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BOYA BY-XM6-S3

BOYA BY-XM6 S3 Wireless Lavalier Microphone User Manual

Model: BY-XM6-S3

1. Introduction

Thank you for choosing the BOYA BY-XM6 S3 Wireless Lavalier Microphone System. This 2.4GHz adaptive frequency hopping wireless microphone system is designed to provide high-quality audio for your iPhone and iPad devices with a Lightning port. It is ideal for video recording, live streaming, podcasting, interviews, and vlogging.

This manual will guide you through the setup, operation, and maintenance of your BY-XM6 S3 system to ensure optimal performance.

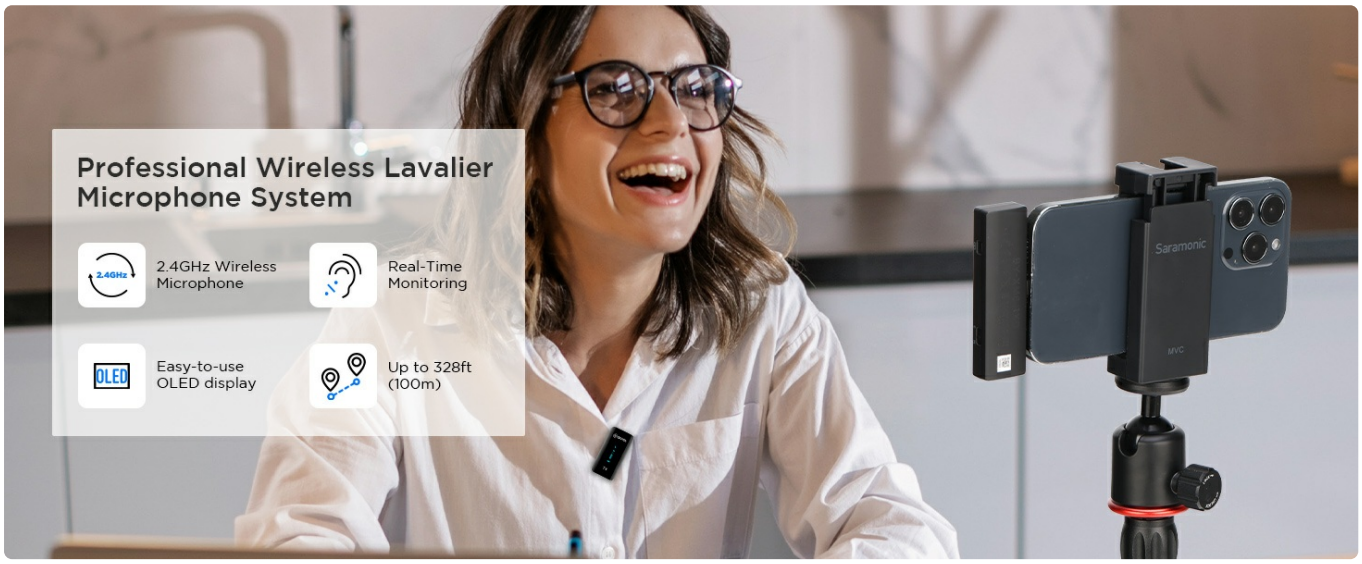


Image 1.1: The BOYA BY-XM6 S3 Wireless Lavalier Microphone System, showcasing its compact design and professional application.

2. Package Contents

Please check the package to ensure all items are present:

- 1x BY-XM6 RXD Receiver (Lightning Connector)
- 1x BY-XM6 TX Transmitter

- 1x USB-C Charging Cable
- 1x Foam Windscreen
- 1x Lavalier Microphone
- 1x Pouch

