**LKHLTBF V198 MAX**

# LKHLTBF V198 MAX GPS Drone User Manual

Model: V198 MAX

## 1. Introduction

Thank you for purchasing the LKHLTBF V198 MAX GPS Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.
The V198 MAX is a high-performance GPS drone featuring a 4K HD camera, brushless motors, and advanced obstacle avoidance capabilities, designed for aerial photography and stable flight.

## 2. Package Contents

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

- 1 x V198 MAX Quadcopter
- 1 x Remote Control Transmitter with Screen
- 1 x Storage Bag
- 1 x Memory Card
- 4 x Blade Screws
- 1 x USB Charging Cable
- 1 x Screwdriver
- 2 x User Manuals (this document)
- 8 x Spare Propeller Blades

## 3. Setup

### 3.1. Unfolding the Drone

Gently unfold the drone arms until they lock into position. Ensure all arms are fully extended before flight.

### 3.2. Battery Installation and Charging

**Drone Battery:** Insert the 7.4V 3000mAh quadrotor battery into the drone's battery compartment. Ensure it clicks securely into place. Connect the USB charging cable to the drone battery and a suitable USB power adapter (not included). The charging time is approximately 90 minutes.
**Remote Control Battery:** The remote control has a built-in rechargeable battery. Use the provided USB charging cable to charge the remote control. The charging indicator will show the charging status.

## 3.3. Propeller Installation

If propellers are not pre-installed, attach them according to the markings (A and B) on the propellers and motor shafts. Use the provided screws and screwdriver to secure them. Ensure propellers are installed correctly to avoid flight instability.

## 3.4. Remote Control Overview

Familiarize yourself with the remote control layout. The remote features a 4.5-inch display for real-time flight information and camera feed.




**Image:** Remote Control Guide. This image illustrates the various buttons, joysticks, and ports on the V198 MAX drone's remote control, including the LCD screen, charging socket, memory card socket, and data cable socket.

- **Throttle:** Controls altitude.
- **Direction Lever:** Controls forward/backward and left/right movement.
- **GPS Switch:** Activates/deactivates GPS positioning.
- **Power Switch:** Turns the remote control on/off.
- **LCD Screen:** Displays flight data and camera feed.
- **Lens Adjustment:** Adjusts camera angle.
- **Obstacle Avoidance Switch:** Toggles obstacle avoidance.
- **Gyroscope Calibration:** Calibrates the drone's gyroscope.
- **Unlock:** Unlocks motors for flight.
- **Take Pictures/Picture Recording:** Camera controls.

### 3.5. Pairing and Calibration

1. Place the drone on a flat, level surface.
2. Turn on the drone, then turn on the remote control.
3. The drone and remote control will automatically attempt to pair. Wait for the indicator lights to stabilize, indicating a successful connection.
4. Perform gyroscope calibration by pressing the designated button on the remote control (refer to the remote control diagram).
5. Ensure GPS signal acquisition before outdoor flight. The GPS indicator on the remote or drone will confirm signal lock.

## 4. Operating Instructions

### 4.1. Basic Flight Controls

- **One-Button Takeoff/Landing:** Press the designated button for automatic takeoff or landing.
- **Ascend/Descend:** Use the left joystick (throttle) to control altitude.
- **Forward/Backward:** Push the right joystick forward or backward.
- **Left/Right Flight (Strafe):** Push the right joystick left or right.
- **Steering (Yaw):** Use the left joystick left or right to rotate the drone.

### 4.2. GPS Positioning Mode

Activate GPS mode for stable hovering and precise positioning. In GPS mode, the drone will maintain its position even in light winds. Ensure a strong GPS signal before activating this mode.




**Image:** GPS Intelligent Positioning. This image highlights the drone's GPS capabilities, including intelligent positioning and automatic return functions for low battery, over range, or loss of control.

## 4.3. Headless Mode

In Headless Mode, the drone's orientation is relative to the pilot, making it easier to control without needing to know the drone's front direction. This is useful for beginners.

## 4.4. Obstacle Avoidance

The V198 MAX is equipped with four-way obstacle avoidance sensors. When activated, the drone will automatically detect and avoid obstacles in its path, reducing the risk of collisions. This feature is designed to assist, not replace, careful piloting.




