DEERC d20

DEERC D20 Mini Drone User Manual

Model: D20

INTRODUCTION

Thank you for purchasing the DEERC D20 Mini Drone. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your drone. Please read it thoroughly before first use and retain it for future reference.

SAFETY INFORMATION

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

- Operate the drone in open areas, away from people, animals, and obstacles.
- Maintain a safe distance from the drone during flight.
- Do not operate in strong winds or adverse weather conditions.
- Ensure batteries are fully charged and properly installed before each flight.
- Keep fingers and hair away from rotating propellers.
- Supervise children during operation.
- Do not modify the drone or its components.
- In case of emergency, use the Emergency Stop function.

WHAT'S IN THE BOX

Verify that all components are present upon unboxing:

- Customer version quadcopter x 1
- Remote controller x 1
- Fuselage battery x 2
- USB charging cable x 1
- Spare propeller x 1 set
- Protective cover x 1 set
- Screwdriver x 1

- Instruction manual x 1

Image: DEERC D20 Mini Drone, remote controller, and two batteries, illustrating the main components included in the package.

PRODUCT OVERVIEW

The DEERC D20 Mini Drone is designed for ease of use and durability, making it suitable for beginners and experienced pilots alike. It features a compact, foldable design for portability and is equipped with a 720P HD FPV camera for capturing aerial photos and videos.

Key Features:

- **720P HD FPV Camera:** Equipped with a 720P HD camera and FOV 80° wide angle lens, allowing for extraordinary moment capture and live video transmission via the app.
- **Smart & Advanced Functions:** Includes Voice Control, Gestures Selfie, and Waypoints Fly for an enhanced user experience.
- **Fancy & Amazing Stunts:** Perform impressive 360° flips with a single button press.
- **Beginner-Friendly Controls:** Features Headless Mode, One Key Start/Landing, and Altitude Hold for stable and

easy flight.

- **Extended Flight Time:** Two modular batteries provide up to 20 minutes of flight time.
- **Delicate & Safe Design:** Compact and portable, with Emergency Stop and Low Power Alarm functions, and propeller guards for protection.
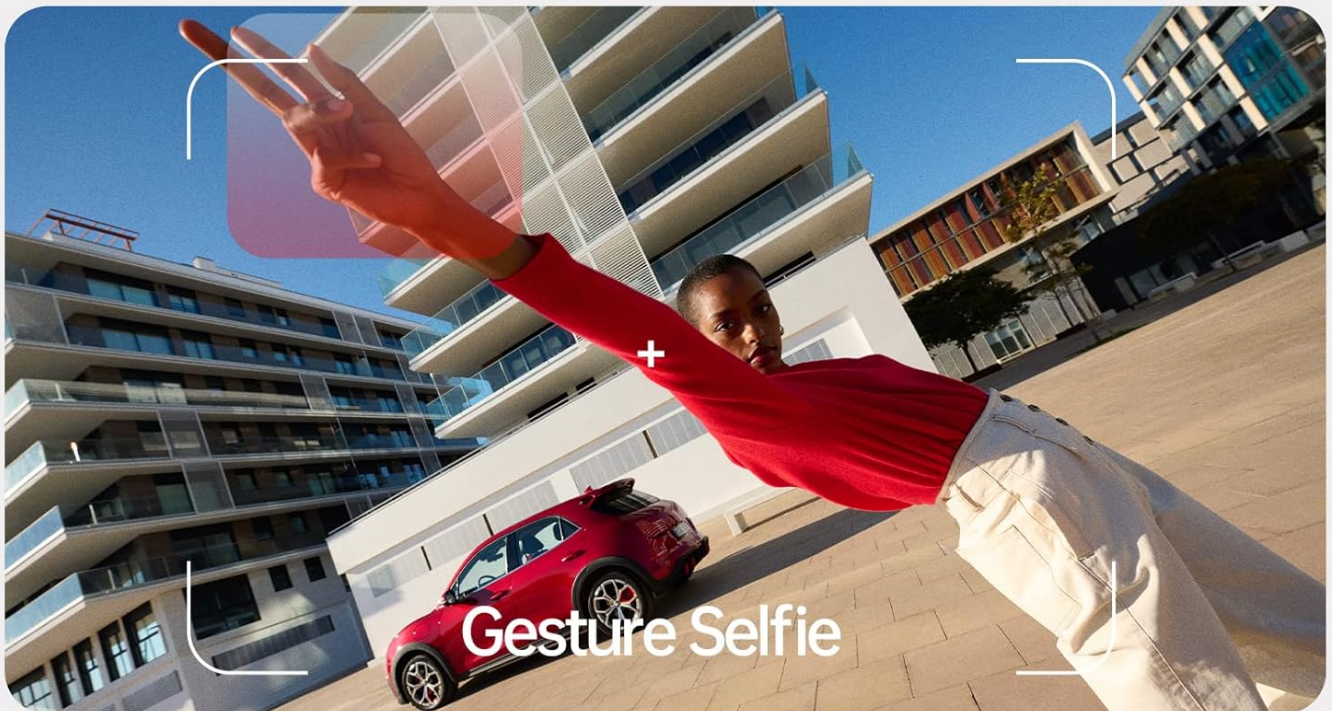

