

BOYA BY-XM6-K5

BOYA Wireless Lavalier Microphone BY-XM6-K5 Instruction Manual

Model: BY-XM6-K5

1. PRODUCT OVERVIEW

The BOYA BY-XM6-K5 is a 2.4GHz wireless lavalier microphone system designed for Android phones and other USB-C devices. This system offers a plug-and-play experience, eliminating the need for extra cables, apps, or Bluetooth pairing. It is suitable for video recording, interviews, YouTube content creation, and live streaming, providing clear audio capture with an omnidirectional microphone.

The system includes a transmitter (TX) with a built-in microphone and an OLED display, a receiver (RXU) with a USB-C connector for direct connection to your device, and a portable charging case.

2. WHAT'S IN THE BOX

Upon opening the package, you will find the following components:

- 1x BY-XM6TX Transmitter
- 1x BY-XM6 RXU Receiver
- 1x BY-XM6-K5 BOX Charging Case
- 1x USB-C Charging Cable
- 1x Lavalier Microphone
- 1x Fur Windshield

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Video: Unboxing the BOYA BY-XM6-K6 Wireless Microphone for Android. This video demonstrates the contents of the package and initial handling of the components.



Image: A visual representation of all components included in the BY-XM6-K5 package, laid out neatly.

3. PRODUCT FEATURES

- **Plug-and-Play Operation:** Designed for Android USB-C devices, the system automatically pairs upon connection without requiring additional apps or Bluetooth.
- **Extended Operating Distance:** Utilizes 2.4GHz frequency hopping for stable signal transmission up to 328 feet (100 meters) in obstacle-free environments.
- **Long Battery Life:** The microphone provides up to 7 hours of operation on a single charge. The portable charging case can fully recharge the microphone twice, extending total usage time to 21 hours.
- **Real-Time Monitoring:** The receiver features a 3.5mm headphone jack for direct audio monitoring, allowing users to adjust recording levels and ensure optimal sound quality.
- **Stereo/Mono Output Modes:** Selectable output modes on the receiver (stereo/mono) cater to various recording needs and simplify post-production.
- **Built-in and External Microphone Options:** The transmitter includes a built-in omnidirectional microphone. An external lavalier microphone can also be connected to the transmitter's MIC IN input jack for flexible sound capture.

- **OLED Display:** The transmitter features a clear OLED display showing battery level, audio input level, output mode, and volume.
- **Portable Charging Case:** A lightweight and compact charging case provides convenient storage and recharges the transmitters on the go. It fully charges in 3 hours and includes a power indicator.

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: Close-up of the transmitter's OLED display, illustrating its intuitive interface for monitoring device status.

PIFA Antenna

Adopts the 2.4GHz ISM wireless adaptive frequency.
The barrier-free transmission distance can reach 328 feet.

100m



Image: Diagram highlighting the receiver's key controls: pair button, mono/stereo switch, and 3.5mm headphone jack for real-time monitoring.

3 h



Case's Charging Time

7 h



Built-in Battery Life

≈ 20 h



Usage Time (with charging case)



Image: The charging case with devices, illustrating the battery life of the microphone and the charging time for the case.

4. SETUP GUIDE

1. **Charge the Devices:** Ensure both the transmitter (TX) and receiver (RXU) are fully charged using the provided USB-C charging cable and the charging case. The charging case itself can be charged via its USB-C port.
2. **Power On:** Open the charging case. The transmitter and receiver will automatically power on.
3. **Connect Receiver:** Plug the BY-XM6 RXU receiver directly into the USB-C port of your Android smartphone, tablet, or other compatible USB-C device.
4. **Automatic Pairing:** The transmitter and receiver are pre-paired from the factory. They should automatically connect within a few seconds. The status indicator on the receiver will confirm a successful connection.
5. **Attach Transmitter:**
 - **Built-in Microphone:** Clip the transmitter to your collar or clothing, ensuring the built-in omnidirectional microphone faces the sound source.
 - **External Lavalier Microphone:** For discreet placement, connect the included lavalier microphone to the transmitter's MIC IN input jack. Clip the lavalier microphone to your clothing and place the transmitter on a belt or in a pocket using

its belt clip.

6. **Initial Audio Check:** Before recording, perform a test recording and listen back to ensure proper audio levels and clarity.

