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## BOYA BY-XM6

# BOYA BY-XM6 Wireless Lavalier Microphone System User Manual

Model: BY-XM6

## INTRODUCTION

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The BOYA BY-XM6 is a 2.4GHz adaptive frequency hopping wireless lavalier microphone system designed for high-quality audio capture. This system is suitable for various applications including vlogging, YouTube video creation, live streaming, interviews, and general recording. It provides a reliable and clear audio solution for content creators.

## WHAT'S IN THE BOX

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- 2 x Transmitters (TX)
- 1 x Receiver (RX)
- 3 x USB to Type-C Charging Cables
- 2 x Lavalier Microphones
- 1 x 3.5mm TRS to TRRS Cable (for smartphones/tablets)
- 1 x 3.5mm TRS to TRS Cable (for cameras/camcorders)
- 2 x Fur Windscreens
- 1 x Carrying Bag

# BY-XM6

## 2.4 GHz Dual-channel Wireless Microphone System



Operating range  
of up to 100m



7-hour  
runtime



Type-C charging port

Image: The package contents laid out, showing two transmitters, one receiver, various cables, two lavalier microphones, two fur windscreens, and a carrying bag.

## SETUP

- 1. Charge Devices:** Ensure all transmitters (TX) and the receiver (RX) are fully charged using the provided USB to Type-C charging cables.
- 2. Connect Receiver to Recording Device:**
  - For **Smartphones/Tablets:** Use the 3.5mm TRS to TRRS cable. Connect the TRS end to the RX's "LINE OUT" port and the TRRS end to your device's 3.5mm audio jack. If your smartphone lacks a 3.5mm jack, an adapter (e.g., Lightning to 3.5mm for iPhone, USB-C to 3.5mm for Android) is required (sold separately).
  - For **DSLR Cameras/Camcorders:** Use the 3.5mm TRS to TRS cable. Connect one TRS end to the RX's "LINE OUT" port and the other TRS end to your camera's microphone input.
- 3. Connect Transmitter to Microphone:**
  - Using External Lavalier Mic:** Plug the provided lavalier microphone into the TX's "MIC IN" jack. Secure the lavalier mic to the speaker's clothing, approximately 6-8 inches from the mouth.
  - Using Built-in Mic:** The transmitter has a built-in omni-directional microphone. Simply clip the TX unit directly onto the speaker's collar or clothing.

4. **Power On and Pair:** Power on both the transmitter(s) and the receiver. The units should automatically pair. The OLED display will show connection status.