720P HD
FPV CAMERA

FPV
Transmission

Gesture Selfie

Image: Detail of the DEERC D20 drone's 720P HD FPV camera and FPV transmission capability.

Image: The DEERC D20 drone's compact and portable design, shown being placed into a small bag.

SETUP

1. Charging the Batteries

The drone comes with two modular batteries. Ensure both are fully charged before first use.

1. Connect the USB charging cable to the battery.
2. Plug the USB end into a USB power adapter (5V/1A recommended) or a computer USB port.
3. The indicator light on the charging cable will show charging status (refer to manual for specific light indications).
4. Charging typically takes approximately 60-80 minutes per battery.

2. Installing Batteries

Drone Battery Installation:

1. Ensure the drone is powered off.
2. Insert a fully charged modular battery into the battery compartment on the rear of the drone until it clicks into place.

Remote Controller Battery Installation:

1. Open the battery cover on the back of the remote controller.
2. Insert 3 x AAA batteries (not included) according to the polarity markings.
3. Close the battery cover securely.

3. Propeller Installation/Replacement

The drone comes with pre-installed propellers. If replacement is needed:

1. Identify the correct propeller type (A or B) by the marking on the propeller.
2. Match the propeller type to the corresponding motor arm (A to A, B to B).
3. Gently push the propeller onto the motor shaft until it is secure.
4. Ensure propeller guards are securely attached to protect the propellers and for safer flight.

OPERATING INSTRUCTIONS

1. Pairing the Drone and Remote

1. Place the drone on a flat, level surface.
2. Power on the drone. The indicator lights will flash.
3. Power on the remote controller.
4. Push the left joystick (throttle) up to the maximum position, then pull it down to the minimum position. The drone lights will become solid, indicating successful pairing.

2. Calibration

After pairing, calibrate the drone for stable flight:

- Push both joysticks down and to the right simultaneously.
- The drone lights will flash rapidly and then become solid, indicating successful calibration.

3. Basic Flight Controls

- **One Key Start/Landing:** Press the One Key Start/Landing button to automatically take off or land.
- **Altitude Hold:** The drone will hover at a certain height when you release the throttle stick, providing stable flight.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flying.

Headless Mode

Under this mode, you can play the drone without worring about what direction it is facing
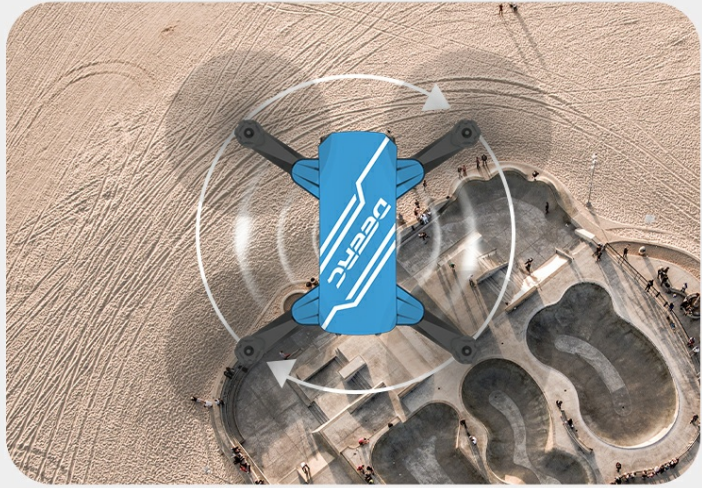
Image: Demonstration of the One Key Start/Land feature, showing the drone taking off from a designated spot.
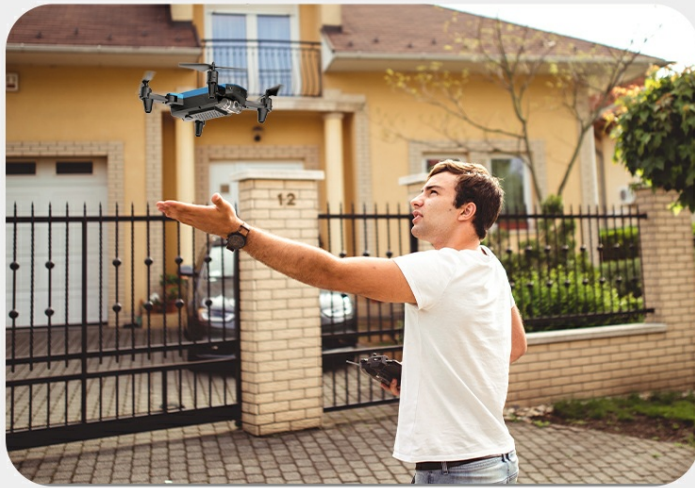
Play Safe

