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BLINORY HK55

BLINORY HK55 GPS Drone User Manual

Model: HK55

1. INTRODUCTION

Thank you for choosing the BLINORY HK55 GPS Drone. This drone is designed for both beginners and experienced pilots, offering a range of intelligent flight features and a high-quality 2K HD camera for capturing stunning aerial footage. Please read this manual thoroughly before operating the drone to ensure safe and proper use.

2. SAFETY GUIDELINES

Always prioritize safety during drone operation. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Pre-Flight Check:** Ensure the drone and remote control batteries are fully charged. Inspect propellers for damage.
- **Flight Environment:** Fly in open areas, away from people, animals, buildings, and obstacles. Avoid flying near airports, power lines, or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or fog. Optimal conditions are calm and clear.
- **Maintain Visual Line of Sight:** Always keep the drone within your visual line of sight.
- **Respect Privacy:** Be mindful of privacy when recording videos or taking photos.
- **Battery Safety:** Use only original BLINORY batteries and chargers. Do not overcharge or puncture batteries.
- **Age Recommendation:** This drone is suitable for users aged 14 and above.

3. WHAT'S IN THE BOX

Verify that all components are present upon unboxing:

- Foldable GPS Drone (HK55) x 1
- Remote Control x 1
- Battery x 2
- User Manual x 1

- Carrying Case x 1
- Spare Blade x 8
- USB Type-C Cable x 2
- Screws & Screwdriver x 1 set



Image: The BLINORY HK55 GPS Drone, remote control, two batteries, two USB-C cables, spare propellers, a screwdriver, and a carrying case.

4. PRODUCT OVERVIEW

4.1 Drone Components

The BLINORY HK55 drone features a foldable design for portability and is equipped with a 2K HD camera and brushless motors for stable flight.

- **Foldable Arms:** For compact storage and transport.
- **2K HD Camera:** 90° electrically adjustable with anti-shake lens.

- **Brushless Motors:** Provide stable flight, faster speeds, lower noise, and longer lifespan.
- **LED Lights:** Indicate drone status and orientation.
- **Battery Compartment:** Located at the rear of the drone.
- **Optical Flow Sensor:** Assists with stable hovering, especially indoors.



Image: Detailed view of the drone's 2K HD camera, highlighting its 90-degree adjustable lens and anti-shake features.



Better Fly Performance

Brushless Motor provides more stability to resist the wind.

-  Longer life
-  Lower noise
-  Stronger power



Image: Illustration of the drone's brushless motor, emphasizing its benefits for stability, speed, and durability.

4.2 Remote Control

The remote control provides intuitive operation and features a phone holder for FPV viewing.

- **Control Sticks:** Left stick for throttle/yaw, right stick for forward/backward/left/right.
- **One-Key Takeoff/Landing Button:** Simplifies flight initiation and termination.
- **GPS Return Button:** Initiates automatic return to home.
- **Speed Switch Button:** Toggles between low and high-speed modes.
- **Phone Holder:** Securely holds your smartphone for real-time FPV feed.

5. SETUP

5.1 Charging the Batteries

The drone comes with two modular batteries, providing up to 32 minutes of flight time (16 minutes per battery).

1. Insert the drone battery into the charging cable.
2. Connect the USB Type-C cable to a 5V/2A USB adapter (not included).
3. The battery indicator lights will show charging status. Fully charged when all lights are solid.
4. Charge the remote control using its dedicated USB cable.

FLY LONGER, CAPTURE MORE

32 MINS

LONG FLIGHT TIME
16 x 2 = 32mins

Image: The drone and its two modular batteries, illustrating the extended flight time capability.

5.2 Unfolding the Drone

Gently unfold the drone arms until they click into place. Ensure all arms are fully extended before flight.

5.3 Propeller Installation (if needed)

If propellers are not pre-installed or need replacement, match the propeller type (A or B) to the corresponding motor arm as indicated on the drone.

5.4 App Installation and Connection

Download the "HK55 DRONE GO" app from your smartphone's app store. Connect your phone to the drone's Wi-Fi network (usually named "HK55-XXXXXX").

Your browser does not support the video tag.

Video: A demonstration of the BLINORY HK55 GPS Drone's features, including its 2K camera, suitable for adults and kids. This video highlights the drone's ease of use and visual capabilities.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Calibration

Before each flight, perform a compass calibration to ensure accurate GPS positioning.