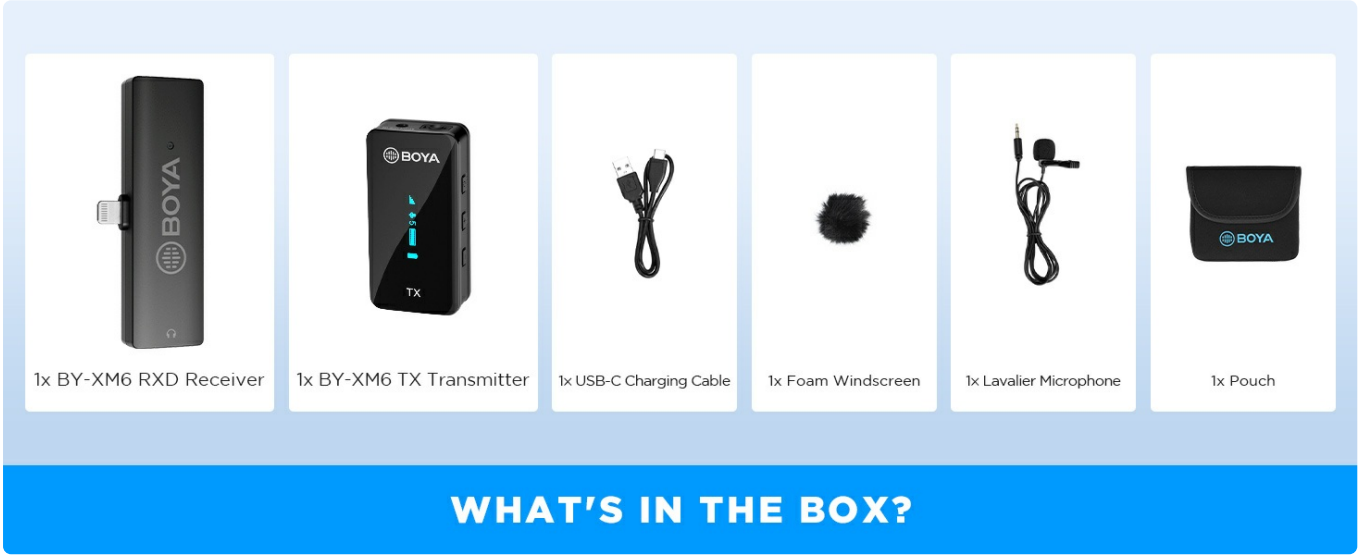


Image 2.1: Visual representation of all components included in the BOYA BY-XM6 S3 package.

3. Product Overview

3.1. BY-XM6 RXD Receiver

- **Lightning Connector:** Connects directly to your iPhone or iPad.
- **Pair Button:** Initiates automatic pairing with the transmitter.
- **Mono/Stereo Switch:** Toggles between mono and stereo output modes.
- **3.5mm Headphone Jack:** For real-time audio monitoring.
- **Status Indicator:** Displays connection and operational status.

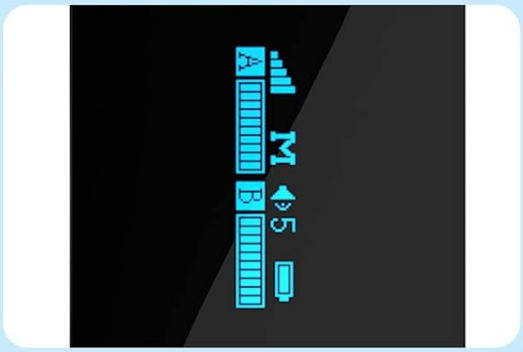
3.2. BY-XM6 TX Transmitter

- **Built-in Microphone:** Omnidirectional microphone for direct audio capture.
- **MIC IN Jack:** Connects the external lavalier microphone.
- **OLED Display:** Shows pairing status, mic gain, audio input level, and battery level.
- **Mute Button:** Short press to mute/unmute the microphone.
- **SET Button (+/-):** Adjusts microphone input gain levels.
- **Power Button:** Long press to power on/off.
- **USB Type-C Charging Port:** For charging the transmitter's internal battery.



Image 3.1: Detailed view of the BY-XM6 RXD Receiver's features, including its Lightning connector, pair button, 3.5mm headphone jack, and mono/stereo switch.

Product Details



Intuitive and Vivid OLED Display

Users can control the transmitter easily according to the information displayed on the OLED screen.

