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> QAONIE KY102 Drone User Manual

QAONIE Ky102

QAONIE KY102 Drone User Manual

Model: KY102

1. INTRODUCTION

Thank you for purchasing the QAONIE KY102 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.



Image 1.1: The KY102 Drone, screen controller, and included accessories.

The KY102 Drone is equipped with a brushless motor for enhanced performance and durability, optical flow localization for stable hovering, and active obstacle avoidance for safer flights. It features a dedicated screen controller for intuitive operation and live video feedback.

2. WHAT'S IN THE BOX

Verify that all components are present upon unboxing:

- KY102 Drone
- Screen Controller
- 2 x Lithium Ion Batteries (for drone)
- Handbag
- Camera (pre-installed)

- SD Card
- Spare Propellers
- Charging Cable
- Screwdriver

3. SETUP GUIDE

3.1. Battery Charging and Installation

1. **Drone Battery:** Connect the drone battery to the provided charging cable. Plug the charging cable into a compatible USB power adapter (not included). The indicator light on the battery will show charging status. Charge until the light indicates a full charge.
2. **Controller Battery:** The screen controller has a built-in rechargeable battery. Connect the controller to a USB power source using its charging port. The charging indicator on the controller will illuminate during charging and turn off when fully charged.
3. **Drone Battery Installation:** Ensure the drone is powered off. Insert the fully charged battery into the battery compartment on the rear of the drone until it clicks securely into place.

3.2. Propeller Installation

If propellers are not pre-installed, attach them according to the markings (A and B) on the propellers and motor arms. Ensure they are securely fastened to prevent detachment during flight.

3.3. Controller and Drone Pairing

1. Place the drone on a flat, level surface.
2. Power on the drone by pressing and holding the power button until the indicator lights illuminate.
3. Power on the screen controller.
4. The drone and controller will automatically attempt to pair. Once paired, the drone's indicator lights will become solid, and the controller screen will display live video feed (if the camera is active).

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KY102



Image 3.1: The KY102 screen controller, designed for seamless control and live HD video playback.

4. OPERATING INSTRUCTIONS

4.1. Pre-Flight Checklist

- Ensure drone and controller batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify the flight area is clear of obstacles and people.
- Ensure GPS signal is acquired (if applicable) and optical flow sensors are clean.

4.2. Basic Flight Controls

1. **One-Key Takeoff:** After pairing, press the One-Key Takeoff button on the controller. The drone will automatically ascend to a stable hovering height.

2. **Ascend/Descend:** Use the left joystick (throttle) to control altitude. Push up to ascend, pull down to descend.
3. **Forward/Backward/Left/Right:** Use the right joystick to control horizontal movement.
4. **Rotation:** Use the left joystick (yaw) to rotate the drone left or right.
5. **One-Key Landing:** Press the One-Key Landing button. The drone will automatically descend and land gently.

4.3. Advanced Features

The KY102 Drone incorporates several advanced technologies for enhanced flight experience:

- **Optical Flow Localization:** The bottom optical flow positioning system enables the drone to hover stably at a high altitude without constant throttle input, making it easier for beginners to control.
- **Active Obstacle Avoidance:** The drone features 360-degree obstacle avoidance technology. It automatically detects and avoids potential hazards in its path, enhancing flight safety.
- **Waypoint Fly:** Utilize the waypoint fly feature through the controller interface to program a flight path for automated cruising.



Image 4.1: The KY102 Drone's 360-degree obstacle avoidance system helps prevent collisions during flight.

