

BOYA

Wireless Neckband Headphones
with Sound Card

直播声卡一体耳麦

BOYA H16

User Manual
用户手册

Thank you for choosing BOYA!

Please read this manual carefully before use and strictly follow the instructions for operation and storage. Keep this manual for future reference. If you need assistance beyond what is provided in this manual, please contact your retailer or email us at sales@boya-mic.com.

Cautions

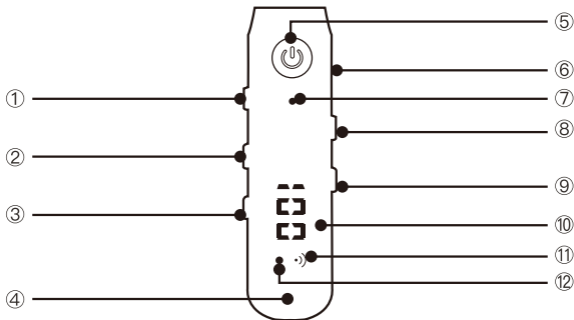
1. Do not use the earphone underwater or expose it to rain. Please store it in a cool, dry place.
2. Use and store the earphone at a normal temperature. Do not frequently move it between hot and cold environments. Please keep it away from heat sources such as heaters, ovens.
3. When using and storing, please keep away from dust and moisture.
4. Avoid harsh impacts and collisions on the earphone.
5. Do not position the earphone microphone close to the speakers to prevent audio feedback.
6. For optimal sound pickup, do not cover the earphone microphone with your hand.

Overview

The BOYA H16 Wireless Sound Card Earphone is a portable, all-in-one live streaming solution designed for mobile and travel use with true plug-and-play functionality. It features built-in reverb effects, multiple voice modes, and real-time monitoring (zero-latency sidetone), enabling seamless two-way interaction during live streaming sessions. It is ideal for a wide range of applications, including e-commerce live streaming, online teaching, entertainment broadcasting, and karaoke recording.

In addition to live streaming functions, the earphone supports essential Bluetooth features such as phone calls and music playback. The included remote control provides a variety of preset sound effects and voice-changing modes, allowing users to enhance live interactions, gaming sessions, karaoke performances, and social chatting with creative audio effects.

1. Product Structure



① Button B

Double press: Reverb level +
Short press: Crow sound effect
Long press: Gunshot sound effect

② Button M

Double press: Sound settings
Short press: Switch voice mode
Long press: Microphone on/off

③ Button C

Double press: Reverb level -
Short press: Laughter sound effect
Long press: Applause sound effect

④ Microphone Pickup Port

⑤ Power Button

Long press: Power on/off
Short press: Answer/end call or play/pause music

⑥ USB-C Charging Port

⑦ Charging Indicator

⑧ "+" Button

Long press: Previous track

Short press: Volume +

Double press: Microphone volume +

⑨ "-" Button

Long press: Next track

Short press: Volume -

Double press: Microphone volume -

⑩ Battery Level Display

⑪ Wireless Signal Icon

⑫ Power Indicator

Power On / Off

Power On: Long press the "⏻" button for 2 seconds. The indicator flashes green, indicating the earphone is powered on.

Power Off: Long press the "⏻" button for 2 seconds. The green indicator turns off, indicating the earphone is powered off.

System Reset

With the earphone powered off, long press the “⏻” button for 10 seconds until a beep is heard, then release. The microphone, reverb, and monitoring parameters will be reset to their default values.

Play / Pause

While music is playing, short press the “⏻” button to pause. Short press again to resume playback.

Previous / Next Track

While music is playing, long press the “+” button to go to the previous track, or long press the “-” button to go to the next track.

Microphone On / Off (Mic Mode)

When the earphone is powered on, long press the “M” button to enter Microphone Mode (microphone on).
Long press the “M” button again to exit Microphone Mode (microphone muted).

Sound Settings & Volume Adjustment

Double press the “M” button to enter sound setting mode. The screen will display a number + letter (the number indicates the volume level, and the letter indicates the parameter being adjusted).

