# Manuals+

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# BOYA

## BOYA BOUALINK 3 AI Powered Button Sized Wireless Microphone

## 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

## 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 a professional's.
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 BOYAUNK 3, a 2.4 GHz Ultra-Mini Wireless Microphone System, features industry-leading noise cancellation, offering remarkable flexibility for recording. Each transmitter can pair with up to 4 receivers simultaneously.
- Its ease of operation, the BOYALINK 3 is ideal for content creation, live streaming, vlogging, mobile journalism, and much more.
- The BOYAUNK 3 includes USB-C and Lightning adapters, along with a 3.5 mm
- TRS to TRS audio cable, ensuring broad compatibility wth smartphones, tablets, computers, cameras, and other devices.
- The receiver is also equipped with a USB-C charging port that supports simultaneous operation and charging of the receiver and external devices. Additionally, the included charging case allows you to recharge the transmitter and receiver anywhere, making the BOYALINK 3 kit highly portable and convenient for on-the-go use.

## Packing List

## BOYALINK 3-01

| | |
|---|---|
| Transmitter | x 2 |
| Receiver | x 1 |
| Charging Case | x 1 |
| USB-C Adapter | x 1 |
| Lightning Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 2 |
| Magnetic Clip | x 2 |
| Fur Windshield | x 2 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |

## BOYALINK 3-02

| | |
|---|---|
| Transmitter | x 2 |
| Receiver | x 1 |
| Charging Case | x 1 |
| USB-C Adapter | x 1 |
| Lightning Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 2 |
| Magnetic Clip | x 2 |

| Fur Windshield | x 2 |
|---|---|
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |

| BOYALINK 3-03 | |
|---|---|
| Transmitter | x 2 |
| Receiver | x 1 |
| Charging Case | x 1 |
| USB-C Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 2 |
| Magnetic Clip | x 2 |
| Fur Windshield | x 2 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |

| BOYALINK 3-04 | |
|---|---|
| Transmitter | x 2 |
| Receiver | x 1 |
| Charging Case | x 1 |
| USB-C Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 2 |

| | |
|---|---|
| Magnetic Clip | x 2 |
| Fur Windshield | x 2 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |

| BOYALINK 3-05 | |
|---|---|
| Transmitter | x 2 |
| Receiver | x 1 |
| USB-C Adapter | x 1 |
| Lightning Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 2 |
| Magnetic Clip | x 2 |
| Fur Windshield | x 2 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |
| Magnetic Charging Cable | x 2 |

| BOYALINK 3-06 | |
|---|---|
| Transmitter | x 2 |
| Receiver | x 1 |
| USB-C Adapter | x 1 |
| Lightning Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |

| Magnet | x 2 |
|---|---|
| Magnetic Clip | x 2 |
| Fur Windshield | x 2 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |
| Magnetic Charging Cable | x 2 |

| BOYALINK 3-07 | |
|---|---|
| Transmitter | x 1 |
| Receiver | x 1 |
| USB-C Adapter | x 1 |
| Lightning Adapter | x 1 |
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 1 |
| Magnetic Clip | x 1 |
| Fur Windshield | x 1 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |
| Magnetic Charging Cable | x 1 |

| Lightning Adapter | x 1 |
|---|---|
| 3.5 mm TRS to TRS Audio Cable | x 1 |
| Magnet | x 1 |
| Magnetic Clip | x 1 |
| Fur Windshield | x 1 |
| Carrying Pouch | x 1 |
| USB-C to USB-A Data Cable | x 1 |
| Magnetic Charging Cable | x 1 |