Equipped with Emergency Stop, D20 will automatically stop spinning when it hitting wall or objects

Image: The Altitude Hold feature, showing the drone maintaining a stable height.
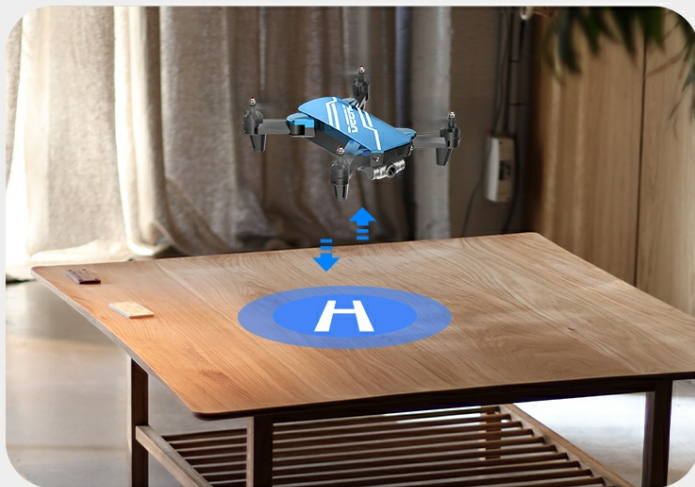
One Key Start/Land

Easy to start or land, simply tap the funtion, D20 will flight up automatically and stay flying or flight down slowly.

Image: Headless Mode, which simplifies control by orienting the drone relative to the pilot.

4. Advanced Functions

- **Voice Control:** Use simple voice commands (e.g., "take off", "land", "turn left") to control the drone.

- **Gestures Selfie:** Make specific hand gestures (e.g., "V" sign, "palm") to trigger photo or video capture.
- **3D Flips:** Push the control sticks inwards or press the dedicated 3D Flip button to perform an impressive 360° flip.
- **Waypoints Fly (Tap Fly):** Draw a flight course on your smartphone screen, and the drone will fly accordingly.

