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Potensic US-A20-Green

Potensic A20 Mini Drone Instruction Manual

Model: US-A20-Green

Introduction

Thank you for choosing the Potensic A20 Mini Drone. This compact and easy-to-fly quadcopter is designed for beginners and children, offering stable flight and fun features. Please read this manual carefully before operating your drone to ensure safe and optimal performance.

Safety Information

Always prioritize safety when operating the drone. Failure to follow these guidelines may result in injury or damage to the drone.

- Ensure the drone is flown in open, clear areas, away from people, animals, and obstacles.
- Maintain a safe distance from the drone during operation.
- Adult supervision is recommended for children operating the drone.
- Do not fly the drone near water, in strong winds, or in adverse weather conditions.
- Always check that propellers are securely attached and free from damage before each flight.
- Do not touch the propellers when they are spinning.

Setup Guide

Package Contents

Your Potensic A20 Mini Drone package includes:

- Potensic A20 Mini Drone
- Remote Control
- 3 x Drone Batteries (Lithium Metal)
- USB Charging Cable
- 4 x Spare Propellers
- User Manual



Image: The complete contents of the Potensic A20 Mini Drone package, neatly laid out, showing the drone, remote control, three batteries, spare propellers, USB charging cable, and the user manual.

Charging the Drone Battery

The drone comes with 3 rechargeable Lithium Metal batteries. To charge a battery:

1. Connect the drone battery to the USB charging cable.
2. Plug the USB charging cable into a USB power source (e.g., computer USB port, USB wall adapter).
3. The indicator light on the USB cable will show charging status (refer to cable instructions for specific light behavior).
4. A full charge typically takes approximately 30-40 minutes, providing 5-6 minutes of flight time per battery.

Installing Remote Control Batteries

The remote control requires 3 AAA batteries (not included).

1. Open the battery compartment on the back of the remote control.
2. Insert 3 AAA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment securely.

Pairing the Drone and Remote

To establish a connection between the drone and the remote control:

1. Place the drone on a flat, level surface.
2. Turn on the drone by pressing the power button. The drone's lights will flash.
3. Turn on the remote control.
4. Push the left joystick (throttle stick) all the way up, then pull it all the way down. The drone's lights will stop flashing and become solid, indicating successful pairing.

Operating Instructions

Basic Controls

The remote control features two joysticks and several buttons for various functions:

- **Left Joystick (Throttle):** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick (Direction):** Controls forward/backward and left/right movement.



Image: The Potensic A20 Mini Drone, featuring its vibrant green body and protective propeller guards, positioned alongside its

compact black remote control and three yellow drone batteries.

One-Key Take-off / Landing

After pairing, press the One-Key Take-off/Landing button on the remote control. The drone will automatically ascend to a stable hovering height or descend gently for landing.

Altitude Hold Function

The A20 Mini Drone features an auto-hovering function, allowing it to maintain its current altitude without constant throttle input. This makes it easier for beginners to control.



Image: The Potensic A20 Mini Drone demonstrating its Altitude Hold function, hovering steadily above a designated landing spot on a wooden floor, with a curious dog observing its flight.

Headless Mode

In Headless Mode, the drone's orientation is relative to the pilot, regardless of which way the drone's front is facing. This simplifies control, as you don't need to worry about the drone's actual heading.

Speed Adjustment

The drone offers 3 adjustable speed modes (low, medium, high) to suit different skill levels and flying environments. Press the speed switch button on the remote to cycle through the speeds.



Image: Two Potensic A20 Mini Drones in flight within a home setting, accompanied by graphical representations of speedometers, highlighting the drone's three adjustable speed settings for varied flying experiences.

Special Maneuvers

- **3D Flip:** Press the 3D flip button and move the right joystick in any direction to perform an aerial flip.
- **Rotation:** The drone can perform 360-degree rotations.
- **Circle Fly:** Engage the circle fly function for automated circular flight.



Image: A composite image showcasing the drone's dynamic capabilities: a child observing the drone's 360-degree rotation, a mother and child watching the drone execute a 3D flip, and another child observing the drone's circular flight path.

Maintenance

Cleaning

Use a soft, dry cloth to clean the drone and remote control. Avoid using water or chemical cleaners.

Propeller Replacement

If a propeller is damaged, it can be replaced. Gently pull off the damaged propeller and push a new one onto the motor shaft. Ensure the correct propeller type (A or B) is installed on the corresponding motor.

Durable Design

The A20 Mini Drone is built with durable materials and features 4 propeller guards to protect it from damage during indoor flights and minor crashes, also safeguarding hands and furniture.



Image: The Potensic A20 Mini Drone demonstrating its durability by gently bouncing off a wall, emphasizing its robust design and protective features.

Troubleshooting

- **Drone not responding or flying erratically:** Ensure the drone and remote are properly paired. If the drone has experienced a hard crash, power off both the drone and remote, then restart and re-pair them. Gyroscopes can sometimes become confused after impacts.
- **Drone not taking off or losing power quickly:**Check that the drone battery is fully charged. Ensure the propellers are not obstructed and are installed correctly.
- **Altitude hold issues:** For more stable altitude hold, try manually launching the drone by pulling both joysticks down and in until the motors spin, rather than using the auto take-off button.
- **Drone drifts:** Perform a calibration. Refer to the detailed instructions in the included user manual for calibration steps after crashes or if drifting occurs.

Specifications

Feature	Detail
Brand	Potensic
Model Name	Mini Drone, Potensic A20 RC Nano Quadcopter 2.4G 6 Axis With Altitude Hold Function
Model Number	US-A20-Green
Color	Green
Item Weight	0.19 Kilograms (6.7 ounces)
Control Type	Remote Control
Maximum Range	15 Meters
Material	PP
Wireless Communication	Wi-Fi
Battery Type	Lithium Metal
Batteries Included	Yes (3 drone batteries)
Product Dimensions	3.5"L x 3.11"W x 1.26"H
Manufacturer Recommended Age	14 years and up
UPC	656699604595

Warranty & Support

For detailed warranty information and customer support, please refer to the official Potensic website or the contact information provided in the original product packaging. You can also find a PDF version of the user manual for this product at: Potensic A20 User Manual (PDF).

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