

Dayan Cube RC-4

Dayan Cube Discovery RC-4 Quadcopter Instruction Manual

Model: RC-4

INTRODUCTION

Thank you for choosing the Dayan Cube Discovery RC-4 Quadcopter. This manual provides essential information for the safe operation, setup, and maintenance of your new quadcopter. Please read this manual thoroughly before operating the device to ensure proper function and to prevent damage.

The Discovery RC-4 is a 2.4GHz 4-channel quadcopter featuring a 6-axis gyroscope for stable flight and an integrated HD camera for capturing aerial photos and videos. It is designed for users aged 14 and up.

WHAT'S IN THE BOX

Verify that all components are present in the package:

- U818A-1 Quadcopter
- Remote Controller
- Li-Po Battery (500mAh 3.7V)
- USB Battery Charger (Input: DC 5V, Output: DC 600mA x 2)
- 2GB Micro-SD card
- USB Data Cable
- Spare Propellers (4 pieces)
- Instruction Manual (this document)



Figure 1: Product packaging for the Dayan Cube Discovery RC-4 Quadcopter.

SETUP

1. Battery Charging

The quadcopter uses a Li-Po Battery. Use the provided USB Battery Charger to charge the battery. The charger supports simultaneous charging of two batteries. Charging time is approximately 120 minutes for a flight duration of 6-9 minutes.



Figure 2: The Li-Po battery connected to the dual USB charger.

2. Remote Controller Setup

The remote controller requires 4 x AA batteries (not included). Insert the batteries into the compartment on the back of the controller, observing correct polarity.



Figure 3: The 2.4GHz remote controller for the quadcopter.

3. Micro-SD Card Installation

Insert the 2GB Micro-SD card into the designated slot on the bottom of the quadcopter. Ensure it is securely seated. The USB Data Cable and adapter are provided for transferring media to a computer.

