Denver DCH-640

DENVER DCH-640 Drone with 360° Rotating HD Camera User Manual

Model: DCH-640

INTRODUCTION

Thank you for purchasing the DENVER DCH-640 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.

SAFETY GUIDELINES

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.

- Do not fly near airports, restricted airspace, or sensitive areas.

- Maintain a safe distance from power lines, trees, and water bodies.

- Ensure the drone battery is fully charged before each flight.

- Do not operate in strong winds or adverse weather conditions.

- Adult supervision is recommended for younger users.

- Turn off the drone and remote control when not in use.

PACKAGE CONTENTS

Verify that all items are present in the package:

- DENVER DCH-640 Drone

- Remote Control

- USB Charging Cable

- Spare Propellers

- Propeller Guards

- User Manual (this document)

Image: The DENVER DCH-640 drone with its remote control, showcasing the main components included in the package.

SETUP

1. Charging the Drone Battery

1. Connect the drone battery to the provided USB charging cable.

2. Plug the USB cable into a USB power adapter (not included) or a computer USB port.

3. The indicator light on the USB cable will show charging status (e.g., red for charging, off for fully charged).

4. Charging typically takes approximately 60-90 minutes. Do not overcharge.

Image: The underside of the DCH-640 drone, showing the USB charging cable connected to the drone's battery port.

2. Installing Remote Control Batteries

- Open the battery compartment on the back of the remote control.
- Insert 4 x AA batteries (not included), ensuring correct polarity (+/-).
- Close the battery compartment securely.

3. Attaching Propeller Guards

- Carefully attach the propeller guards to the drone's arms.
- Ensure they are securely fastened to protect the propellers during flight.

Image: A top-down view of the DENVER DCH-640 drone, clearly showing the installed propeller guards around each rotor.

4. Camera Installation (if detached)

- Align the camera module with the mounting slot on the underside of the drone.

- Gently push until it clicks into place.

- Connect the camera's data cable to the drone's port.

Image: A detailed close-up of the DCH-640 drone's HD camera module, showing its attachment point and lens.

1. Pairing the Drone and Remote Control

1. Place the drone on a flat, level surface.

2. Turn on the drone's power switch. The drone's lights will flash.

3. Turn on the remote control.

4. Push the left joystick (throttle) all the way up, then all the way down. The drone's lights will stop flashing, indicating successful pairing.

2. Basic Flight Controls

Image: A detailed view of the DENVER DCH-640 remote control, highlighting its joysticks and function buttons.

- **Take-off/Landing:** Press the one-key take-off/landing button, or slowly push the left joystick up to ascend and down to descend.

- **Ascend/Descend:** Use the left joystick (throttle) up and down.

- **Forward/Backward:** Use the right joystick up and down.

- **Turn Left/Right:** Use the left joystick (yaw) left and right.

- **Fly Left/Right (Strafe):** Use the right joystick left and right.

- **Altitude Hold:** The drone will automatically maintain its current altitude when the throttle joystick is released.

3. Advanced Features

- **360° Flip:** Press the flip button, then move the right joystick in the desired direction for a 360-degree roll.
- **Headless Mode:** Press the headless mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction.
- **Speed Conversion:** Use the speed button to switch between different flight speeds (e.g., low, medium, high).

4. Camera Operation

The DCH-640 is equipped with a 720p HD camera that can rotate 360 degrees.

- **Take Photo:** Press the photo button on the remote control.
- **Record Video:** Press the video button on the remote control to start recording. Press again to stop.
- **360° Camera Rotation:** Use the dedicated camera rotation controls on the remote (refer to remote diagram) to adjust the camera angle during flight.
- **Viewing Media:** Connect the drone to a computer via USB or remove the SD card (if applicable) to view captured photos and videos.

MAINTENANCE

1. Cleaning

- Use a soft, dry cloth to clean the drone's body and camera lens.
- Avoid using harsh chemicals or solvents.
- Ensure no dust or debris obstructs the motors or camera.

2. Propeller Replacement

- If a propeller is damaged, carefully remove it by gently pulling it upwards from the motor shaft.
- Install a new propeller, ensuring it matches the original (A or B type, usually marked on the propeller and drone arm).
- Press down firmly until it is securely seated.

3. Battery Care and Storage

- Store the drone battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not store fully charged or completely depleted for extended periods. Aim for around 50% charge for long-term storage.
- If the drone will not be used for a long time, remove batteries from both the drone and the remote control.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Power switch off	Charge drone battery; Ensure power switch is ON
Remote control does not power on	Low/dead batteries; Incorrect battery polarity	Replace AA batteries; Check polarity

Problem	Possible Cause	Solution
Drone and remote fail to pair	Incorrect pairing procedure; Interference	Repeat pairing steps carefully; Move to an area with less interference
Unstable flight/Drifting	Not calibrated on a flat surface; Damaged propeller; Strong wind	Recalibrate on a level surface; Replace damaged propellers; Fly in calm conditions
Camera not recording/taking photos	Camera not properly connected; SD card full/missing/corrupt	Check camera connection; Insert/format/replace SD card

SPECIFICATIONS

Brand: Denver

Model Name: DCH-640

Age Range (Description): Youth, Adult

Color: Multicolored

Video Recording Resolution: 720p

Effective Still Resolution: 2 Megapixels

Battery Capacity: 2000 Milliampere-hour (mAh)

Control Type: Remote Control

Batteries Included: Yes (for drone)

Remote Control Included: Yes

WARRANTY AND SUPPORT

This product is covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact your retailer.

For technical support or service inquiries, please contact the retailer where the product was purchased or visit the official Denver Electronics website for support resources.

Website: www.denver-electronics.com