BOYA BOYAMIC

BOYAMIC Wireless Lavalier Microphone User Manual

Model: BOYAMIC | Brand: BOYA

1. INTRODUCTION

The BOYAMIC Wireless Lavalier Microphone system is designed for high-quality audio recording across various devices. Featuring advanced noise cancellation, long battery life, and versatile connectivity, it's an ideal solution for content creators, interviewers, and videographers. This manual provides detailed instructions to help you get the most out of your BOYAMIC microphone.

2. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- BOYAMIC Transmitter (TX) x 2
- BOYAMIC Receiver (RX) x 1
- Charging Case x 1
- MFi Certified Lightning Adapter x 1
- USB-C Adapter x 1
- Magnet x 2
- Fur Windshield x 2
- 3.5mm TRS to 3.5mm TRS Audio Cable x 1
- USB-A to USB-C Cable x 1
- USB-A to USB-C Adapter x 1
- Carrying Pouch x 1
- Lavalier Microphone x 2
- Mic Clip for Lavalier Microphone x 2
- Foam Windscreen for Lavalier Microphone x 2

3. PRODUCT OVERVIEW

The BOYAMIC system consists of two transmitters (TX), one receiver (RX), and a charging case. Each component is designed for ease of use and high performance.

Figure 1: BOYAMIC Wireless Lavalier Microphone System

Transmitter (TX) Features:

- **Built-in Microphone:** High-quality omnidirectional microphone for direct audio capture.
- **Power Button:** For turning the unit on/off.
- **Noise Reduction (NR) Button:** One-click activation of triple noise-cancellation technology.
- **Record Button:** Initiates 15-hour onboard recording to 8GB internal memory.
- **USB-C Port:** For charging and data transfer of recorded files.
- **3.5mm TRS Input:** For connecting external lavalier microphones.
- **Magnetic Clip:** Allows for flexible attachment to clothing or surfaces.

Receiver (RX) Features:

- **OLED Display:** Shows battery status, audio levels, recording mode, and other settings.
- **Power Button:** For turning the unit on/off.
- **Menu Button:** Navigates through settings and options.
- **3.5mm Headphone Jack:** For real-time audio monitoring.
- **Output Port:** Connects to recording devices (cameras, smartphones, PCs).
- **USB-C & Lightning Adapters:** For direct connection to compatible devices.

Charging Case:

- Houses and charges both transmitters and the receiver.
- Provides extended battery life for the entire system.
- Compact and portable for easy transport.

4. SETUP

4.1 Pairing the Microphones

The BOYAMIC system is designed for automatic pairing. Simply power on the receiver (RX) and then hold the power button on each transmitter (TX) for approximately 5 seconds. The units will automatically pair, indicated by a stable blue light on the transmitters and a connection icon on the receiver's OLED display.

Video 1: BOYAMIC Wireless Lavalier Microphone Overview and Setup

4.2 Connecting to Recording Devices

The receiver offers wide compatibility with various devices:

- **Smartphones (iPhone/Android):** Attach the appropriate Lightning or USB-C adapter to the receiver's output port, then plug directly into your smartphone.
- **Cameras/PCs:** Use the provided 3.5mm TRS to 3.5mm TRS audio cable to connect the receiver's output port to your camera's microphone input. For PCs, use the USB-A to USB-C cable or adapter.

Figure 2: Connecting to various devices

4.3 Using External Lavalier Microphones

Each transmitter has a 3.5mm TRS input, allowing you to connect the included external lavalier microphones. This provides flexibility for discreet placement or specific recording scenarios. The magnetic clip on the transmitter allows for easy attachment to clothing, even when using the external mic.

Figure 3: External Lapel Microphone Setup

5. OPERATING INSTRUCTIONS

5.1 Onboard Recording

The BOYAMIC transmitters feature 8GB of internal memory, allowing for up to 15 hours of onboard recording. This provides a reliable backup in case of wireless interference or signal drops. To start recording, simply press the 'REC' button on the transmitter. Recorded files can be transferred to a computer via the USB-C port.

Figure 4: 15 Hours Onboard Recording

5.2 Noise Cancellation

Activate the one-click noise cancellation feature by pressing the 'NR' button on the transmitter. This utilizes advanced DSP, ANC, and AI triple noise-cancellation technology to effectively reduce up to 90% of unwanted background noise, ensuring clear and uninterrupted audio.

Figure 5: One-Click Noise Cancellation

5.3 Output Modes

The receiver supports versatile recording with three output modes, selectable via the menu on the OLED display:

- **Mono:** Combines audio from both transmitters into a single mono track.
- **Stereo:** Records audio from each transmitter to separate left and right channels.
- **Safety Track:** Records a secondary track at a lower volume level as a backup against audio clipping.

