

BOYA BY-WM4 PRO-K4

BOYA BY-WM4 PRO-K4 2.4GHz Wireless Lavalier Microphone System - Instruction Manual

Model: BY-WM4 PRO-K4

PRODUCT OVERVIEW

The BOYA BY-WM4 PRO-K4 is a compact 2.4GHz wireless microphone system designed for iOS devices with a Lightning connector. It offers a high-quality audio solution for various applications including vlogging, video recording, interviews, and mobile journalism.



Image: Complete BOYA BY-WM4 PRO-K4 system including two transmitters, one receiver, lavalier microphones, and accessories.

Key Components

- **Transmitters (TX4 Pro):** Two compact body-pack transmitters, each with an omnidirectional lavalier microphone.
- **Receiver (BY-WM4 RXD):** One portable receiver with a Lightning connector for direct connection to iOS devices. Features audio output and headphone monitor output.
- **Lavalier Microphones:** Two omnidirectional lavalier microphones for clear audio capture.
- **Accessories:** Includes pairing thimble, cold shoe stand, windproof cotton covers, microphone holder clips, and a portable zipper pouch.

SETUP GUIDE

1. Component Identification

Product Structure



BY-WM4 PRO TX



BY-WM4 PRO RXD

Image: Detailed diagram showing the microphone input, clip, power ON/OFF, pair button, antenna, battery compartment on the transmitter, and power LED, headphone jack, Lightning connector, M/S switch, volume controls, and pair button on the receiver.

2. Battery Installation (Transmitters)

1. Open the battery compartment on each TX4 Pro transmitter.
2. Insert two AAA batteries into each transmitter, ensuring correct polarity.
3. Close the battery compartment securely.

The transmitters require two AAA batteries each, providing approximately 6 hours of battery life. The receiver is powered directly by the iOS device.

3. Connecting the Receiver

1. Plug the BY-WM4 RXD receiver directly into the Lightning port of your iPhone or iPad.
2. The receiver will draw power from your iOS device.

4. Pairing Transmitters and Receiver

1. Turn on both TX4 Pro transmitters.
2. Press the 'Pair' button on the receiver.

3. Press the 'Pair' button on each transmitter.
4. The devices should automatically pair. A solid blue LED on the receiver indicates a successful connection.

OPERATING INSTRUCTIONS

1. Audio Monitoring

The receiver features a 3.5mm headphone jack for real-time audio monitoring. Plug your headphones into this port to listen to the audio being recorded.

2. Stereo/Mono Mode Switching

The transmitters offer two channels and the receiver has an M/S switch. You can switch between stereo and mono modes on the receiver according to your recording needs. This provides flexibility for post-editing.

3. Volume Control

Use the Volume +/- buttons on the receiver to adjust the audio output level.

4. Noise Reduction

The system may include noise reduction features. Refer to the specific product documentation or app settings for detailed instructions on activating and adjusting noise reduction levels.

5. Application Scenarios

Applicable Scenario

It's suitable for a wide range of wireless applications such as interviews, mobile journalisms, reporting, vloggings, podcasts and more.