## Product Structure

### Transmitter (BOYALINK 3-TX)

1.
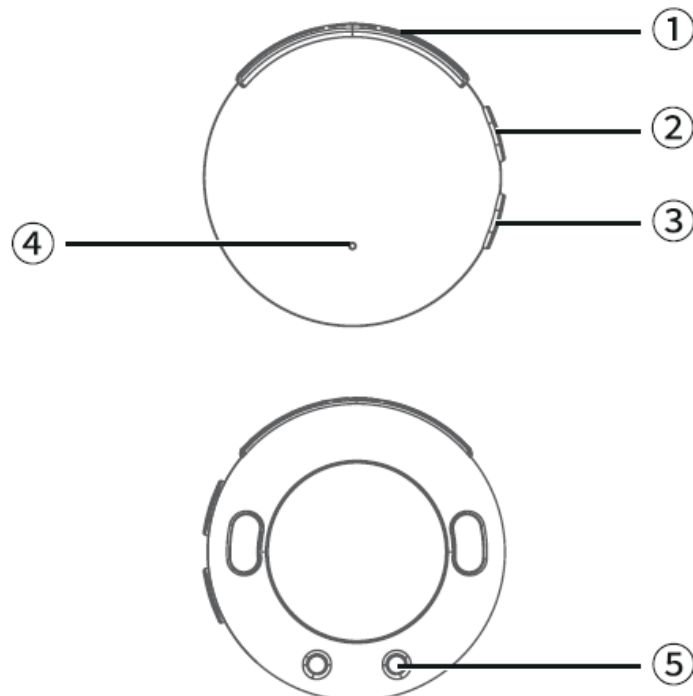


In-built Microphone Capsule
2. Power Button
   - Press and hold for 2 seconds to power on or off.
   - Press once to mute or unmute the microphone.

- Press and hold for 5 seconds to enter pairing status in shutdown mode.

3. NC Button

Press once to enable or disable noise cancellation.

Press twice to start or stop recording a video when the receiver is connected to a smartphone and paired with the transmitter. Note that this feature is only supported on smartphones where the volume button functions as a camera shutter.

4. Status Indicator

In pairing mode, the status indicator on the transmitter will blink blue quickly for 5 minutes while waiting to pair with the receiver. After the timeout, the transmitter will exit pairing mode, and its indicator will blink blue slowly.

Please charge the transmitter when its status indicator blinks red quickly, or it will automatically shut down after 10 minutes.

5. Charging Contacts

Charging will begin when the charging contacts of the transmitter connect to the charging pins of the charging case.

| Status | Indicator |
|---|---|
| Unpaired | Blinks blue slowly |
| Pairing | Blinks blue quickly |
| Paired successfully | Solid blue |
| Mute | Blinks red slowly |
| Noise cancellation enabled | Solid green |
| Low battery | Blinks red quickly |
| Charging | Solid red |
| Fully charged | Red light off |
| Firmware updating | Blinks red and green alternately |

**Receiver (BOYALINK 3-RX)**
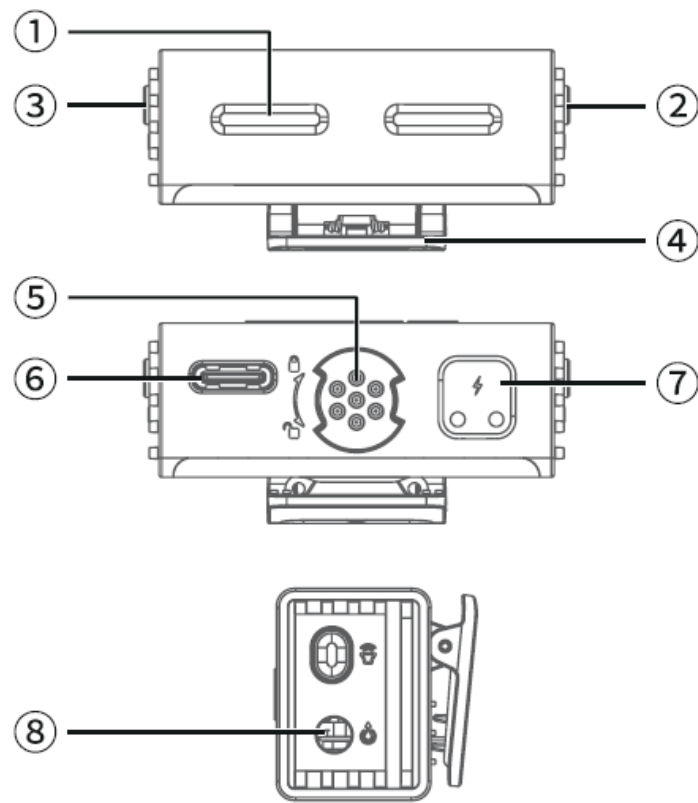
1. **Status/ Gain Indicator**

   Status Indicator (Example: Receiver paired with two transmitters)

| Status | Indicator |
|---|---|
| Unpaired | Four lights blink blue slowly |
| Pairing | Four lights blink blue quickly |
| Pair successfully | Four lights are solid blue |
| Weak noise cancellation enabled | Two lights on the left blink green twice |
| Strong noise cancellation enabled | Four lights blink green twice |
| Low battery | Four lights blink red quickly |
| Charging | Four lights are solid red |
| Fully charged | Red light off |
| Firmware updating | Blinks red and green alternately |

**NOTE**: In pairing mode, the status indicator on the receiver will blink blue quickly for 5 minutes while waiting to pair with the transmitters. After the timeout, the receiver will exit pairing mode, and its indicator will blink blue slowly.

