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Denver DCH-350

Denver DCH-350 Drone User Manual

Model: DCH-350

Introduction

Thank you for purchasing the Denver DCH-350 Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read it thoroughly before first use and retain it for future reference.



Figure 1: Denver DCH-350 Drone

Safety Information

Always operate the drone in a safe environment, away from people, animals, and obstacles. Failure to follow these safety guidelines may result in injury or damage to property.

- Ensure the drone battery is fully charged before each flight.
- Do not fly near airports, restricted airspace, or in strong winds.
- Keep hands and face away from rotating propellers.
- Supervise children during operation.
- Do not attempt to modify or repair the drone yourself. Contact support if needed.
- Avoid flying in wet conditions or extreme temperatures.

Package Contents

Verify that all items are present in the package:

- Denver DCH-350 Drone
- Remote Controller
- Rechargeable Lithium-ion Battery (1600 mAh, 3.7 V)
- USB Charging Cable
- Spare Propellers
- Propeller Guards
- User Manual (this document)

Product Overview

The Denver DCH-350 is a 27x27cm drone featuring 4 channels and a 6-axis gyroscope for stable flight. It includes a 720p HD camera for photo and video capture.

Drone Components



Figure 2: Drone Side View

This image displays the drone from a side-front perspective, highlighting its compact design, propeller guards, and fixed landing gear.



Figure 3: HD Camera Detail

A detailed view of the 720p HD camera, positioned on the drone's underside for capturing aerial footage.

Remote Controller



Figure 4: Remote Controller Layout

This image shows the remote controller with its various buttons and joysticks, including controls for speed, trim, 360° flip, headless return, one-button take-off/land, and emergency stop.

The remote controller features intuitive controls for flight, including joysticks for movement, buttons for speed adjustment, trim, 360° flip, headless return, one-button take-off/land, and an emergency stop function.

Setup

1. Charging the Drone Battery

1. Connect the USB charging cable to the drone battery.
2. Plug the USB end into a 5V USB power adapter (not included) or a computer USB port.
3. The charging indicator light will show the charging status. A full charge takes approximately 2 hours.
4. Disconnect the battery once fully charged to prevent overcharging.

2. Installing the Drone Battery

1. Ensure the drone is powered off.
2. Locate the battery compartment on the underside of the drone.
3. Carefully insert the charged battery into the compartment, ensuring the connector is properly aligned.
4. Close the battery compartment securely.

3. Attaching Propeller Guards

For added safety and protection, attach the propeller guards to each arm of the drone. Ensure they click into place firmly.

4. Installing Controller Batteries

The remote controller requires 3x AAA batteries (not included). Open the battery compartment on the back of the controller and insert the batteries, observing correct polarity.

5. Camera Setup (MicroSD Card)

To record videos or take photos, a MicroSD card (not included) is required. Insert the MicroSD card into the slot on the drone's camera module until it clicks into place. Ensure the drone is powered off before inserting or removing the card.

Operating Instructions

1. Pairing the Drone and Controller

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) all the way up, then all the way down. The drone's lights will become solid, indicating successful pairing.

2. Calibration

After pairing, perform a gyroscope calibration for stable flight. Push both joysticks down and to the right simultaneously. The drone's lights will flash rapidly and then become solid, indicating successful calibration.

3. One-Button Take-off and Landing

- **Take-off:** After pairing and calibration, press the "TAKE-OFF LAND" button. The drone will automatically ascend to a stable hovering height.
- **Landing:** During flight, press the "TAKE-OFF LAND" button again. The drone will slowly descend and land automatically.

4. Basic Flight Controls

- **Throttle (Left Joystick Up/Down):** Controls altitude.
- **Yaw (Left Joystick Left/Right):** Rotates the drone left or right.
- **Forward/Backward (Right Joystick Up/Down):** Moves the drone forward or backward.
- **Left/Right Sideways Flight (Right Joystick Left/Right):** Moves the drone left or right sideways.
- **Altitude Hold Function:** The drone automatically maintains its current altitude, making it very stable in the air.

5. 360° Flip

To perform a 360° flip, press the "FLIP" button on the controller, then quickly push the right joystick in the desired direction (forward, backward, left, or right). The drone will perform a flip in that direction.

6. Headless Mode

Press the "HEADLESS RETURN" button once to activate Headless Mode. In this mode, the drone's orientation is relative to the pilot, regardless of which way the drone is facing. Press the button again to exit Headless Mode.

7. Photo and Video Capture

Ensure a MicroSD card is inserted into the drone's camera slot.

- **Photo:** Press the camera icon button on the controller to take a photo.
- **Video:** Press and hold the camera icon button to start video recording. Press and hold again to stop recording.
- Files will be saved to the MicroSD card.

8. Emergency Stop

In case of an emergency or loss of control, press the "EMERG." button. The drone's motors will immediately stop, causing it to fall. Use this function only in emergencies to prevent damage or injury.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and controller. Do not use water or chemical cleaners.
- **Propeller Replacement:** If propellers are damaged, replace them with spare parts. Ensure correct propeller (A or B) is installed on the corresponding motor.
- **Battery Care:** Store the battery in a cool, dry place. Do not overcharge or over-discharge. If not used for a long period, charge the battery to about 50% every 3 months.
- **Storage:** When not in use, store the drone and controller in a safe place, away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to controller.	Not paired; low battery (drone or controller).	Re-pair the drone and controller. Charge drone battery; replace controller batteries.
Drone drifts during flight.	Not calibrated; uneven surface at take-off; strong wind.	Perform gyroscope calibration. Take off from a flat surface. Avoid flying in windy conditions. Use trim adjustments.
Propellers do not spin.	Obstruction; damaged motor; low battery.	Check for obstructions. Ensure battery is charged. Contact support if motor is damaged.
Cannot record video/take photos.	No MicroSD card; MicroSD card full or corrupted.	Insert a MicroSD card. Format or replace the MicroSD card.

Specifications

Model: DCH-350

Brand: Denver

Dimensions (L x W x H): 17 x 17 x 11 cm

Weight: 270 grams

Channels: 4-channel

Gyroscope: 6-axis

Camera: 720p HD (MicroSD card required, not included)

Battery: 1600 mAh, 3.7V Lithium-ion

Flight Time: Up to 22 minutes per charge

Charging Time: Approximately 2 hours

Controller Batteries: 3x AAA (not included)

Country of Origin: China

Warranty and Support

For warranty information or technical support, please refer to the official Denver website or contact your retailer. Keep your proof of purchase for warranty claims.
Manufacturer: Denver
Website: www.denver.eu (Example link, actual link may vary)

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