

FULAIM WM500

FULAIM WM500 Wireless Lavalier Microphone System

User Manual

1. PRODUCT OVERVIEW

The FULAIM WM500 is a professional UHF wireless microphone system designed for high-quality audio capture in various scenarios, including interviews, vlogging, live streaming, and conference recording. It features advanced UHF radio wave technology and a dual-antenna design for stable signal transmission and enhanced anti-interference capabilities. The system includes a receiver and four transmitters, allowing for multi-person recording simultaneously.



Figure 1.1: FULAIM WM500 Wireless Microphone System components.

Key features include a built-in WNCR acoustic noise reduction technology, selectable UHF channels to avoid interference, and real-time audio monitoring. The integrated 1000mAh rechargeable lithium-ion batteries provide approximately 8 hours of working time, with a full charge achieved in about 2.5 hours.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x WM500 Receiver
- 4 x WM500 Transmitters
- 1 x TRS Cable (3.5mm to 3.5mm)
- 1 x TRRS Cable (3.5mm to 3.5mm for smartphones)
- 1 x XLR Cable

- 4 x Lavalier Microphones
- 1 x USB Charging Cable (multi-head for simultaneous charging)
- 1 x Receiver Cold Shoe Assembly
- 1 x Aluminum Carrying Case

What's in the packing list



① TRS Cable x1	② XLR cable x1	③ TRRS Cable x1	④ Lavalier Microphone x 3
⑤ Charging Cable x1	⑥ Charging Cable x1	⑦ Receiver x1	⑧ Transmitter x 3
⑨ Receiver Cold Shoe Assembly x1	⑩ Aluminum Box x1		

Figure 2.1: All components included in the FULAIM WM500 package.

3. COMPONENT IDENTIFICATION

Familiarize yourself with the various parts of the transmitter and receiver units:



Transmitter

- ① Transmitting antenna
- ② Power on indicator light (blue)
- ③ Charging indicator (red) Working indicator (blue)
- ④ Microphone input socket
- ⑤ Information display
- ⑥ Power button (long press for 2 s to turn on/off)
- ⑦ Noise reduction switch
- ⑧ Settings button
- ⑨ DC 5V charging connector



Receiver

- ① Audio output socket
- ② Power on indicator light (blue)
- ③ Charging indicator (red) Working indicator (blue)
- ④ Headphone output socket
- ⑤ Receiving antenna
- ⑥ Information display
- ⑦ Power button (long press for 2 s to turn on/off)
- ⑧ Settings button
- ⑨ DC 5V charging connector

Figure 3.1: Transmitter and Receiver component diagrams.

3.1 Transmitter (WM-500T)

1. Transmitting antenna
2. Power on indicator light (blue)
3. Charging indicator (red) / Working indicator (blue)
4. Microphone input socket
5. Information display
6. Power button (long press for 2 seconds to turn on/off)
7. Noise reduction switch (LCF)
8. Settings button
9. DC 5V charging connector

3.2 Receiver (WM-500R)

1. Audio output socket

2. Power on indicator light (blue)
3. Charging indicator (red) / Working indicator (blue)
4. Headphone output socket
5. Receiving antenna
6. Information display
7. Power button (long press for 2 seconds to turn on/off)
8. Settings button
9. DC 5V charging connector

4. SETUP GUIDE

4.1 Charging the Units

Before first use, fully charge the receiver and all transmitters. Use the provided multi-head USB charging cable to charge multiple units simultaneously.

- Connect the USB charging cable to a 5V/1A or 5V/2A USB power adapter (not included).
- Plug the Micro USB connectors into the charging ports (9) on the transmitters and receiver.
- The red charging indicator light (3) will illuminate during charging.
- The red indicator light will turn off when the unit is fully charged (approximately 2.5 hours).

4.2 Connecting to Recording Devices

The FULAIM WM500 system offers wide compatibility with various recording devices. Select the appropriate cable for your device:

WIDE APPLICATIONS

It can be widely used in Interviews, short video making, vlogging, live streaming and etc.

Livestreaming



Interview



Vlogging



YouTube



Figure 4.1: Wide compatibility of the FULAIM WM500 system.

