

## BOYA BY-XM6-S2

# BOYA BY-XM6-S2 Wireless Lavalier Microphone User Manual

Model: BY-XM6-S2 | Brand: BOYA

## INTRODUCTION

The BOYA BY-XM6-S2 is a 2.4GHz dual-channel wireless microphone system designed to deliver high-fidelity, low-noise audio. It is compatible with a wide range of devices including DSLR cameras, camcorders, and smartphones, making it ideal for various recording scenarios such as interviews, live streaming, broadcasting, vlogging, and YouTube content creation.

## Key Features

- 2.4GHz Dual-Channel Wireless System:** Ensures pure and clear sound transmission with Hi-Fi and low-noise audio processing.
- Stable Signal Transmission:** Utilizes advanced adaptive frequency hopping (AFH) technology for stable transmission up to 100 meters (328 feet) without obstacles.
- Mono and Stereo Mode:** Offers flexible recording options with switchable mono/stereo output.
- Adjustable Gain Control:** Features 6 levels (0-24dB) of adjustable gain range for precise audio level management.
- Mute Function:** Allows for quick muting of the microphone when needed.
- Built-in and External Mic Options:** Includes a built-in omnidirectional microphone and supports external lavalier microphones for versatile input.
- Real-Time Monitoring:** Both transmitter and receiver feature a 3.5mm headphone monitor jack for live audio monitoring.
- High-Definition OLED Display:** Provides clear information on pairing status, battery level, audio input level, output mode, and volume.
- Compact and Portable Design:** Lightweight units (32g each) with dimensions of 62 x 31.6 x 16.5 mm, easily clipped or pocketed.
- Long Working Time:** Up to 7 hours of operation on a full charge (approx. 2 hours charging time).

## PACKAGE CONTENTS

The BOYA BY-XM6-S2 system includes the following components:

- BY-XM6 TX Transmitter × 2
- BY-XM6 RX Receiver × 1
- USB-C Charging Cable × 3

- Lavalier Microphone × 2
- Fur Windshield × 2
- 3.5mm TRS-TRS Cable × 1
- 3.5mm TRS-TRRS Cable × 1
- Carrying Pouch × 1



Image: The complete BOYA BY-XM6-S2 wireless microphone system, including two transmitters (TX), one receiver (RX), two lavalier microphones with fur windshields, various connection cables, and a carrying pouch.

Your browser does not support the video tag.

Video: A detailed unboxing of the BOYA BY-XM6-S2, showcasing all included components such as the transmitters, receiver, lavalier microphones, cables, and carrying pouch.

## PRODUCT OVERVIEW

# Product Structure



Image: Detailed diagram illustrating the components and ports of both the BY-XM6 TX transmitter and BY-XM6 RX receiver units.

## Transmitter (BY-XM6 TX)

The transmitter unit features a built-in microphone, a MIC/LINE IN jack for external microphones, an OLED display for status information, and a USB-C charging port (DC 5V). It also includes buttons for power/mute and gain adjustment.

## Receiver (BY-XM6 RX)

The receiver unit is equipped with a LINE OUT jack for connecting to recording devices, a 3.5mm headphone output for real-time monitoring, an OLED display, and a USB-C charging port. Control buttons include power/mute and +/-SET for navigation and adjustments.

## Bright & Informative OLED Display



Image: Close-up view of the OLED displays on both the transmitter (TX) and receiver (RX), detailing the various indicators such as pairing status, input mode, mic gain, audio input level, and battery level.

## SETUP

### Charging the Units

Before first use, fully charge both the transmitter(s) and receiver using the provided USB-C charging cables. Connect the cables to a 5V USB power adapter (not included). A full charge takes approximately 1.5 to 2 hours and provides up to 7 hours of working time.

**1.5H** Charging Time

**7H** Single Charge

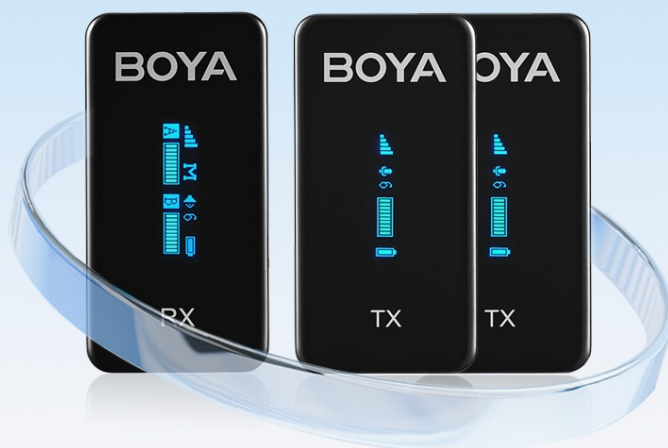


Image: Visual representation of the charging time (1.5 hours) and single charge runtime (7 hours) for the BOYA BY-XM6-S2 units.

