

DEERC D20

DEERC D20 Mini Drone User Manual

Model: D20

1. INTRODUCTION

Thank you for choosing the DEERC D20 Mini Drone. This compact and versatile drone is designed for users aged 14 and up, offering an engaging flight experience with its 720P HD FPV camera, intuitive controls, and various intelligent flight modes. Please read this manual thoroughly before operating the drone to ensure safe and optimal performance.

2. WHAT'S IN THE BOX

- Customer version quadcopter (1)
- Remote controller (1)
- Fuselage battery (2)
- USB charging cable (1)
- Spare propeller (1 set)
- Protective cover (1 set)
- Screwdriver (1)
- Instruction manual (1)

3. PRODUCT OVERVIEW

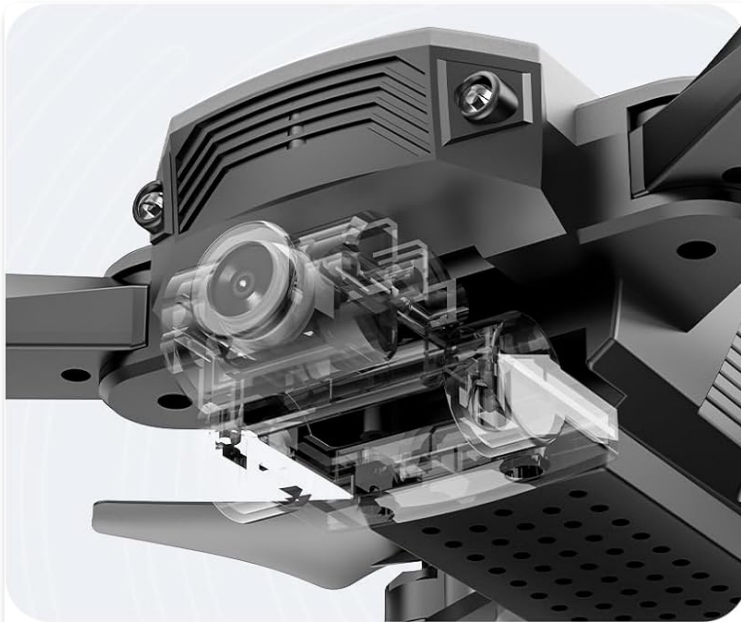
The DEERC D20 Mini Drone is engineered for ease of use and durability, making it suitable for beginners while offering advanced features for experienced pilots. Its foldable design ensures portability, and the included 720P HD camera allows for capturing aerial photos and videos.



Figure 1: DEERC D20 Mini Drone, remote controller, and two batteries.

3.1. Key Features

- **HD Pictures and Live Videos:** Equipped with a 720P HD Wi-Fi camera for aerial photos and videos, with FPV transmission via smartphone app.
- **Easy Control:** One Key Start/Landing button, Altitude Hold for stable hovering, Headless Mode for simplified orientation.
- **Powerful and Safe:** Features low power alarm, Emergency stop, and 4 propeller guards for safe flight. Includes 2 rechargeable batteries for up to 20 minutes of flight time.
- **3D Flips and Waypoints Fly:** Perform impressive 3D flips and draw custom flight paths on your smartphone for automated flight.
- **Voice Control and Gesture Selfie:** Control the drone with voice commands (e.g., "Take off," "Landing") and capture photos/videos with hand gestures.



720P
Camera HD



FPV
Transmission



Figure 2: D20's 720P HD FPV Camera for real-time viewing.

The drone's camera provides a first-person view (FPV) directly to your smartphone, enhancing the immersive flight experience.



Figure 3: Voice Control and Waypoints Fly features for advanced operation.

Utilize voice commands for basic operations and draw flight paths on your phone for automated flight routes.



Figure 4: Features like Altitude Hold, 3D Flips, and Headless Mode make the drone easier to control.

Altitude Hold maintains the drone's height, simplifying control, while 3D Flips add excitement to your flights.

Compact and Portable



Figure 5: The drone's compact and portable design allows for easy transport.

Its lightweight and foldable design ensures you can take it anywhere.