1. Place the drone on a flat, level surface.
2. Turn on the drone, then the remote control.
3. Follow the on-screen instructions in the app for compass calibration (usually involves rotating the drone horizontally and vertically).

6.2 Takeoff and Landing

The HK55 drone offers simplified takeoff and landing options.

- **One-Key Takeoff:** Press the One-Key Takeoff/Landing button on the remote or in the app. The drone will automatically ascend to a safe hovering altitude.
- **Manual Takeoff:** Push both control sticks down and outwards to start the motors. Slowly push the left stick up to ascend.
- **One-Key Landing:** Press the One-Key Takeoff/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left stick down to descend.



Image: A user operating the drone, with visual cues for 2-speed switching, one-key takeoff, and headless mode, highlighting its beginner-friendly design.

6.3 Basic Flight Controls

Familiarize yourself with the control sticks:

- **Left Stick (Throttle/Yaw):** Up/Down for altitude, Left/Right for rotation (yaw).
- **Right Stick (Direction):** Up/Down for forward/backward, Left/Right for sideward flight.

6.4 Stable Hovering (GPS & Optical Flow)

The HK55 utilizes both GPS and Optical Flow systems for stable hovering, ensuring precise positioning both indoors and outdoors.

STABLE HOVER

Optical flow and GPS system, the drone can maintain stable hovering both indoors and outdoors.



Image: The drone maintaining a stable hover, with icons representing GPS and Optical Flow technology.

7. ADVANCED FLIGHT FEATURES

7.1 GPS Auto Return (RTH)

The drone features precise GPS positioning and will return smartly when it loses signal, is out of range, or has low power. This ensures a safer and more reliable flying experience.

- **One-Key Return:** Press the GPS Return button on the remote control.
- **Smart Return:** Automatic return initiated by low battery or signal loss.



Smart GPS Return to Home

You will not lose the drone



Image: A visual representation of the drone's Smart GPS Return to Home function, triggered by low battery, signal loss, or one-key command.

7.2 Follow Me Mode

In Follow Me mode, the drone will automatically follow your movement, capturing dynamic footage of your activities.