Double press the “M” button repeatedly to cycle through the following modes:
Number+b, Number+C, Number+F, Number+J, Number+U

b = Microphone volume

C = Reverb level

F = Noise reduction level

J = Monitoring volume

U = Background music volume

When the number and letter are flashing, short press the “+” button or “-” button to adjust the level.

Noise reduction supports 8 levels only, while other parameters support 16 levels.

Voice Mode Switching

After long pressing the “M” button to enter Microphone Mode, short press the “M” button to cycle through the following voice modes: Pop – Live – Female – Male – Child – Electronic – Original – K-Song.

Note: When listening to music via Bluetooth, it is recommended to mute the microphone to reduce power consumption.

Instant Sound Effects

Button C

Short press: Laughter

Long press: Applause
Button B
Short press: Crow
Long press: Gunshot

Microphone & Reverb Volume Shortcuts

Double press the “+” button to increase microphone volume.
Double press the “-” button to decrease microphone volume.
Double press the “B” button to increase reverb level.
Double press the “C” button to decrease reverb level.

Charging & Battery Status

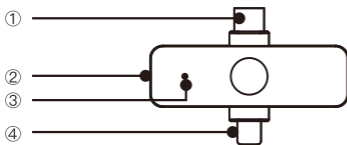
Charge the earphone using the included USB-C cable connected to a charger, computer, or power bank. A full charge takes approximately 3 hours.

–When charging with the earphone powered off, the indicator is solid red and turns off when fully charged.

–Short press the “⏻” button to display the remaining battery level on the screen. The display will turn off automatically after a few seconds.

Note: The receiver does not have a built-in battery and is powered directly by the connected device.

Receiver



1 USB-C Connector: Used for connecting to Android phones, USB-C iPhones, or computers with a USB-C port.

2 USB-C Charging Port: Supports charging the phone while using the receiver.

3 Indicator:

(1) When the receiver is plugged into a phone but not connected to the earphone, the indicator flashes green.

(2) When the receiver is successfully connected to the earphone, the indicator turns solid green.

Note: The receiver has no built-in battery and does not require power-on. Simply plug the receiver into your phone to use it.

4 Lightning Connector: Used for connecting to iPhones with a Lightning port.

2. How to Connect

Connecting the Earphone to the Wireless Receiver

- ① Power on the earphone. The wireless signal icon on the display will start flashing.
- ② Plug the receiver into the phone. The LED indicator on the receiver will flash green.
- ③ Once the receiver and earphone are automatically connected, the receiver's LED will turn solid green, and the wireless signal icon on the display will remain on.

Note: If the receiver does not light up after being plugged into the phone, please check whether the phone's OTG function is enabled.

- ① Most iPhone and Huawei phones support plug-and-play and do not require OTG to be enabled manually.
- ② Some Android phones (such as vivo, OPPO, etc.) require OTG to be enabled manually:
Go to Settings, search for "OTG", and enable the OTG function.
Please note that OTG may automatically turn off after 5-10 minutes of inactivity.
- ③ Some newer Android phones may also require USB debugging to be enabled: Settings – System & Updates – Developer Options – USB debugging (On).

Connecting the Earphone to the Remote Control

Insert two AAA batteries into the remote control. Press any button on the remote control. The red LED indicator on the remote control will light up, and the earphone will provide a corresponding audio prompt.

Vocal Removal & Ducking Functions

*Vocal Removal: Short press to turn the vocal removal function on or off. Vocal removal is disabled by default. When enabled, the vocal part of background music will be reduced.

*Ducking: Short press to turn the ducking function on or off. When ducking is enabled, the background music volume will automatically decrease when speech is detected and return to normal when there is no speech input.

When ducking is enabled, do not set the background music volume too high.

Connecting the Earphone to a Mobile Phone via Bluetooth

Listening to Music:

- ① Long press the "⏻" button to turn on the earphone.
- ② Open Bluetooth settings on your phone and search for devices.
- ③ Select "BOYA H16" to connect (previously paired phones will connect automatically).
- ④ Open a music app (such as KuGou, QQ Music, etc.) to play music.

