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KINGULL K24

KINGULL K24 FPV Drone with 4K Camera User Manual

Brand: KINGULL | Model: K24

INTRODUCTION

Thank you for choosing the KINGULL K24 FPV Drone. This manual provides essential information for the safe operation, setup, and maintenance of your new drone. The K24 drone is designed for ease of use, featuring a 4K camera, an integrated remote controller screen, and optical flow positioning for stable flight. Please read this manual thoroughly before operating the drone to ensure optimal performance and safety.



Image: The KINGULL K24 FPV Drone with its remote controller, showcasing its compact design and integrated screen.

WHAT'S IN THE BOX

Your KINGULL K24 FPV Drone package includes the following items:

- Drone x1
- Remote Control x1
- Drone Batteries x2

- USB Charging Cables x2
- Spare Propellers x8
- Screwdriver x1
- Carrying Bag x1
- SD Card x1
- User Manual x1



Image: A visual representation of all items included in the KINGULL K24 Drone package, neatly arranged on a paddleboard.

SAFETY GUIDELINES

Always prioritize safety during drone operation. Adhere to the following guidelines:

- **Fly in Open Areas:** Operate the drone in clear, unobstructed environments, away from people, animals, and buildings.
- **Maintain Visual Line of Sight:** Always keep the drone within your visual line of sight.
- **Check Local Regulations:** Familiarize yourself with local drone flying laws and regulations.
- **Pre-Flight Check:** Ensure all components are correctly assembled, batteries are charged, and propellers are secure before each flight.
- **Weather Conditions:** Avoid flying in strong winds, rain, snow, or other adverse weather conditions.
- **Battery Safety:** Use only approved batteries and chargers. Do not overcharge or damage batteries.
- **Weight Compliance:** The K24 drone weighs under 249g, which typically means no FAA registration is required in many regions. However, always verify local requirements.

SETUP

1. Pre-Flight Preparations

1. **Charge Batteries:** Ensure both drone batteries and the remote controller are fully charged. The drone batteries provide 32 minutes of flight time each, and the remote controller is rechargeable.
2. **Unfold Drone Arms:** Carefully unfold the drone's arms one by one until they lock into position.
3. **Insert SD Card:** Insert the included SD card into the drone's designated slot to store 4K photos and videos.

2. Pairing & Calibration

Before your first flight, or after any impact, it is recommended to perform compass and gyroscope calibration for stable operation.

1. **Power On:** Press and hold the power button on the drone and slide the switch on the remote controller to the right to power them on. The drone lights will flash rapidly, and the remote will emit a beep.
2. **Compass Calibration:** Access the remote controller's menu, navigate to 'Control', and tap 'Calibrate' next to 'Compass'. Follow the on-screen prompts to rotate the drone horizontally until the remote beeps once, then rotate it vertically until it beeps again.
3. **Gyroscope Calibration:** In the same 'Control' menu, tap 'Calibrate' next to 'Gyroscope'. The remote will beep, and the drone lights will transition from rapid flashing to solid front lights and slow-blinking rear lights, indicating successful calibration.

Video: A detailed tutorial on preparing the drone for flight, including battery charging, unfolding, and calibration steps.



Image: The drone with its arms extended, highlighting the SD card slot and battery compartment.

OPERATING

1. Basic Flight Controls

The KINGULL K24 drone features intuitive controls for easy flying:

- **One-Button Takeoff/Landing:** Press the dedicated button on the remote controller for automatic takeoff or landing.
- **Ascend/Descend:** Use the left joystick to control the drone's altitude.
- **Forward/Backward/Side-to-Side:** Use the right joystick to move the drone in desired directions.
- **Turning:** Use the left joystick to rotate the drone left or right.

2. Flight Modes & Features

- **Optical Flow Positioning:** Built-in systems ensure steady hovering at desired heights, especially useful for beginners.
- **Headless Mode:** Simplifies controls by eliminating the need to adjust the drone's orientation relative to the pilot.
- **360° Flips:** Perform aerial stunts with a dedicated button.
- **Two Speed Modes:** Adjust flight speed for beginners or advanced users.
- **Auto Hovering:** The drone maintains a stable altitude automatically.
- **One-Button Auto Return:** The drone automatically returns to its takeoff point.
- **Low Battery Alert:** The remote controller provides alerts when the drone's battery is low.



Image: Visual explanation of beginner-friendly features like One-Button Unlock and Fly, Two Speeds, and Optical Flow Positioning.