Mute control

Short press the button to mute/ unmute the microphone.





Recording Mode

Select between mono and stereo recording modes to best fit your situation.

Image 3.2: Close-up of the BY-XM6 TX Transmitter, highlighting the intuitive OLED display, mute control, and recording mode selection

(SET button).

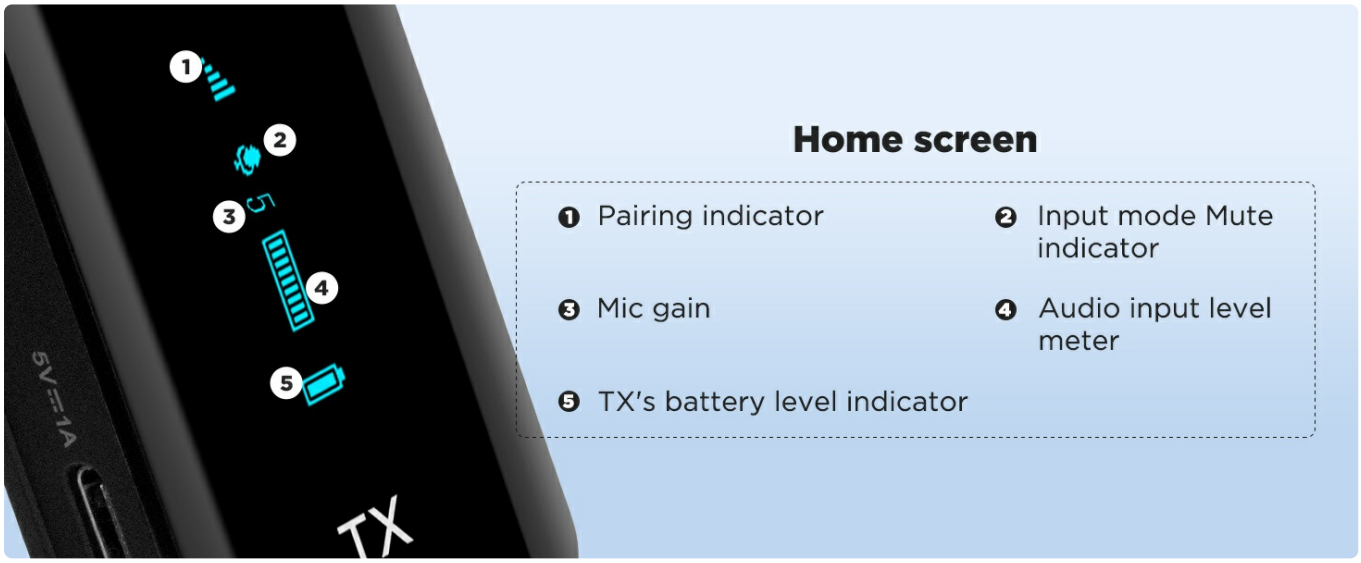


Image 3.3: Explanation of the BY-XM6 TX Transmitter's OLED home screen indicators, including pairing, mute, mic gain, audio level, and battery status.

4. Setup Guide

4.1. Initial Pairing (Plug & Play)

1. **Power On:** Long press the power button on the BY-XM6 TX Transmitter to turn it on.
2. **Connect Receiver:** Plug the BY-XM6 RXD Receiver directly into the Lightning port of your iPhone or iPad.
3. **Automatic Pairing:** The transmitter and receiver will automatically pair. The status indicator on the receiver and the OLED display on the transmitter will confirm a successful connection. If disconnected, follow the manual for linking steps (usually pressing the pair button on the receiver).



Image 4.1: Visual guide to the plug-and-play setup process for the BOYA BY-XM6 S3, showing the power-on, plug-in, and connected states.

4.2. Connecting External Lavalier Microphone

If you prefer to use the included external lavalier microphone:

1. Plug the 3.5mm TRS connector of the lavalier microphone into the**MIC IN** jack on the BY-XM6 TX Transmitter.
2. Clip the lavalier microphone to your clothing, approximately 6-8 inches (15-20 cm) from your mouth, for optimal sound capture.
3. Attach the foam windscreen to the lavalier microphone to reduce plosives and wind noise.