Phone Calls:

- ① Short press the “⏻” button to answer or end a call.
- ② Long press the “⏻” button for 1 second to reject a call.
- ③ Short press the “+” or “-” button to adjust the call volume

3. Operation Guide

Using with a Mobile Phone

- ① Plug the receiver into the live-streaming phone.
- ② Power on the earphone. It will automatically connect to the receiver (long press the “M” button to power on the microphone).
- ③ Open the live-streaming app on the phone. You may use a second phone to connect to the BOYA H16 earphone via Bluetooth to play background music. The music will be transmitted to the earphone and sent to the live stream at the same time.

Note:

The phone connected to the receiver must have Bluetooth turned off.
If background music is required, use a second phone to connect to the earphone via Bluetooth.

Using with a Computer

- ① Plug the receiver into the computer's USB-C port.
(If the computer only has a USB-A port, use a USB-C female to USB-A male adapter.)
- ② Power on the earphone. It will automatically connect to the receiver (long press the “M” button to turn on the microphone).
- ③ Open recording or live-streaming software on the computer to start recording or streaming.

You can connect a phone to the BOYA H16 earphone via Bluetooth to play background music, which will be transmitted to the computer as accompaniment.

Note:

If audio cannot be transmitted after plugging in the receiver, please follow the system settings below.
(Under normal circumstances, the earphone supports plug-and-play and does not require additional settings).

macOS System Settings

- ① Open System Settings and select the Sound.
- ② Set “BOYA H16” as the Input device.
- ③ Set “BOYA H16” as the Output device.



Windows Sound Settings

- ① Open Settings – System – Sound – Sound Control Panel.
- ② Under the Playback tab, set “BOYA H16” as the default device.
- ③ Under the Recording tab, set “BOYA H16” as the default device.



Mobile Karaoke Recording Guide

- ① Plug the receiver into the phone
- ② Power on the earphone. It will automatically connect to the receiver (long press the “M” button to turn on the microphone).
- ③ Open a karaoke app to record (Background music played within the karaoke app will be recorded directly without a second phone)

4. Specifications

Model: BOYA H16

Net Weight: 52 g

Charging Port: USB-C

Bluetooth Profiles: HFP / HSP / A2DP / AVRCP

Bluetooth Version: Bluetooth 5.0

Charging Input: 5 V=1 A

Charging Time: Approx. 3 hours

Battery Life: Approx. 10 hours

Battery Capacity: 800 mAh

Operating Range: 10 m to 20 m

Wireless Frequency: 2.402-2.482 GHz

Remote Controller Battery: AAA batteries × 2

感谢您选择BOYA!

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: sales@boya-mic.com

注意事项

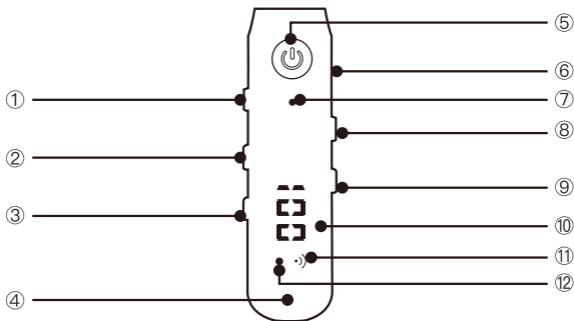
1. 不要在水下使用本机，不要将其暴露在雨中。请存放在阴凉干燥处。
2. 请在常温下使用并保存。不要频繁地将其从过热状态移至过冷状态，并远离热源，如加热器、烤箱或其他产生热量的设备。
3. 在使用和储存时，请注意防尘和防潮。
4. 小心避免猛烈的碰撞。
5. 为避免声音反馈，请勿将麦克风靠近扬声器。
6. 为获得最佳拾音模式，请勿将手放在麦克风上。