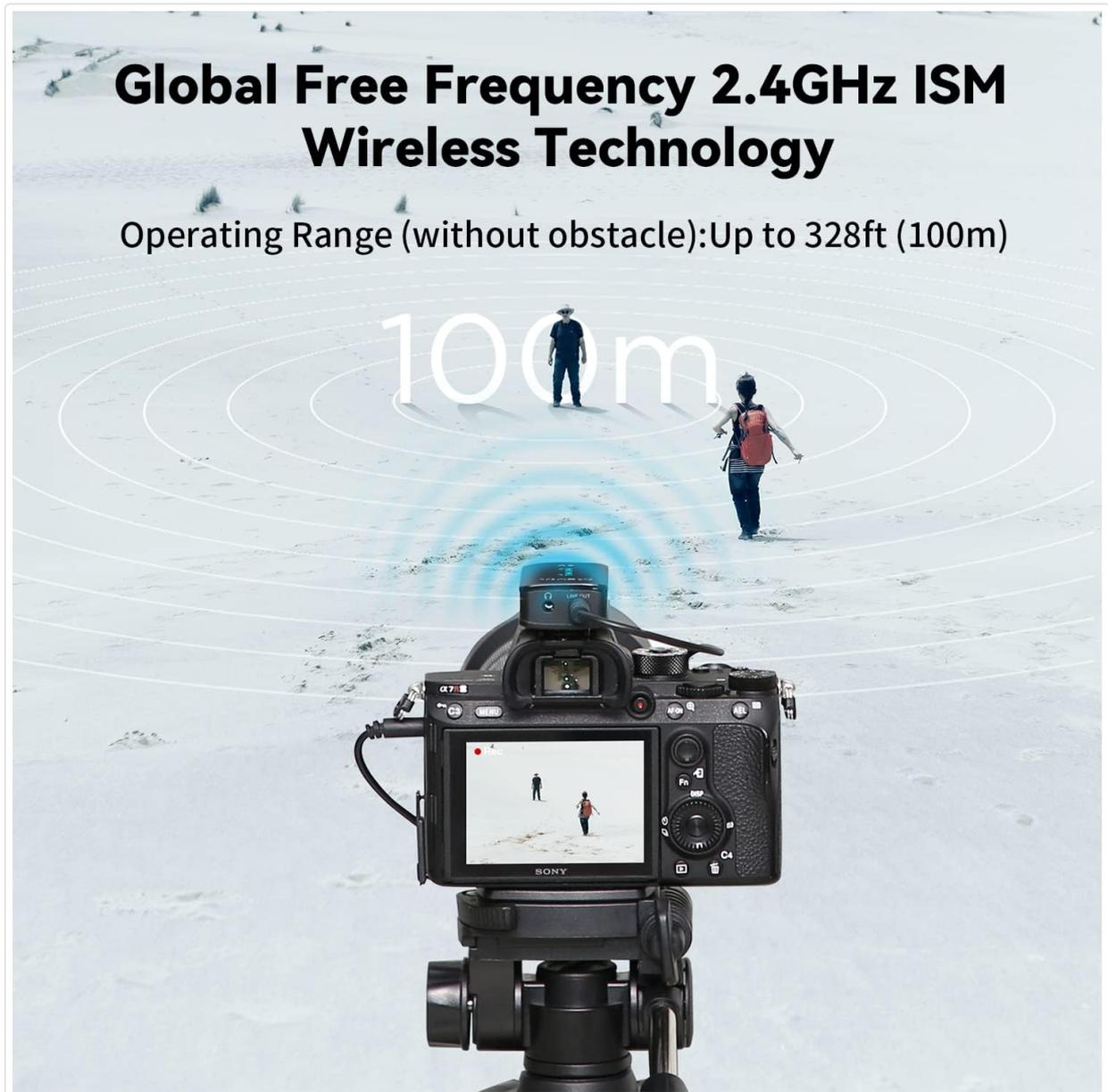


Image: A BOYA BY-XM6 receiver connected to a smartphone mounted on a gimbal, demonstrating setup for mobile recording.

## OPERATING INSTRUCTIONS

### OLED Display

Both the transmitter and receiver units feature a vivid OLED display. This screen provides real-time information including signal strength, battery level, audio input level (gain), and selected recording mode (Mono/Stereo).

### Adjusting Gain

Use the "SET" buttons on the TX and RX units to navigate menu options and adjust the microphone gain. Monitor the audio levels on the OLED display to prevent clipping or distortion. Typically, a gain level of 5 is a good starting point, but adjust as needed based on the speaker's voice and environment.

### Mute Function

Press the "MUTE" button on the transmitter to temporarily silence the microphone input. The OLED display will indicate when mute is enabled.

## Real-time Monitoring

The receiver unit includes a 3.5mm headphone output jack. Connect headphones to this port to monitor the audio in real-time, ensuring optimal sound quality and preventing issues during recording.

## Mono/Stereo Modes

The dual-channel system allows for selectable Mono or Stereo output. This feature enables mixing both channels into a single mono track or recording each microphone to separate stereo channels, offering flexibility for post-production.

