

Ultracompact 2.4 GHz Dual-channel Wireless Microphone System

2.4GHz 迷你双通道无线麦克风系统

BY-XM6-S1 BY-XM6-S2

User Manual 用户手册



General Introduction

BOYA BY-XM6 systems are incredibly lightweight, ultracompact and easy-to-use wireless microphone systems for up to 2 people.

The microphone delivers exceptional, broadcast-quality sound to DSLR, mirrorless and video cameras, smartphones, tablets, computers, etc.

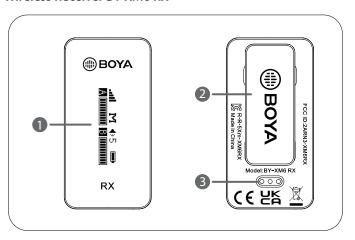
It is ideal for content creation, vlogging, mobile journalism, and more.

Available Kits

Model	In the box
BY-XM6-S1	1×BY-XM6 RX
	1×BY-XM6 TX
BY-XM6-S2	1×BY-XM6 RX
	2×BY-XM6 TX

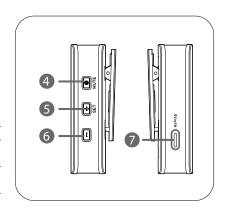
Product Structure

Wireless Receiver BY-XM6 RX



1. OLED display

- For more details, please refer to "OLED Display Operation Guide".
- 2.Belt clip
- 3.Charging contacts



4. Power/Mute button

Function	Operation	
Power ON	Long press	
Power OFF		
Mute ON	Short press	
Mute OFF	3Hort press	

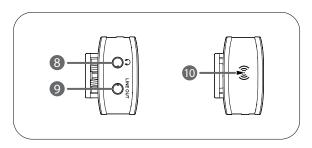
5. +/SET button

Function	Operation
+	On home screen, short press to increase volume.
	On menu screen, short press to select different functions
	or values shown on the display.
SET	On home screen, long press to enter the menu screen.
	On menu screen, long press to enter the displayed menu.
	Then, long press again to confirm your option.

6. - button

- On home screen, short press to decrease volume.
- On menu screen, short press to select different functions or values shown on the display;
- long press to return to home screen.

7. USB-C charging port (DC 5V)



8. 3.5mm headphone output

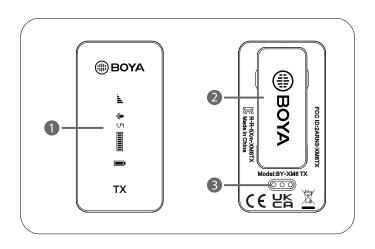
- Connect headphones for audio monitoring.

9. LINE OUT jack

- Connect the BY-XM6 RX to a smartphone, tablet, camera, recorder or mixer with the supplied output cables.

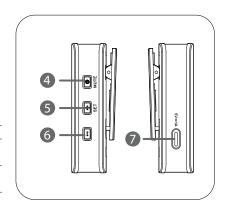
10. Antenna

Wireless Transmitter BY-XM6 TX



1. OLED display

- For more details, please refer to "OLED Display Operation Guide".
- 2.Belt clip
- 3. Charging contacts



4. Power/Mute button

Function	Operation
Power ON	Long press
Power OFF	
Mute ON	Short press
Mute OFF	

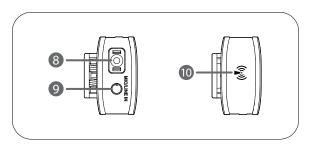
5. +/SET button

Function	Operation
+	On home screen, short press to adjust mic gain.
	On menu screen, short press to select different functions
	or values shown on the display.
SET	On home screen, long press to enter the menu screen.
	On menu screen, long press to enter the displayed menu.
	Then, long press again to confirm your option.

6. - button

- On home screen, short press to adjust mic gain.
- On menu screen, short press to select different functions or values shown on the display;
- long press to return to home screen.

7. USB-C charging port (DC 5V)



8. Built-in microphone

9. MIC/LINE IN jack

- It can be connected to the supplied 3.5mm lavalier microphone, or other 3.5mm TRS microphones or line-in devices.

10. Antenna

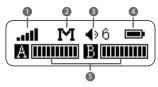
OLED Display Operation Guide

Wireless Receiver BY-XM6 RX

Home screen



If no operation is performed within 20 seconds on other screens, the display will automatically return to home screen.



1. Pairing indicator

Paired successfully Disconnected Pairing

2. RX's output mode

M: Mono S: Stereo

3. Output volume & Mute indicator

on home screen, press +/- button to adjust the volume.

Mute ON Mute OFF

4. RX's battery level indicator

Displays the RX battery level. Please recharge the device immediately when the indicator starts flashing.

5. Audio input level meter

Displays the audio input level.

Menu screen

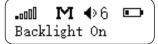


On home screen, long press SET button to enter menu screen. On menu screen, long press - button to return to home screen.



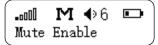
Connect Setting

Pair with the transmitter. For details of operation, please refer to "Operation Guide".



Backlight Setting

Set backlight to always on or on for 10/30/60 seconds. Default is "On".



Mute Key Setting

Enable or disable mute key button function. Default is "Enable".



Output Volume Setting

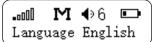
Output volume can be set from 0 to 6. Default is "5".



Output Mode Setting

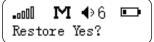
The output mode can be set to either mono or stereo. When in mono mode, the audio from the transmitter, or transmitters will be mixed to both the left and right sides. When in stereo mode, the two transmitters' audio output will be separated to the left and right sides.

Default is mono.



Language Setting

English or Chinese are available. Default is English.