概述

BOYA H16无线声卡耳机是一套直播设备，可随身携带旅行直播，即插即用。耳机自带混响功能及多种声音模式切换，可实时监听，耳返无延迟，能连麦PK双向沟通，为卖货直播、教学直播、娱乐直播、K歌录音等多种使用场景提供便利。

声卡耳机保留了蓝牙基本功能接打电话、听歌，配备的遥控有多种特效音效和辅助变音音效，适用于微信搞怪聊天、直播互动、玩游戏魔音变声，在K歌、游戏、聊天、直播时植入音效可为您增加无限乐趣。

一、部件说明图



① 按键B：双击混响+

短按乌鸦特效

长按机枪特效

② 按键M：双击声音设置

短按变音切换

长按开启/关闭话筒

③ 按键C：双击混响-

短按大笑特效

长按鼓掌特效

④ 麦克风拾音孔

⑤ 电源键：长按开/关机

短按接听/挂电话

短按播放/暂停

⑥ Type-C充电口

⑦ 充电指示灯

⑧ +键

长按上一曲，短按音量+，双击话筒音量+

⑨ -键

长按下一曲，短按音量-，双击话筒音量-

⑩ 电量显示

⑪ 无线信号图标


⑫ 开机指示灯

开/关机

长按“”键2秒，开机指示灯绿灯闪烁，表示已开机。

长按“”键2秒，绿灯熄灭，表示已关机。

系统复位

耳机关机状态下，长按“”按键10秒松手，听到嘟的一声松手，麦克风，混响，监听恢复默认值。

播放/暂停

耳机播放音乐时，单击“⏸”按键暂停，再次单击播放。

上一曲/下一曲

耳机播放音乐，长按“+”键切换上一曲，长按“-”键切换下一曲

打开/关闭麦克风（话筒模式）

耳机开机状态，长按“M”键进入话筒模式，即把麦克风打开；再次长按“M”键退出话筒模式，即把麦克风静音。

声音设置及对应音量调节

双击“M”键进入声音配置调节，屏幕显示：数字+字母（数字代表音量档位，字母代表设置模式）；

循环双击“M”键可依次切换：数字+b, 数字+C, 数字+F, 数字+J, 数字+U
（b=话筒音量，C=混响大小，F=降噪级别，J=监听音量，U=伴奏音乐音量）

