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## ikaufen S160

# ikaufen S160 Drone User Manual

Model: S160 with Built-in Screen Control

## 1. INTRODUCTION

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Thank you for purchasing the ikaufen S160 Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the device to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

### Safety Guidelines

- Always operate the drone in open areas, away from people, animals, and obstacles.
- Do not fly near airports, restricted airspace, or sensitive areas.
- Ensure the battery is fully charged before each flight.
- Avoid flying in strong winds or adverse weather conditions.
- Keep hands and face away from rotating propellers.
- Children should operate the drone under adult supervision.

## 2. PACKAGE CONTENTS

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Verify that all items are present in your package:

- ikaufen S160 Foldable Drone
- Remote Control with Built-in Screen
- Rechargeable Drone Batteries (x2)
- USB Charging Cable
- Spare Propellers
- Screwdriver
- User Manual

## 3. COMPONENTS OVERVIEW

Familiarize yourself with the drone and remote control components.



The ikaufen S160 drone with its foldable design and the included remote control featuring a built-in screen.

## Remote Control Layout

Detailed diagram of the ikaufen S160 drone remote control, indicating buttons for lamp control, headless mode, acceleration, photo/video, throttle, screen switch, takeoff/landing, obstacle avoidance, one-click calibration, 360° rolling, picture/video, direction bar, confirm/return, camera up/down, and power switch.

## Drone Features

# Screen remote control

Colorful and cool lights

- ▶ Obstacle avoidance
- ▶ Brushless power
- ▶ Optical flow hovers



The ikaufen S160 drone showcasing its screen remote control, obstacle avoidance capabilities, brushless power, optical flow hovers, and colorful LED lights.



90° remote control

120° wide-angle

Dual camera  
smart zoom

Clear picture quality

Close-up view of the ikaufen S160 drone's dual camera system, highlighting its 90-degree remote control lens and smart zoom feature for clear picture quality.

## 4. SETUP

### 4.1 Battery Installation and Charging

1. **Drone Battery:** Insert the fully charged 500 mAh Lithium Ion battery into the drone's battery compartment. Ensure it clicks securely into place.
2. **Charging:** Connect the drone battery to the USB charging cable and plug it into a 5V USB power source. The charging indicator will show the charging status. A full charge typically takes approximately 60-90 minutes.
3. **Remote Control Battery:** The remote control has a built-in rechargeable battery. Charge it using its dedicated USB port and cable.

### 4.2 Drone Preparation

1. **Unfold Arms:** Gently unfold the drone's arms until they lock into position.
2. **Propeller Check:** Ensure all propellers are securely attached and free from damage. Replace any

damaged propellers before flight.

### 4.3 Pairing the Drone and Remote Control

1. Place the drone on a flat, level surface.
2. Power on the drone. The indicator lights will flash.
3. Power on the remote control.
4. Push the left joystick (throttle) up to its maximum position, then pull it down to its minimum position. The drone's indicator lights will stop flashing and remain solid, indicating successful pairing.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the dedicated button on the remote control for automatic takeoff or landing.
- **Throttle (Left Joystick):** Push up to ascend, pull down to descend.
- **Direction (Right Joystick):** Push forward to fly forward, pull back to fly backward, push left to fly left, push right to fly right.
- **Yaw (Left Joystick Left/Right):** Push left to rotate left, push right to rotate right.
- **Speed Switching:** Use the speed button on the remote to cycle through different flight speeds (low, medium, high).
- **Headless Mode:** Activate headless mode to control the drone based on the remote control's orientation, regardless of the drone's front direction.

### 5.2 Advanced Features

# Easy to operate optical flow positioning

Whether indoors or outdoors,  
it can be used Always hover.



The ikaufen S160 drone demonstrating its optical flow positioning capability, allowing stable hovering indoors and outdoors.

- **Obstacle Avoidance:** The drone is equipped with a four-way perception obstacle avoidance system that automatically detects and avoids obstacles.
- **Optical Flow Positioning:** Utilizes a bottom camera to maintain a stable hover, enhancing flight stability indoors and outdoors.
- **Gesture Control:** Perform specific hand gestures to initiate photography or video recording. Refer to the remote control guide for specific gestures.
- **360° Stunt Rolling:** Press the dedicated button and move the right joystick in a desired direction to perform a 360-degree flip.
- **Trajectory Flight:** Use the mobile app to draw a flight path on your screen, and the drone will follow it automatically.
- **FPV (First Person View):** Connect your smartphone to the drone's Wi-Fi network to view real-time camera feed.

## 5.3 Camera Operation

- **Photo/Video Capture:** Use the dedicated buttons on the remote control to take photos or start/stop video recording.

- **Camera Angle Adjustment:** The 90° remote control lens allows for adjustment of the camera angle during flight.
- **Dual Camera Functionality:** Switch between the front and bottom cameras as needed for varied perspectives.



An infographic illustrating the key performance features of the ikaufen S160 drone, including obstacle avoidance, remote control with screen, ESC dual camera, brushless power, optical flow hovers, one-click takeoff and landing, phone control, multi-zoom, HD image transmission, gesture photo/video, trajectory flight, and 3D tumbling.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using liquids or solvents.
- **Propeller Replacement:** If a propeller is damaged, use the provided screwdriver to remove the old propeller and install a new one. Ensure the correct propeller (A or B) is installed in the corresponding position.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries.
- **Storage:** When not in use, fold the drone arms and store the drone and remote control in a safe, dry environment, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

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- **Drone does not respond:** Ensure both the drone and remote control are powered on and properly paired. Check battery levels.
- **Drone drifts during flight:** Perform a gyroscope calibration. Place the drone on a flat surface and follow the calibration instructions in the remote control guide.
- **Poor camera quality/no image:** Ensure the camera lens is clean. Check the Wi-Fi connection between the drone and your smartphone for FPV.
- **Short flight time:** Ensure batteries are fully charged. Battery performance may decrease over time; consider replacing old batteries.
- **Propellers not spinning:** Check for obstructions around the propellers. Ensure propellers are correctly installed and not damaged.

## 8. SPECIFICATIONS

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A table detailing the product parameters of the ikaufen S160 drone, including model, size (folding and expanded), color, flight performance, lens parameters, battery type, control mode, battery life, remote control distance, and functional features.

Parameter	Detail
Model	S160
Dimensions (Folded)	5.11"L x 2.95"W x 2.16"H (14x10x8 cm)
Dimensions (Expanded)	28x28x8 cm
Weight	407 Grams (14.4 ounces)
Color	Black
Flight Performance	Obstacle Avoidance, Brushless Motors, Optical Flow Positioning
Lens Parameters	EIS + Bottom Mounted Camera, 90° Remote Control Lens
Video Capture Resolution	1080p
Battery Type	Modular Lithium Ion (500 mAh)
Battery Life	Approximately 10-13 minutes
Control Mode	Controller Remote Control, Mobile Phone Remote Control
Remote Control Distance	Approximately 100 meters (2.4G signal)
Connectivity Technology	Wi-Fi
Skill Level	Beginner

## 9. WARRANTY AND SUPPORT

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### Warranty Information

Please refer to the product packaging or the retailer's website for specific warranty details. Typically,

manufacturing defects are covered for a limited period from the date of purchase.

## **Customer Support**

For technical assistance, troubleshooting, or inquiries regarding your ikaufen S160 Drone, please contact ikaufen customer support through the retailer's platform or the official ikaufen website. Provide your product model and purchase details for efficient service.