

BOYA BY-WM8 Pro-K2

BOYA BY-WM8 Pro-K2 Dual-Channel Wireless Lavalier Microphone System User Manual

Model: BY-WM8 Pro-K2 | Brand: BOYA

1. INTRODUCTION

The BOYA BY-WM8 Pro-K2 is a UHF Dual-Channel Wireless Lavalier Microphone System designed for capturing audio with dual subjects. It is suitable for a wide range of wireless applications including interviews, electronic news gathering (ENG), electronic field productions (EFP), film production, business, and educational applications. This system provides reliable and high-quality audio transmission for professional use.



Figure 1.1: BOYA BY-WM8 Pro-K2 System in a typical smartphone recording setup.

2. PACKAGE CONTENTS

The BOYA BY-WM8 Pro-K2 system includes the following components:

- Two (2) Bodypack Transmitters
- One (1) Camera-Mount Receiver
- Two (2) Omnidirectional Lavalier Microphones
- One (1) Shoe-Mount Adapter
- One (1) 1/8" (3.5mm) TRS to XLR Output Cable
- One (1) 1/8" (3.5mm) TRS to 1/8" (3.5mm) TRS Output Cable
- One (1) Carrying Case
- Six (6) AA Batteries (required for operation)
- Warranty Card



Figure 2.1: Complete package contents of the BY-WM8 Pro-K2 system.

Unboxing and Overview Video

Video 2.1: An unboxing and overview of the BOYA BY-WM8 Pro-K2 system, demonstrating its components and initial setup.

3. COMPONENT OVERVIEW

3.1. Transmitters (TX)

The system includes two bodypack transmitters. Each transmitter features an LCD screen for displaying channel information, battery status, and other settings. They are equipped with a 3.5mm input for connecting the lavalier microphone.

3.2. Receiver (RX)

The camera-mount receiver is designed to attach to your camera's hot shoe or cold shoe via the included adapter. It has a dual-channel capability, allowing it to receive signals from both transmitters simultaneously. The receiver also features an LCD screen for monitoring and a 3.5mm headphone output for real-time audio monitoring.

EASY-TO-READ LCD DISPLAY

Suitable for a wide range wireless applications



Figure 3.1: Easy-to-read LCD display on a BOYA BY-WM8 Pro unit.

BY-WM8 PRO Monitor/ Earphone Connector (3.5mm diameter stereo mini jack)



Figure 3.2: Detail of the 3.5mm monitor/earphone connector on the receiver.

4. SETUP GUIDE

4.1. Battery Installation

1. Open the battery compartment cover on each transmitter and the receiver.
2. Insert two (2) AA batteries into each unit, ensuring correct polarity.
3. Close the battery compartment cover securely.

4.2. Connecting Lavalier Microphones

Connect the 3.5mm plug of the omnidirectional lavalier microphone into the 'MIC IN' port on each transmitter. Secure the microphone to the subject's clothing using the included clip.

4.3. Connecting to Recording Devices

The BY-WM8 Pro-K2 offers versatile connectivity:

- **For DSLR Cameras/Camcorders:** Use the supplied 1/8" (3.5mm) TRS to 1/8" (3.5mm) TRS output cable. Connect one end to the 'LINE OUT' port on the receiver and the other end to the microphone input of your camera.
- **For Smartphones (iPhone/Android):** Use a 1/8" (3.5mm) TRRS output cable (sold separately or included in some kits) to connect the receiver's 'LINE OUT' to your smartphone's headphone/microphone jack. For iPhones without a 3.5mm jack, an official Lightning to 3.5mm adapter is required.
- **For Professional Audio Recorders:** Use the supplied 1/8" (3.5mm) TRS to XLR output cable. Connect the 3.5mm end to the 'LINE OUT' of the receiver and the XLR end to an XLR input on your audio recorder.

Compatibility



Figure 4.1: Device compatibility with the BY-WM8 Pro system.

Setup and Features Video

Video 4.1: A detailed look at the setup and features of the WM8 PRO-K2 Microphone system.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

To power on each unit (transmitter or receiver), press and hold the power button until the LCD screen illuminates. To power off, press and hold the power button again until the screen turns off.

5.2. Channel Selection

The system offers 48 channels. To change the channel on a transmitter or receiver:

1. Press the 'SET' button to enter the channel selection mode.
2. Use the '+' or '-' buttons to navigate through the available channels.
3. Press 'SET' again to confirm your selection. Ensure the transmitter and receiver are set to the same channel for proper operation.

5.3. Mute Function

On the transmitter, a dedicated mute function allows you to temporarily silence the microphone input without powering off the unit. Refer to the LCD display for mute status.

5.4. LCD Lock Function

The LCD will automatically lock after 30 seconds of inactivity to prevent accidental changes. To unlock, long press the '+' and '-' buttons simultaneously.

