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> LMRC LM06 FPV Drone User Manual: 1080P HD Camera Quadcopter Instructions

## LMRC LM06

# LMRC LM06 FPV Drone User Manual

1080P HD CAMERA QUADCOPTER INSTRUCTIONS

## 1. Introduction

This manual provides comprehensive instructions for the safe operation and maintenance of your LMRC LM06 FPV Drone. The LM06 is a high-performance quadcopter equipped with a 1080P HD camera, designed for both adults and kids. It features modular batteries, optical flow positioning, altitude hold, headless mode, and one-key take-off/landing for an enhanced flying experience.



Figure 1.1: LMRC LM06 FPV Drone and included accessories.

Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury. Keep this manual for future reference.

## 2. Safety Guidelines

- Always operate the drone in open areas, away from people, animals, buildings, and power lines.
- Do not fly in strong winds, rain, or other adverse weather conditions.
- Maintain a safe distance from the rotating propellers. Do not touch them during operation.
- Ensure batteries are fully charged before each flight.
- Supervise children during drone operation.
- Do not modify the drone or its components.
- Follow all local regulations and laws regarding drone operation.

## 3. Package Contents

Verify that all items listed below are present in your package:

- LMRC LM06 FPV Drone
- Remote Controller
- Modular Batteries (x2)
- USB Charging Cable
- Spare Propellers (x4)
- Propeller Guards (x4)
- Screwdriver
- User Manual



Figure 3.1: Complete package contents of the LMRC LM06 FPV Drone.

## 4. Component Identification

### 4.1 Drone Components

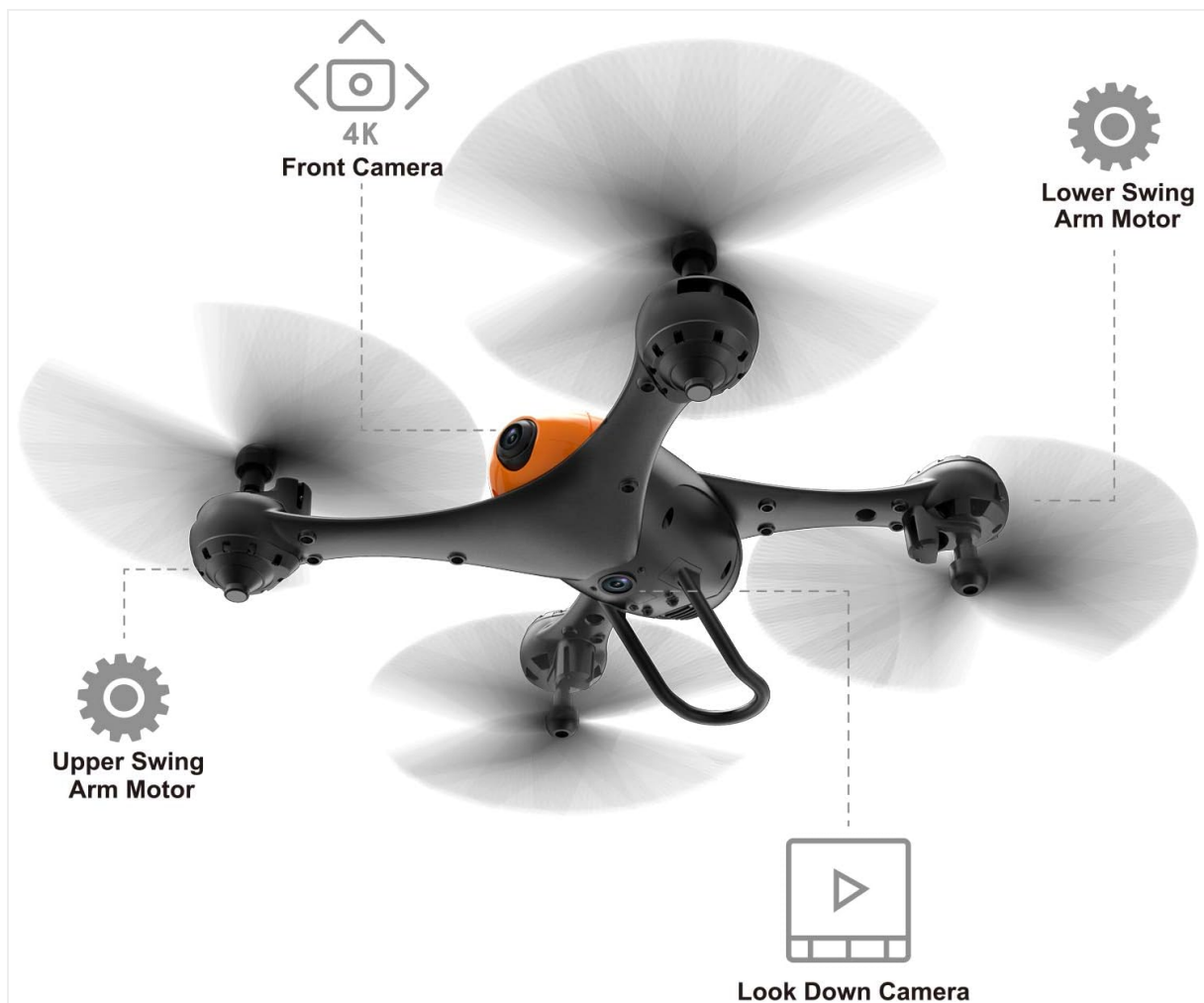


Figure 4.1: Key components of the LMRC LM06 Drone.

