

DEERC D65

DEERC D65 Drone User Manual

Model: D65

1. INTRODUCTION

Welcome to the world of aerial photography and exploration with your new DEERC D65 drone. This manual provides essential information for setting up, operating, and maintaining your drone to ensure a safe and enjoyable flight experience. The D65 features advanced GPS positioning, a 2-axis mechanical gimbal with EIS for stable 4K video, and intelligent flight modes designed for both beginners and experienced pilots.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- DEERC D65 GPS 4K EIS Drone with 2 Axis Gimbal
- DEERC D65 Drone Transmitter
- DEERC D65 Drone Extra Propellers (set)
- DEERC D65 4K Drone Intelligent Battery
- DEERC D65 Drone Type-C Charging Cable
- DEERC D65 Drone Manual
- DEERC Screwdriver
- DEERC D65 GPS 4K Drone with Camera Carrying Case



Image: Complete DEERC D65 drone package contents including the drone, remote, and carrying case.

3. PRODUCT FEATURES

The DEERC D65 drone is equipped with several advanced features for an enhanced flying and photography experience:

- **2-Axis Mechanical Stabilized Gimbal:** Ensures smooth and stable drone footage, capturing professional-quality videos and photos even in challenging conditions.
- **4K EIS Camera:** Features a 4K UHD camera with Electronic Image Stabilization (EIS) for sharp, blur-free images and videos.
- **Ultra-Lightweight Design:** Weighs under 249g, making it easy to carry and generally not requiring FAA registration for recreational use.
- **GPS-Enabled Smart Drone:** Offers precise positioning and intelligent flight modes such as Follow Me, Waypoint Flight, and Orbit Mode for hands-free footage capture.
- **Powerful Brushless Motors:** Provides quiet, powerful, and stable flight, resisting up to Level 4 wind.
- **Smart Return Home Function:** Automatically returns to its takeoff point when the battery is low or signal is lost, preventing drone loss.
- **Easy-to-Fly Controls:** Designed for ease of use with one-key takeoff/landing, altitude hold, and intuitive controls suitable for all skill levels.

- **Optical Flow Positioning:** Enhances stable hovering for more accurate and controlled flights, especially in GPS-limited areas.

2-Axis mechanical stabilization gimbal

Stable and clear high-definition large images come out instantly.



2-Axis gimbal & EIS



Standard



Image: The 2-axis mechanical gimbal ensures stable and clear high-definition images.

4K Electronic Image Stabilization Ultra HD Camera



4K/30fps



100° FOV



70° Rudder Adjustment



2.5k Recording

Image: Close-up of the 4K EIS camera, highlighting its ultra HD capabilities.

Under 249g, Ultra Lightweight

No Remote ID or FAA Registration Required



<249g

Image: The D65 drone's ultra-lightweight design, weighing less than 249 grams.

4. SETUP GUIDE

4.1 Charging Batteries

Before first use, fully charge the drone's intelligent battery and the remote controller. Use the provided Type-C charging cable. The battery indicator lights will show charging status.

Fly longer Capture more



26 mins
long flight time

Image: The intelligent battery provides up to 26 minutes of flight time.

4.2 Propeller Installation

Ensure propellers are correctly installed according to the markings (A and B) on the propellers and motor arms. Incorrect installation will prevent proper flight. Use the provided screwdriver for secure attachment.

4.3 App Download and Connection

Download the official DEERC drone app from your device's app store. Power on the drone and your mobile device's Wi-Fi, then connect to the drone's Wi-Fi network. Open the app to establish connection and view the live feed.

4.4 Calibration

Perform compass and gyroscope calibration before each flight, especially when flying in a new location. Follow the instructions in the app or the quick start guide for precise calibration steps. This ensures stable flight and accurate GPS positioning.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the dedicated button on the remote or in the app for automatic takeoff and landing.
- **Altitude Hold:** The drone will maintain its current altitude automatically, allowing you to focus on direction.
- **Directional Control:** Use the joysticks on the remote to control the drone's forward/backward, left/right, and rotation movements.

5.2 GPS Functions and Intelligent Flight Modes

The D65 utilizes GPS for enhanced stability and intelligent flight capabilities:

- **GPS Positioning:** Provides accurate outdoor positioning and stable hovering.
- **Follow Me:** The drone will automatically follow the remote controller or your mobile device, capturing dynamic footage.
- **Waypoint Flight:** Draw a path on the app map, and the drone will fly along the designated route.
- **Orbit Mode:** The drone will circle around a designated point of interest, keeping it in the frame.
- **Smart Return Home (RTH):** The drone will automatically return to its takeoff point under conditions such as low battery, signal loss, or manual activation.

GPS Intelligent Return

Never lose your drone



Image: The GPS Intelligent Return function ensures the drone returns safely to its starting point.

Explore the sky with a cinematic photography experience—With a single touch



Image: Explore cinematic photography with various intelligent flight modes.

Optical flow sensors & GPS positioning

More stable hovering, Enjoy a more precise and comfortable flying experience



Image: Optical flow sensors and GPS positioning provide stable and precise hovering.

5.3 Camera Operation

- **Photo/Video Capture:** Use the dedicated buttons on the remote or in the app to take photos or start/stop video recording.
- **Gimbal Control:** Adjust the camera's tilt angle via the remote controller for optimal framing.
- **Gesture Photo/Video:** Perform specific hand gestures to trigger photo or video capture (refer to app instructions for details).
- **Time-Lapse Photography:** Utilize the time-lapse feature for creative video sequences.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your DEERC D65 drone:

- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided spares.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended

periods, charge to about 50-60%.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or liquids.
- **Motor Inspection:** Ensure motors are free from dust and debris. Do not attempt to lubricate them.

