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› [KAGEEN](#) /

› [KAGEEN 4K GPS Drone with Touchscreen Controller \(Model Q5\) Instruction Manual](#)

KAGEEN Q5

KAGEEN 4K GPS Drone with Touchscreen Controller (Model Q5)

Instruction Manual

1. INTRODUCTION

Thank you for choosing the KAGEEN 4K GPS Drone. This advanced quadcopter is designed for both beginners and experienced users, offering high-quality aerial photography and stable flight performance. Please read this manual thoroughly before operating the drone to ensure safe and optimal use.

2. WHAT'S IN THE BOX



Figure 2.1: Included Components

- Drone ×1
- Touchscreen Remote Controller ×1
- Battery ×2
- Propellers ×8 (2 Pairs)
- Charging Cable ×1
- Screwdriver Kit ×1

- Tool Bag ×1
- Instruction Manual ×1

3. PRODUCT OVERVIEW

3.1 Key Features

- **Under 249g:** No FAA registration required for recreational use, making it ideal for travel.
- **4K UHD Camera with Stabilization:** Captures smooth, detailed footage with a 3-axis mechanical gimbal and Electronic Image Stabilization (EIS), offering a 110° wide-angle view and $\pm 90^\circ$ vertical tilt.
- **2 KM Long-Range FPV Transmission:** Provides stable, real-time image transmission up to 2 kilometers for extended flight range.
- **5.5" Touchscreen Remote Controller:** Features a built-in display, eliminating the need for a smartphone. Includes intuitive controls for one-tap takeoff/landing, speed adjustment, and auto return.
- **46-Min Max Flight Time:** Two modular batteries provide up to 23 minutes of flight time each, allowing for extended sessions.
- **Dual-Mode Hover Stability:** Combines GPS positioning for accurate outdoor flight with optical flow sensors for reliable indoor or low-signal hovering.
- **Wind-Resistant Brushless Motors:** High-performance brushless motors support up to Level 4 wind resistance for stable flight in challenging conditions.

3.2 Visual Overview



Figure 3.1: Portable Design (Under 249g)



Figure 3.2: 4K Camera with 3-Axis Gimbal & EIS



Figure 3.3: 5.5" Touchscreen Remote Controller



Figure 3.4: Extended Flight Time with Dual Batteries



Figure 3.5: Smart GPS Return Features

4. SETUP

4.1 Unfolding the Drone

Carefully unfold the drone arms. Ensure all arms click into place securely before flight.

Exceptional Thrust

 **Brushless
Motors**

 **Level-4
WindResistance**



Figure 4.1: Unfolding the Drone

4.2 Battery Installation and Charging

Insert the fully charged battery into the drone's battery compartment. Connect the charging cable to the battery and a suitable USB power source to charge. The LED indicators on the battery will show the charging status.

Smart GPS Return



Figure 4.2: Battery Installation

4.3 Remote Controller Setup

Power on the remote controller. The 5.5" touchscreen will display the live feed from the drone's camera once connected. Ensure the controller is fully charged before use.

46-min Max Flight Time



TWO batteries

2X23 mins



One battery

23 mins



Figure 4.3: Remote Controller

4.4 Pre-Flight Calibration

Before each flight, perform a compass calibration. Follow the on-screen instructions on the remote controller. This typically involves rotating the drone horizontally and vertically to calibrate its sensors for accurate positioning.

5. OPERATING INSTRUCTIONS

5.1 Takeoff and Landing

- **Automatic Takeoff:** Press the one-tap takeoff button on the remote controller. The drone will ascend to a safe height and hover.
- **Automatic Landing:** Press the one-tap landing button. The drone will descend and land automatically.

5.2 Basic Flight Controls

Use the joysticks on the remote controller to control the drone's movement:

- **Left Joystick:** Controls altitude (up/down) and rotation (yaw left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.

5.3 Camera Operation

The integrated 4K UHD camera captures high-resolution photos and videos. Use the dedicated buttons on the remote controller to:

- **Capture Photo:** Press the photo button once.
- **Start/Stop Video Recording:** Press the video button once to start, and again to stop.
- **Adjust Gimbal Tilt:** Use the scroll wheel on the remote controller to adjust the camera's vertical tilt ($\pm 90^\circ$).

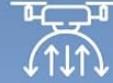
Ultra-Precise Flight Positioning



GPS
Positioning



Optical Flow
positioning



Barometric
Altitude Control



Figure 5.1: Drone Camera Detail

5.4 Intelligent Flight Modes

The KAGEEN drone features several intelligent flight modes for enhanced creativity and ease of use:

- **Follow Me:** The drone automatically follows the remote controller, capturing dynamic footage.
- **Orbit Mode:** The drone circles a designated point of interest.
- **Waypoint Flight:** Plan a flight path on the map, and the drone will automatically follow it.