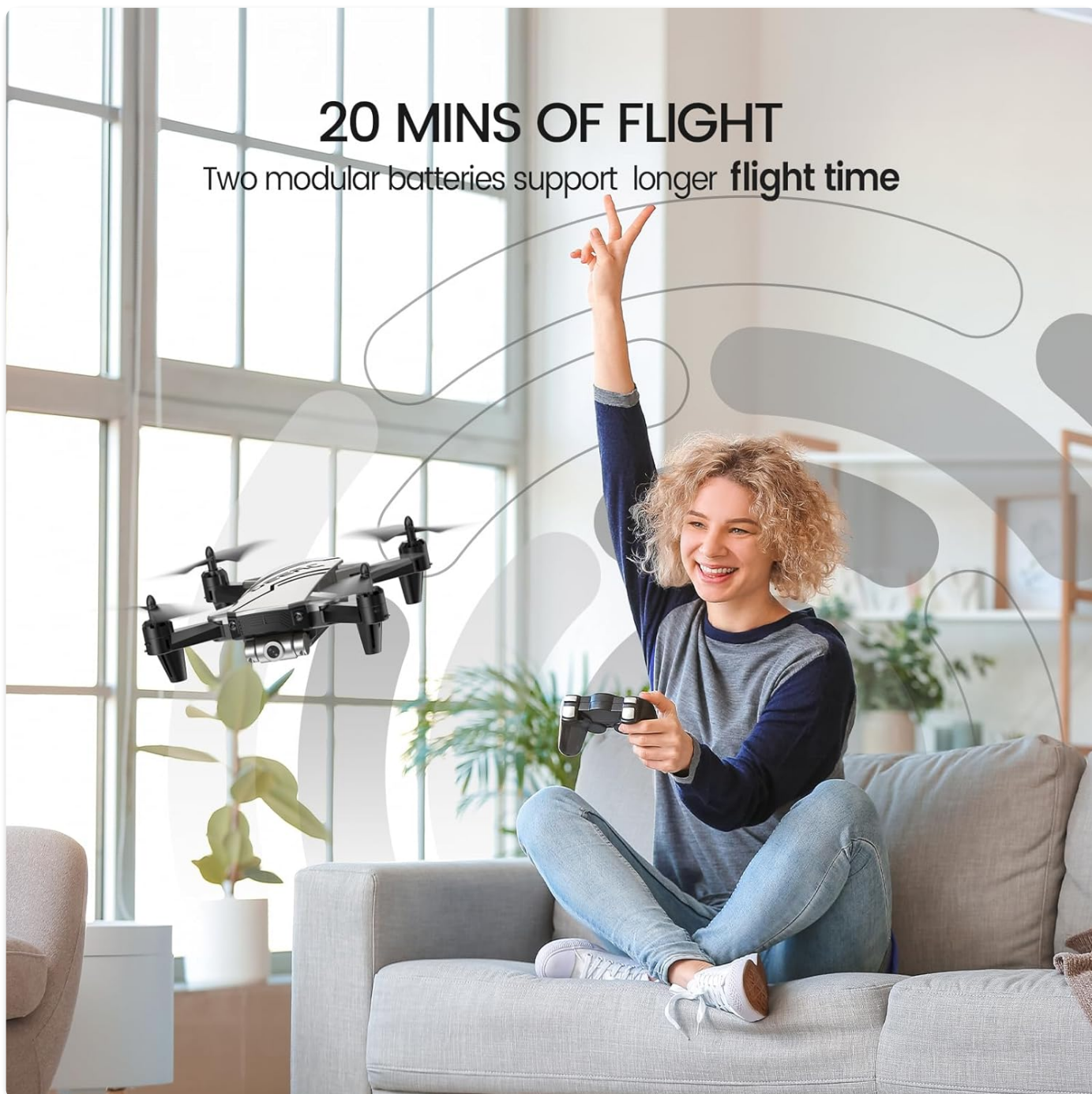


Figure 6: Enjoy extended flight sessions with two included batteries, providing up to 20 minutes of flight time.

The modular batteries are easy to swap, extending your flying fun.