**Gain Indicator**

| Function | Indicator | |
|---|---|---|
| First level of gain | | |
| Second level of gain | | |
| Third level of gain | | |
| Fourth level of gain | | |

NOTE:

The gain indicator will stay solid blue for 2 seconds and then automatically switch to the working status indicator.

2. **Power Button**
   - Press and hold for 2 seconds to power on or off.
   - Press and hold for 5 seconds to enter pairing status in shutdown mode.

3. **Settings Button**
   - Press once to adjust the gain levels.
   - Press twice to switch between strong and weak noise cancellation levels when noise cancellation is enabled on the transmitter.

4. **Belt Clip**

   Can be mounted on a cold shoe of a camera.

5. **Connecting Contacts**

   Connect the receiver to a smartphone, tablet, computer, or other device using the provided Lightning / USB-C adapter.

6. **USB-C Charging Port**

   For charging the receiver via the included USB-C to USB-A data cable

   When the receiver with a Lightning /USB-C adapter is connected to a smartphone, tablet, or other external devices, it supports simultaneous charging of both the receiver and the external device through this charging port.
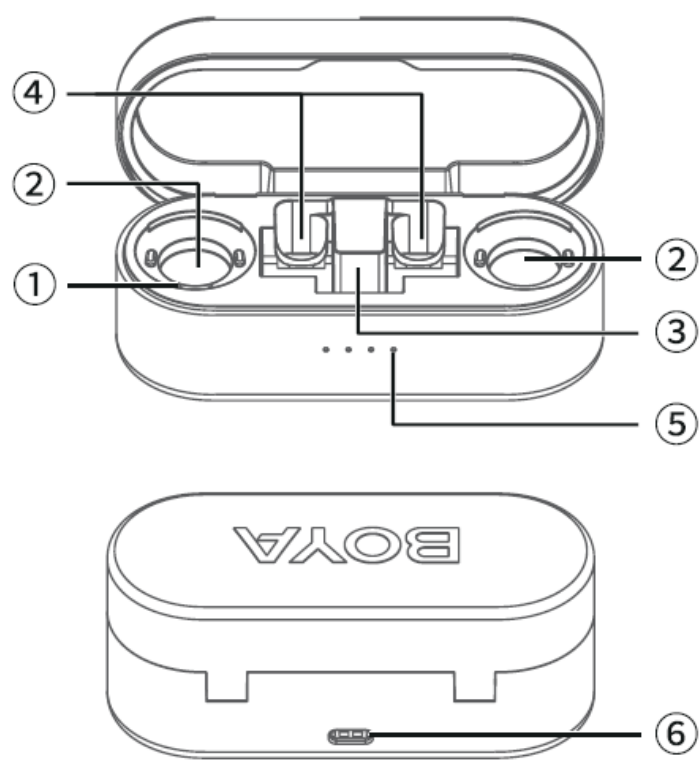
7. **Charging Contacts**

   Charging will begin when the charging contacts of the receiver connect to the charging pins of the charging case.

8. **3.5 mm Audio Output Jack**

   Used to output audio to a camera.

**Charging Case (BOYALINK 3-CC)**

1.



   Charging pins
2. Slot for Transmitters
3. Slot for Receiver
4. Slot for Adapters
5. Indicator

   The definition of indicator In the Table: ☼ is blinking ● is solid ○ is off

   When the charging case is not connected to power (not In charging mode), opening the case or placing the transmitters and receiver into it for charging, this indicator will display the case's current battery level.

| Batter level (case) | Indicator |
|---|---|
| 0 to 10% | ☼ ● ● ● |
| 11% to 25% | ○ ● ● ● |

   **NOTE**

   When the charging case is at low or below 10%, it can not charge the transmitter(s) or
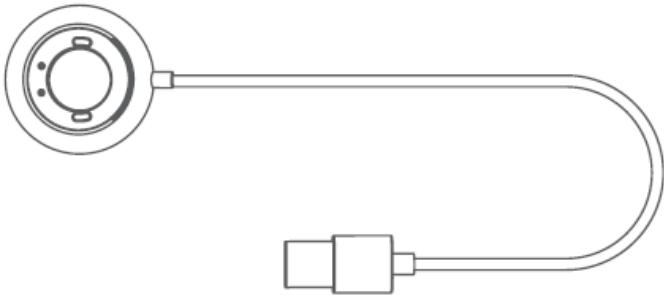
receiver.

