DEERC D20S

DEERC D20S Drone with Camera 1080P Instruction Manual

Model: D20S

1. INTRODUCTION

This manual provides essential information for the safe operation and maintenance of your DEERC D20S Drone. Please read this manual thoroughly before operating the aircraft to ensure proper function and to avoid damage or injury. Keep this manual for future reference.

2. PRODUCT OVERVIEW

2.1 Package Contents

The DEERC D20S package includes the following components:

- DEERC D20S Drone (with integrated 1080p HD FPV Camera)
- Remote Control
- 2 x Lithium Polymer Batteries
- Spare Propellers (set)
- USB Charging Cable
- Screwdriver
- Instruction Manual

Image: DEERC D20S Drone, remote control, batteries, propellers, and charging cable.

2.2 Key Features

- **1080P HD FPV Camera:** Adjustable camera for real-time video transmission.
- **Foldable Design:** Compact and portable for easy transport.
- **Brushless Motor:** Provides powerful and stable flight with improved wind resistance.
- **Altitude Hold:** Maintains a stable altitude for easy control.
- **Optical Flow Positioning:** Enhances stability for both indoor and outdoor flight.
- **3D Flips:** Perform aerial stunts with ease.
- **Headless Mode:** Simplifies flight orientation, especially for beginners.
- **One-Key Takeoff/Landing:** Simplifies starting and ending flights.
- **Emergency Stop:** Immediate shutdown for safety.
- **3 Speed Modes:** Adjustable flight speed for different skill levels.
- **Gesture Control:** Use hand gestures to take photos or videos.
- **Long Flight Time:** Two batteries provide up to 30 minutes of flight.

3. SETUP

3.1 Battery Installation and Charging

Ensure batteries are fully charged before first use. The drone comes with 2 Lithium Polymer batteries.

1. Insert the fully charged battery into the drone's battery compartment until it clicks into place.

2. To charge the battery, connect the USB charging cable to the battery and a suitable USB power source (e.g., computer, USB wall adapter).

3. The charging indicator will show the charging status. Ensure the battery is fully charged before use.

Image: Illustration of drone battery being charged via USB cable. The image highlights low power alarm and overcharge protection features.

3.2 Propeller Installation

The drone comes with pre-installed propellers. If replacement is needed, use the provided screwdriver to carefully remove and install new propellers, ensuring correct orientation (A/B labels).

3.3 Remote Control Setup

Insert 3 AAA batteries (not included) into the remote control. Extend the phone holder to mount your smartphone for FPV viewing and app control.

Image: A person holding the remote control with a smartphone mounted, showing the FPV view.

3.4 App Connection

Download the DEERC FPV app from your smartphone's app store. Connect your smartphone to the drone's Wi-Fi network (usually named "DEERC-D20S-XXXX"). Once connected, open the app to view the live camera feed and access additional flight controls.

4. OPERATING INSTRUCTIONS

4.1 Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.
- Unfold the drone arms completely.
- Place the drone on a flat, level surface.
- Connect your smartphone to the drone's Wi-Fi and open the app.

4.2 Takeoff and Landing

1. **Power On:** Press and hold the power button on the drone until the indicator lights turn on.
2. **Pairing:** Turn on the remote control. Push both joysticks down and outwards simultaneously to pair the remote with the drone. The drone's lights will stop flashing and become solid when paired.
3. **One-Key Takeoff:** Press the One-Key Takeoff button on the remote control (or in the app). The drone will

automatically lift off and hover at a stable altitude.

4. **Manual Takeoff:** Alternatively, after pairing, push both joysticks down and inwards to arm the motors. Then, push the left joystick up to manually take off.

5. **One-Key Landing:** Press the One-Key Landing button on the remote control (or in the app). The drone will automatically descend and land.

Image: A person operating the drone with the remote control, showing the drone hovering after takeoff.

Your browser does not support the video tag.

Video: A short demonstration of the DEERC D20S drone's basic flight functions, including takeoff, hovering, and landing.

4.3 Basic Flight Controls

- **Left Joystick (Throttle/Yaw):**

  - Push up/down: Increase/decrease altitude.
  - Push left/right: Rotate drone left/right (yaw).

- **Right Joystick (Pitch/Roll):**

  - Push up/down: Move drone forward/backward (pitch).
  - Push left/right: Move drone left/right (roll).