4. SETUP

4.1. Charging the Batteries

Before first use, fully charge both drone batteries. Connect the USB charging cable to a USB power adapter (not included) and then to the drone battery. The charging indicator will show the charging status. A full charge takes approximately 60-80 minutes per battery.

4.2. Installing Batteries and Propeller Guards

1. Insert a charged battery into the drone's battery compartment until it clicks into place.
2. Attach the propeller guards to each arm of the drone for added protection, especially for beginners.
3. Insert 3 AAA batteries (not included) into the remote controller.

4.3. Pairing the Drone and Controller

1. Place the drone on a flat, level surface.
2. Turn on the drone. The indicator lights will flash.
3. Turn on the remote controller.
4. Push the left joystick up and then pull it down. The drone lights will become solid, indicating successful pairing.

5. OPERATING INSTRUCTIONS

5.1. Basic Flight Controls

- **One Key Start/Landing:** Press the dedicated button on the controller to automatically take off or land.
- **Altitude Hold:** The drone will automatically maintain its current altitude when the throttle stick is released.
- **Speed Adjustment:** Use the speed button on the controller to cycle through low, medium, and high-speed modes.
- **Headless Mode:** Press the Headless Mode button. The drone will orient itself relative to the pilot, regardless of its actual front direction.
- **3D Flips:** While flying, press the 3D Flip button and then move the right joystick in any direction to perform a flip.

5.2. Advanced Features (via Smartphone App)

Download the official DEERC FPV app from your device's app store. Connect your smartphone to the drone's Wi-Fi network (usually named "DEERC-D20-XXXX").

- **FPV View:** See real-time video feed from the drone's camera on your smartphone.
- **Voice Control:** Use simple voice commands like "Take off" or "Landing" to control the drone.
- **Gesture Selfie:** Make a "V" sign or show your palm to the camera to trigger photo or video recording automatically.
- **Waypoints Fly:** Draw a desired flight path on your smartphone screen, and the drone will follow it automatically.

6. MAINTENANCE

- Regularly inspect propellers for damage. Replace any bent or broken propellers using the included spare parts and screwdriver.
- Keep the drone and controller clean. Wipe with a soft, dry cloth.
- Store the drone and batteries in a cool, dry place away from direct sunlight when not in use.
- Do not overcharge batteries. Disconnect once fully charged.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to controller.	Not paired; low battery.	Re-pair drone and controller; charge batteries.
Drone drifts during flight.	Needs calibration; windy conditions.	Calibrate the drone on a flat surface; fly in calm conditions.

Problem	Possible Cause	Solution
Poor camera feed/lag.	Weak Wi-Fi signal; interference.	Ensure close proximity to drone; avoid areas with strong Wi-Fi interference.
Short flight time.	Battery not fully charged; old battery.	Fully charge batteries; consider replacing old batteries.

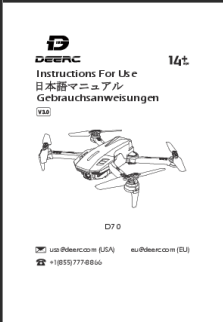

8. SPECIFICATIONS

- **Brand:** DEERC
- **Model Name:** D20
- **Color:** Silver
- **Item Weight:** 69 Grams (2.43 ounces)
- **Product Dimensions:** 7.72"L x 6.38"W x 1.69"H
- **Video Capture Resolution:** 720p
- **Effective Still Resolution:** 0.92 MP
- **Connectivity Technology:** Wi-Fi
- **Battery Capacity:** 0.51 Watt Hours (2 Lithium Polymer batteries included)
- **Skill Level:** Beginner
- **Recommended Age:** 14 years and up

9. WARRANTY & SUPPORT

For warranty information and customer support, please refer to the official DEERC website or contact their customer service directly. You can also find additional resources and a downloadable PDF user manual [here](#).

Related Documents - D20

	<p>DEERC D70 Drone: Instructions for Use and Safety Guidelines</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>
	<p>DEERC D20 Drone: Instructions for Use and Safety Guide</p> <p>Comprehensive instructions, safety guidelines, and specifications for the DEERC D20 drone. Learn how to operate, install, and maintain your drone.</p>