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

| 26% to 49% | ○ ○ ● ● |
| 50% to 74% | ○ ○ ○ ● |
| 75% to 100% | ○ ○ ○ ○ |
| Batter level (case) | Indicator |
| >25% | ☀ ● ● ● |
| 25% to 49% | ○ ☀ ● ● |
| 50% to 74% | ○ ○ ☀ ● |
| 75% to 99% | ○ ○ ○ ☀ |
| Fully charged | ○ ○ ○ ○ |

6. **USB-C Charging Port**

   For charging the charging case via the included USB-C to USB-A data cable.

**Magnetic Charging Cable**



If the purchased combo does not include a charging case, the transmitter can be charged using the magnetic charging cable. When the charging contacts on the transmitter are near the charging dock, the magnetic force will automatically attract it and start charging.

## Operation Guide

**Pairing Transmitters and Receivers**

1. The transmitter(s) and receiver will power on automatically as soon as they are taken

out of the charging case.

2. The transmitter(s) and receiver are pre-paired before leaving the factory. Therefore, they will automatically pair once powered on. Their indicators will turn solid blue when the pairing is successful. If they are disconnected, please follow the below steps:

   1. Press and hold the power button on the transmitter(s) for 5 seconds in shutdown mode until its indicator blinks blue quickly to enter pairing mode.
   2. Press and hold the power button on the receiver for 5 seconds in shutdown mode until its indicator blinks blue quickly to enter pairing mode.
   3. The transmitter(s) and receiver are successfully paired when their indicators turn solid blue.

3. If the transmitter needs to be paired with multiple receivers, after it successfully pairs with the first receiver, press and hold the power button on the second receiver for 5 seconds to make its indicator blink blue quickly, indicating it has entered pairing mode. Once pairing is successful, the second receiver's indicator will turn solid blue. You can then pair additional receivers using the same method. Each transmitter can connect to a maximum of four receivers simultaneously.

**Placing Transmitter**

1. Attach the fur windshield to the transmitter(s) when using it outdoors or in a windy environment.
2. The transmitter can be directly attached to clothing via its magnetic clip, or using with the magnet, offering users greater flexibility when wearing the transmitter.

**Using with a Mobile Device**

Mount the correct adapter on the receiver according to your device's port and then connect the receiver to your smartphone, tablet, computer, or other mobile device. Launch the BOYA Central app or another recording app to start recording. If the app is compatible, please select the external microphone(BOYALINK 3).

In a noisy environment, it is recommended to press the NC button on the transmitter once to enable noise cancellation. Use the settings button on the receiver to switch between strong and weak noise cancellation levels to enhance recording quality.

**Recommended Scenarios for Using Noise Cancellation Mode:**

Strong Noise Cancellation: Ideal for blocking out highly noisy environments such as street markets, stadiums, subway or train stations, and construction sites. Weak Noise Cancellation: Suitable for reducing mild disturbances like phone ringtones, vehicle braking sounds, water flow, or printer operation noise.

**NOTE:**

When connecting the receiver to devices such as smartphones or computers, it is recommended to use the BOYA Central app for audio recording. This app provides the parameter configurations for the transmitter(s) and receiver, as well as firmware updates.

**Using with a Camera**

Use the included 3.5 mm TRS to TRS audio cable to connect the receiver's 3.5 mm audio output jack to a camera, mixer, and other device. The audio captured by the transmitter will be transmitted to the connected device.

**NOTE:**

When connecting to a camera, it is recommended to select the corresponding camera brand and model in the BOYA Central app first. Complete the gain preset for the receiver and camera before starting recording to ensure optimal audio capture. For more details, please refer to the Instructions on Recommended Gain for Camera Setup on the official website.

**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 NC button on the transmitter(s) to enable noise cancellation ( this function will be enabled or disabled simultaneously on both transmitters). You can also press the settings button on the receiver twice to select an optimal noise cancellation grade.
3. After recording, put the transmitter(s) and receiver back into the case for charging.

**NOTE:**

Due to 2.4 GHz wireless frequency,  signal can be easily attenuated. Please try to avoid obstacles, such as walls and buildings, and avoid close proximity to devices with 2.4

GHz signals, such as highpowerWi-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.

