

BOYA

Ultracompact 2.4GHz Dual-Channel Wireless Microphone System

2.4GHz 迷你双通道
无线麦克风系统

Omic

PDF



Instruction Manual
使用说明



Statement

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

Cautions

1. Non-professional teardown is strictly prohibited.
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 device with only a soft, dry cloth.
5. When using and storing, please keep away from the dust and moisture.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

General Introduction

The BOYA Omic is an ultra-compact and portable 2.4GHz wireless microphone system, compatible with computers, Android mobile devices and more. It features automatic pairing and selectable noise cancellation, delivering broadcast-quality sound with remarkable ease of use. The Omic is ideal for content creation, live streaming, vlogging, mobile journalism and much more.

The USB-C receiver are device powered and have USB-C charging ports, which support charging and powering of devices while in use.

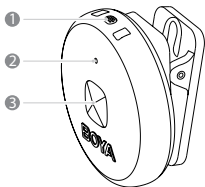
The included charging case allows you to charge the transmitter(s) anywhere, making the Omic kit easy to carry on.

Features

- Also available in 48kHz HD audio when noise cancellation enabled
- Wide-range 20-20,000Hz frequency response - deliver exceptional high-quality sound
- In-built rechargeable lithium-ion battery provides 5+ hours of recording
- USB-C digital output – universal compatibility with computers and Android mobile devices
- Up to 60m wireless operating range
- Magnetic belt clip is detachable
- The charging case features wireless charging

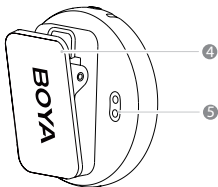
Product Structure

Wireless Transmitter (Omic TX)



① In-built microphone

② Status indicator



③ Power button

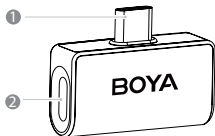
- Press and hold to power on or off.
- Press to mute or unmute the microphone.
- Press twice to enable or disable noise cancellation.

④ Detachable magnetic belt clip

⑤ Charging contacts

Status	Indicator
Unpaired	Blinking blue quickly
Paired successfully	Static blue
Mute	Pulsing red
Noise cancellation enabled	Static green
Low battery	Static red
Charging	Blinking red
Fully charged	Red light off

USB-C Receiver (Omic RXU)



① USB-C connector

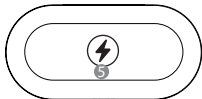
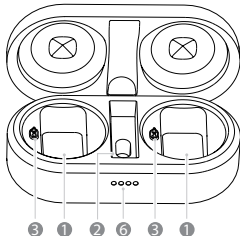
It can be connected to Android Smartphones, Tablets, Computers and other USB-C devices.

② USB-C charging port

When the Omic RXU is plugged into an external device, the external device can be powered via this charging port.

NOTE: Most USB-C devices can be powered and charged through this port while in use.

Charging Case (Omic CC)



① Slot for transmitter(s)

② Slot for receiver

③ Charging contacts

④ USB-C charging port

⑤ Wireless charging sector

⑥ Charging indicator

Status	Battery Level	Indicator
Low battery	< 10%	● ○ ○ ○ ○
Charging	≤ 25%	● ○ ○ ○ ○
	26≤50%	● ● ○ ○ ○
	51≤75%	● ● ● ○ ○
	76≤99%	● ● ● ● ○
Fully charged	100%	● ● ● ● ●

How to use

1. The transmitter(s) will be turned on automatically as soon as it is taken out of the charging case.
2. Plug the Omic RXU into a USB-C device.
3. Transmitter(s) and receiver will be automatically paired. The indicator of the transmitter(s) is static blue.
4. Launch a video or audio recording app.
5. Select external microphone, if applicable (app dependent).
6. You are ready to record

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 that press the power button on the transmitter(s) twice at the same time to enable noise Cancellation.
3. After recording, put the transmitter(s) back into the case for charging.

Note:

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

Troubleshooting

If you encounter problems when using the unit, please refer to the following checklist before contacting technical support. 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

- ① Make sure the connector on the receiver is well connected to your device.
- ② Make sure the transmitter(s) is not muted.

Current noise or other abnormal noise appears during monitoring

Make sure there is no interference near the unit. If the noise still exists after changing the unit's position, please contact our customer service.