### Pairing the Transmitter(s) and Receiver

The units are typically pre-paired from the factory. If re-pairing is needed, power on both the TX and RX units. The OLED display on both units will show a pairing indicator. If they do not pair automatically, refer to the detailed pairing instructions in the full user manual (PDF link below).

### Connecting to Your Device

Use the appropriate 3.5mm cable to connect the receiver to your recording device:

- For cameras and camcorders, use the 3.5mm TRS-TRS cable.
- For smartphones and tablets, use the 3.5mm TRS-TRRS cable.

Ensure the cable is securely connected to the LINE OUT jack on the receiver and the audio input of your recording device.

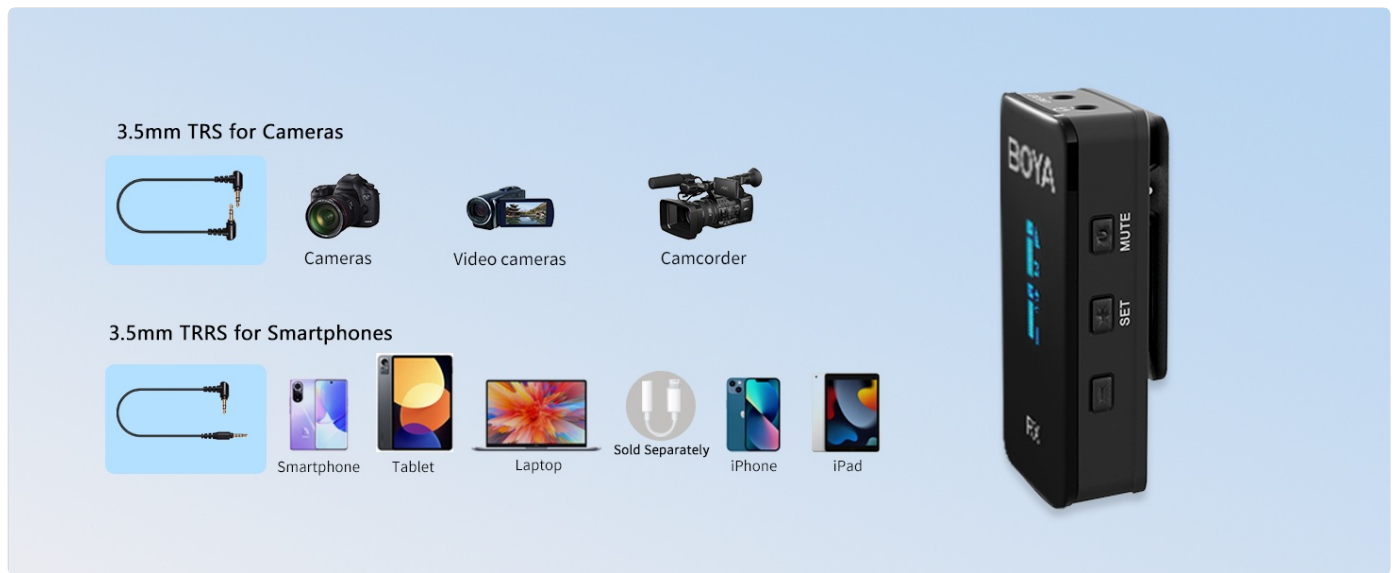


Image: Illustration showing the correct 3.5mm TRS cable for cameras/video cameras/camcorders and the 3.5mm TRRS cable for smartphones/tablets/laptops, demonstrating wide compatibility.

## OPERATING INSTRUCTIONS

### Power On/Off

Press and hold the power button on both the TX and RX units to power them on or off. The OLED display will illuminate upon power-on.

### Gain Adjustment

Adjust the audio input gain on the transmitter (TX) using the +/- buttons. There are 6 levels of adjustable gain (0-24dB) to optimize your audio levels and prevent distortion. Monitor the audio input level meter on the OLED display to ensure proper levels.



Image: Diagram illustrating the 0-6 level gain control range on the transmitter (TX) for precise audio adjustment.