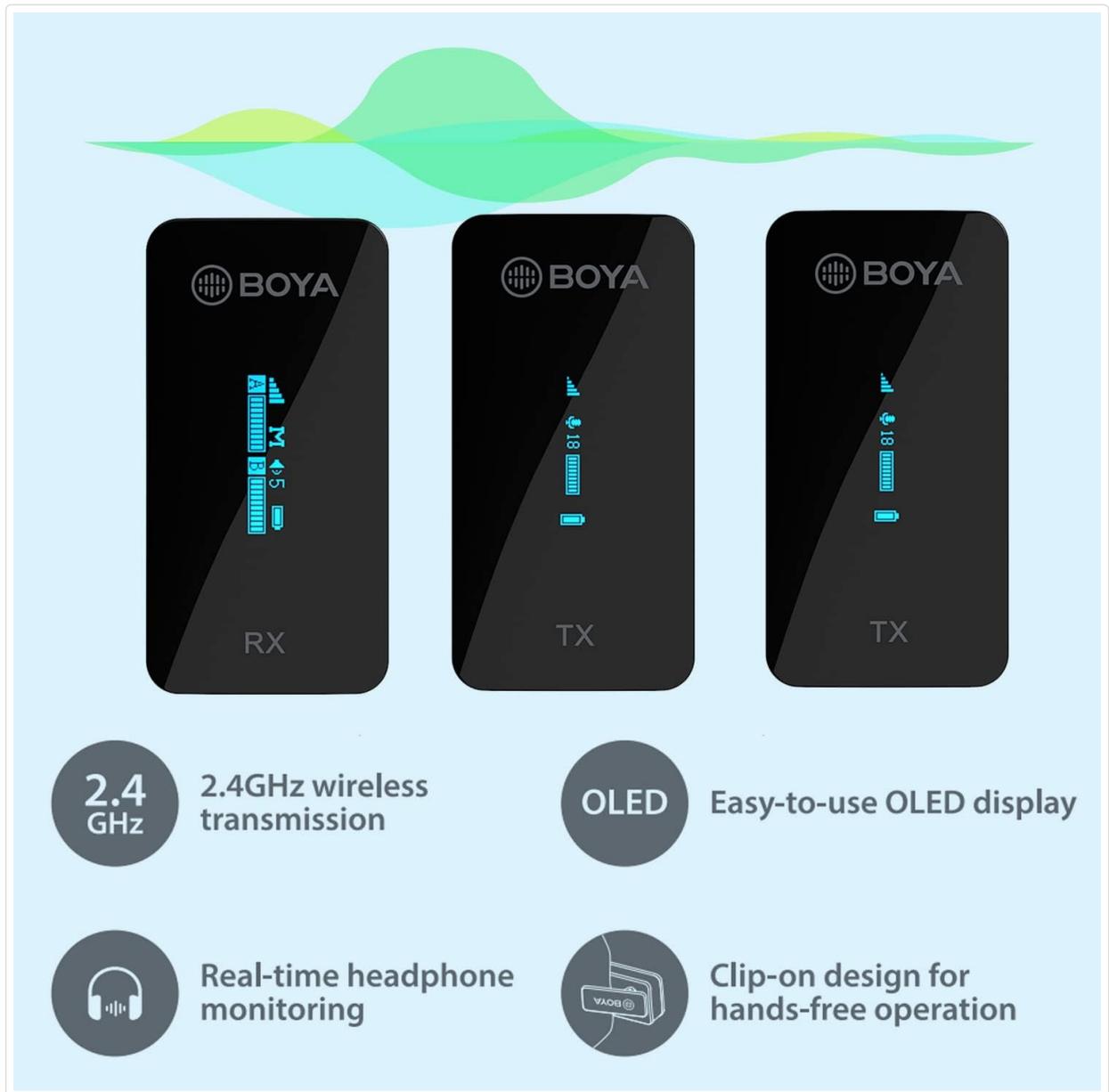


Image: A close-up view of the OLED screens on the transmitter and receiver units, displaying various operational parameters like signal strength and battery status.

## MEDIA INTEGRATION EXAMPLES

### Product Usage Images

# LIGHTWEIGHT • ULTRACOMPACT

BY-XM6 easy-to-use wireless microphone systems for up to 2 people



Image: Two people outdoors, one wearing the BY-XM6 transmitter clipped directly to their shirt, and the other using an external lavalier microphone connected to the transmitter, demonstrating the compact and lightweight design.