Universal Compatibility

For Android USB-C Devices

BY-XM6 K5/K6



Smartphone



Tablet



Laptop

And more



Image: The receiver plugged into a smartphone, illustrating the direct USB-C connection for Android devices.

Real-time Monitoring

Ensure that you are getting perfect audio at all times with the direct



Image: Detailed diagram of the receiver and transmitter, labeling all ports, buttons, and indicators for easy identification during setup.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- **Power On:** Open the charging case. The devices will automatically power on. Alternatively, press and hold the Power/Mute button on the transmitter.
- **Power Off:** Place the devices back into the charging case and close it. They will automatically power off. Alternatively, press and hold the Power/Mute button on the transmitter.

5.2. Mute Control

- **Mute/Unmute:** Short press the Power/Mute button on the transmitter to mute or unmute the microphone. The OLED display will indicate the mute status.

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: Close-up of the mute button on the transmitter, indicating its use for silencing the microphone.

5.3. Real-Time Monitoring

- Connect headphones to the 3.5mm headphone jack on the receiver (RXU) to monitor your audio in real-time. This allows you to check sound quality and adjust levels as needed during recording.

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100m



Image: The receiver with a headphone icon pointing to the 3.5mm jack, emphasizing the real-time monitoring feature.

5.4. Stereo/Mono Output Mode

- Use the Mono/Stereo switch on the receiver (RXU) to select your desired output mode.
 - **Mono Mode:** Combines both audio channels into a single mono track. Useful for single-person recordings or when you want identical audio on both left and right channels.
 - **Stereo Mode:** Separates the audio from each transmitter into distinct left and right channels. Ideal for two-person interviews or when you need independent control over each microphone's audio in post-production.

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100m



Image: The receiver with an "S/M" icon pointing to the mono/stereo switch, indicating its function.

5.5. Adjusting Gain (Volume)

- Use the "+/- SET" buttons on the transmitter to adjust the audio input gain. Monitor the audio levels on the OLED display and through your headphones to prevent clipping or low volume.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the devices. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the microphone system in its charging case when not in use to protect it from dust and damage.
- **Battery Care:** For optimal battery life, avoid fully discharging the devices frequently. Charge them regularly, even if not in constant use.
- **Environmental Conditions:** Keep the devices away from extreme temperatures, humidity, and direct sunlight.
- **Windshield Care:** The fur windshield can be gently cleaned with a soft brush if it collects dust or debris.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No audio output	<ul style="list-style-type: none">o Devices not powered ono Not pairedo Receiver not properly connected to deviceo Microphone mutedo Low battery	<ul style="list-style-type: none">o Ensure both TX and RXU are powered on.o Check pairing status; re-pair if necessary (they should auto-pair).o Ensure RXU is fully inserted into the USB-C port.o Unmute the transmitter.o Charge both devices.
Poor audio quality (static, distortion)	<ul style="list-style-type: none">o Interferenceo Too far from receivero Gain too high/lowo Wind noise	<ul style="list-style-type: none">o Move away from other 2.4GHz devices or strong electromagnetic fields.o Reduce distance between TX and RXU (within 328ft/100m).o Adjust gain levels on the transmitter.o Use the fur windshield in outdoor or windy conditions.
Short battery life	<ul style="list-style-type: none">o Devices not fully chargedo Aging battery	<ul style="list-style-type: none">o Ensure full charge before use.o Contact support if battery life significantly degrades over time.

8. SPECIFICATIONS

Feature	Detail
Brand	BOYA
Model Number	BY-XM6-K5
Connectivity Technology	USB (2.4GHz Wireless)
Connector Type	USB Type-C
Compatible Devices	Smartphone, USB-C Devices
Polar Pattern	Omnidirectional
Microphone Form Factor	Microphone System (Lavalier)
Operating Distance	Up to 328 feet (100 meters) without obstacles
Transmitter Battery Life	Approx. 7 hours
Total Usage Time (with charging case)	Approx. 21 hours
Charging Case Charge Time	Approx. 3 hours
Signal-to-Noise Ratio	77 dB
Frequency Response	35 Hz (lower end, typical range up to 18 kHz)
Item Weight	11.6 ounces (total package)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official BOYA website or contact your retailer. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: BOYA

Seller: Electronic-Gears (via Amazon)

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