5. Operating Instructions

5.1. Power On/Off

- **To Power On:** Long press the power button on the TX Transmitter.
- **To Power Off:** Long press the power button on the TX Transmitter.

5.2. Adjusting Microphone Gain

The BY-XM6 TX Transmitter features 6 levels of gain adjustment to optimize your audio input:

- Press the **SET** button (which functions as +/-) on the transmitter to cycle through the gain levels.
- Monitor the audio input level meter on the OLED display to prevent clipping (audio distortion).

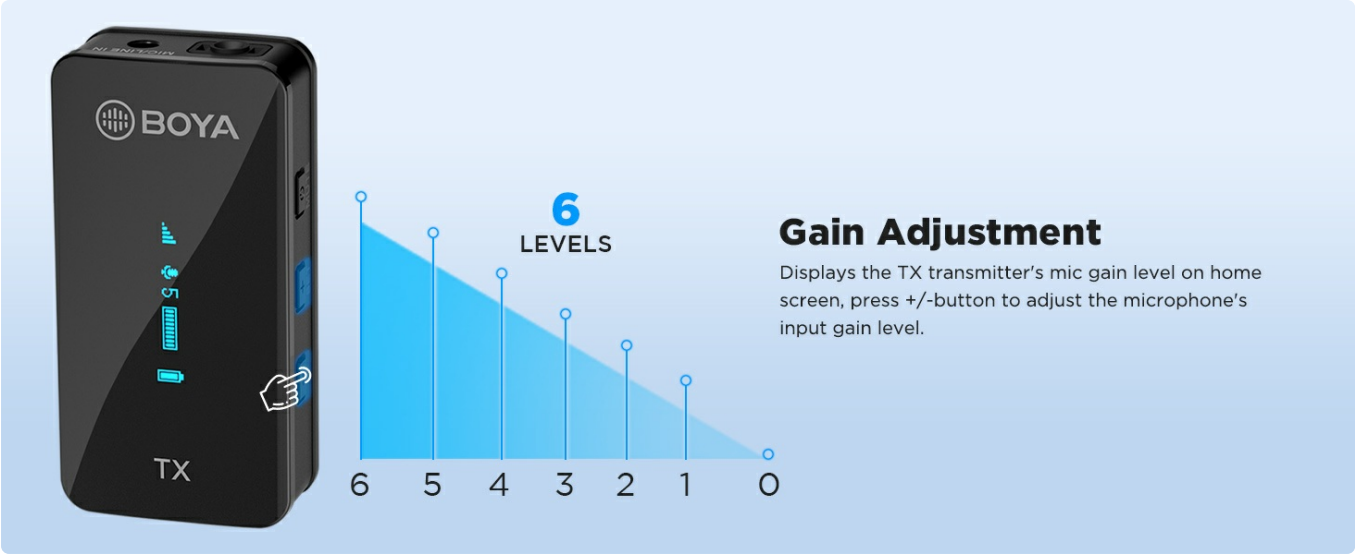


Image 5.1: Illustration of the 6-level gain adjustment feature on the BY-XM6 TX Transmitter, allowing precise control over microphone input.

5.3. Mute Control

To temporarily stop audio transmission:

- Short press the **MUTE** button on the BY-XM6 TX Transmitter.
- The OLED display will indicate that the microphone is muted.
- Short press the **MUTE** button again to unmute.

6. Real-time Monitoring

The BY-XM6 RXD Receiver is equipped with a 3.5mm headphone output jack, allowing you to monitor your audio in real-time. This ensures you are capturing clear and balanced sound during recording.

- Plug your headphones into the 3.5mm headphone jack on the receiver.
- Adjust the microphone gain on the transmitter while monitoring to achieve the desired audio level.