### Mono/Stereo Mode Switching

The receiver (RX) allows you to switch between mono and stereo output modes. In mono mode, audio from both transmitters is mixed into a single channel. In stereo mode, each transmitter's audio is output to a separate channel (left and right). This is useful for post-production flexibility.





Image: Visual explanation of how the receiver (RX) can toggle between mono and stereo output modes, showing the difference in audio channel distribution.

## Real-Time Monitoring

Connect headphones to the 3.5mm headphone jack on the receiver (RX) to monitor your audio in real-time. This allows you to check sound quality and levels during recording to ensure optimal results.



Image: A user monitoring audio with headphones connected to the receiver, emphasizing the real-time monitoring feature for smooth recording.

## Using Lavalier Microphones

The BY-XM6-S2 system supports both its built-in omnidirectional microphone and external lavalier microphones. To use the external lavalier microphone, plug it into the MIC/LINE IN jack on the transmitter (TX). Secure the lavalier microphone to clothing, approximately 6-8 inches from the speaker's mouth, for optimal sound capture. Use the provided fur windshields for outdoor recording to reduce wind noise.

## Built-in Mic and External Mic Input Modes



Image: Demonstrates two ways of using the microphone: utilizing the built-in microphone by clipping the transmitter directly, and connecting an external lavalier microphone for discreet placement.

## MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the units. 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 carrying pouch for protection during transport and storage.
- **Battery Care:** For prolonged storage, ensure the batteries are partially charged (around 50%). Recharge them every few months to maintain battery health.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output.	Units not powered on; Not paired; Incorrect cable connection; Low battery.	Ensure TX and RX are powered on. Check pairing status on OLED display. Verify cable connections (TRS/TRRS). Charge units.
Distorted audio.	Gain too high; Microphone too close to source; Interference.	Reduce gain on TX. Adjust microphone distance. Move away from strong Wi-Fi or other 2.4GHz devices.
Weak or low audio.	Gain too low; Microphone too far from source; Incorrect input level on recording device.	Increase gain on TX. Adjust microphone distance. Check input settings on your camera/smartphone.
Intermittent signal.	Obstacles between TX and RX; Out of range; Strong interference.	Ensure clear line of sight. Stay within 100m operating range. Avoid areas with high wireless traffic.

## SPECIFICATIONS

Microphone Form Factor	Lavalier
Power Source	Battery Powered (2 Lithium Ion batteries included)
Material	Acrylonitrile Butadiene Styrene

Signal-to-Noise Ratio	84 dB
Hardware Platform	Camcorder, Camera, Smartphone
Number of Channels	2
Frequency Response	2.4 GHz
Item Weight	11.7 ounces
Item Model Number	BY XM6 S2
Polar Pattern	Omnidirectional
Audio Sensitivity	39 dB



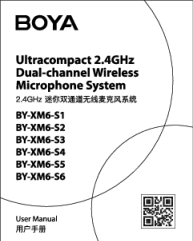
## WARRANTY AND SUPPORT

BOYA provides a two-year product warranty for the BY-XM6-S2 Wireless Lavalier Microphone system. For any questions, technical assistance, or warranty claims, please contact BOYA customer support directly.


A comprehensive User Manual in PDF format is also available for detailed instructions and information:

[Download Official User Manual \(PDF\)](#)

## Related Documents

	<p><a href="#">BOYA BY-XM6 Series: Ultracompact 2.4GHz Dual-Channel Wireless Microphone System User Manual</a></p> <p>User manual for the BOYA BY-XM6 series, an ultracompact and lightweight 2.4GHz dual-channel wireless microphone system. Learn about its features, available kits (S1-S6), and applications for content creation, vlogging, and mobile journalism.</p>
	<p><a href="#">BOYA BOYAMIC 2.4GHz Wireless Microphone System User Manual</a></p> <p>Comprehensive user manual for the BOYA BOYAMIC 2.4GHz dual-channel wireless microphone system. Covers features, setup, operation, troubleshooting, and specifications for vlogging, live streaming, and mobile journalism.</p>
	<p><a href="#">BOYA BY-XM6 Series Ultracompact 2.4GHz Dual-Channel Wireless Microphone System User Manual</a></p> <p>User manual for the BOYA BY-XM6 series ultracompact 2.4GHz dual-channel wireless microphone systems. Covers models BY-XM6-S1 through S6, detailing product structure, operation, and available kits for content creators and mobile journalists.</p>