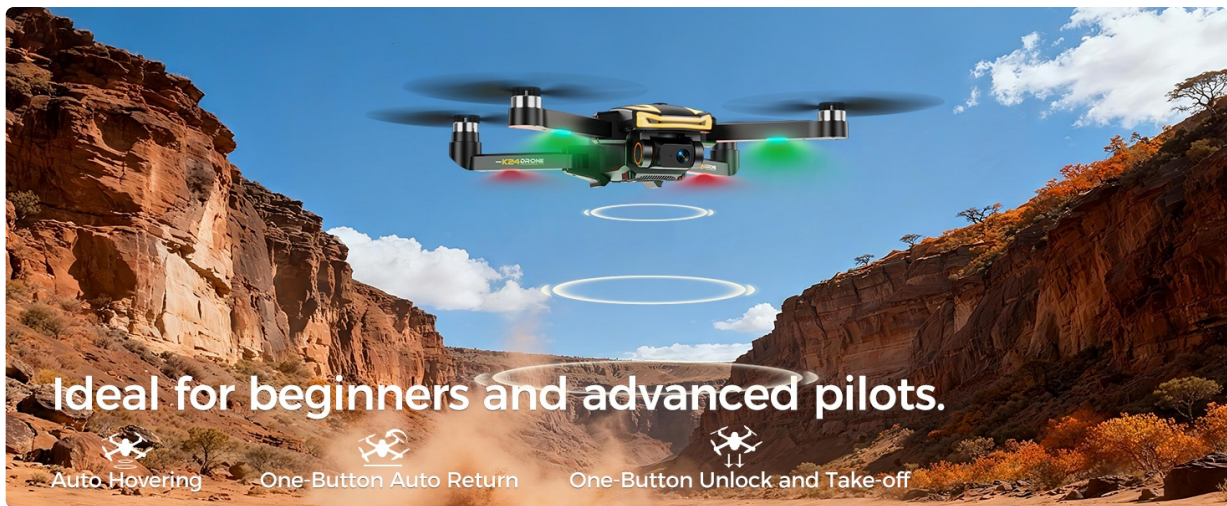


Image: A person flying the drone with the remote controller, emphasizing its beginner-friendly design and FPV screen.

3. Camera Operation

Capture stunning aerial photos and videos with the integrated 4K camera:

- **4K HD Camera:** The drone is equipped with a 4K camera for high-resolution photos and videos.
- **90° Adjustable Lens:** Adjust the camera angle up to 90 degrees directly from the remote controller to capture various perspectives.
- **Real-Time FPV Transmission:** Live video is transmitted directly to the 4.5-inch HD LCD screen on the remote controller for real-time viewing.
- **Photo/Video Capture:** Use the dedicated buttons on the remote controller to take photos or start/stop video recording.
- **Media Storage:** All captured media is saved directly to the included SD card.



Image: Close-up of the drone's 4K camera, highlighting its wide-angle capabilities.

Built-in Big Screen and FPV Real Time Transmission



Image: A person holding the remote controller, displaying the real-time FPV feed on its built-in screen.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your drone:

- **Cleaning:** Regularly clean the drone body and camera lens with a soft, dry cloth. Avoid using liquids that could damage electronic components.
- **Propeller Inspection:** Before each flight, inspect propellers for any cracks, bends, or damage. Replace damaged propellers immediately using the provided spare propellers and screwdriver.
- **Battery Care:** Store batteries in a cool, dry place. Do not expose them to extreme temperatures. Avoid fully discharging batteries for extended periods.
- **Storage:** When not in use, store the drone and all accessories in the provided carrying bag to protect them from dust and physical damage.

TROUBLESHOOTING

If you encounter issues, refer to these common solutions:

- **Drone Not Powering On:** Ensure the battery is fully charged and correctly inserted. Check the power

button for proper engagement.

- **Remote Controller Not Connecting:** Make sure both the drone and remote controller are powered on and within range. Repeat the pairing process if necessary.
- **Unstable Flight:** Perform gyroscope and compass calibration as described in the Setup section. Ensure you are flying in an open area free from strong winds or magnetic interference.
- **Poor Camera Quality:** Check if the camera lens is clean. Ensure the SD card is properly inserted and has sufficient storage space.
- **Short Flight Time:** Ensure batteries are fully charged before flight. Flight time can be affected by aggressive flying or strong winds.

SPECIFICATIONS

Feature	Detail
Brand	KINGULL
Model Name	K24
Special Features	Photo/Video, HD Screen Included, 360° Flips, Optical Flow Positioning Systems, Brushless Motors, Headless Mode
Video Capture Resolution	4K
Connectivity Technology	Wi-Fi
Skill Level	All
Item Weight	90 Grams (3.17 ounces)
Battery Capacity	1800 Milliamp Hours
Flight Time (per battery)	32 minutes
Product Dimensions	1.99"L x 2"W x 1"H
Material	Plastic

WARRANTY AND SUPPORT

Specific warranty and support details are not provided in the available product information. Please refer to the product packaging or contact the manufacturer directly for warranty claims and technical support.