Dwi Dowellin D6 Black

Dwi Dowellin 4.9 Inch Mini Drone User Manual

Model: D6 Black

1. INTRODUCTION

Thank you for purchasing the Dwi Dowellin 4.9 Inch Mini Drone. This compact and durable quadcopter is designed for beginners and experienced pilots alike, featuring LED lights, one-key operations, and multiple speed modes. Please read this manual carefully before operating the drone to ensure safe and optimal performance.

What's in the Box

- 1 x Dwi Dowellin Mini Drone (Black)
- 1 x Remote Control
- 1 x USB Charging Cable
- 2 x Spare Propellers
- 2 x Drone Batteries (3.7V 450mAh Lipo)
- 1 x Screwdriver
- 1 x User Manual

Image 1.1: Contents of the Dwi Dowellin Mini Drone package, including the drone, remote control, and two rechargeable batteries.

2. SAFETY PRECAUTIONS

Failure to follow these instructions may result in injury or damage to the drone.

- **Age Recommendation:** This drone is recommended for users aged 6 years and up. Adult supervision is advised for younger users.
- **Flight Environment:** Fly in open, clear areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds or rain.
- **Battery Safety:** Use only the provided charging cable and batteries. Do not overcharge or short-circuit batteries. Discontinue use if batteries show signs of swelling or damage.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers.
- **Crash-Proof Design:** The drone features a crash-proof design for enhanced durability, protecting both the drone and users from minor impacts.

Image 2.1: The drone's full protective design, highlighting its durability and safety features for indoor and outdoor use.

3. COMPONENTS OVERVIEW

Drone

- **Propellers:** Four main propellers for lift and thrust.
- **Motor Guards:** Integrated guards protect the propellers and motors.
- **LED Lights:** Bright LED lights for visibility and aesthetic appeal, especially in low light conditions.
- **Battery Compartment:** Located on the underside for the drone battery.

Remote Control

- **Left Stick (Throttle/Yaw):** Controls altitude (up/down) and rotation (left/right).
- **Right Stick (Direction):** Controls forward, backward, left, and right movement.
- **One Key Take Off/Landing Button:** Initiates automatic take-off or landing.
- **Speed Mode Button:** Toggles between 3 speed modes (Low, Mid, High).

- **3D Flip Button:** Activates the 3D flip function.
- **Headless Mode Button:** Engages headless mode.
- **Power ON/OFF Button:** Turns the remote control on or off.

4. SETUP GUIDE

4.1 Charging the Drone Battery

1. Connect the drone battery to the USB charging cable.
2. Plug the USB cable into a USB power source (e.g., computer USB port, USB wall adapter).
3. The indicator light on the USB cable will illuminate during charging and turn off when fully charged.
4. Charging time is approximately 50-60 minutes per battery.

4.2 Installing Drone Battery

1. Ensure the drone is powered off.
2. Carefully insert a fully charged battery into the battery compartment on the underside of the drone.
3. Secure the battery in place.

4.3 Installing Remote Control Batteries

1. Open the battery compartment on the back of the remote control.
2. Insert 3 x AAA batteries (not included), ensuring correct polarity.
3. Close the battery compartment.

4.4 Pairing the Drone and Remote Control

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

5. OPERATING INSTRUCTIONS

5.1 Basic Flight

- **One Key Take Off:** After pairing, press the One Key Take Off/Landing button. The drone will automatically ascend and hover at a stable altitude.
- **Altitude Hold:** The drone features an auto-hovering function, allowing it to maintain its current height when the throttle stick is released. This provides stable flight for beginners.

Image 5.1: The drone demonstrating its Altitude Hold capability, maintaining a stable height without constant throttle input.

Image 5.2: Visual representation of the One Key Take Off and Landing function, simplifying drone operation for new users.

- **Throttle (Left Stick Up/Down):** Increase or decrease altitude.
- **Yaw (Left Stick Left/Right):** Rotate the drone left or right.
- **Forward/Backward (Right Stick Up/Down):** Move the drone forward or backward.
- **Left/Right Sideways (Right Stick Left/Right):** Move the drone left or right sideways.
- **One Key Landing:** Press the One Key Take Off/Landing button again to initiate an automatic landing.

5.2 Advanced Features

- **Speed Adjustment:** Press the Speed Mode button to cycle through 3 speed settings: Low (30%), Mid (60%), and High (100%). Adjust the speed according to your skill level and environment.

Image 5.3: The drone's speed adjustment feature, showing the three available speed modes for varying pilot experience levels.

- **3D Flips & Rolling:** Fly the drone to a height of at least 2 meters. Press the 3D Flip button, then push the right stick in any direction (forward, backward, left, or right) to perform a 360-degree flip in that direction.

Image 5.4: The drone executing 3D flips and rolls, showcasing its acrobatic capabilities.

- **Headless Mode:** Press the Headless Mode button. 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, especially when the drone is far away. Press the button again to exit headless mode.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Do not use water or chemical cleaners.
- **Propeller Replacement:** If a propeller is damaged, use the included screwdriver to remove the screw holding the damaged propeller. Replace it with a new propeller, ensuring it matches the original (A or B). Secure with the screw.
- **Storage:** When not in use for extended periods, remove batteries from both the drone and remote control. Store in a cool, dry place.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote control.	Not paired; low battery; remote control off.	Re-pair drone and remote; charge drone battery; replace remote batteries; turn on remote.
Drone cannot take off or flies unstably.	Low drone battery; damaged propeller; drone not on a flat surface during pairing.	Charge drone battery; replace damaged propellers; re-pair drone on a flat surface.
Short flight time.	Battery not fully charged; old battery.	Ensure battery is fully charged (50-60 mins); consider replacing old batteries.
Drone drifts in one direction.	Need for calibration/trimming.	Refer to the remote control's fine-tuning buttons (trim) to adjust for drift. Re-calibrate by placing on a flat surface and re-pairing.

8. SPECIFICATIONS

- **Brand:** Dwi Dowellin
- **Model Name:** D6 Black
- **Drone Dimensions:** 4.9" x 4.9" x 1.9" (L x W x H)
- **Item Weight:** 51 Grams (1.8 ounces)
- **Material:** Plastic
- **Drone Battery:** 3.7V 450mAh Lipo Battery (Built-in, 2 included)
- **Remote Control Battery:** 3 x AAA Battery (Not Included)
- **Flying Time:** 7-8 minutes per battery (approx. 15 minutes total with 2 batteries)
- **Charging Time:** 50-60 minutes
- **Max Transmission Distance:** 200-260 feet
- **Remote Control Frequency:** 2.4GHz
- **Special Features:** Crash Proof Design, Auto-Hovering Function, Headless Mode, One Key Take off/Landing/Return, 3 Speed Modes, 3D Flips Rolls, LED Lights.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the Dwi Dowellin customer service directly through the retailer where the product was purchased. Please have your model number (D6 Black) and purchase details ready when contacting support.