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LKHLTBF V198 GPS MAX

LKHLTBF V198 GPS MAX Drone User Manual

This manual provides detailed instructions for the safe operation, setup, and maintenance of your LKHLTBF V198 GPS MAX drone.

1. Introduction

Welcome to the LKHLTBF V198 GPS MAX drone. This advanced quadcopter features 8K HD dual cameras, 5G WiFi real-time image transmission, GPS positioning, brushless motors, and intelligent obstacle avoidance. Please read this manual thoroughly before operating the drone to ensure safe and optimal performance.

Safety Guidelines

- Always operate the drone in open, unobstructed areas, away from people, animals, and buildings.
- Ensure the drone battery and remote control are fully charged before each flight.
- Adhere to all local regulations and laws regarding drone operation.
- Do not fly the drone in strong winds, rain, or other adverse weather conditions.
- Maintain a safe distance from the rotating propellers.
- Perform pre-flight checks, including propeller attachment and camera functionality.

2. Package Contents

Verify that all items are present in your package:

- LKHLTBF V198 GPS MAX Drone
- Remote Control
- Flight Battery (Single Battery configuration)
- Spare Propellers
- USB Charging Cable
- Screwdriver
- User Manual

3. Components Overview

Drone Components

The V198 GPS MAX drone features a foldable design for portability. Key components include brushless motors, dual 8K HD cameras, obstacle avoidance sensors, and LED lights.



Figure 3.1: LKHLTBF V198 GPS MAX Drone, remote control, and obstacle avoidance module. This image illustrates the drone's main body, its foldable arms, the remote control with a screen, and a separate obstacle avoidance sensor.

Remote Control Components

The remote control includes joysticks for flight control, dedicated buttons for various functions, an LCD screen for flight data, and a telescopic phone stand for FPV viewing.



Figure 3.2: Remote Control Guide. This diagram labels the various buttons and ports on the remote control, including joysticks, power switch, GPS switch, lens adjustment, obstacle avoidance switch, gyroscope calibration, unlock button, LCD screen, charging socket, memory card socket, and data cable socket.

4. Setup

4.1 Battery Installation and Charging

Drone Battery: Insert the flight battery into the drone's battery compartment until it clicks into place. To charge, connect the battery to the USB charging cable and a suitable power adapter (not included). The charging indicator will show the charging status.

Remote Control: The remote control features a built-in rechargeable battery. Connect the remote control to a Type-C USB cable for charging. The charging interface supports multi-adaptation.



Figure 4.1: Remote control charging. This image shows the remote control being charged via a Type-C cable, highlighting the 4.5-inch high-definition screen and the telescopic phone stand.

4.2 Propeller Installation

Attach the propellers according to the markings (A and B) on the propellers and motor arms. Ensure they are securely fastened. Incorrect propeller installation can affect flight stability.

4.3 App Installation

Download and install the official LKHLTBF drone application on your mobile device. This app is required for 5G real-time FPV viewing and advanced flight functions. Refer to the QR code in the quick start guide (if provided) or search for the app in your device's app store.

5. Operating Instructions

5.1 Power On/Off

Power On: Press and hold the power button on the drone and then on the remote control until the indicator lights illuminate.
Power Off: Press and hold the power button on both the drone and remote control until the indicator lights turn off.

5.2 Pairing the Remote Control

After powering on both the drone and remote control, the remote control will automatically attempt to pair with the drone. Wait for the indicator lights to stabilize, indicating a successful connection.

5.3 Calibration

Before the first flight and after any significant impact, perform calibration for optimal performance.

- **Gyroscope Calibration:** Place the drone on a flat, level surface. Follow the instructions in the app or remote control to initiate gyroscope calibration.
- **Geomagnetic Calibration:** Perform this calibration outdoors in an open area, away from magnetic interference. Follow the on-screen instructions or remote control prompts to rotate the drone horizontally and vertically.

5.4 Takeoff and Landing

- **One-Key Takeoff:** After successful calibration and GPS signal acquisition, press the one-key takeoff button. The drone will automatically ascend to a safe altitude and hover.
- **One-Key Landing:** Press the one-key landing button. The drone will automatically descend and land at its current position.