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.

Failed to charge the transmitter(s) via the charging case

- ① Make sure the charging contacts of both are in full contact. Wipe the charging contacts with a clean cloth and try again.
- ② If you want to check whether the magnetic force is aging or whether the charging contacts of the two are not in sufficient contact, press the transmitter(s) placed in the charging box to check whether it is in a charging state. If the transmitter(s) is still failed to be charged, please contact our customer service.

Specifications

Omic TX Transmitter

Transmission Type	2.4GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Antenna	Ceramic antenna
Operating Range (Without Obstacle)	Up to 50m
Distortion	$\leq 0.1\%$
Frequency Response	20Hz-20kHz
Sampling Rate	48kHz
Bit Rate	16bit
Signal-to-Noise Ratio	$\geq 80\text{dB}$
Audio Input	In-built microphone capsule
Battery Capacity	50mAh
Power Requirements	In-built lithium-ion battery/Charging contacts
In-built Battery Life	Approx. 5 hours
Charging Time	Approx. 2 hours
Weight	15.5g
Dimensions	36×36×9.7mm
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +50°C

Omic RXD/RXU Receiver

Transmission Type	2.4GHz digital frequency
Modulation	GFSK
Polar Pattern	Omnidirectional
Antenna	Ceramic antenna
Operating Range (Without Obstacle)	Up to 50m
Distortion	≤0.1%
Frequency Response	20Hz-20kHz
Reference Audio Input Level	-30~-42dBV (MIC input, 0dB gain)
Sampling Rate	48kHz
Bit Rate	16bit
Signal-to-Noise Ratio	≥80dB
Audio Output	USB-C digital output
Power Requirements	Powered by an external device
Weight	6g
Dimensions	35.5×18.5×10 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +50°C

Omic CC Charging Case

Battery Voltage/ Capacity	3.7V/ 300mAh
Charging Time	Approx. 3 hours
Charging Connector	USB-C port or wireless charging
Times for Charging Microphone	2 times (2*TX)
Weight	90g
Dimensions	96×46.5×37 mm
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +50°C

In the Box

Omic-D

2×Omic TX Transmitter
1×Omic RXD Receiver
2×Fur Windshield
1×USB-A to USB-C Cable
1×Omic CC Charging Case
1×Carrying Pouch

Omic-U

2×Omic TX Transmitter
1×Omic RXU Receiver
2×Fur Windshield
1×USB-A to USB-C Cable
1×Omic CC Charging Case
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。请妥善保管好说明书以供将来参考。如果用户手册不能帮助您解决某些问题，请向零售商寻求帮助或给我们发送电子邮件：

sales@boya-mic.com

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

博雅 Omic 是一款迷你便携的 2.4GHz 无线麦克风系统，兼容电脑、Android 移动设备等。产品具有自动配对和可设置的降噪功能,可提供出色的广播级音质，易于使用，适用于内容创作、直播、Vlog 拍摄、移动新闻等应用场景。

USB-C 接收器由外接设备供电，并带有 USB-C 充电口，支持一边录制一边给设备充电。

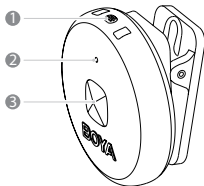
充电盒可为发射器提供移动电源，便于出行携带。

特点

- 双击降噪，48kHz 高清音质
- 20-20,000Hz 频响范围，高品质还原真实声音
- 内置可充电锂电池续航长达 5 小时，综合充电盒达 15 小时
- USB-C 数字输出——兼容电脑、Android 移动设备等
- 无线操作距离达 50 米
- 磁吸背夹可拆卸
- 充电盒支持无线充电

产品结构

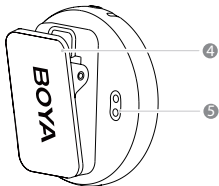
无线发射器 (Omic TX)



① 内置麦克风

② 状态指示灯

状态	指示灯
未联机	蓝灯快闪
联机成功	蓝灯常亮
静音模式	红灯呼吸闪烁
降噪开启	绿灯常亮
低电量提示	红灯常亮
充电中	红灯闪烁
充满电	红灯熄灭



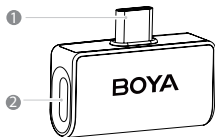
③ 电源键

长按开 / 关机；短按开启 / 关闭静音模式；双击开启 / 关闭降噪功能。

④ 可拆卸磁吸背夹

⑤ 充电触点

USB-C 接收器 (Omic RXU)