**Image:** Intelligent Perception Obstacle Avoidance. This image demonstrates the drone's ability to detect and avoid obstacles, preventing collisions and falls.

## 4.5. Camera Operation

The drone features a 4K HD camera with a 120° wide-angle lens, electrically adjustable by 90°. Use the dedicated buttons on the remote control to take photos or record videos. The camera also supports gesture photography and 50x zoom via the mobile application.




**Image:** 8K Camera High Quality. This image showcases the drone's high-quality camera system, highlighting its 90° remote control adjustment and 50x zoom capabilities.

### 4.6. Intelligent Flight Modes

- **GPS Automatic Return:** The drone will automatically return to its takeoff point in cases of low battery, loss of signal (over range), or manual activation.
- **Fixed Altitude Function:** Maintains a stable altitude for easier control and steady shots.
- **Trajectory Flight:** Draw a path on the mobile app, and the drone will follow it.
- **Follow Me Mode:** The drone will automatically follow the remote controller or mobile device.
- **Orbit Mode:** The drone will circle a designated point of interest.
- **Gesture Photography/Video:** Perform specific hand gestures to trigger photo or video recording.

## 5. Maintenance

### 5.1. Cleaning

Regularly clean the drone body, camera lens, and sensors with a soft, dry cloth. Avoid using harsh chemicals or solvents.

Ensure no dust or debris obstructs the motors or propellers.

### 5.2. Propeller Replacement

Inspect propellers for damage before each flight. Replace any bent, cracked, or chipped propellers immediately using the provided spare blades and screwdriver. Ensure correct A/B propeller orientation.

### 5.3. Battery Care

- Do not overcharge or over-discharge the batteries.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge batteries to approximately 50-60% capacity.
- Do not use damaged or swollen batteries.

### 5.4. Storage

When not in use, fold the drone and store it in the provided storage bag to protect it from dust and physical damage. Remove batteries if storing for a long duration.

## 6. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Drone does not power on. | Low or uncharged battery; incorrect battery installation. | Charge the drone battery fully. Ensure the battery is correctly inserted and connected. |
| Remote control does not connect to drone. | Drone and remote not paired; remote control battery low. | Ensure both devices are powered on. Recharge remote control. Perform pairing procedure again. |
| Unstable flight or drifting. | Gyroscope not calibrated; strong winds; damaged propellers. | Perform gyroscope calibration on a flat surface. Avoid flying in strong winds. Replace damaged propellers. |
| No GPS signal. | Flying indoors or in an area with poor satellite reception. | Fly outdoors in an open area with a clear view of the sky. Wait for GPS signal lock before takeoff. |
| Camera not recording or taking photos. | Memory card full or not inserted; camera not activated. | Ensure memory card is inserted and has free space. Check camera connection and activation via remote or app. |
| Obstacle avoidance not working. | Feature deactivated; sensors obstructed or dirty. | Ensure obstacle avoidance is enabled on the remote. Clean sensors carefully. |

## 7. Specifications

| Feature | Detail |
|---|---|
| Product Model | V198 MAX |
| Brand | LKHLTBF |
| Frequency | 5G |
| Motor Type | Brushless 7.4V GB1503 |
| Quadcopter Battery | 7.4V 3000mAh |

| Feature | Detail |
|---|---|
| Transmitter Battery | USB Rechargeable |
| Flight Time (GPS Version) | 22-30 minutes |
| Charging Time | 90 minutes |
| Remote Control Distance | 3000 meters |
| Camera | 5G WiFi 4K HD, 120° Wide-angle, 90° Electrically Adjustable |
| Folded Dimensions | 16 x 10 x 8.5 cm |
| Unfolded Dimensions | 31 x 27 x 10 cm |
| Obstacle Avoidance | Four-way Laser Avoidance |
| Model Number | 66606625-DUALBATTERY |

## 8. Warranty and Support

### 8.1. Warranty Information

Specific warranty details for the LKHLTBF V198 MAX GPS Drone are not provided in this manual. Please refer to the product packaging, purchase documentation, or contact your retailer for information regarding warranty coverage and terms.

### 8.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your product, please contact LKHLTBF customer service. Contact information can typically be found on the product packaging or the official LKHLTBF website.