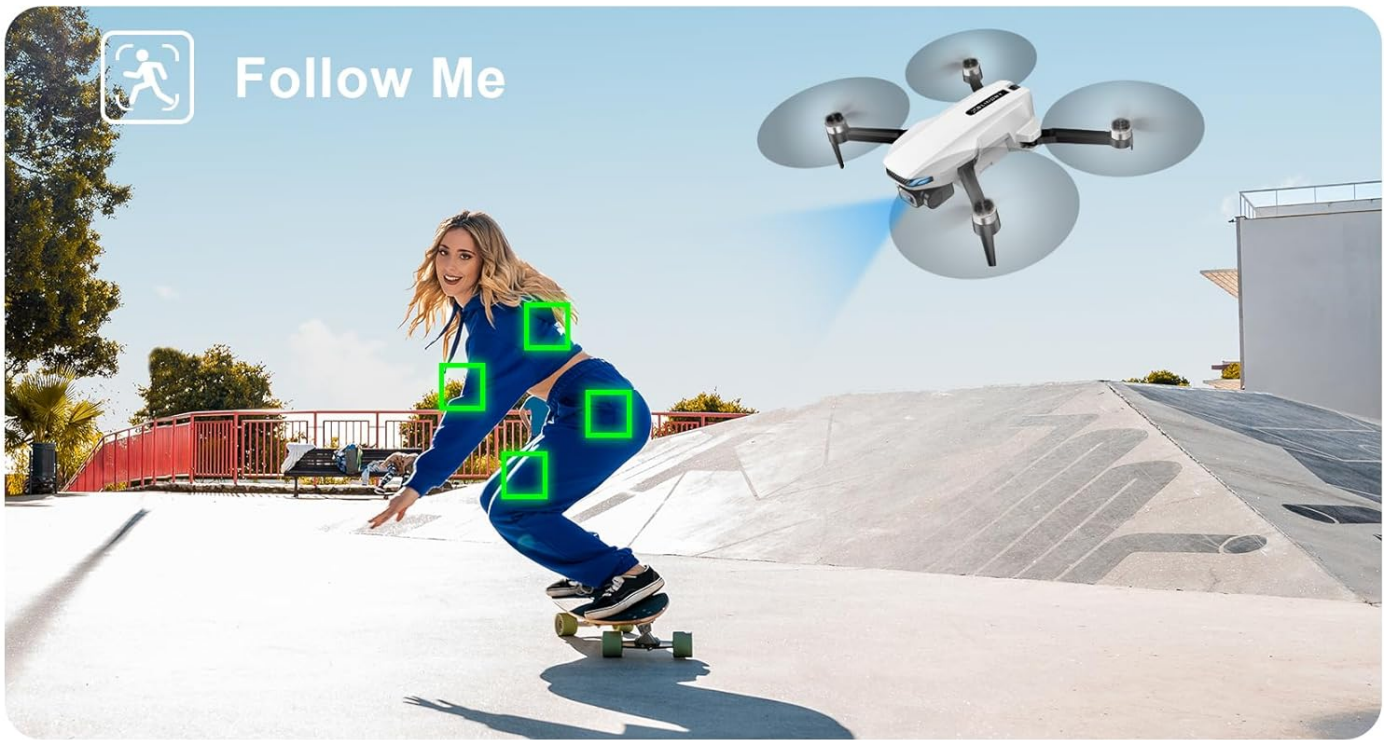


Image: The drone actively following a person, showcasing the Follow Me feature, alongside illustrations for Circle Fly and Waypoint Fly modes.

7.3 Waypoint Flight

Draw a route on the app screen, set points on the map, and the drone will automatically follow and fly along the pointed waypoints.

7.4 Circle Fly (Point of Interest)

The drone will circle around a designated point of interest, providing cinematic shots.

7.5 Gesture Selfie

Use specific hand gestures to command the drone to take photos or record videos.

8. CAMERA OPERATION

The 2K HD camera provides clear and stable video and photo capture. The camera angle can be adjusted electrically via the remote control or app.

- **Photo Mode:** Tap the camera icon in the app to take a photo.
- **Video Mode:** Tap the video icon to start/stop recording.
- **Media Storage:** Photos and videos are saved to your phone via the app or to an inserted SD card (not included).

9. MAINTENANCE

Regular maintenance ensures the longevity and performance of your drone.

- **Propeller Inspection:** Check propellers for cracks, bends, or chips before each flight. Replace damaged propellers immediately using the provided spare blades.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using liquids or solvents.
- **Storage:** Store the drone in its carrying case in a cool, dry place away from direct sunlight. Remove batteries if storing for extended periods.
- **Battery Care:** Do not fully discharge batteries. Charge them to about 50-60% for long-term storage.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery.	Re-pair drone and remote; charge batteries.
Unstable flight/drifts.	Improper calibration; damaged propellers; strong wind.	Perform calibration; replace propellers; fly in calm conditions.
No FPV feed in app.	Wi-Fi not connected; app error.	Ensure phone is connected to drone's Wi-Fi; restart app/drone.
GPS signal weak/lost.	Flying indoors; interference; cloudy weather.	Fly outdoors in clear conditions; avoid areas with strong interference.

11. SPECIFICATIONS

Feature	Detail
Brand	BLINORY
Model Name	HK55
Color	White
Item Weight	0.32 Pounds (approx. 5.1 ounces)
Product Dimensions	11.81"L x 7.87"W x 2.17"H
Video Capture Resolution	2K
Connectivity Technology	Wi-Fi (5G Transmission)
Control Type	Remote Control, App Control
Motor Type	Brushless Motor
Flight Time	Up to 32 minutes (with 2 batteries)
Special Features	GPS Drone, 2K Camera, Auto Return, Follow Me, Circle Fly, Waypoint Fly, Optical Flow, Foldable, FPV

12. WARRANTY AND SUPPORT

BLINORY is committed to providing high-quality products and customer satisfaction. For any issues or inquiries regarding your HK55 GPS Drone, please contact BLINORY customer support.

- **Technical Support:** Assistance with setup, operation, and advanced features.
- **User Guide:** Further detailed guides and tutorial videos may be available online.
- **After-sale Service:** For warranty claims or product defects.

Please refer to the official BLINORY website or your purchase platform for specific warranty terms and contact information.