4.4 Advanced Features

- **Altitude Hold:** The drone automatically maintains its current altitude, allowing for easier control of direction.
- **Headless Mode:** Activates a mode where the drone's orientation is relative to the pilot, simplifying control regardless of the drone's actual front direction.
- **3D Flips:** Press the 3D Flip button on the remote, then push the right joystick in any direction to perform a flip.
- **Circle Fly:** The drone will fly in a circular path around a central point.
- **Gesture Control:** Use specific hand gestures in front of the camera to trigger photo or video recording. Refer to the app for specific gestures.
- **Speed Modes:** Toggle between 3 speed settings (low, medium, high) to adjust the drone's responsiveness and speed.

Image: Visual representation of the drone performing 3D flips, high speed rotation, and circle fly functions.

Image: Drone hovering stably due to optical flow positioning, and a close-up of the brushless motor.

4.5 Camera Operation

The DEERC D20S is equipped with a 1080p HD FPV camera. You can control the camera and view the live feed via the app.

- **Adjust Camera Angle:** Use the dedicated buttons on the remote control to adjust the camera's vertical angle (up/down) during flight.
- **Photo/Video:** Use the app interface or dedicated buttons on the remote control to capture photos (2 MP effective still resolution, JPEG format) or record videos (1080p resolution, MP4 format).

Image: Details of the 1080P HD FPV camera, including 90° remote adjustable FOV and comparison of 1080p vs 720p video quality.

5. MAINTENANCE

- **Cleaning:** Regularly clean the drone body and propellers with a soft, dry cloth. Avoid using water or solvents.
- **Propeller Replacement:** Inspect propellers for damage before each flight. Replace any bent or broken propellers using the provided screwdriver and spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries. Disconnect batteries from the drone when not in use.

6. TROUBLESHOOTING

If the drone fails to take off or exhibits unstable flight, ensure the following:

- All propellers are correctly installed and undamaged.
- Batteries (drone and remote) are fully charged.
- The drone is placed on a flat, level surface before pairing and takeoff.
- The remote control is properly paired with the drone.
- Perform a calibration if flight is unstable (refer to manual for calibration steps).

7. SPECIFICATIONS

Feature	Detail
Brand	DEERC
Model Name	D20S
Video Capture Resolution	1080p
Effective Still Resolution	2 MP
Connectivity Technology	Wi-Fi
Item Weight	101 Grams (3.56 ounces)
Video Capture Format	MP4
Control Type	Remote Control
Battery Cell Composition	Lithium Polymer (2 included)
Optical Sensor Technology	Optical Flow
Product Dimensions	9.45 x 7.09 x 1.97 inches

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the contact information provided in the product packaging or visit the official DEERC website.

DEERC offers protection plans for extended coverage. Please check the product listing or DEERC's official channels for details on available 2-Year and 3-Year Protection Plans, as well as Complete Protect options.

Related Documents - D20S

	[DEERC D10 Drone: Instructions for Use and Operation Guide](#) A comprehensive guide for the DEERC D10 drone, covering setup, operation, safety guidelines, functions, specifications, and contact information. Learn how to fly your DEERC D10 drone safely and effectively with this user-friendly manual.
	[DEERC D70 Drone: Instructions for Use and Safety Guidelines](#) 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.

	[DEERC D50 Drone: Instructions for Use, Safety Guidelines, and Specifications](#) Comprehensive guide for the DEERC D50 drone, covering setup, operation, safety precautions, maintenance, and technical specifications. Includes information on battery care, flight modes, and troubleshooting.
	[DEERC D70 Drone: User Manual and Flight Guide](#) Comprehensive guide to operating the DEERC D70 drone, covering setup, flight controls, functions, safety guidelines, and specifications.
	[DEERC D20 Drone: Instructions for Use and Safety Guide](#) Comprehensive instructions, safety guidelines, and specifications for the DEERC D20 drone. Learn how to operate, install, and maintain your drone.
	[DEERC D20S Drone User Manual and Operation Guide](#) Comprehensive user manual for the DEERC D20S drone, covering product profile, operation guide, drone functions, specifications, troubleshooting, and compliance information. Learn how to safely operate and maintain your DEERC D20S drone.