7. TROUBLESHOOTING

If you encounter issues with your DEERC D65 drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not take off.	Low battery; Propellers incorrectly installed; Not calibrated.	Charge batteries; Reinstall propellers correctly; Perform calibration.
Unstable flight/Drifting.	Poor calibration; Strong wind; Damaged propeller.	Recalibrate gyroscope and compass; Fly in calm conditions; Replace damaged propellers.
No GPS signal.	Flying indoors or near obstructions; Insufficient satellites.	Fly in an open outdoor area; Wait for more satellites to connect (indicated by solid green lights).
Camera image blurry/shaky.	Gimbal obstruction; EIS not active; Lens dirty.	Check for obstructions around gimbal; Ensure EIS is enabled in app; Clean lens gently.
Remote controller not connecting.	Low remote battery; Pairing issue.	Charge remote; Re-pair remote and drone according to manual instructions.

For more detailed troubleshooting or persistent issues, please refer to the comprehensive manual included in your package or contact DEERC customer support.

8. SPECIFICATIONS

Key technical specifications for the DEERC D65 drone:

Feature	Detail
Brand	DEERC
Model Name	D65
Item Weight	8.6 Ounces (approx. 243.8g)
Product Dimensions	11.6"L x 8.1"W x 2"H
Video Capture Resolution	4K
Video Capture Format	MP4

Feature	Detail
Connectivity Technology	Wi-Fi
Battery Capacity	1820 Milliamp Hours (Lithium Polymer)
Control Type	Remote Control
Skill Level	All
Special Features	Under 249g (No FAA registration needed), 2-Axis Mechanical Gimbal, EIS, GPS, Brushless Motors, Smart Return Home, Follow Me

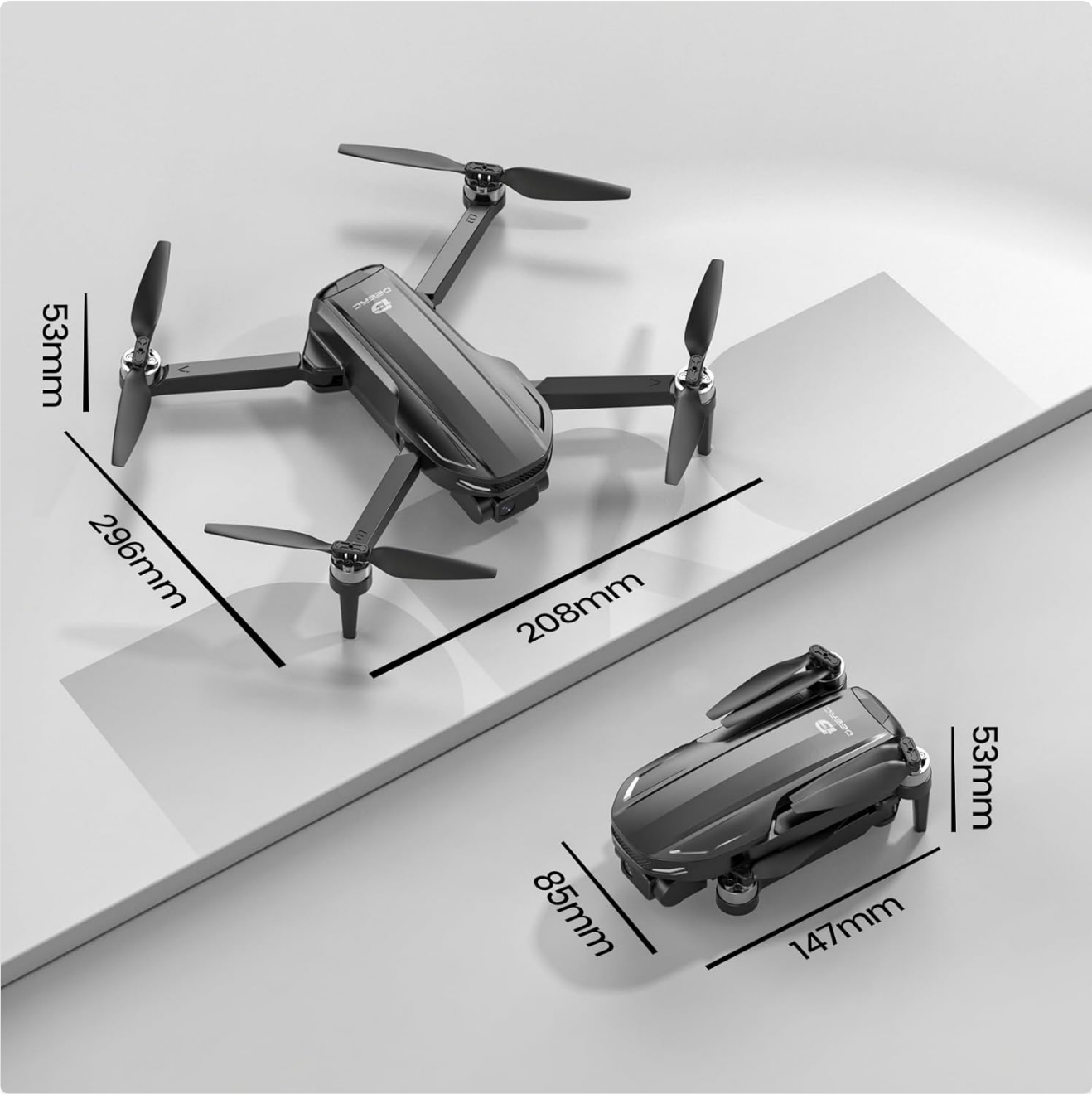


Image: Dimensions of the DEERC D65 drone in both folded and unfolded configurations.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the warranty card included in your product package or visit the official DEERC website. If you have any questions or require assistance, do not hesitate to contact DEERC customer service.