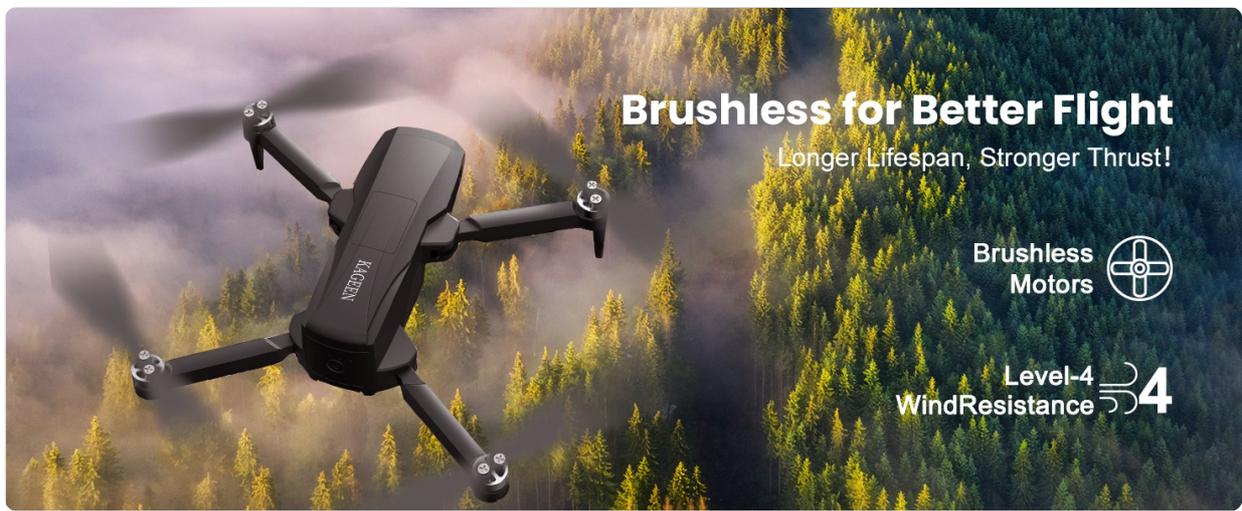


Figure 5.2: Intelligent Flight Modes

5.5 Auto Return Home (RTH)

The drone is equipped with GPS-assisted Auto Return Home. This feature automatically brings the drone back to its takeoff point under the following conditions:

- Low battery.
- Loss of signal from the remote controller.
- Manually activated by pressing the RTH button on the controller.



Figure 5.3: Auto Return Home

Your browser does not support the video tag. This video demonstrates the KAGEEN Drone with Camera for Adults 4K, showcasing its features and flight capabilities. It highlights the 3-axis gimbal stabilization, 4K ultra-clear imaging, 5.5" touchscreen controller, 2KM video transmission, GPS satellite support, and intelligent return-to-home function.

Video 5.1: KAGEEN Drone with Camera for Adults 4K - Product Overview

6. MAINTENANCE

6.1 Cleaning

Regularly clean the drone body, propellers, and camera lens with a soft, dry cloth. Avoid using liquid cleaners or solvents.

6.2 Battery Care

- Charge batteries fully before each flight.
- Do not overcharge or over-discharge batteries.
- Store batteries in a cool, dry place away from direct sunlight.

6.3 Propeller Replacement

If propellers are damaged, replace them immediately using the provided spare propellers and screwdriver. Ensure correct propeller orientation (A and B types) as indicated in the manual or on the drone arms.

6.4 Storage

When not in use, fold the drone and store it in its protective carrying case. Remove batteries from the drone and controller for long-term storage.

7. TROUBLESHOOTING

- **Drone not powering on:** Ensure batteries are fully charged and correctly inserted.
- **No GPS signal:** Fly in an open outdoor area away from tall buildings or interference. Perform GPS calibration.
- **Unstable flight:** Recalibrate the compass and gyroscope. Check for damaged propellers.
- **Blurry or distorted camera feed:** Ensure the camera lens is clean. Check for any physical damage to the gimbal.
- **Remote controller screen issues:** Ensure the controller is fully charged. If issues persist, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	KAGEEN
Model Name	KAGEEN 4K Drone (Q5)
Item Weight	249 Grams (8.8 ounces)
Video Capture Resolution	4K
Camera Stabilization	3-Axis Mechanical Gimbal & EIS
FPV Transmission Range	Up to 2 KM (6500 ft)
Remote Controller	5.5" Touchscreen Display
Max Flight Time	46 Minutes (with 2 batteries)

Motors	Brushless Motors
Positioning System	GPS & Optical Flow
Wind Resistance	Level 4
Skill Level	Beginner
Product Dimensions	9"L x 9"W x 2"H

9. WARRANTY & SUPPORT

For warranty information and technical support, please refer to the warranty card included in your product packaging or visit the official KAGEEN website. Keep your purchase receipt as proof of purchase for warranty claims.