① USB-C 接头

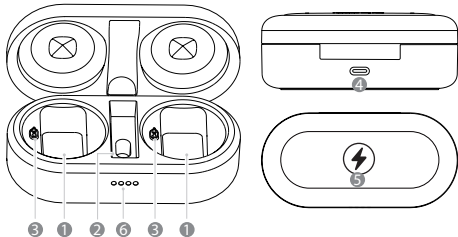
可接入安卓手机、平板或其他带 USB-C 接口的设备。

② USB-C 充电孔

当 Omic RXU 接收器插入外部设备时，可通过此充电端口为外部设备充电。

注意：此 USB-C 充电口支持给大部分 USB-C 设备充电。

充电盒 (Omic CC)



① 发射器凹槽

② 接收器凹槽

③ 充电触点

④ USB-C 充电孔

⑤ 无线充区域

⑥ 充电指示灯

状态	电量	指示灯
低电量提示	< 10%	● ○ ○ ○
充电中	≤ 25%	● ○ ○ ○
	26 ≤ 50%	● ● ○ ○
	51 ≤ 75%	● ● ● ○
	76 ≤ 99%	● ● ● ●
充满电	100%	● ● ● ●

使用方法

1. 发射器从充电盒中取出将自动开机；
2. 将Omic RXU插入带 USB-C 接口的设备；
3. 发射器和接收器将自动完成配对，发射器指示灯呈蓝灯常亮；
4. 启动视频或音频录制应用程序；
5. 若应用程序适用，请选择外置麦克风；
6. 开始录音。

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，还可以双击发射器电源键开启降噪模式，提高录制效果。
3. 录制结束后，可将发射器放入充电盒中进行充电。

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

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

- ① 检查产品是否连接正常以及接头是否有松动。
- ② 请验证发射器是否开启了静音模式。

监听时有不干净的电流声或异常噪音等

请检查本机附近是否有干扰源；若本机更换使用位置后还是有噪音，请联系客服咨询。

产品的使用距离受限且声音频繁断续

查看发射器、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。

充电盒无法给发射器充电

- 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，可通过手按压发射器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

Omic TX 发射器

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（无障碍）	50 米
失真	$\leq 0.1\%$
频率响应	20Hz–20kHz
采样率	48kHz
位深度	16bit
信噪比	$\geq 80\text{dB}$
音频输入	内置咪头
内置电池容量	50mAh
供电方式	内置锂电池供电 / 充电盒触点充电
续航时长	约 5 小时
充电时长	约 2 小时
重量	15.5g
尺寸	36×36×9.7mm
工作温度	0℃ ~+50℃
贮存温度	-10℃ ~+50℃

Omic RXD/RXU 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（无障碍）	50 米
失真	$\leq 0.1\%$
频率响应	20Hz–20kHz
采样率	48kHz
位深度	16bit
信噪比	$\geq 80\text{dB}$
音频输出	USB-C 数字输出
供电方式	外接设备供电
重量	6g
尺寸	35.5×18.5×10mm
工作温度	0°C ~+50°C
贮存温度	-10°C ~+50°C

Omic CC 充电盒

内置电池标称电压 / 容量	3.7V/ 300mAh
充电时长	约 3 小时
充电接口	Type-C 接口 / 无线充
可供循环充电次数	2 次 (2*TX)
重量	90g
尺寸	96×46.5×37mm
工作温度	0℃ ~+50℃
贮存温度	-10℃ ~+50℃

包装清单

Omic-D

2× Omic TX 发射器
1× Omic RXD 接收器
2× 防风毛套
1× USB-A 转 USB-C 数据线
1× Omic CC 充电盒
1× 收纳袋

Omic-U

2× Omic TX 发射器
1× Omic RXU 接收器
2× 防风毛套
1× USB-A 转 USB-C 数据线
1× Omic CC 充电盒
1× 收纳袋

SHENZHEN JIAYZ PHOTO INDUSTRIAL., LTD.

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TEL: 400 6131096

Email: sales@boya-mic.com

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

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

IMPORTANT NOTE:

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.