	<p><a href="#">BOYA BY-XM6 Wireless Microphone System User Manual</a></p> <p>User manual for the BOYA BY-XM6, a 2.4GHz mini dual-channel wireless microphone system. This document provides general introduction, available kits, packing lists, product structure, operation guides for the receiver and transmitter, features, and specifications.</p>
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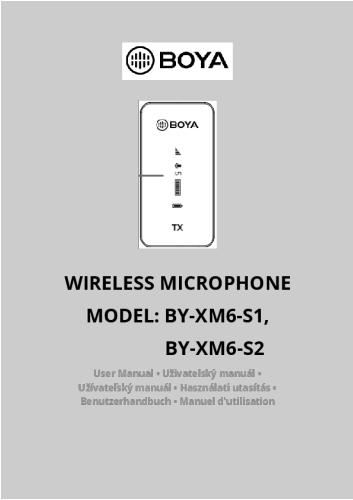
Documents - BOYA – BY-XM6-S2



[BOYA BY-XM6-S1/S2 Ultracompact 2.4 GHz Dual-channel Wireless Microphone System User Manual](#)

This user manual provides comprehensive instructions for the BOYA BY-XM6-S1 and BY-XM6-S2 ultracompact 2.4 GHz dual-channel wireless microphone systems. It covers product structure, operation guides, features, detailed specifications for both transmitter and receiver, and packing lists.

lang:en score:37 filesize: 522.25 K page\_count: 42 document date: 2021-11-02



[BOYA BY-XM6 Wireless Microphone System User Manual](#)

Comprehensive user manual for the BOYA BY-XM6 wireless microphone system (models BY-XM6-S1, BY-XM6-S2), detailing setup, operation, features, and technical specifications for content creation and professional audio recording.

lang:en score:34 filesize: 1.07 M page\_count: 103 document date: 2022-03-14



### [\[pdf\] User Manual](#)

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výstupní hlasitosti Výstupní hlasitost lze nastavit v rozsahu 0 až 6 Výchozí hodnota je 5 režimu výstupu

Režim na Boya manual fotoveci cz user documents upload Návod k použití |||

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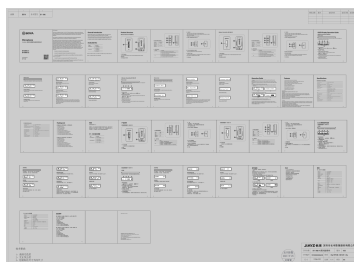
lang:hr **score:28** filesize: 538.58 K page\_count: 35 document date: 2024-06-18



### [BOYA BY-XM6 Ultracompact Wireless Microphone System User Manual](#)

Comprehensive user manual for the BOYA BY-XM6 Ultracompact 2.4 GHz Dual-channel Wireless Microphone System. Details product structure, operation, features, specifications, and packing lists for the BY-XM6-S1 and BY-XM6-S2 models, providing guidance for setup and use.

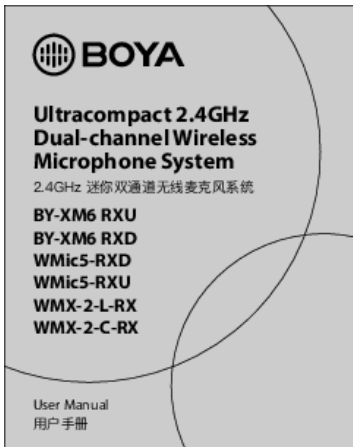
lang:en **score:27** filesize: 385.29 K page\_count: 21 document date: 2022-03-16



### [BOYA BY-XM6 Wireless Microphone System User Manual](#)

User manual for the BOYA BY-XM6, a 2.4GHz mini dual-channel wireless microphone system. This document provides general introduction, available kits, packing lists, product structure, operation guides for the receiver and transmitter, features, and specifications.

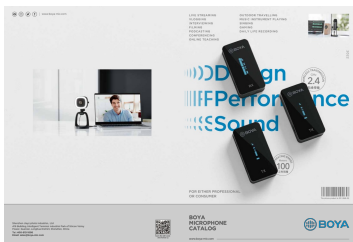
lang:en **score:26** filesize: 3.01 M page\_count: 1 document date: 2021-11-05



[BOYA BY-XM6 Ultracompact 2.4GHz Dual-channel Wireless Microphone System User Manual](#)

Discover the BOYA BY-XM6 series, an ultracompact, lightweight, and easy-to-use 2.4GHz dual-channel wireless microphone system. Ideal for content creation, vlogging, and mobile journalism, it delivers broadcast-quality audio to cameras, smartphones, and computers. This manual details product structure, operation, specifications, and available kits.