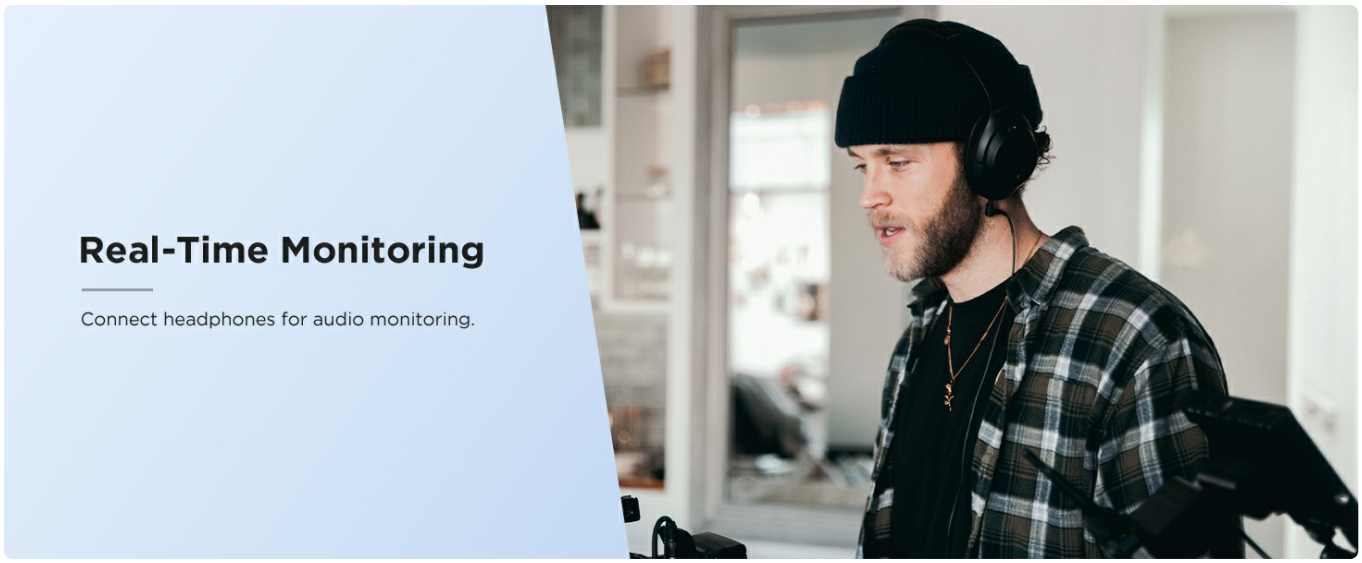


Image 6.1: A user monitoring audio with headphones connected to the BY-XM6 RXD Receiver, ensuring sound quality during recording.

7. Mono/Stereo Output

The BY-XM6 RXD Receiver offers selectable mono and stereo output modes to suit your recording needs:

- **Mono Mode:** Combines all audio inputs into a single channel. Ideal for single-person interviews or when you want the audio to be centered.
- **Stereo Mode:** Separates audio inputs into left and right channels. Useful for post-production editing or when recording two distinct audio sources (if using a dual-transmitter system, though this is a single TX kit).
- Use the **Mono/Stereo switch** on the receiver to toggle between these modes.

8. Charging

8.1. Transmitter (TX) Charging

The BY-XM6 TX Transmitter has a built-in rechargeable lithium battery that provides up to 7 hours of continuous operation.

- Connect the supplied USB-C charging cable to the transmitter's USB Type-C port and to a USB power adapter (not included).
- The OLED display will show the charging status.
- It supports on-the-go charging, allowing you to charge while using the device.

8.2. Receiver (RXD) Power

The BY-XM6 RXD Receiver is powered directly by your iPhone or iPad device, requiring no separate battery or charging.



Image 8.1: Visual representation of the BY-XM6 S3's battery life, indicating 7 hours for the transmitter and power from the iOS device for the receiver.

