**BOYA Magic-02**

# BOYA Magic-02 Wireless Lavalier Microphone Instruction Manual

Model: Magic-02 (USB-C/Lightning/3.5mm TRS)

## 1. INTRODUCTION AND OVERVIEW

The BOYA Magic-02 is a versatile 4-in-1 wireless lavalier microphone system designed for content creators. It offers multiple usage modes, advanced audio protection features, and broad compatibility across various devices.

### Key Features:

- **Transformable Flexibility:** Functions as a clip-on, handheld, desktop, or on-camera microphone.
- **AI Noise Reduction:** Equipped with True AI-power noise reduction, suppressing up to 40dB of interference.
- **Ultra-Slim & Long Battery Life:** Weighs just 7g, 13mm thin. Offers 6 hours per transmitter and 30 hours total with the charging case.
- **Professional Audio Protection:** Features a limiter and safety track for distortion-free, 48kHz/24-bit studio-grade sound.
- **Wide Compatibility:** Includes USB-C, Lightning, and 3.5mm TRS receivers for instant connection to smartphones, cameras, camcorders, tablets, and computers.

## 2. PRODUCT COMPONENTS

The BOYA Magic-02 system includes the following components:

- 2 x BOYA Magic Transmitters (TX)
- 1 x USB-C Receiver (RX)
- 1 x Lightning Receiver (RX)

- 1 x 3.5mm TRS Receiver (RX)
- 1 x Charging Case
- 2 x Magnets
- 3 x Fur Windshields (2 for TX, 1 for Charging Case)
- 1 x USB-C to USB-A Data Cable
- 1 x USB-C to USB-C Data Cable
- 1 x All-in-One Storage Bag



**In 2012**
BOYA was founded

**In 2013**
BY-M1: 10M+ sold, the first of its kind

**In 2015**
Partnership with BEST BUY; Established BOYA's First Audio Lab

**In 2017**
R&D Team Grows to 60+ for Innovation

**In 2018**
Launched World's First Portable Receiver for USB-C & Lightning

**In 2024**
BOYAMIC, Gold winner at Muse Design

**In 2023**
Multiple Mics Won Red Dot and IF

**In 2021**
Garnered investment from world-renowned investment institutions

**In 2020**
Sales Revenue Doubled 2019

**In 2019**
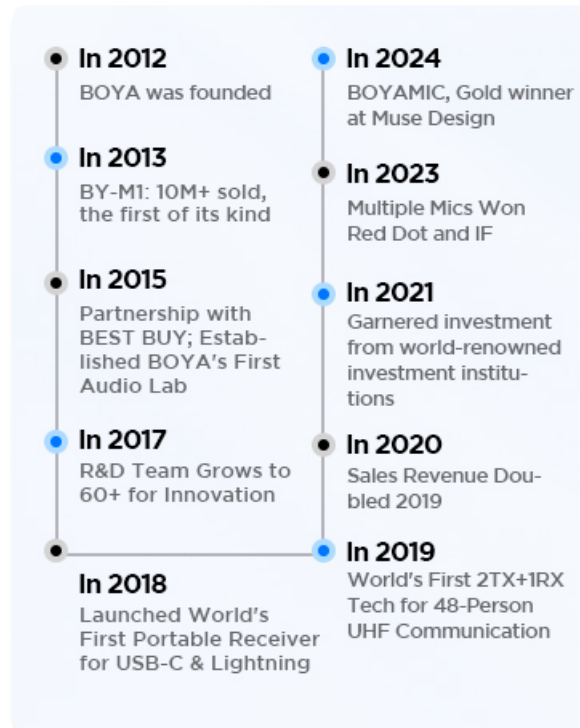World's First 2TX+1RX Tech for 48-Person UHF Communication

Image: All components included in the BOYA Magic-02 package. This includes two transmitters, three types of receivers (USB-C, Lightning, 3.5mm TRS), a charging case, magnets, fur windshields, and various cables, all neatly organized in a storage bag.

## 3. SETUP

Follow these steps to set up your BOYA Magic-02 Wireless Lavalier Microphone:

1. **Charge the Devices:** Ensure both transmitters and the charging case are fully charged. The charging case acts as a power bank for the transmitters.
2. **Select Receiver:** Choose the appropriate receiver (USB-C, Lightning, or 3.5mm TRS) for your recording device.
3. **Connect Receiver:** Plug the selected receiver directly into your smartphone, camera, camcorder, tablet, or computer. For Android devices, ensure OTG is enabled in system settings before connecting.
4. **Power On Transmitters:** Turn on the transmitters by pressing and holding the power button for 5 seconds until their status indicators blink blue quickly to pair.
5. **Pairing:** The transmitters will automatically pair with the receiver. Once paired, the indicator lights will turn solid blue.
6. **Attach Microphone:** Clip the transmitter discreetly onto your clothing using the built-in clip or

the included magnets for a secure fit.

# AI Noise Cancellation

### Intelligent noise reduction without affecting vocals

**Trained on**
**700k+** noise samples

**Refined**
**20k+** hours of deep learning

**Up to**
**-40dB** cancellation depth

Image: A BOYA Magic-02 transmitter discreetly clipped onto a user's shirt, demonstrating its compact and wearable design.

## Video: How to Set Up BOYA Magic on My Phone

Your browser does not support the video tag. Please update your browser to view this content.

This video provides a step-by-step guide on connecting and setting up the BOYA Magic-02 microphone system with a smartphone, demonstrating the ease of use and compatibility.