- **DSLR Cameras/Camcorders:** Use the provided TRS cable (3.5mm to 3.5mm) to connect the receiver's audio output (1) to your camera's microphone input. For devices with XLR inputs, use the provided XLR cable.
- **Smartphones (iPhone/Android):** Use the provided TRRS cable (3.5mm to 3.5mm) to connect the receiver's audio output (1) to your smartphone's headphone/microphone jack. **Note:** iPhones may require a 3.5mm to Lightning adapter, and some Android smartphones with USB-C ports may require a 3.5mm to USB-C adapter (adapters not included).
- **PCs/Laptops:** Use the provided TRS cable (3.5mm to 3.5mm) to connect the receiver's audio output (1) to your computer's microphone input.

Mount the receiver onto your camera's hot shoe using the cold shoe assembly if applicable.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

To power on or off both the transmitter and receiver, long press the power button (6) for 2 seconds. The information display (5) will light up.

5.2 Channel Selection and Pairing

The WM500 system supports 12 selectable UHF channels per transmitter, allowing for flexible channel matching and interference avoidance. Each transmitter can be paired with the receiver on a different channel.

- Ensure both the transmitter and receiver are powered on.
- On the transmitter, press the settings button (8) to cycle through available channels.
- The receiver's display will show the connection quality and battery status for each paired transmitter.
- If interference occurs, change the channel on the transmitter until a clear signal is established. The operating range is up to 50 meters in open areas.



Figure 5.1: FULAIM WM500 operating distance.

5.3 Noise Reduction (LCF)

The WM500 features built-in WNCR acoustic noise reduction technology. To activate the low-cut filter (LCF) function and

reduce environmental and wind noise, slide the noise reduction switch (7) on the transmitter to the 'LCF' position.



Figure 5.2: LCF noise reduction switch.

5.4 Real-time Audio Monitoring

To monitor your audio in real-time during recording, connect your headphones to the 3.5mm headphone output socket (4) on the receiver. This allows you to check the audio status and ensure optimal sound quality.

Real-time Audio Monitor

Plug your headphone into the monitor port to test whether the microphone is working so as to complete the recording at a time



Figure 5.3: Real-time audio monitoring setup.

6. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your FULAIM WM500 system, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the units. Do not use harsh chemicals, cleaning solvents, or strong detergents.
- **Storage:** Store the system in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided aluminum carrying case for protection during transport and storage.
- **Battery Care:** For optimal battery life, avoid fully discharging the batteries frequently. If storing for an extended period, charge the units to about 50% every three months.
- **Handling:** Handle the units with care. Avoid dropping or subjecting them to strong impacts, which can damage internal components.

7. TROUBLESHOOTING

If you encounter issues with your FULAIM WM500 system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound or low volume	<ul style="list-style-type: none">Units not powered onIncorrect cable connectionLow batteryIncorrect channel pairingDevice input level too low	<ul style="list-style-type: none">Ensure all units are powered on.Verify cables are securely connected to correct ports.Charge the units.Re-pair transmitter and receiver on a clear channel.Adjust input volume on your recording device.
Interference or static noise	<ul style="list-style-type: none">Other wireless devices nearbyObstacles blocking signalLCF switch off	<ul style="list-style-type: none">Change to a different UHF channel.Move closer to the receiver or remove obstacles.Activate the LCF switch on the transmitter.
Short operating range	<ul style="list-style-type: none">Environmental interferencePhysical obstructions	<ul style="list-style-type: none">Ensure line of sight between transmitter and receiver.Avoid areas with strong Wi-Fi or other wireless signals.
Units not charging	<ul style="list-style-type: none">Faulty cable or power adapterCharging port damage	<ul style="list-style-type: none">Try a different USB cable and power adapter.Contact customer support if issue persists.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Microphone Form Factor	Lavalier
Connectivity Technology	UHF Wireless, USB, XLR
Power Source	Battery Powered (5 Lithium-polymer batteries included)
Battery Capacity	1000 mAh (Transmitter & Receiver)
Working Time	Approx. 8 hours
Charging Time	Approx. 2.5 hours
Signal-to-Noise Ratio	80 dB
Number of Channels	12 (selectable per transmitter)
Operating Range	Up to 50 meters (in open areas)

Feature	Specification
Material	Metal
Compatible Devices	Camera, Camcorder, PC, Laptop, Smartphone
Special Features	Voice-activated recording, Mute function, Noise Reduction (LCF)
Included Components	4 Lavalier Microphones, 4 Transmitters, 1 Receiver
Color	Black

9. WARRANTY AND SUPPORT

FULAIM products are manufactured to high quality standards. For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official FULAIM website. Keep your proof of purchase for any warranty claims.

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Documents - FULAIM – WM500



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WM500-U: WM500-UR: Description of each function of the transmitter: 1. Instructions pour la...

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