Voice Control
Fly the Drone with Voice Command

take left

take off
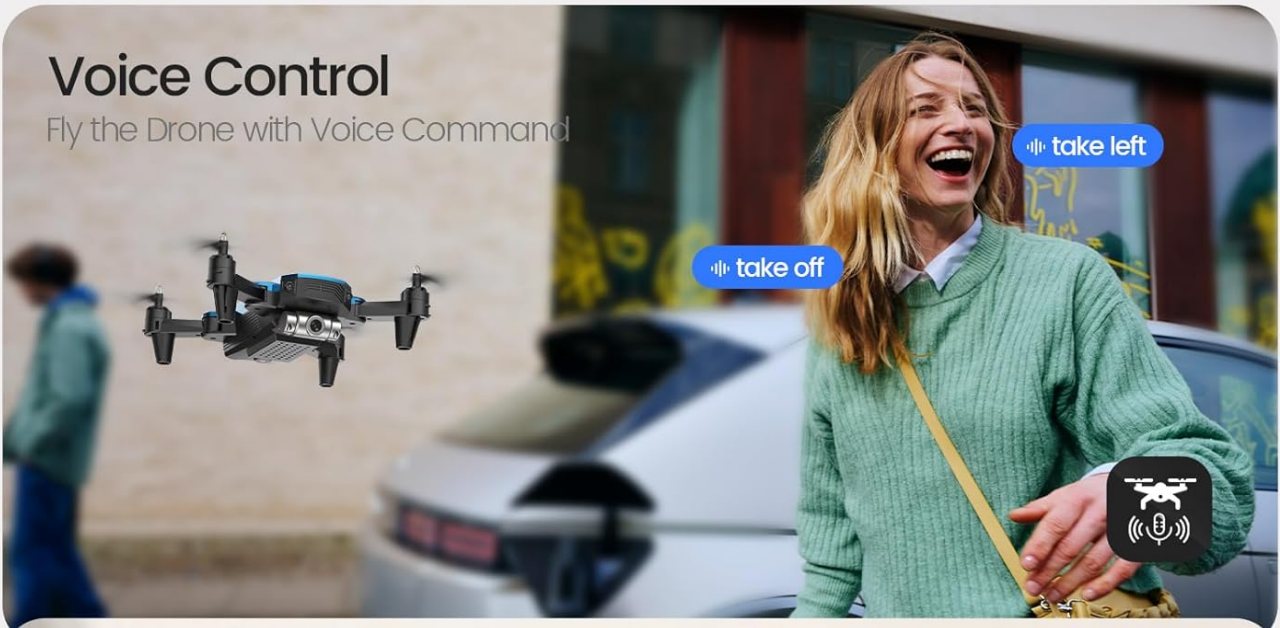
Waypoints Fly
Set up unique fly path on your phone

Image: Voice Control feature, demonstrating how to command the drone using spoken words.

Tap Fly

Tap few flight routes on smartphone, D20 will flight along the routes you set, to free your hands and discover unique view

Image: The 3D Flips function, illustrating the drone performing aerial acrobatics.

3D Flips

Tap one button, D20 can perform a 360 flip and roll in any direction, makes the flight more exciting

Image: Tap Fly feature, where users can define a flight path on their smartphone.

MAINTENANCE

- Regularly inspect the drone for any signs of damage, especially after crashes.
- Clean the drone body and propellers with a soft, dry cloth. Avoid using water or solvents.
- Check propellers for cracks or bends. Replace damaged propellers immediately using the provided spare parts.
- Store the drone and batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not overcharge or over-discharge batteries.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired or low battery.	Re-pair the drone and remote. Ensure batteries are charged.

Problem	Possible Cause	Solution
Drone drifts during flight.	Not calibrated or uneven surface during takeoff.	Perform calibration on a flat surface. Adjust trim controls if necessary.
Short flight time.	Battery not fully charged or old battery.	Ensure battery is fully charged. Consider replacing old batteries.
Camera feed is laggy or unclear.	Weak Wi-Fi signal or interference.	Ensure strong Wi-Fi connection. Reduce distance between drone and smartphone. Avoid areas with high Wi-Fi interference.
Drone crashes frequently.	Pilot error or damaged propellers.	Practice basic controls in a safe area. Inspect and replace damaged propellers.

SPECIFICATIONS

Feature	Detail
Brand	DEERC
Model Name	D20
Color	Blue
Video Capture Resolution	720p
Connectivity Technology	Wi-Fi
Skill Level	All
Item Weight	69 Grams (2.43 ounces)
Battery Capacity	500 Milliamp Hours
Video Capture Format	AVI, MP4
Control Type	Remote control, Voice control
Material	Plastic
Battery Cell Composition	Lithium Polymer
Product Dimensions	7"L x 4.7"W x 1.7"H

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your DEERC D20 Mini Drone, please refer to the official DEERC website or contact their customer service directly. Contact details are typically provided on the product packaging or the official brand website.

You can visit the DEERC Store on Amazon for more information and product updates.

Related Documents - d20

	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 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 D11 Drone: Instructions for Use and Safety Guidelines Comprehensive guide for the DEERC D11 drone, covering setup, flight operations, safety precautions, maintenance, and technical specifications. Learn how to operate your drone safely and effectively.
	DEERC D23 Drone: Instructions for Use and Operation Guide Comprehensive guide for the DEERC D23 mini drone, covering setup, operation, safety guidelines, specifications, and troubleshooting. Learn how to fly, charge, and maintain your DEERC D23 drone.
	DEERC D20 Drone: Instructions for Use and Safety Guide Comprehensive user manual for the DEERC D20 drone, covering setup, operation, safety guidelines, specifications, and troubleshooting. Learn how to fly your drone safely and effectively.