## 4. OPERATING INSTRUCTIONS

Maximize your audio recording experience with the BOYA Magic-02's versatile operating modes and features.

## 4-in-1 Usage Modes:

- **Clip-On:** Attach the lightweight 7g transmitter directly to your clothing for discreet recording.
- **Handheld:** Insert the transmitter into the charging case to convert it into a handheld microphone for interviews or presentations.
- **Desktop:** Pair with a compatible BOYA stand (sold separately) for professional desktop recording.
- **On-Camera:** Plug the receiver directly into your camera's hot shoe for integrated audio capture.



Image: Demonstrates the four versatile ways to use the BOYA Magic-02: as a desktop microphone, a handheld microphone, a discreet clip-on lavalier, and mounted on a camera.

## AI Noise Reduction:

The BOYA Magic-02 features True AI-power noise reduction. Activate this feature with a single button press on the transmitter to effectively suppress up to 40dB of background noise, ensuring pristine vocals even in noisy environments.



Image: A visual representation of the AI Noise Cancellation technology, showing how it intelligently reduces background noise while preserving vocal clarity.

## Safety Track & Limiter:

For professional audio protection, the microphone includes a limiter to prevent audio peaks and a safety track that records a backup audio track at -12dB to prevent clipping and distortion. This ensures high-quality 48kHz/24-bit sound comparable to studio recordings.

## Thin. Light. Easy to Carry

26.5mm(1.04 in)

141.3mm(5.6 in)

141.3 X 26.5mm (5.6 X 1.04 in)

### Fill Creativity into Your Audio

: 7g (0.25 oz)   Thin: 13mm(0.5 in)

Image: A graphic illustrating the Smart Limiter and Safety Track features, demonstrating how they prevent audio distortion and provide a backup recording for critical moments.

### BOYA Central App Control:

Download the BOYA Central app to fine-tune settings such as output gain, noise cancellation level, recording modes (mono/stereo), and custom EQ presets for a personalized audio experience.

### Effortless 30 Hours Battery Performance

**6H**
TX Battery Life

**2H**
Charging Time

**30H**
Total Usage

30h

Image: A screenshot of the BOYA Central app interface, showing various settings like output gain, noise cancellation level, recording modes, and EQ adjustments for precise control over the microphone.

### Video: How to Use the BOYA Magic App

Your browser does not support the video tag. Please update your browser to view this content.

This video demonstrates how to connect the BOYA Magic-02 to the BOYA Central app and utilize its advanced settings for customized audio recording.

### 5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your BOYA Magic-02 system.

- **Charging:** Always return transmitters to the charging case when not in use. The case provides up to 30 hours of total usage. Connect the charging case to a USB-C power source when its indicator lights are low.
- **Cleaning:** Regularly wipe the charging contacts on the transmitters and charging pins in the

case with a clean, dry cloth to ensure proper connection and prevent charging issues.

- **Storage:** Store the microphone system in the provided all-in-one storage bag to protect it from dust, moisture, and physical damage.
- **Battery Care:** Avoid completely depleting the batteries for extended periods. Charge the devices regularly, especially if they haven't been used for a long time.



Image: Illustrates the impressive 30-hour battery performance of the BOYA Magic-02, detailing 6 hours of transmitter use time and 2 hours of charging time.

## 6. TROUBLESHOOTING

If you encounter problems with your BOYA Magic-02, refer to the following checklist. If the issue persists, contact the seller for after-sales service.

- **Transmitter(s) cannot 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.

- **Charging case cannot pair with the receiver:**
  - When using the charging case as a handheld or desktop microphone, ensure the microphone is placed in the first slot. If the microphone is already in the first slot but cannot connect to the receiver, remove it and re-pair following the steps above.

- **Operating range is limited, sound changes, or noise appears:**
  - Make sure there is no interference from high-power wireless routers or devices in your recording environment.
  - Due to 2.4GHz wireless frequency, signal can be easily attenuated. 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.
  - Make sure the receiver is well connected to your device properly.

- **Transmitter(s) or the receiver doesn't power on:**
  - If the battery is completely depleted because the transmitter(s) or the receiver has not been used for a long time, charge it.

- **Charging case can't charge the transmitter(s):**

    - 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), 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 us for after-sales service.

# 7. SPECIFICATIONS

| Feature | Detail |
| --- | --- |
| Model Name | Magic-02 |
| Microphone Form Factor | Lavalier |
| Connectivity Technology | USB |
| Connector Type | 3.5 mm Jack, USB Type-C, Lightning |
| Special Feature | Noise Reduction |
| Compatible Devices | Camera, Smartphone |
| Power Source | Battery Powered |
| Number of Batteries | 3 C batteries required. |
| Signal-to-Noise Ratio | 80 dB |
| Number of Channels | 2 |
| Item Weight | 50 Grams (1.76 ounces) |
| Package Dimensions | 8.31 x 3.78 x 3.35 inches |
| Manufacturer | BOYA |

# 8. WARRANTY AND SUPPORT

BOYA is committed to providing quality products and customer satisfaction.

- **Official Warranty:** The BOYA Magic-02 comes with an official warranty. For specific terms and conditions, please refer to the warranty card included in your package or visit the official BOYA website.
- **Technical Support:** For any technical assistance, product inquiries, or after-sales service, please contact the seller directly or reach out to BOYA's customer support.

- **Transparency Verification:** Each item has a unique code that is verified before shipping, ensuring product authenticity.

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