Restore Default Setting



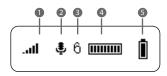
Version of the BY-XM6 RX

2.Wireless Transmitter BY-XM6 TX

Home screen



If no operation is performed within 20 seconds on other screens, the display will automatically return to home screen.



1. Pairing indicator

Paired successfully Disconnected (*) Pairing

2. Input mode & Mute indicator

Mic in 1 Line in

Mute ON

Mute ON (under Mic in mode) Mute ON (under Line in mode)

3. Mic gain

Displays the TX transmitter's mic gain level on home screen, press +/- button to adjust the microphone's input gain level.

4. Audio input level meter

Displays the audio input level.

5. TX's battery level indicator

Displays the TX battery level. Please recharge the device immediately when the indicator starts flashing.

Menu screen



On home screen, long press SET button to enter menu screen. On menu screen, long press - button to return to home screen.

Connect Yes?

Connect Setting

Pair with the receiver. For details of operation, please refer to "Operation Guide".

Backlight On

Backlight Setting

Set backlight to always on or on for 10/30/60 seconds. Default is "On".

Mute Enable

Mute Key Setting

Enable or disable mute key button function. Default is "Fnable"

Mic Gain 6/6

Mic Gain Setting

Adjust the microphone's input gain level (0~6). Default is "5".

Input Mic In

Input Mode Setting

The input mode can be selected to Mic In or Line In. When Mic In mode selected, the transmitter can be connected to the supplied lavalier microphone, or other microphones with a 3.5mm TRS output. When Line In mode selected, the transmitter can be connected to line-level output devices.

Default is "Mic In"

Language English

Language Setting

English or Chinese are available. Default is English.

Restore Yes?

Restore Default Setting

Version V1.05

Version of the BY-XM6 TX

Operation Guide

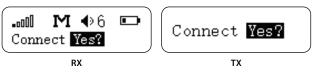
- 1. Long press the power button to turn on/off the transmitter and the receiver.
- 2. Pairing

Before leaving factory, the system is pre-paired. Therefore, the connection will be established once they are powered on. If they are disconnected, please follow below steps:

- ① Long press the SET button to enter menu screen
- ② Use the + or -button to display the Connect setting menu on both transmitter and receiver



③ Long press the SET button to select the menu.



- ④ Select Yes, and long press the SET button to confirm.
- (5) Transmitter and receiver will be successfully paired within 10s.
- 3. Connect the receiver to the mic input of a camera, recorder or mixer with the supplied 3.5mm TRS cable. Or connect the RX to a smartphone, tablet, or computer with the supplied 3.5mm TRS to TRRS cable.
- 4. You are ready to record.

Features

- 2.4GHz wireless transmission technology
- Ideal for content creation, vlogging, mobile journalism, and more
- Delivers exceptional, broadcast-quality sound
- Ultracompact clip-on transmitter and dual-channel receiver
- Easy-to-use OLED display
- Real-time headphone monitoring
- Operating range of up to 100m
- High-quality built-in microphone
- Lavalier microphone included

Specifications

BY-XM6 TX Transmitter

Transmission Type	2.4GHz Digital Frequency
Modulation	GFSK
Operating Range (without obstacle)	Up to 328ft (100m)
RF Output Power	<10mW
Polar Pattern	Omnidirectional
Frequency Response	35Hz-18KHz
Maximum SPL	Built-in Microphone: 120dB SPL
	Lavalier Microphone: 110dB SPL
Sensitivity	Built-in Microphone: -39dB
	Lavalier Microphone: -39dB
SNR	> 84dB
Power Requirements	Built-in Li-ion Battery or USB-C DC 5V or Charging Contact
Built-in Battery Life	Approx. 7 hours
Antenna	PIFA Antenna
Audio Inputs	3.5mm TRS MIC/LINE IN Jack or Built-in Microphone
Weight	Approx. 32g(1.13oz)
Dimensions	62.1×31.6×16.5mm
Operating Temperature	−10°C to 50°C
Storage Temperature	−20°C to +55°C

BY-XM6 RX Receiver

Transmission Type	2.4GHz Digital Frequency
Modulation	GFSK
Operating Range (without obstacle)	Up to 328ft (100m)
Audio Output Connector	3.5mm Headphone Jack
	3.5mm TRS Output Jack
Audio Output Level	-60 dBV to -20dBV
Power Requirements	Built-in Li-ion Battery or USB-C DC 5V or Charging Contact
Built-in Battery Life	Approx. 7 hours
Antenna	PIFA Antenna
Weight	Approx. 32g(1.13oz)
Dimensions	62.1×31.6×16.5mm
Operating Temperature	−10°C to 50°C
Storage Temperature	−20°C to +55°C

Packing List

BY-XM6-S1 $(1\times BY-XM6\ RX + 1\times BY-XM6\ TX)$

- 1× BY-XM6 RX Receiver
- 1× BY-XM6 TX Transmitter
- 2× USB-C Charging Cable
- 1× Lavalier Microphone
- 1× Mic Clip for Lavalier Microphone
- 1× Foam Windscreen for Lavalier Microphone
- 1× Fur Windshield for Built-in Microphone
- 1×3.5mm TRS to TRS Output Cable for Cameras
- 1×3.5mm TRS to TRRS Output Cable for Smartphones

BY-XM6-S2 $(1\times BY-XM6\ RX + 2\times BY-XM6\ TX)$

- 1× BY-XM6 RX Receiver
- 2× BY-XM6 TX Transmitter
- 3× USB-C Charging Cable
- 2× Lavalier Microphone
- 2× Mic Clip for Lavalier Microphone
- 2× Foam Windscreen for Lavalier Microphone
- 2× Fur Windshield for Built-in Microphone
- 1×3.5mm TRS to TRS Output Cable for Cameras
- 1×3.5mm TRS to TRRS Output Cable for Smartphones