9. Compatibility

The BOYA BY-XM6 S3 is designed for iOS devices with a Lightning port. It is compatible with a wide range of iPhone and iPad models:

9.1. iPhone Series

- iPhone 7/7 Plus, 8/8 Plus
- iPhone X/XR/XS/XS Max
- iPhone 11/11 Pro/11 Pro Max
- iPhone 12/12 mini/12 Pro/12 Pro Max
- iPhone 13/13 mini/13 Pro/13 Pro Max
- iPhone 14/14 Plus/14 Pro/14 Pro Max
- And newer models with Lightning port.

9.2. iPad Series

- iPad Mini 2/3/4/5
- iPad Air 1/2/3
- iPad 5/6/7/8/9 (generations)
- iPad Pro (9.7"), iPad Pro (10.5"), iPad Pro 12.9-inch (1st & 2nd generation)
- And newer models with Lightning port.

Note: The latest versions of 11-inch and 12.9-inch iPad Pro with USB Type-C ports are not supported by this Lightning connector model.



Image 9.1: A comprehensive chart detailing the wide compatibility of the BY-XM6 S3 with various iPhone and iPad models.

10. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the devices. Do not use harsh chemicals or abrasive materials.
- **Storage:** Store the microphone system in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided pouch for protection.
- **Battery Care:** For optimal battery life, avoid fully discharging the transmitter's battery frequently. Charge it regularly, even if not in use for extended periods.
- **Avoid Moisture:** Keep the devices away from water and high humidity to prevent damage.

11. Troubleshooting

Problem	Possible Cause	Solution
No sound or low sound level	Microphone muted, gain too low, transmitter not paired, external mic not connected properly.	Check mute status, increase gain, re-pair transmitter/receiver, ensure external mic is fully plugged in. Check device's audio input settings.
Audio distortion/clipping	Gain too high, microphone too close to sound source.	Decrease microphone gain, move microphone slightly further from the sound source.
Intermittent signal/dropouts	Obstructions between TX and RX, too far apart, strong 2.4GHz interference.	Ensure clear line of sight, reduce distance between TX and RX (max 328ft/100m), move away from other 2.4GHz devices (Wi-Fi routers, other wireless systems).
Transmitter not charging	Faulty cable, power adapter, or port.	Try a different USB-C cable and power adapter. Ensure the charging port is clean.

12. Specifications

- **Transmission Type:** 2.4GHz Digital Frequency Hopping
- **Polar Pattern:** Omnidirectional (Built-in & Lavalier Mic)
- **Operating Range:** Up to 328ft (100m) (line of sight)
- **Frequency Response:** 20Hz - 20kHz
- **Signal-to-Noise Ratio:** >84dB
- **Power Source (TX):** Built-in Rechargeable Lithium Battery
- **Battery Life (TX):** Approx. 7 hours
- **Power Source (RXD):** Powered by iOS Device
- **Connectivity:** Lightning Connector (RXD), USB-C (TX Charging)
- **Dimensions (TX):** Approximately 62mm x 31.6mm x 23mm
- **Dimensions (RXD):** Approximately 75.6mm x 23mm x 10mm
- **Weight (TX):** Approx. 32g
- **Weight (RXD):** Approx. 14.5g



Image 12.1: Visual representation of the compact and lightweight design of the BY-XM6 S3 transmitter and receiver, including their dimensions.



Image 12.2: Depiction of the BY-XM6 S3's impressive 100-meter (328ft) operating range in an open environment.

13. Official Product Videos

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Video 13.1: Introduction of BY-XM6 Mini Wireless Lavalier Microphone. This video provides an overview of the microphone's features and benefits.

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Video 13.2: Introducing the BYXM6 S3-6 Wireless Lavalier Microphone Kit. This video demonstrates the setup and usage of the BY-XM6 S3-6 kit.

14. Warranty and Support

BOYA products are designed with quality and performance in mind. This product comes with an official warranty, ensuring one-stop technical support for any issues you may encounter.

For warranty claims, technical assistance, or further inquiries, please visit the official BOYA website or contact your local distributor. Please retain your proof of purchase for warranty service.

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Example: How do I reset this device or fix this error?

Details

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