

## DEERC D50

# DEERC D50 Drone User Manual

Comprehensive guide for setup, operation, and maintenance of your DEERC D50 Drone.

## 1. INTRODUCTION

The DEERC D50 Drone is a user-friendly RC quadcopter designed for both beginners and advanced users. It features a 2K Ultra HD camera for FPV live video, 120° wide-angle view, altitude hold, headless mode, gesture selfie, and waypoints functions. This manual provides essential information to ensure safe and optimal operation of your drone.

## 2. WHAT'S IN THE BOX

- DEERC D50 Drone
- Remote Control
- 2 x Lithium Polymer Batteries
- USB Charger
- Carrying Case
- User Manual
- Replacement Propellers (Full Set)
- Propeller Guards (Full Set)
- Screwdriver
- Additional Landing Gear
- Phone Holder



Figure 2.1: DEERC D50 Drone and included accessories.

### 3. PRODUCT FEATURES

- **User-Friendly Design:** Includes a backpack for storage and 2 batteries for up to 24 minutes of flight time.
- **2K Clear Footage:** Built-in 2K Ultra HD Camera (2048 x 1152P) with 120-degree wide-angle view and adjustable angle for high-definition footage and live FPV videos.
- **Easy to Use:** Features auto-hovering and one-key operation for simplified take-off, landing, and speed changes. Three speed modes cater to all skill levels.
- **Fun Flight Modes:** Capable of 360° flips, rolls, and circles. Waypoints function allows defining custom flight routes via the smartphone application.
- **Smart Features:** Supports voice commands (e.g., “take-off”, “landing”) and gesture control for photos and videos.

### 4. SETUP

## 4.1 Battery Installation and Charging

Ensure both drone batteries and the remote control batteries are fully charged before use. The drone batteries are inserted into the drone's main body. To remove a drone battery, press down the small latch button located at the back of the battery compartment and slide the battery out.



Figure 4.1: Drone battery installation.

## 4.2 Remote Control Setup

The remote control requires batteries (not included). Insert them into the compartment on the back. The remote features a small LCD screen that displays telemetry information such as battery level and signal strength. Attach the phone holder to the top of the remote control by sliding it into the designated slot. This holder is spring-loaded and can be adjusted for angle.



# EXTREMELY USER-FRIENDLY



Figure 4.2: Remote control with phone holder.

## 4.3 Propeller Guards and Landing Gear

For added protection, especially during initial flights or indoor use, install the propeller guards. The drone also comes with additional landing gear that can be attached to the bottom of the arms for increased ground clearance, though it can be flown without them if sufficient clearance is available.



## POINT OF INTEREST

Automatically circle around a defined subject



Figure 4.3: Drone underside with landing gear attachment points.

### 4.4 App Installation

Download the official DEERC drone application on your smartphone for FPV live video, advanced flight modes like Waypoints, and smart features such as voice and gesture control. Refer to the user manual for specific app name and download instructions.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Flight Controls

The D50 drone is equipped with auto-hovering for stable flight. Use the one-key take-off and landing button for simplified operation. Adjust flight speed using the three available speed modes to match your skill level and environment.





Figure 5.1: User-friendly flight features.

## 5.2 Advanced Flight Modes

- **360° Flips and Rolls:** Engage these functions for impressive aerial acrobatics.
- **Waypoints:** Use the smartphone app to draw a custom flight path on the map, and the drone will automatically follow it.
- **Voice Control:** Control the drone with simple voice commands like “take-off” or “landing.”
- **Gesture Control:** Perform specific hand gestures in front of the camera to trigger photo or video capture.
- **Headless Mode:** Simplifies flight by eliminating the need to adjust the drone's orientation relative to the pilot.



## WAYPOINTS FLY

Let the drone automatically flies the route for you



Figure 5.2: Waypoints flight path example.

### 5.3 FPV Live Video

Connect your smartphone to the drone via Wi-Fi to access the First Person View (FPV) live video feed. This allows you to see what the drone's camera sees in real-time, enhancing your flying experience and aiding in capturing precise footage.