- No sound
    1. Make sure the transmitter and receiver are paired, and their indicators are solid blue.
    2. Make sure the microphone is not currently muted. If the transmitter's indicator blinks red slowly, press its power button on the transmitter(s) to unmute the microphone.
- The transmitter(s) can not pair with the receiver
  Turn off the transmitter(s) and the receiver. Press and hold their power buttons for 5 seconds until their status indicators blink blue quickly to pair again.
- Operating range is limited, sound changes, or noise appears
    1. Make sure there is no interference from high-power wireless routers or devices  in your recording environment. If the recording environment can't be changed, you need to find the optimal distance and angle for recording.
    2. Due to 2.4 GHz wireless frequency, signal can be easily attenuated. Please try to avoid obstacles, such as walls and buildings, and avoid close proximrty to devices with 2.4 GHz signal, such as high power Wi-Fi antennas, radios, etc.
    3. Make sure the receiver is well connected to your device properly.
      The transmitter(s) or the receiver don  power on
      If the battery is completely depleted due to the transmitter(s) or the receiver has not been used for a long time, charge It.

**The charging case can't charge the transmitter  or receiver**

- If the remaining charge of the charging case is too low, please recharge the case and try again.
- Wipe the charging contacts on the transmitter (s), receiver, and charging pins in the case with a clean cloth. Make sure  there Is no dirt covering them.

- If the charging contacts and pins are not firmly connected due to insufficient magnetic force, please contact SOYA aftersales support.

## Specifications

### Transmitter {BOYALINK 3-TX)

| | |
|---|---|
| Transmission Type | 2.4GHz |
| Transmission Range | Upto 300 m (without obstacles) |
| Polar Pattern | Omnidirectional |
| Antenna | LOS Antenna |
| | |
| Distortion | s0.1% |
| Frequency Response | 20 Hz to 20 kHz |
| Sensitivity | -32dB |
| Reference Audio Input Level | -20 to -42 dBu (MIC input, 0 dB Gain) |
| Sampling Rate | 48kHz |

| | |
|---|---|
| BitRate | 24-bit |
| Signal-to-noise Ratio | >8SdB |
| Audio Input | Built-in condenser microphone capsule |
| Power Supply | Built-in Li-ion battery |
| Battery Capacity | 130mAh |
| Battery life | Approx. 6 hours |
| Charging Time | Approx. 1.5 hours |

| Weight | 7g |
|---|---|
| Dimensions | CD26.1x10mm (CD x HJ, excluding magnet and magnetic clip |
| Operating Temperature | ere to sO"c |
| Storage Temperature | -20″( to SO"C |

## Receiver (BOYALINK 3-RX)

| Transmission Type | 2.4GHz |
|---|---|
| Transmission Range | Up to 300 m (without obstacles) |
| Polar Pattern | Omnidirectional |
| Distortion | :S0.1% |
| Frequency Response | 20 Hz to 20 kHz |
| Signal-to-noise Ratio | >85 dB |
| Audio Output | Lightning or USB-C digital output |
| Battery Capacity | 240mAh |
| Weight | 16.Sg |
| Dimensions | 44.2 x 22×20.79 mm ( xWxH) |
| Operating Temperature | O"C to SO"C |

| Storage Temperature | -2erc to sere |
|---|---|

## Charging Case (BOYALINK 3-CC)

| Battery Type | Built-in Li-ion battery |
|---|---|
| Battery Capacity | ISOOmAh |
| Power Supply | USB-Cport |
| ChargingTime | Approx. 2 hours (5 V 2 A) |
| Charging Cycles | Morethan1.5times (2*TX) |
| Weight | 10B.Sg |
| Dimensions | 108×42 x42 mm(L x WxH) |
| Operating Temperature | O"C to 50°( |
| Storage Temperature | -20"C to SO"C |

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## FCC Warning

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.

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

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:
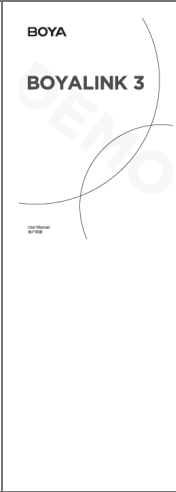
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure condition without restriction.

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User Manual

BOUALINK 3, BOUALINK 3 AI Powered Button Sized Wireless Microphone, AI Powered Button Sized Wireless Microphone, Button Sized Wireless Microphone, Sized Wireless Microphone, Wireless Microphone

## References

- [User Manual](#)

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