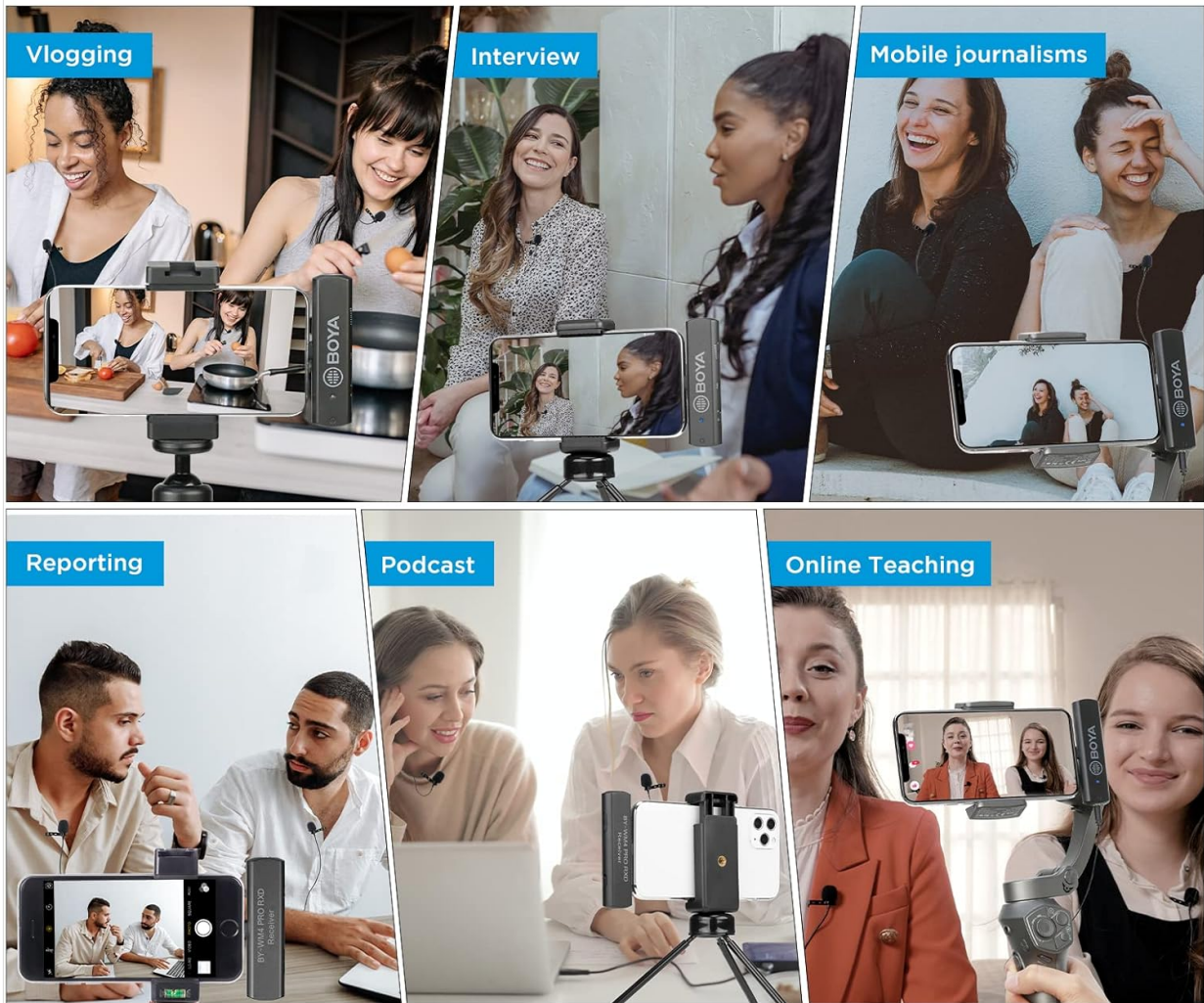


Image: Examples of using the microphone system for vlogging, interviews, reporting, podcasts, and online teaching.

This microphone system is suitable for a wide range of applications including live streaming, interviewing, commenting, recording daily life, audio recording, and creating content for platforms like YouTube.

Official Product Video

Video: An official product video demonstrating the BOYA WM4 PRO K1 K2 K3 K4 Wireless Lavalier Microphone system, highlighting its features and usage.

MAINTENANCE

- Keep the device dry. Do not expose it to water or moisture.
- Use a soft, dry cloth to clean the microphone and receiver.
- Avoid extreme temperatures and direct sunlight.
- Remove batteries from transmitters if not in use for extended periods to prevent leakage.

TROUBLESHOOTING

No Sound/Poor Audio Quality

- Ensure transmitters have fresh batteries and are powered on.
- Verify the receiver is securely connected to your iOS device.
- Check that transmitters and receiver are successfully paired (solid blue LED on receiver).
- Adjust the volume level on the receiver.
- Ensure the lavalier microphone is properly connected to the transmitter and positioned correctly.
- Test different stereo/mono modes.

Interference/Signal Dropouts

- Maintain a clear line of sight between the transmitter and receiver. Obstacles (including the user's body) can cause signal degradation.
- Avoid using the system in environments with strong 2.4GHz interference (e.g., near Wi-Fi routers, other wireless devices).
- Ensure the operating range (up to 60m/197ft without obstacle) is not exceeded.

SPECIFICATIONS

Modulation	GFSK (Gauss Frequency Shift Keying)
Frequency Band	2.4GHz (2405-2478MHz)
Frequency Response	35Hz-14kHz±3dB
Signal to Noise Ratio	84dB or more
Earphone Output Level	32Ω, 65mW
Reception Sensitivity	-90dB +/- 3dB / 0dB=1V/Pa, 1kHz
Connector	Apple MFi Certified Lightning Connector
Operating Range	Up to 60m (197ft) without obstacle
Power Requirements	Transmitter: Two AAA batteries Receiver: Supplied by iOS device
Dimensions	Transmitter: 45x70x35mm (1.8x2.8x1.4") Receiver: 82x30.7x12mm (3.2x1.2x0.5")
Weight	Transmitter: 47g (1.7oz) Receiver: 12g (0.4oz)

WHAT'S IN THE BOX



Image: Visual representation of all items included in the product package.

- 2 x Body-pack Transmitters (TX4 Pro)
- 1 x Wireless Receiver with Lightning Connector (BY-WM4 RXD)
- 2 x Wired Lavalier Microphone
- 2 x Wind Screen
- 2 x Microphone Holder Clip
- 1 x Pairing Pin
- 1 x Portable Zipper Pouch