Figure 5.3: 2K FPV Live Video capability.

## 5.4 Flight Environment Considerations

The DEERC D50 drone is lightweight and can be sensitive to windy conditions. For optimal performance and control, especially for beginners, it is recommended to fly in calm weather. Always maintain line-of-sight with the drone, as FPV feedback might have slight delays.

## 6. MAINTENANCE

### 6.1 Battery Care

Always use the provided USB charger for drone batteries. Do not overcharge or completely drain batteries. Store batteries in a cool, dry place when not in use. If purchasing additional batteries, ensure they are compatible with the DEERC D50 drone.

### 6.2 Propeller and Motor Inspection

Regularly inspect propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided spare set and screwdriver. Check motors for any debris or unusual noises. If a motor rattles or sounds abnormal, it may indicate damage or obstruction. Refer to the troubleshooting section or contact support.



### 6.3 Cleaning

Gently wipe the drone's body and camera lens with a soft, dry cloth after each flight to remove dust and debris. Avoid using harsh chemicals or excessive moisture.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or improperly installed.	Ensure batteries are fully charged and correctly inserted. Check the drone's power switch.
Drone unstable or drifts during flight.	Calibration issue, propeller damage, or windy conditions.	Perform drone calibration as per the main user manual. Inspect and replace any damaged propellers. Fly in calm conditions.
Motor rattling or not spinning correctly.	Debris in motor, damaged motor, or propeller not seated properly.	Carefully check for and remove any debris. Ensure propellers are securely attached. If the issue persists, contact DEERC customer support.
No FPV live video on smartphone.	Incorrect Wi-Fi connection, app issue, or drone not powered on.	Ensure your phone is connected to the drone's Wi-Fi network. Restart the app and the drone. Check app permissions.
Remote control not connecting to drone.	Remote control batteries low or pairing issue.	Replace remote control batteries. Follow the pairing procedure outlined in the main user manual.

For more detailed troubleshooting steps, please refer to the comprehensive user manual provided with your product or visit the [DEERC Store](#).

## 8. SPECIFICATIONS

Feature	Detail
Brand	DEERC
Model Name	D50
Camera Resolution	2K Ultra HD (2048 x 1152P)
Camera Angle	120° Wide Angle, Adjustable
Flight Time	Up to 24 minutes (with 2 batteries)
Control Type	Remote Control, Voice Control, Gesture Control
Connectivity	Wi-Fi (for FPV)

Feature	Detail
Special Features	360 Degree Flip, Gyroscopic Stabilization, Speed Adjustment, Auto-Landing, Altitude Hold, Headless Mode, Waypoints Functions
Skill Level	Novice, Expert
Item Weight	178 Grams (6.3 ounces)
Product Dimensions	13.3"L x 9.5"W x 2.3"H
Recommended Age	14 years and up

## 9. OFFICIAL PRODUCT VIDEOS

Your browser does not support the video tag.


Video 9.1: DEERC D50 Drone with 2K Camera - An overview of the drone's features and components, including the carrying case, drone body, landing gear, and remote control. Highlights the ease of setup and key functionalities.

## 10. WARRANTY AND SUPPORT

For any product-related inquiries, technical support, or warranty information, please refer to the official DEERC user manual included in your package. You can also visit the official [DEERC Store on Amazon](#) for additional resources and customer service contact details. DEERC is known for responsive customer service, as noted by many users. A safety information PDF is also available for download: [Safety Information \(PDF\)](#).

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### Related Documents - D50

 <p>DEERC Instructions For Use 日本語マニュアル Gebrauchsanweisungen 14+</p> <p>D70</p> <p>us@deerc.com (USA) eu@deerc.com (EU) +1(855)777-6866</p>	<p><a href="#">DEERC D70 Drone: Instructions for Use and Safety Guidelines</a></p> <p>Comprehensive guide to operating the DEERC D70 drone, covering setup, flight controls, safety precautions, and maintenance. Learn how to fly, capture photos and videos, and utilize advanced features like Headless Mode and 360° flips.</p>
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