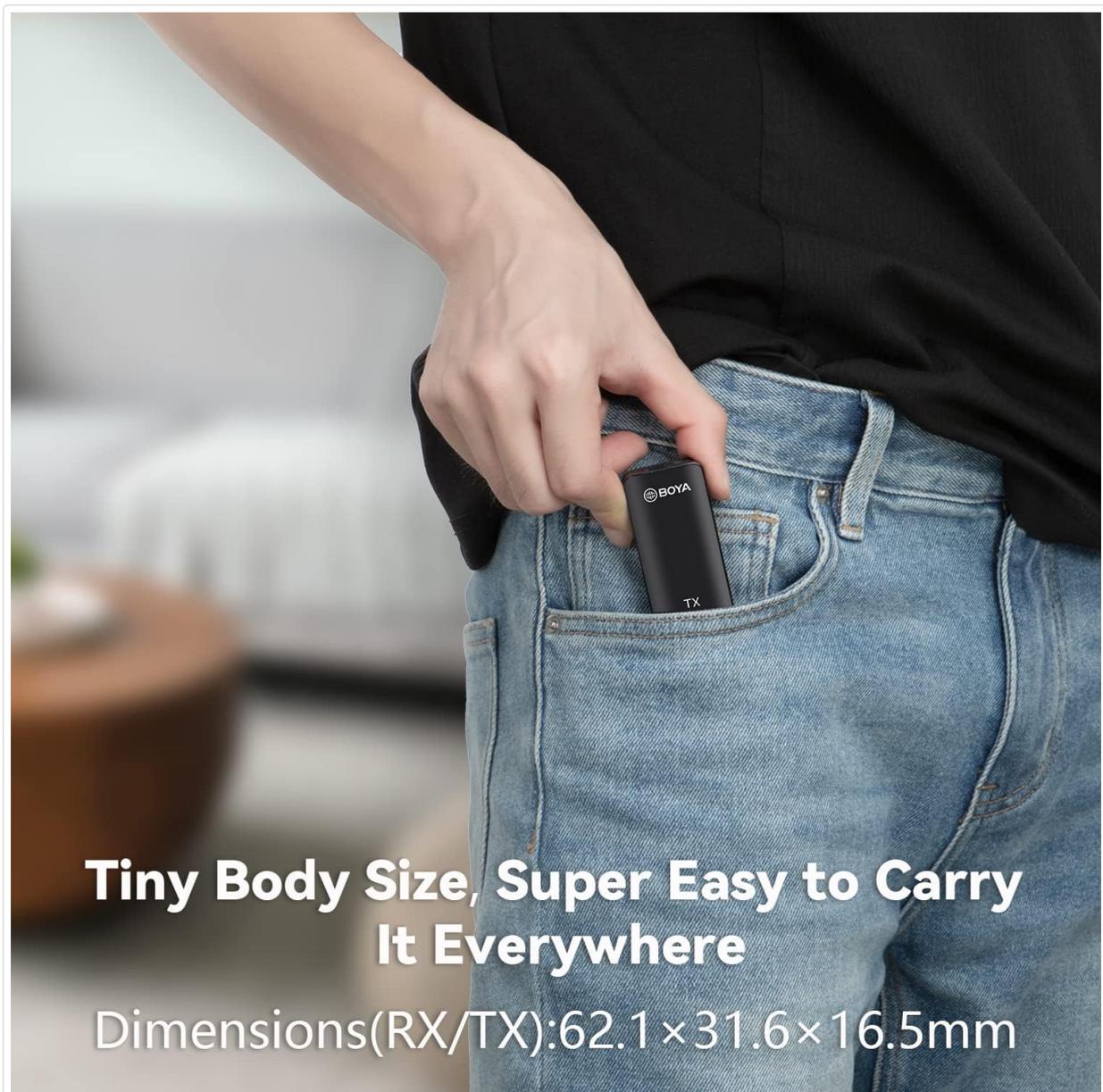


Image: A collage showing the versatility of the BY-XM6 system, with a user recording on a smartphone, another on a DSLR camera, and a third on a laptop, highlighting its wide compatibility.