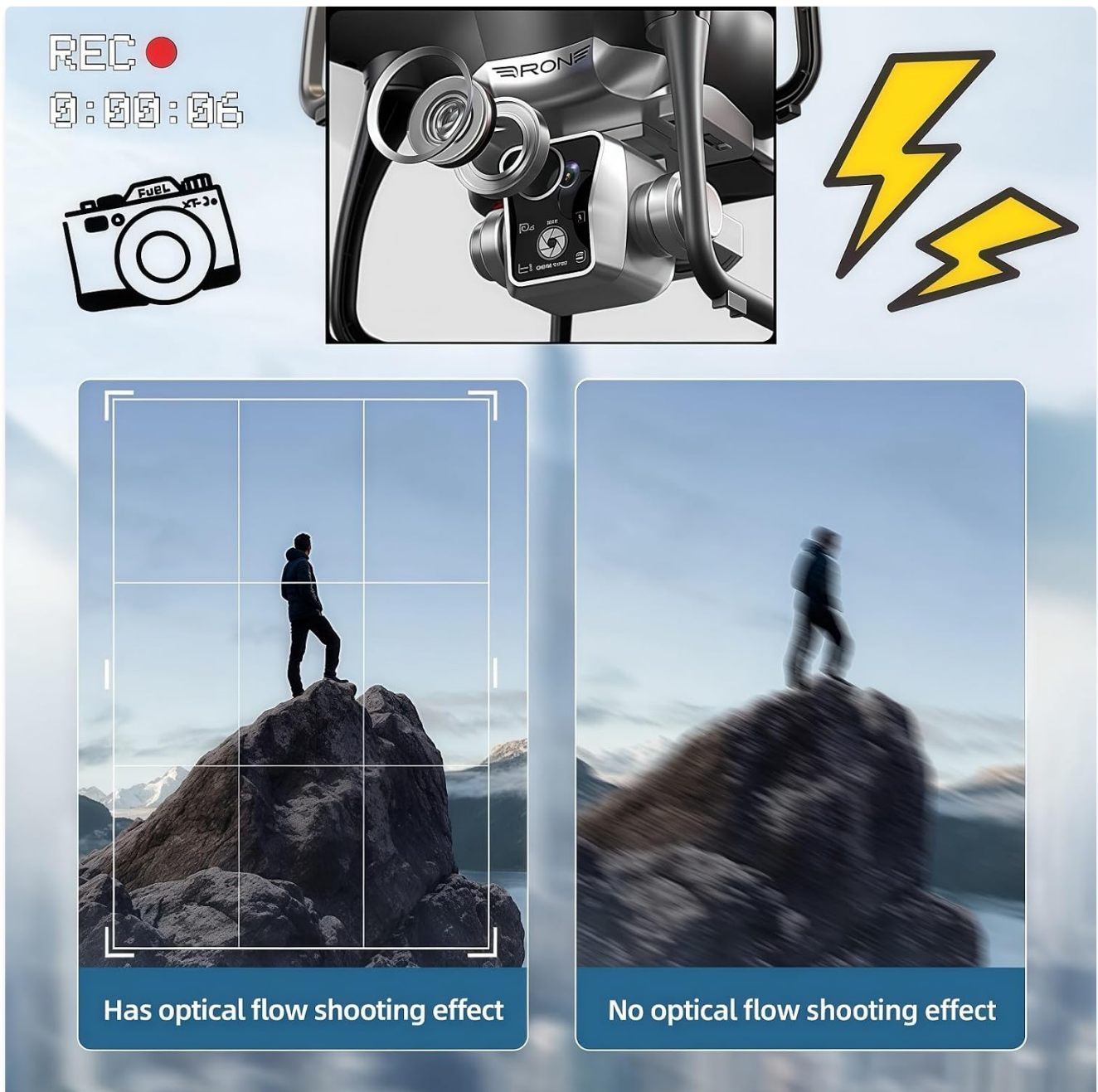


Image 4.2: Optical flow technology provides stable positioning for clearer imaging, as demonstrated by the comparison.

4.4. Camera Operation

The integrated 4K camera captures high-definition photos and videos. Use the dedicated buttons on the controller to initiate recording or take photos. The live feed will be displayed on the controller's screen.

5. MAINTENANCE

5.1. Cleaning

- Gently wipe the drone's body with a soft, dry cloth after each flight to remove dust and debris.
- Ensure optical sensors and camera lens are clean and free from smudges for optimal performance. Use a lens cleaning cloth if necessary.

5.2. Battery Care

- Do not overcharge or over-discharge 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% capacity.

5.3. Storage

When not in use, store the drone and its components in the provided handbag or a protective case to prevent damage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not installed correctly.	Charge the battery fully and ensure it is securely inserted.
Drone does not respond to controller.	Not paired or out of range.	Ensure drone and controller are powered on and within range. Re-pair if necessary.
Unstable flight/driftting.	Calibration issue or strong wind.	Perform gyroscope calibration on a flat surface. Avoid flying in strong winds.
Camera feed is black or distorted.	Connection issue or camera lens is dirty.	Check camera connection. Clean the camera lens.
Obstacle avoidance not working.	Sensors are dirty or obstructed.	Clean all obstacle avoidance sensors on the drone.

7. SPECIFICATIONS

Feature	Detail
Brand	QAONIE
Model Name	Ky102
Color	2 batteries - Black
Video Capture Resolution	4K
Connectivity Technology	Bluetooth, Wi-Fi
Item Weight	6.4 ounces
Video Capture Format	MP4
Control Type	Remote Control

Feature	Detail
Material	Plastic
Battery Cell Composition	Lithium Ion
Video Output Resolution	1920x1080 Pixels
Optical Sensor Technology	Optical Flow, CMOS
Product Dimensions	6.1"L x 2.4"W x 6.1"H
UPC	762949573211

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your product packaging or visit the official QAONIE website. Keep your purchase receipt as proof of purchase for any warranty claims.

For common issues, please consult the troubleshooting section of this manual. If the problem persists, contact customer support for further assistance.