-CCC)**



### ❶ 接收器凹槽

### ❷ 充电触点

用于给发射器和接收器充电。

### ❸ 发射器凹槽

### ❹ 充电/剩余电量指示灯

充电盒充电状态时，该指示灯显示其充电的状态。

状态	充电盒电量	指示灯
低电量	≤30%	红灯闪烁
充电中	31%~99%	绿灯闪烁
充满电	100%	绿灯常亮

充电盒非充电状态时，盒内放入发射器和接收器后，该指示灯显示其剩余电量。

充电盒电量	指示灯	可供发射器和接收器循环充电次数
<5%	红灯闪烁	无法给发射器和接收器充电
6%~30%	红灯常亮	0.3
31%~100%	绿灯常亮	0.5~1

**注：**

- 充电盒指示灯呈红灯闪烁时，请尽快给充电盒充电。
- 充电盒没电时，发射器和接收器放入充电盒后不会自动关机。
- 充电盒将发射器和接收器从0%充满至100%，大约需要一个半小时。

### ❺ USB-C充电口

用于给充电盒充电。



## 磁吸充电线

发射器充电触点靠近磁吸充电座时，磁力自动吸附后即可为发射器充电。



## 使用方法

BOYA mini-12至BOYA mini-17套装

1. 发射器从充电盒中取出将自动开机；
2. 将iOS Lightning接收器插入带Lightning接口的iOS设备或将USB-C接收器插入带USB-C接口的设备；
3. 发射器和接收器出厂前已配对成功。因此产品开机后会自动联机。联机成功后，发射器和接收器的指示灯均呈蓝灯常亮；若无成功连接，请进行如下配对操作：
  - ① 将接收器插入相应的设备后，长按NR键5秒，其指示灯呈蓝灯快闪进入配对模式；
  - ② 发射器在关机状态下，长按电源键5秒，其指示灯呈蓝灯快闪进入配对模式；
  - ③ 配对成功，发射器和接收器的指示灯均呈蓝灯常亮。
4. 启动视频或音频录制应用程序；
5. 部分手机默认使用手机内置麦克风，需在录制应用程序中切换至外置麦克风(BOYA mini)；
6. 开始录音。

## BOYA mini-18套装

1. 发射器和接收器从充电盒中取出将自动开机；

2. 将发射器与接收器配对。

① 接收器在关机状态下，长按电源键5秒，其指示灯1和指示灯2均呈蓝灯快闪进入配对模式；

② 发射器在关机状态下，长按电源键5秒，其指示灯呈蓝灯快闪进入配对模式；

③ 接收器与发射器1配对成功后，接收器的指示灯1和发射器1的指示灯均呈蓝灯常亮；接收器与发射器2配对成功后，接收器的指示灯2和发射器2的指示灯均呈蓝灯常亮。

3. 发射器使用场景：可通过其背夹直接夹于衣领上使用。

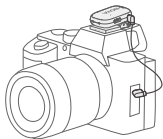
4. 接收器使用场景：

- 搭配相机使用

通过随附的3.5 mm TRS转TRS音频线将接收器的3.5 mm TRS输出孔连接至相机，发射器的音频即可传输至相机。参考相机随附的说明书即可开启录制。

- 搭配手机使用

接收器也可通过其USB-C接口连接至手机(需自备适配的数据线)，发射器的音频即可传输至手机。在您的设备上启动视频或音频录制应用程序即可开始录制。部分手机默认使用手机内置麦克风，需切换至外置麦克风(BOYA mini)。



## BOYA mini-19 套装

此套装包含 3 种接收器,分别是 Lightning、USB-C 和 3.5 mm TRS 接收器,让您拥有更多的选择,可将音频输出至手机或相机等设备。如果您想使用 Lightning 或 USB-C 接收器将音频输出至手机,请参考上述“BOYA mini-12 套装至 BOYA mini-17 套装”的操作说明;如果您想使用 3.5 TRS 接收器将音频输出至相机,请参考上述“BOYA mini-18 套装”的操作说明。

### 提示:

1. 建议在正式录音前做个简短的录音测试, 检查音频水平是否可以接受。
2. 若录音环境嘈杂, 可以短按发射器电源键开启降噪模式, 提高录制效果。两个发射器的降噪功能会同时打开或关闭。您还可以操作接收器以选择最佳的降噪等级。
3. 录制结束后, 请将产品放入充电盒中进行充电。

### 注意:

由于在 2.4 GHz 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 2.4 GHz 频率的设备, 如大功率 Wi-Fi 天线、收音机等。

## 故障排除

在使用本机的过程中出现任何问题，请参照以下内容加以解决。如果此手册仍然无法解决您遇到的问题，请与我们当地的经销商售后服务部联系。

- **产品无声音**

检查产品是否连接正常以及接头是否有松动。

- **产品的使用距离受限且声音频繁断续**

查看发射器与接收器之间是否有干扰源，将产品更换使用位置再次确认，若声音还是频繁断续，请联系客服咨询。

- **充电盒无法给产品充电**

- ① 检查充电触点是否接触不到位，可用干净的布擦拭充电触点后再次进行验证。
- ② 检查磁力是否老化、充电触点是否接触不到位，可通过手按压产品验证其能否进入充电状态。若仍然无法充电，请联系客服咨询。