Figure 6: Output Mode Selection

5.4 Real-time Monitoring

Connect headphones to the receiver's 3.5mm jack to monitor your audio in real-time. This allows you to adjust levels and ensure optimal sound quality during recording sessions.
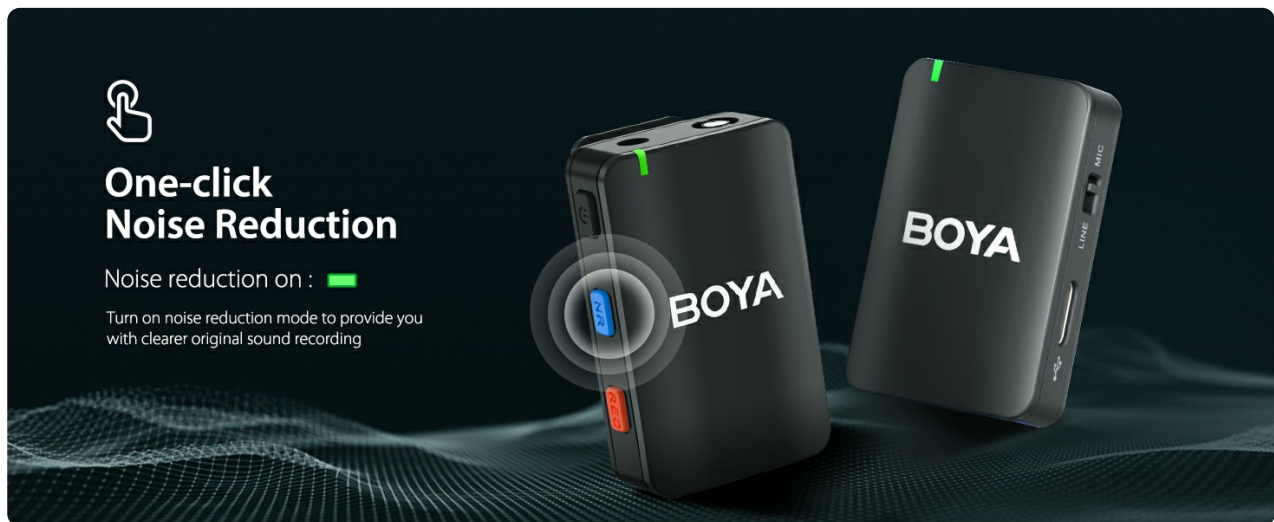

Figure 7: Real-time Monitoring Setup

5.5 Battery Life & Charging

The transmitters offer up to 10 hours of operating time (approximately 6 hours with onboard recording enabled). The charging case extends the total battery life to up to 50 hours. Transmitters and receiver charge fully in 1.5 hours, while the charging case takes 2.5 hours. The charging case can fully charge two transmitters and one receiver 1.2 times.

Figure 8: Battery Life Overview

6. Maintenance

To ensure the longevity and optimal performance of your BOYAMIC Wireless Lavalier Microphone, follow these maintenance guidelines:

- Keep the devices clean using a soft, dry cloth. Avoid abrasive materials or harsh chemicals.
- Store the microphone system in its charging case when not in use to protect it from dust, moisture, and physical damage.
- Avoid exposing the devices to extreme temperatures, direct sunlight, or high humidity.
- Regularly check the charging contacts on the transmitters, receiver, and charging case for any debris that might hinder charging.

7. TROUBLESHOOTING

If you encounter any issues with your BOYAMIC Wireless Lavalier Microphone, please refer to the following common troubleshooting steps:

- **No Sound/Low Volume:** Ensure all units are powered on and properly paired. Check audio cables and connections. Verify receiver output volume and device input levels.
- **Poor Audio Quality/Interference:** Ensure transmitters are within the 300M (984ft) range. Activate noise cancellation. Check for physical obstructions or strong electromagnetic interference.
- **Connection Loss:** Re-pair the transmitters and receiver. Ensure no other 2.4GHz devices are causing interference.
- **Units Not Charging:** Verify charging cable connection. Clean charging contacts. Ensure the charging case has sufficient power.

For further assistance, please visit the official BOYA support website.

8. SPECIFICATIONS

Feature	Specification
Model Number	BOYAMIC
Wireless Technology	2.4GHz
Operating Range	Up to 300m (984ft)
Onboard Recording	8GB memory, up to 15 hours
Battery Life (Transmitter)	Up to 10 hours (6 hours with onboard recording)
Battery Life (with Charging Case)	Up to 50 hours
Charging Time (TX/RX)	1.5 hours
Charging Time (Case)	2.5 hours
Frequency Response	20Hz - 20KHz
Signal-to-Noise Ratio	90 dB
Noise Level	25 dB
Microphone Form Factor	Lavalier (Omnidirectional)
Connectivity	USB Type-C, Lightning, 3.5mm TRS

9. WARRANTY & SUPPORT

The BOYAMIC Wireless Lavalier Microphone comes with a 2-year warranty from the date of purchase. For technical support, troubleshooting, or warranty claims, please visit the official BOYA support website:

www.boya-mic.com

Thank you for choosing BOYA!