lang:en score:25 filesize: 2.17 M page\_count: 58 document date: 2022-06-24









[\[pdf\] Accessories Catalog](#)

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DESIGN / PERFORMANCE / SOUND ABOUT US BOYA is a leading audio supplier started in 2007. We speciali ... WIRELESS MICROPHONE BY-XM6-S1 2.4GHz Dual-channel Wireless Microphone 1 Transmitter 1 Receiver **BY-XM6-S2** 2.4GHz Dual-channel Wireless Microphone 2 Transmitters 1 Receiver For vlogging, live s...

lang:en score:19 filesize: 3.93 M page\_count: 26 document date: 2022-01-24

SUGGESTED RETAIL PRICE : December 2023		STREAMING	
Audio Technica		audio-technica	
	<b>Cardioid Condenser Microphone</b> AT2020 A large-diaphragm cardioid condenser microphone with a shock mount and pop filter. It features a 3-pin XLR connector and a frequency response of 20Hz to 20kHz.		<b>Dynamic Condenser USB Microphone</b> AT2020 USB A large-diaphragm cardioid condenser microphone with a shock mount and pop filter. It features a USB connector and a frequency response of 20Hz to 20kHz.
40 Pieces	3,290,-	1,450,-	
	<b>Large-diaphragm Condenser Microphone</b> AT2035 A large-diaphragm cardioid condenser microphone with a shock mount and pop filter. It features a 3-pin XLR connector and a frequency response of 20Hz to 20kHz.		<b>Dynamic Condenser USB Microphone</b> AT2035 USB A large-diaphragm cardioid condenser microphone with a shock mount and pop filter. It features a USB connector and a frequency response of 20Hz to 20kHz.
40 Pieces	1,290,-	3,300,-	
	<b>Cardioid Condenser USB Microphone</b> AT2020 USB A large-diaphragm cardioid condenser microphone with a shock mount and pop filter. It features a USB connector and a frequency response of 20Hz to 20kHz.		<b>Large-diaphragm Condenser Microphone</b> AT2035 A large-diaphragm cardioid condenser microphone with a shock mount and pop filter. It features a 3-pin XLR connector and a frequency response of 20Hz to 20kHz.
40 Pieces	5,600,-	1,200,-	

[Audio Technica, BOYA, Blackmagic Design Microphones & Switchers Price List](#)

A comprehensive price list and product overview for Audio Technica, BOYA microphones, and Blackmagic Design video switchers, detailing features, specifications, and suggested retail prices for streaming and audio production.

lang:en score:17 filesize: 1.34 M page\_count: 5 document date: 2023-12-19

BY-XM6 Q&A

Q1: Unable to use the product with an iPhone.  
A1:  
①After connecting TX and RX, the RX receiver can be used with an iPhone 6, iPhone 6s, or iPad using a T85 to T88S cable.  
②For phones without a 3.5mm port (e.g., iPhone 12/13/14), you need to use a T85 to Lightning cable for connection.

Q2: Unable to use the product with an Android phone.  
A2:  
①After connecting TX and RX, the RX receiver can be used with phones that have a 3.5mm port using a T85 to T88S cable.  
②For phones without a 3.5mm port, you need to use a T85 to Type-C cable for connection.  
③Some brands of phones (e.g., HONOR, OPPO) require enabling OTG function in the phone's general settings before using external devices.

Q3: The product does not charge when placed in the charging case.  
A3:  
①Check if the protective film on the charging contacts at the back of the product has been removed.  
②Clean the contacts of the product and the charging case to avoid poor contact caused by dust or moisture.  
③Charge the charging case to use if the low battery is causing the issue.

Q4: The product cannot power on.  
A4: Please check if the battery is depleted due to prolonged non-use and connect the charging cable to activate it.

Q5: The product's audio is not being recorded properly.  
A5:  
①Check if the TX is in mute mode. Look at the indicator light/audio interface of the TX transmitter or the microphone icon on the RX main interface. If mute mode is enabled, you need to disable it.  
②Check if the TX status is displayed as connected on the RX main interface. If the channel is not connected or disconnected, you need to enter the menu and use the Pair function to re-establish the connection for proper sound recording.

Q6: The product cannot enter the pairing mode.  
A6:  
①The product is set to the pairing mode by default, and it automatically pairs after being powered on. Frequent manual pairing is not recommended.

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lang:en score:16 filesize: 93.22 K page\_count: 2 document date: 2023-07-24