DUHWQ DUHWQ123

S185 GPS Drone Upgrade Remote Controller User Manual

Model: DUHWQ123

Introduction

This user manual provides essential information for the safe and effective operation of your S185 GPS Drone Upgrade Remote Controller. This controller is designed to enhance your drone flying experience with advanced features, including obstacle avoidance capabilities and an integrated display. It is compatible with the S185 GPS Drone model.
Please read this manual thoroughly before using the product to ensure proper setup, operation, and maintenance.

Setup

1. Unpacking and Inspection

Carefully unpack all components and verify that the following items are included:

- S185 GPS Drone Upgrade Remote Controller
- Obstacle Avoidance Module (if purchased separately or included as an accessory)
- Storage Bag
- Charging Cable (USB)
- User Manual (this document)

Inspect all items for any signs of damage. If any components are missing or damaged, contact customer support immediately.

2. Charging the Remote Controller

Before first use, fully charge the remote controller's internal battery. Connect the provided USB charging cable to the controller's charging port and to a standard USB power adapter (not included). The charging indicator lights will provide status updates. A full charge typically takes 2-3 hours.

3. Pairing with the S185 GPS Drone

To establish a connection between the remote controller and your S185 GPS Drone, follow these steps:

1. Ensure both the drone and the remote controller are powered off.
2. Place the drone on a flat, level surface.

3. Power on the drone. Wait for its indicator lights to flash, indicating it is ready for pairing.
4. Power on the remote controller.
5. Perform the specific pairing sequence as detailed in your S185 GPS Drone's main user manual (e.g., pushing joysticks in a specific pattern, pressing a dedicated pairing button).
6. Once successfully paired, the indicator lights on both the drone and the controller will become solid, or a confirmation message will appear on the controller's screen.

4. Installing the Obstacle Avoidance Module

If your package includes a separate obstacle avoidance module, refer to the S185 GPS Drone's main user manual for specific installation instructions. Typically, these modules attach to designated ports on the drone and integrate automatically with the controller once connected.

Operating the Remote Controller

1. Controller Layout

This image shows the S185 GPS Drone Upgrade Remote Controller. It features dual antennas at the top, two joysticks for flight control, various control buttons for functions like GPS, power, and mode selection, and an integrated screen at the bottom displaying a desert scene. The screen size is approximately 6 centimeters, providing real-time flight data and video feed.

The S185 GPS Drone Upgrade Remote Controller is designed for intuitive control. Familiarize yourself with the following key components:

- **Joysticks:** Control drone movement (throttle, yaw, pitch, roll).
- **Power Button:** Turns the controller on/off.
- **GPS Button:** Activates/deactivates GPS functions like Return-to-Home (RTH) or position hold.
- **Mode Switch:** Toggles between different flight modes (e.g., beginner, normal, sport).
- **Integrated Screen:** Displays real-time flight parameters, battery status, GPS signal strength, and potentially live video feed from the drone's camera.
- **Antennas:** Ensure optimal signal transmission and reception.

2. Basic Flight Controls

Once paired, use the joysticks to control the drone:

- **Left Joystick (Mode 2):**
  - Up/Down: Throttle (Ascend/Descend)
  - Left/Right: Yaw (Rotate drone left/right)
- **Right Joystick (Mode 2):**
  - Up/Down: Pitch (Move drone forward/backward)
  - Left/Right: Roll (Move drone left/right)

Note: Joystick functions may vary based on the selected control mode (e.g., Mode 1, Mode 2). Refer to your drone's manual for details on changing modes.

3. GPS Functions

The controller supports GPS-assisted flight features:

- **GPS Signal Indicator:** Check the screen for GPS satellite count. A sufficient number of satellites (usually 7+) is required for stable GPS functions.
- **Return-to-Home (RTH):** Press the GPS button briefly to initiate RTH. The drone will automatically return to its recorded take-off point. Press again to cancel.
- **Position Hold:** When GPS signal is strong, the drone will automatically maintain its position and altitude when joysticks are centered.

4. Obstacle Avoidance System

The integrated or attached obstacle avoidance module uses sensors to detect obstacles in the drone's path. When an obstacle is detected, the drone will automatically slow down or stop to prevent collision. The controller's screen may display warnings or indicators when the system is active or detecting an obstacle.
Important: Obstacle avoidance systems are not foolproof. Always maintain visual line of sight with your drone and be prepared to take manual control. Avoid flying in complex environments with many small or transparent obstacles.

Maintenance

1. Cleaning

Wipe the remote controller with a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Do not use harsh chemicals, solvents, or abrasive cleaners. Ensure no liquid enters the ports or buttons.

2. Storage

When not in use, store the remote controller and its accessories in the provided storage bag. Keep it in a cool, dry place, away from direct sunlight, extreme temperatures, and humidity. Avoid placing heavy objects on the controller.

3. Battery Care

To prolong the life of the internal battery:

- Avoid fully discharging the battery frequently.
- Charge the battery at least once every three months if not used regularly.
- Do not expose the battery to extreme heat or cold.

Troubleshooting

Problem	Possible Cause	Solution
Controller does not power on.	Low battery.	Charge the remote controller fully.
Controller not connecting to drone.	Not paired correctly; drone not powered on; interference.	Ensure drone is on. Re-attempt pairing process. Move to an area with less interference.
Obstacle avoidance not working.	Module not installed correctly; sensors obstructed; flying in unsuitable conditions.	Check module connection. Clean sensors. Avoid flying in dense foliage or transparent surfaces.
Short control range.	Antennas not positioned correctly; interference; low battery on drone or controller.	Ensure antennas are upright. Fly in open areas. Charge both drone and controller batteries.

Specifications

Feature	Detail
Brand	DUHWQ
Model	DUHWQ123
Color	Upgrade control
Item Weight	400 Grams (14.1 ounces)
Product Dimensions	3 x 2 x 1 inches
Integrated Screen Size	6 Centimeters

Warranty and Support

Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official DUHWQ website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or spare parts inquiries, please contact DUHWQ customer support. Contact information can typically be found on the product packaging or the official DUHWQ website.
When contacting support, please have your product model (DUHWQ123) and purchase details ready.