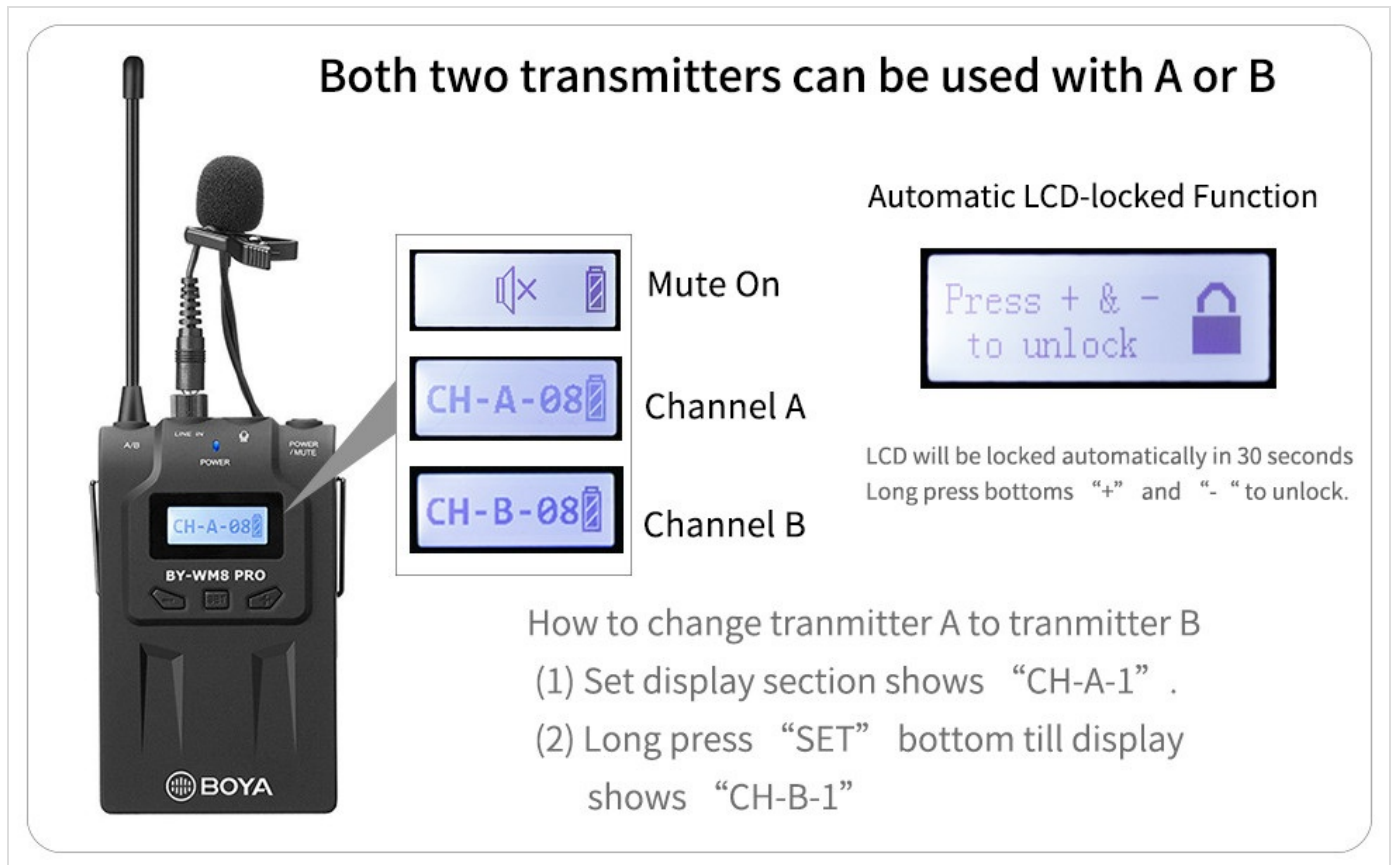


Figure 5.1: Automatic LCD-locked function and unlocking instructions.

5.5. Audio Monitoring

Connect headphones to the 3.5mm 'PHONE' output on the receiver to monitor the audio in real-time. This allows you to ensure optimal sound quality and detect any potential issues during recording.

3.5MM HEADPHONE OUTPUT

Monitoring sound by headphone output (Receiver)



Figure 5.2: Monitoring audio via the receiver's headphone output.

6. TROUBLESHOOTING

• No Sound:

- Ensure all units (transmitters, receiver, recording device) are powered on.
- Verify that the transmitter and receiver are set to the same channel.
- Check battery levels and replace if low.
- Confirm all cables are securely connected and are the correct type (TRS for camera, TRRS for smartphone).
- Adjust volume levels on both the receiver and your recording device.

• Poor Sound Quality/Interference:

- Change to a different channel to avoid interference from other wireless devices.
- Ensure the operating range (up to 100m/300ft without obstacle) is not exceeded.
- Minimize obstacles between the transmitter and receiver.
- Check microphone placement and ensure it is not rubbing against clothing.

• Receiver Auto Shut-Off:

- This may indicate low battery. Replace batteries.
- Ensure the unit is not in a power-saving mode that might be causing unexpected shutdowns.

7. SPECIFICATIONS

Feature	Specification
Microphone Form Factor	Lavalier
Item Dimensions (L x W x H)	8.27 x 3.15 x 1.18 inches
Power Source	Battery Powered (6 AA batteries required)
Material	Acrylonitrile Butadiene Styrene, Aluminum, PVC
Signal-to-Noise Ratio	80 dB
Hardware Platform	Camcorder, Camera, IPHONE
Number of Channels	48
Frequency Response	18 KHz
Item Weight	7.1 ounces (200 Grams)
Polar Pattern	Omnidirectional
Audio Sensitivity	30 Decibels
Connectivity Technology	Auxiliary, XLR
Compatible Devices	Camcorder, Camera, Smartphone

8. MAINTENANCE

To ensure the longevity and optimal performance of your BOYA BY-WM8 Pro-K2 system, follow these maintenance guidelines:

- Keep the units clean by wiping them with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Store the system in its protective carrying case when not in use to prevent dust and physical damage.
- Remove batteries from the units if they will not be used for an extended period to prevent leakage and damage.
- Avoid exposing the units to extreme temperatures, humidity, or direct sunlight.

9. WARRANTY AND SUPPORT

The BOYA BY-WM8 Pro-K2 system comes with a **One Year BOYA Warranty**. For warranty claims, technical support, or service inquiries, please refer to the contact information provided on your warranty card or visit the official BOYA website.