- **Front Camera:** 1080P HD camera for capturing photos and videos.
- **Bottom Camera:** Optical flow sensor and secondary camera for stable hovering.
- **Propellers:** Four rotating blades for lift and propulsion.
- **Motors:** Drive the propellers.
- **Modular Battery Compartment:** Houses the removable flight battery.
- **LED Indicators:** Provide status information (e.g., power, pairing).

## 4.2 Remote Controller Components



Figure 4.2: LMRC LM06 Remote Controller.

- **Left Joystick:** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.
- **One Key Take-off/Landing Button:** Initiates automatic take-off or landing.
- **Headless Mode Button:** Activates/deactivates headless mode.
- **Speed Switch Button:** Toggles between different speed modes.
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Power Button:** Turns the remote controller on/off.
- **Phone Holder:** Secures your smartphone for FPV viewing.

## 5. Setup

### 5.1 Charging Batteries

1. Connect the modular drone battery to the USB charging cable.
2. Plug the USB cable into a 5V/1A USB adapter (not included) or a computer USB port.
3. The indicator light on the USB cable will show charging status. Charge until fully charged (typically

60-90 minutes).

4. For the remote controller, insert 3 AAA batteries (not included) into the battery compartment.

## 5.2 Installing Propellers and Guards

1. Identify the 'A' and 'B' marked propellers. Match them to the corresponding motor arms (refer to markings on the drone).
2. Attach each propeller to its motor shaft and secure it with the provided screws using the screwdriver.
3. Snap the propeller guards onto the drone's arms, ensuring they are firmly in place.

## 5.3 Installing Drone Battery

1. Slide the fully charged modular battery into the battery compartment on the back of the drone until it clicks into place.
2. Press and hold the power button on the drone to turn it on. The LED lights will flash.

## 5.4 App Download and Connection (WiFi FPV)

1. Scan the QR code in the manual or search for the "LMRC FPV" app in your smartphone's app store.
2. Install and open the app.
3. Turn on the drone.
4. Go to your smartphone's Wi-Fi settings and connect to the Wi-Fi network named "LMRC-XXXXXX".
5. Return to the app. The live video feed should now be displayed.

# 6. Operating Instructions

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## 6.1 Pairing the Drone and Remote

1. Place the drone on a flat, level surface.
2. Turn on the drone (LEDs will flash).
3. Turn on the remote controller.
4. Push the left joystick all the way up, then all the way down. The drone's LEDs will stop flashing and remain solid, indicating successful pairing.

## 6.2 Calibration

After pairing, perform a gyroscope calibration:

- Push both joysticks down and to the right simultaneously.
- The drone's LEDs will flash rapidly and then become solid, indicating successful calibration.

## 6.3 Take-off and Landing

- **One Key Take-off:** Press the One Key Take-off/Landing button. The drone will automatically ascend and hover at a stable altitude.
- **Manual Take-off:** After pairing and calibration, push both joysticks down and outwards to start the propellers. Then, gently push the left joystick up to ascend.
- **One Key Landing:** Press the One Key Take-off/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Gently pull the left joystick down to descend. Once landed, pull both joysticks down and inwards to stop the propellers.

## 6.4 Flight Controls

## Introduction To Basic Functions



Figure 6.1: Overview of basic flight functions.

- **Altitude Hold:** The drone maintains its current altitude automatically when the left joystick is released.
- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. Press again to exit.
- **Speed Switch:** Press the Speed Switch button to cycle through low, medium, and high-speed modes.
- **3D Flip:** Fly the drone to a height of at least 2 meters. Press the 3D Flip button, then quickly move the right joystick in any direction to perform a flip.

### 6.5 Camera Operation

- **Photo:** Press the Photo/Video button once on the remote or tap the photo icon in the app to take a picture.
- **Video:** Press and hold the Photo/Video button on the remote or tap the video icon in the app to start recording. Press again to stop.
- **Double Camera Switch:** Use the dedicated button on the remote or in the app to switch between the front and bottom cameras.
- Captured media is saved to your smartphone via the app.

## 7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Avoid water or solvents.
- **Propeller Replacement:** If propellers are damaged, replace them with new ones from the spare parts kit. Ensure correct 'A' and 'B' propeller placement.
- **Battery Care:**
  - Do not overcharge or over-discharge batteries.
  - Store batteries in a cool, dry place away from direct sunlight.
  - If not used for extended periods, charge batteries to about 50% capacity.
- **Storage:** Store the drone and its components in a safe place to prevent damage.

## 8. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery; out of range.	Re-pair drone and remote; charge batteries; ensure drone is within operating range.
Drone drifts during flight.	Not calibrated; uneven surface at take-off; wind interference.	Perform gyroscope calibration; take off from a flat surface; avoid flying in windy conditions.
No FPV video feed.	Wi-Fi not connected; app not open; drone not powered on.	Connect to drone's Wi-Fi in phone settings; open the LMRC FPV app; ensure drone is on.
Propellers do not spin.	Drone not armed; low battery; damaged motor/propeller.	Ensure drone is paired and calibrated, then arm motors (joysticks down and outwards); charge battery; inspect for damage.

## 9. Specifications

Feature	Detail
Brand	LMRC
Model	LM06
Dimensions	35.2 x 20.7 x 7.9 cm
Item Weight	649 g
Video Capture Resolution	1080p
Special Features	Integrated Camera, Lightweight, Portable, Optical Flow, Altitude Hold, Headless Mode
Batteries	1 Lithium Ion battery required (included)
Skill Level	All

## 10. Warranty and Support

For warranty information or technical support, please refer to the contact details provided on the product

packaging or the official LMRC website. Keep your purchase receipt as proof of purchase.