## 参数 发射器

传输方式	2.4 GHz数字频段
信号调制	高斯频移键控
极性模式	全向型
天线类型	FPC
操作距离	100 m (无障碍)
射频输出功率	< 10 dBm
失真	≤0.1%
频率响应	20 Hz–20 kHz
灵敏度	-36 dB
采样率	48 kHz
位深度	16 bit
信噪比	> 80 dB
音频输入	内置电容咪头
内置电池容量	65 mAh
供电方式	内置锂电池供电/充电盒触点充电 (5V/1A)
续航时长	约6小时
充电时长	约1.5小时
重量	5 g
尺寸	31 x 15 x 16.4 mm
工作温度	0°C ~ + 50°C
贮存温度	-20°C ~ + 50°C

## iOS Lightning接收器/USB-C接收器

传输方式	2.4 GHz数字频段
信号调制	高斯频移键控
极性模式	全向型
天线类型	陶瓷天线
操作距离	100 m (无障碍)
射频输出功率	< 10 dBm
失真	≤ 0.1%
频率响应	20 Hz–20 kHz
灵敏度	–36 dB
采样率	48 kHz
位深度	16 bit
信噪比	> 80 dB
音频输出	iOS Lightning / USB-C数字输出
供电方式	外接设备供电
重量	USB-C接收器: 2.5 g iOS Lightning接收器: 3 g
尺寸	USB-C接收器: 23.2 x 22.4 x 10.1 mm iOS Lightning接收器: 23.2 x 22.6 x 10.1 mm
工作温度	0°C ~ + 50°C
贮存温度	–20°C ~ + 50°C

### 3.5 mm TRS接收器

传输方式	2.4GHz数字频段
信号调制	高斯频移键控
极性模式	全向型
天线类型	陶瓷天线
操作距离	100 m (无障碍)
射频输出功率	<10 dBm
失真	≤0.1%
频率响应	20 Hz–20 kHz
灵敏度	–36 dB
采样率	48 kHz
位深度	16 bit
信噪比	>80dB
音频输出	3.5 mm TRS/USB-C数据口
供电方式	内置锂电池/充电盒触点/USB-C数据口
内置电池容量	130 mAH
续航时长	约6小时
充电时长	约1.5小时
重量	11 g
尺寸	40 x 25 x 12.5 mm
工作温度	0°C ~ +50°C
贮存温度	–20°C ~+ 50°C

## CC/CCC充电盒

内置电池容量	CC: 260 mAh
	CCC: 550 mAh
充电时长	约2小时 (5V/2A)
充电接口	USB-C接口
可供循环充电次数	CC: 1次以上 (2*发射器)
	CCC: 1次以上 (2*发射器+1*3.5 mm TRS接收器)
重量	CC: 29 g
	CCC: 60 g
尺寸	CC: 67.4 x 48.4 x 22.5 mm
	CCC: 78.9 x 61.5 x 29.5 mm
工作温度	0°C ~ + 50°C
贮存温度	-20°C ~ + 50°C

## 包装清单

### BOYA mini-12 二拖二含充电盒 (Lightning & USB-C) (黑)

- 2 × 发射器
- 1 × Lightning接收器
- 1 × USB-C接收器
- 1 × CC充电盒
- 1 × USB-C转USB-A充电线
- 1 × 收纳袋

### BOYA mini-13 二拖二含充电盒 (Lightning & USB-C) (白)

- 2 × 发射器
- 1 × Lightning接收器
- 1 × USB-C接收器
- 1 × CC充电盒
- 1 × USB-C转USB-A充电线
- 1 × 收纳袋



**BOYA mini-14 一拖二含充电盒  
(USB-C)**

- 2 × 发射器
- 1 × USB-C接收器
- 1 × CC充电盒
- 1 × USB-C转USB-A充电线

**BOYA mini-15 一拖二含充电盒  
(Lightning)**

- 2 × 发射器
- 1 × Lightning接收器
- 1 × CC充电盒
- 1 × USB-C转USB-A充电线

**BOYA mini-16 一拖一  
(Lightning)**

- 1 × 发射器
- 1 × Lightning接收器
- 1 × 磁吸充电线
- 1 × 收纳袋

**BOYA mini-17 一拖一  
(USB-C)**

- 1 × 发射器
- 1 × USB-C接收器
- 1 × 磁吸充电线
- 1 × 收纳袋

**BOYA mini-18 一拖二含充电盒  
(相机)**

- 2 × 发射器
- 1 × 3.5 mm TRS接收器
- 1 × CCC充电盒
- 1 × USB-C转USB-A充电线
- 1 × 3.5 mm TRS转TRS音频线
- 1 × 收纳袋

**BOYA mini-19 三拖二含充电盒  
(Lightning & USB-C & 相机)**

- 2 × 发射器
- 1 × USB-C接收器
- 1 × Lightning接收器
- 1 × 3.5 mm TRS接收器
- 1 × CCC充电盒
- 1 × USB-C转USB-A充电线
- 1 × 3.5 mm TRS转TRS音频线
- 1 × 收纳袋

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