5.5 Flight Modes

- **GPS Positioning Mode:** Provides stable hovering and precise positioning outdoors when a strong GPS signal is available.
- **Optical Flow Positioning Hover:** For indoor or low-GPS environments, the optical flow sensor assists in maintaining altitude and position.



Figure 5.1: Optical flow positioning hover. This image shows the drone hovering, indicating the use of optical flow sensors for stable positioning.

- **Headless Mode:** In this mode, the drone's orientation is irrelevant; it will move relative to the pilot's position.
- **Waypoint Flight:** Draw a flight path on the app's map, and the drone will automatically follow the designated route.
- **Orbit Flight:** The drone will fly in a circular path around a designated point, providing a dynamic shooting angle.
- **Follow Me Mode:** The drone will automatically follow the remote control or mobile device, tracking the user's movement.

5.6 Camera Operation

The V198 GPS MAX is equipped with dual 8K HD cameras, offering a 120° wide-angle view and 90° remote-controlled angle adjustment.



Figure 5.2: 8K camera detail. This image highlights the drone's 8K level camera, its 90° remote control angle adjustment capability, and 50x zoom function.

- **Taking Photos:** Press the dedicated photo button on the remote control or in the app to capture still images.
- **Recording Videos:** Press the dedicated video button to start and stop video recording.
- **5G Real-time FPV Transmission:** Connect your mobile device to the drone's 5G WiFi network to view live video feed from the camera on your phone screen.



Figure 5.3: 5G real-time high-definition image transmission. This image demonstrates the drone transmitting live video to the remote control's integrated screen, showcasing the FPV experience.

5.7 Obstacle Avoidance

The drone is equipped with intelligent obstacle avoidance sensors. When activated, the drone will detect and automatically maneuver around obstacles in its flight path, enhancing safety.

5.8 Return to Home (RTH)

The RTH function allows the drone to automatically return to its takeoff point. This can be activated manually via the remote control or automatically in cases of low battery or loss of signal.

6. Maintenance

- **Cleaning:** Regularly clean the drone body, camera lens, and sensors with a soft, dry cloth. Avoid using liquids or solvents.
- **Propeller Inspection:** Before each flight, inspect propellers for any damage, cracks, or bends. Replace damaged propellers

immediately.

- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries. If storing for extended periods, charge to approximately 50-60%.
- **Storage:** When not in use, store the drone and remote control in a protective case or a safe, dry environment.

7. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Incorrect battery installation	Charge drone battery; Reinstall battery correctly
Unable to connect to remote control	Remote control not powered on; Pairing failed	Ensure remote control is on; Re-attempt pairing process
Unstable flight/Drifting	Improper calibration; Strong winds; Damaged propellers	Perform gyroscope and geomagnetic calibration; Fly in calm conditions; Replace damaged propellers
Poor camera image/video quality	Dirty lens; Weak WiFi signal; Insufficient lighting	Clean camera lens; Ensure strong 5G WiFi connection; Fly in well-lit conditions
GPS signal not acquired	Flying indoors; Obstructions; Magnetic interference	Fly outdoors in an open area; Avoid tall buildings and strong magnetic fields

8. Specifications

Feature	Detail
Brand	LKHLTBF
Model Name	V198 GPS MAX (Aviones)
Model Number	66595181-SINGLEBATTERY-4K
Camera	Dual 8K HD, 120° Wide-angle, 90° Remote Control Angle, 50x Zoom
Image Transmission	5G WiFi Real-time FPV
Flight Time	Up to 22-30 minutes (with 3000 mAh battery)
Control Distance	Up to 3000m
Motor Type	Brushless
Positioning System	GPS Positioning, Optical Flow Positioning
Obstacle Avoidance	Intelligent Laser Obstacle Avoidance
Flight Speed Levels	3 levels
Material	High-strength engineering plastic

Feature	Detail
ASIN	B0FQJM71WK
Country of Origin	China

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.

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