在数字+字母闪烁时，短按“+”或“-”即可调节级别大小，一共16级可调（降噪仅有8档位）。

音效模式切换

长按“M”键进入话筒模式，短按“M”可切换：流行-直播-女神-男神-娃娃音-电音-原声-K歌。

注意：使用蓝牙听歌时建议将麦克风静音，减少耗电

快捷特效音

短按“C”键：大笑

长按“C”键：鼓掌

短按“B”键：乌鸦

长按“B”键：机枪

快捷键调话筒/混响音量

双击“+”键，话筒音量+，双击“-”键，话筒音量-。

双击“B”键，混响音量+，双击“C”键，混响音量-。

充电及查看电量

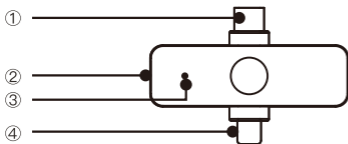
声卡耳机用充电线连接充电器、电脑、移动电源等设备进行充电，通常充满电为3小时。

—充电时指示灯红灯常亮，表示设备在充电，充电100%后指示灯灭。

—短按“⏸”键，屏幕显示耳机剩余电量，几秒后熄灭。

—接收器无内置电池，无需充电，工作时由设备供电

接收器



① Type-C接口：连接Type-C接口的安卓/苹果手机/电脑使用

② 充电接口：Type-C充电接口，支持边给手机充电边使用

③ 状态指示灯：

插上手机后，接收器与耳机未连接时，绿灯闪烁

接收器与耳机连接成功，绿灯常亮（接收器无内置电池，无需开机，连接手机即可使用）

④ Lightning接口：连接Lightning接口的苹果手机使用

二、如何连接

1、耳机与无线接收器连接

① 耳机开机，显示屏无线信号图标闪烁

② 把接收器插上手机，接收器的LED灯绿灯闪烁

③ 自动与耳机连接成功后，接收器LED灯绿灯常亮，显示屏的无线信号图标常亮

注意：如果接收器插手机不亮灯，请先检查手机OTG功能是否有打开：

- 苹果手机和华为手机即插即用
- VIVO/OPPO等部分安卓手机需要手动打开OTG功能（搜索“OTG”-打开“OTG供电”）；
- OTG在不使用的情况下5-10分钟手机会自动关闭。
- 有些新安卓手机需要打开usb调试，在设置-系统和更新-开发人员选项-USB调试（打开）

2、耳机与遥控连接

将2节7号干电池装入遥控，按下遥控任意的按键，遥控红色LED灯亮，耳机有相应的声音提示；

消原音/闪避功能解释：

*消原音功能：短按开启/关闭消音功能。




消音功能默认为关闭，消音功能开启时可消除伴奏音乐的人声部分。

*闪避键：短按开启/关闭闪避功能。

闪避开启时，伴奏音乐会随着话筒的声音输入逐渐减小；话筒无声音输入时，伴奏音乐恢复正常。

开启闪避后，请勿将伴奏音量调太高。

3、耳机与手机蓝牙连接

- ① 听歌：长按耳机“”键开机，在手机设置找到蓝牙选项，点击搜索蓝牙设备，找到“BOYA H16”并点击连接（已配对过的手机会自动连接），打开手机APP听歌；
 - ② 拨打电话：当有来电时，短按“”键接通电话/挂断通话；长按“”键一秒拒接电话；
- 短按“+”键和“-”键调节通话音量大小

三、各场景使用说明

1、手机连接说明

- ① 接收器插上直播手机
- ② 耳机开机自动与接收器连接（长按M键开启麦克风）
- ③ 打开直播手机APP，可用第二部手机蓝牙连接BOYA H16耳机，将音乐传输给耳机做伴奏并传输到直播间。

注意：用于直播//录音的手机必须关闭蓝牙，需要伴奏时可用第二部手机蓝牙连接耳机

2、电脑连接说明

- ① 接收器插上电脑Type C口（部分电脑如果仅有USB-A接口，需要用Type-c母座转USB-A公头转接）
- ② 耳机开机自动与接收器连接（长按M键开启麦克风）
- ③ 打开电脑录音软件即可录音/直播,可用手机蓝牙连接BOYA H16耳机，将音乐传输给耳机做伴奏并传送到电脑。

注意：插上接收器后如无法传输，请按照以下步骤设置（正常情况可即插即用，无需设置）

Mac系统程序设置

- ① 打开电脑的“系统偏好设置”，然后选择“声音”图标；
- ② 选择“BOYA H16”为输入设备；
- ③ 选择“BOYA H16”为输出设备。



Windows系统程序设置

- ① 打开“设置”，进入“系统”→“声音”→“声音控制面板”；

- ② 在“播放”选项卡下选择“BOYA H16”为默认设备;
- ③ 在“录制”选项卡下选择“BOYA H16”为默认设备。



3、手机录歌操作步骤

- ① 接收器插上手机
- ② 耳机开机自动与接收器连接（长按M键开启麦克风）
- ③ 打开手机的K歌软件即可录音,播放K歌软件中的伴奏音乐也可同时被录制，无需使用第二部手机蓝牙连接耳机传输伴奏。

四、参数说明

产品型号：BOYA H16

产品净重：52g

充电端口：Type C

蓝牙协议：HFP/HSP/A2DP/AVRCP

无线版本：蓝牙5.0

充电电压：5V=1A

充电时间：3小时

续航时间：10小时

耳机电池容量：800mAh

传输范围：10-20米

无线频率：2.402-2.482GHz

遥控电池：7号干电池*2



Scan the QR Code to Access the
Complete User Manual 扫码获取《用户手册》



Scan the QR Code to Access
the Tutorial Videos 扫码观看操作教程