## Official Product Videos

Watch this video for an overview of the BOYA BY-XM6 2.4GHz Wireless Lavalier Microphone System, showcasing its features and applications.

**Your browser does not support the video tag.**

Video Description: An official product video from BOYA DIRECT demonstrating the BY-XM6 wireless microphone system in various professional and daily use scenarios, highlighting its 2.4GHz transmission and ease of use.

This video provides a detailed look at the BOYA BY-XM6 wireless microphone, including unboxing and a demo of its features.

**Your browser does not support the video tag.**

Video Description: An official product video from BOYA DIRECT showcasing the BY-XM6 wireless microphone, focusing on its USB-C compatibility and clip-on design for various recording needs.

## MAINTENANCE

### Battery Life and Charging

The BY-XM6 units feature built-in rechargeable lithium batteries. The transmitters (TX) can operate continuously for up to 7 hours, and the receiver (RX) for up to 6.5 hours. All units are equipped with Type-C interfaces, supporting on-the-go

charging for extended shooting sessions. Ensure units are fully charged before use for optimal performance.



## Powerful Batteries That Support Whole Day Use

RX:6.5 hours      TX:7 hours

Image: Three BOYA BY-XM6 units (two transmitters and one receiver) displayed with their OLED screens showing battery levels, indicating long battery life for extended use.

### TROUBLESHOOTING

#### • No Audio/Poor Audio Quality:

- Ensure all units are powered on and successfully paired (check OLED display).
- Verify correct cable connection between the receiver and your recording device (TRS to TRRS for smartphones, TRS to TRS for cameras).
- Adjust gain levels on both TX and RX to avoid audio clipping or being too low.
- Check if the microphone is muted on the transmitter.
- For external lavalier mics, ensure it's securely plugged into the TX unit.
- If experiencing fabric noise with a lavalier mic, try adjusting its placement or using the built-in mic.

#### • Connection Drops/Interference:

- Ensure line of sight between transmitter and receiver for optimal performance. The system supports up to 328ft (100m) barrier-free transmission.
- Avoid placing the transmitter or receiver near other 2.4GHz wireless devices that might cause interference.
- Physical obstructions (like your body) between the TX and RX can reduce range and cause dropouts.

- **Battery Not Charging:**

- Verify the Type-C charging cable is correctly inserted into the unit and a power source.
- Ensure the power source is active.

## SPECIFICATIONS

<b>Transmission Type</b>	2.4 GHz Digital Frequency
<b>Modulation</b>	GFSK
<b>Frequency Response</b>	50Hz-18kHz
<b>Signal-to-Noise Ratio</b>	84 dB
<b>Operating Distance</b>	Up to 328ft (100m) without obstacles
<b>Transmitter Battery Life</b>	7 hours
<b>Receiver Battery Life</b>	6.5 hours
<b>Power Source</b>	Battery Powered (3 Lithium Metal batteries included)
<b>Microphone Form Factor</b>	Microphone System
<b>Polar Pattern</b>	Omnidirectional
<b>Connectivity Technology</b>	USB, 3.5 mm Jack
<b>Compatible Devices</b>	Smartphone, Tablet, Camera, Camcorder, PC
<b>Item Dimensions L x W x H</b>	8.82 x 4.76 x 1.85 inches
<b>Item Weight</b>	12.3 ounces (350 Grams)

## WARRANTY AND SUPPORT

The BOYA BY-XM6 Wireless Lavalier Microphone System comes with a 1-year BOYA-Cover warranty. For support or warranty claims, please refer to the contact information provided in your product packaging or visit the official BOYA website.

Each item has a unique code that is verified before shipping, ensuring product authenticity.