



Manuals.plus /

› ikaufen /

› ikaufen S181 Drone with Camera for Adults GPS RC Drone With 4K HD Dual Camera WiFi FPV Foldable Quadcopter Aircraft +2 Battery Instruction Manual

ikaufen S181

ikaufen S181 Drone Instruction Manual

Model: S181

1. PRODUCT OVERVIEW

The ikaufen S181 is a sophisticated GPS RC drone designed for both adults and beginners, featuring a 4K HD dual camera, WiFi FPV (First Person View) capabilities, and a convenient foldable design. It offers a range of intelligent flight modes and robust performance for an enjoyable aerial photography experience.



Figure 1.1: ikaufen S181 Drone with its remote control, carrying case, and essential accessories including spare propellers and charging cable.

2. SETUP GUIDE

2.1 Package Contents

- ikaufen S181 Drone
- Remote Control
- 2 x Drone Batteries
- USB Charging Cable
- Spare Propellers (4 pieces)
- Screwdriver
- User Manual (this document)
- Carrying Case

2.2 Charging the Batteries

Before first use, ensure both the drone battery and the remote control battery are fully charged. Connect the provided USB charging cable to the drone battery and a compatible USB power adapter (not included). The indicator light will show charging status. Similarly, charge the remote control.

Remote Control Guide

5G long-distance signal, humanized design
*Excluding mobile phones



Figure 2.1: The remote control with a smartphone mounted, indicating the charging port and status lights.

2.3 Unfolding the Drone

Carefully unfold the drone arms until they click into place. Ensure all arms are fully extended and locked before flight. The drone's compact design allows for easy portability when folded.



Figure 2.2: The drone shown in both its folded and unfolded configurations, highlighting its compact size and extended dimensions.

3. OPERATING INSTRUCTIONS

3.1 Remote Control Overview

Familiarize yourself with the remote control layout. It features dual joysticks for flight control, dedicated buttons for one-click takeoff/landing, GPS mode, speed switching, camera control, and more. A smartphone can be mounted to view the FPV feed.

Remote Control Guide

5G long-distance signal, humanized design

*Excluding mobile phones



Figure 3.1: A comprehensive guide to the remote control, detailing the function of each button and joystick for precise drone operation.

3.2 Basic Flight Operations

- **One-Click Takeoff/Landing:** Press the designated button on the remote for automatic takeoff or landing.
- **Hover:** The drone utilizes optical flow positioning for stable indoor and outdoor hovering, making it easier for beginners to control.
- **Speed Modes:** Cycle through 3-speed settings to match your flying skill level and environment.
- **Headless Mode:** Simplifies control by eliminating the need to orient the drone relative to the pilot.

Video 3.1: Demonstrates the drone's one-click takeoff feature and stable flight capabilities, showcasing its ease of use.

3.3 Camera Functions

The S181 drone is equipped with a 4K HD dual camera system, offering high-definition imaging. The lens can be remotely controlled to adjust the shooting angle by 90 degrees, allowing for multi-angle aerial photography. It also supports up to 50x digital zoom.

Electrically adjustable dual camera

Remote control/switching of perspective



Figure 3.2: A detailed view of the drone's electrically adjustable dual camera, highlighting its remote control capabilities for angle adjustment and zoom function.

3.4 Intelligent Flight Features

- **GPS Intelligent Positioning:** Real-time recording of flight position and automatic recall in emergencies. Ensures stable flight and precise hovering.
- **Intelligent Perception Obstacle Avoidance:** Equipped with a four-way perception system, the drone automatically avoids obstacles, enhancing flight safety.
- **Real-time Image Transmission:** View live footage from the drone's camera directly on your smartphone via the companion app.
- **Intelligent Follow:** The drone can automatically follow a designated subject, capturing dynamic footage.
- **Surrounding Flight:** Program the drone to circle a point of interest for cinematic shots.
- **Waypoint Flight:** Plan a custom flight path by setting waypoints on the map in the app, and the drone will follow it automatically.
- **One-Click Return:** Initiates an automatic return to the takeoff point. Features include low power return and out-of-control return for added safety.

Eight Reasons to Purchase

Flagship level experience



Brushless motor with strong power

More powerful output, supporting aerial photography for sea flights.



Gps satellite positioning

Effectively preventing collision damage and making it easier to handle.



Electrically adjustable camera

High definition imaging, supporting remote control of angles.



Convenient and compact body

Fold out space, grasp it with one hand, and bring freedom.

Figure 3.3: Key features of the drone, including its powerful brushless motor, precise GPS positioning, adjustable camera, and portable design.



360 ° intelligent obstacle avoidance

Indoor and outdoor stable hovering, beginners can quickly get started.



High capacity battery

Increase the battery size for strong energy efficiency and longer endurance.



Newcomers to optical flow positioning with instant control

Indoor and outdoor stable hovering, beginners can quickly get started.



Multi functional return flight

Increase the battery size for strong energy efficiency and longer endurance.

Figure 3.4: Additional intelligent features such as 360° obstacle avoidance, extended battery life, optical flow stability, and versatile return-to-home functions.

GPS positioning functional return flight

Always locate the flight position,
To provide escort for flight

- Out of control return 
- Low power return 
- Over distance return 
- One click return 



Figure 3.5: Visual representation of the GPS positioning and functional return flight features, ensuring drone safety and recovery.

4. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided screwdriver.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge to about 50% capacity.
- **Storage:** When not in use, fold the drone and store it in its carrying case to protect it from dust and physical damage.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low or uncharged battery	Charge the drone battery fully. Ensure it is correctly inserted.
Unable to connect to remote control	Remote control battery low; Pairing issue	Charge remote control. Re-pair the drone and remote according to the quick start guide.
Poor image quality/No FPV feed	Weak Wi-Fi signal; Camera lens dirty	Ensure drone is within Wi-Fi range. Clean the camera lens. Check app settings.
Drone drifts during flight	Uncalibrated gyroscope; Wind interference	Perform gyroscope calibration. Fly in calm conditions.
GPS signal lost	Flying indoors or near interference	Fly in open outdoor areas away from tall buildings or strong magnetic fields.

6. SPECIFICATIONS

Feature	Detail
Brand	ikaufen
Model Name	S181
Color	Black
Video Capture Resolution	4K
Connectivity Technology	Bluetooth, Wi-Fi
Skill Level	Beginner
Item Weight	540 Grams (1.19 pounds)
Battery Capacity	2000 Milliamp Hours
Product Dimensions (Folded)	12cm x 8cm x 7.5cm
Product Dimensions (Unfolded)	30cm x 27cm x 7.5cm (including propeller blades)
Remote Control Distance	Approximately 2000 meters (5G WiFi signal)
Flight Time	About 15-20 minutes

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ikaufen website or contact the seller directly through your purchase platform. Ensure you retain your proof of purchase for any warranty claims.

Seller: dgdazahui

For further assistance, please visit the ikaufen Store on Amazon.