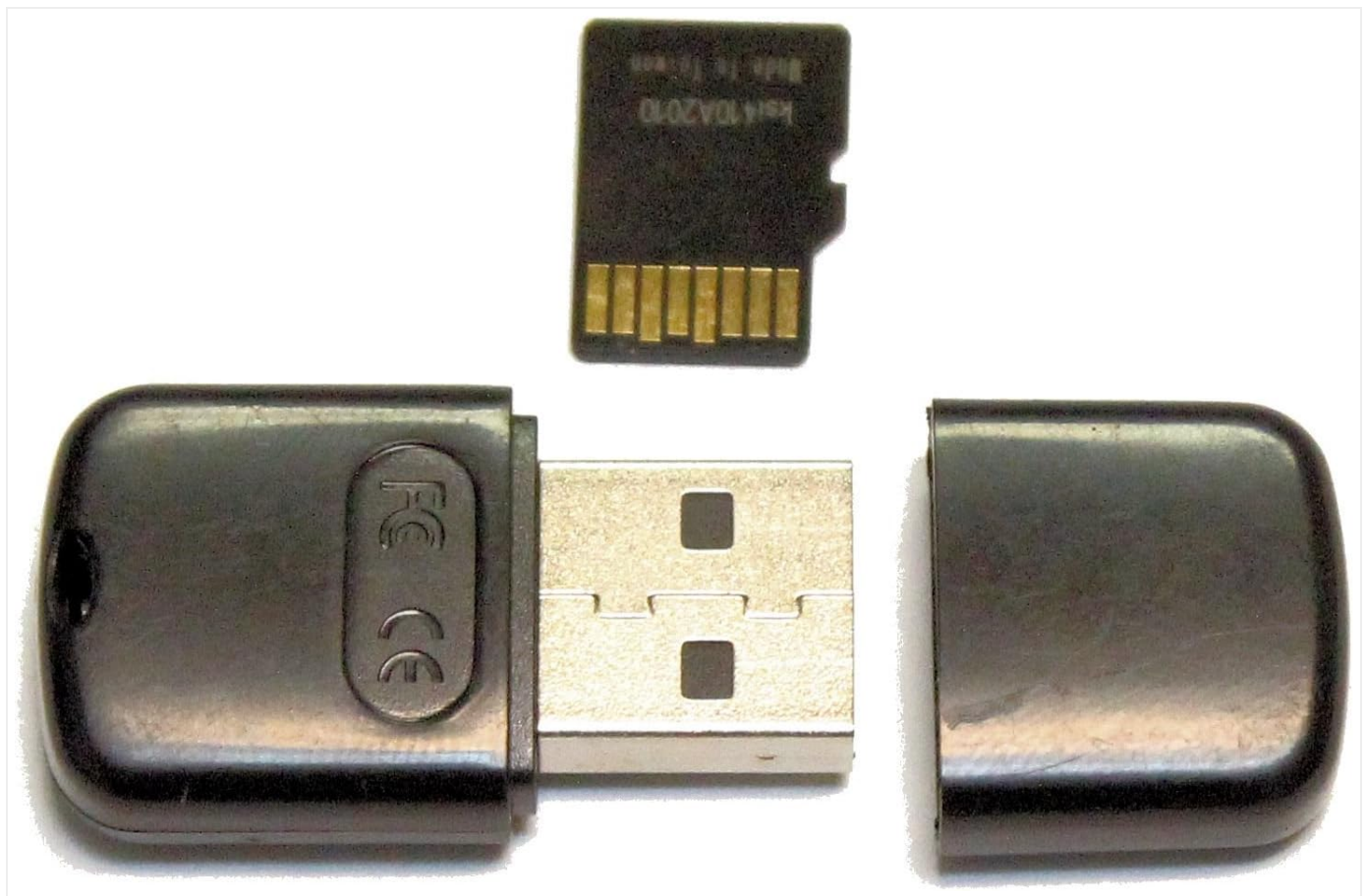


Figure 4: The Micro-SD card and USB adapter for data transfer.

OPERATING INSTRUCTIONS

1. Power On and Pairing

1. Ensure the quadcopter battery is fully charged and installed.
2. Place the quadcopter on a flat, level surface.
3. Turn on the remote controller.
4. Connect the quadcopter's battery. The LED lights on the quadcopter will flash.
5. On the remote controller, push the left joystick fully up, then fully down. You will hear a beep, and the quadcopter's lights will become solid, indicating successful pairing.

2. Basic Flight Controls

- **Left Joystick (Throttle/Yaw):** Up/Down controls altitude. Left/Right controls rotation (yaw).
- **Right Joystick (Pitch/Roll):** Up/Down controls forward/backward movement (pitch). Left/Right controls sideways movement (roll).
- **Trim Controls:** Small buttons around the joysticks allow for fine-tuning the quadcopter's stability if it drifts in any direction.

3. Advanced Features

- **360° Flips and Rolls:** Press the 'Roll Button' (often the right trigger or a dedicated button) and simultaneously move the right joystick in the desired direction to perform a 360-degree flip.
- **Flight Modes:** The 6-axis gyro system provides stable hovering. The controller may offer different flight modes (e.g., Mode 1 for maximum gyro-stability, Mode 2 for 3D expert control). Refer to the controller's LCD screen for current mode.
- **LED Lights:** The quadcopter features LED running lights and a remote control signal light. These can be turned on or

off using the right trigger.



Figure 5: The Dayan Cube Discovery RC-4 Quadcopter, ready for flight.

CAMERA AND VIDEO FEATURES

The Discovery RC-4 is equipped with a forward-facing HD camera capable of capturing videos at 1280 x 720 resolution at 30 frames per second, and HD photos.

- **Photo Button:** Press the dedicated Photo Button on the remote controller to snap pictures.
- **Video Button:** Press the Video Button to start and stop video recording.
- **Storage:** Recordings are saved to the Micro-SD (TF) card.
- **Data Transfer:** Use the provided USB Data Cable and adapter to upload AVI and JPEG files to your computer.



Figure 6: Close-up view of the HD camera located on the underside of the quadcopter.

Your browser does not support the video tag.

Video 1: Official product video showcasing the UDI U818A-1 Discovery quadcopter in action, highlighting its flight capabilities and features.

MAINTENANCE

- **Propeller Inspection:** Regularly check propellers for damage (cracks, bends). Replace any damaged propellers immediately using the spare parts and screwdriver provided.
- **Battery Care:** Do not overcharge or over-discharge the Li-Po battery. Store batteries in a cool, dry place away from direct sunlight.
- **Cleaning:** Use a soft, dry cloth to clean the quadcopter and remote controller. Avoid using water or harsh chemicals.
- **Storage:** When not in use, store the quadcopter and its components in a safe place, preferably in its original packaging, to prevent damage.



Figure 7: Close-up of the propeller and protective guard, illustrating the modular design.

TROUBLESHOOTING

- **Quadcopter not responding:** Ensure both the remote controller and quadcopter are powered on and successfully paired. Re-pair if necessary. Check battery levels for both devices.
- **Unstable flight/Drifting:** Perform a calibration by placing the quadcopter on a level surface and following the pairing procedure. Use the trim controls on the remote to correct minor drifts.
- **Camera/Video issues:** Ensure the Micro-SD card is correctly inserted and has sufficient free space. If video quality is poor or files are corrupted, try using a different, higher-quality Micro-SD card.
- **Short flight time:** Ensure the battery is fully charged. Flight time can be affected by aggressive flying, wind conditions, and battery age.
- **Loss of control/Range issues:** Ensure you are within the specified remote distance (up to 30m). Avoid areas with strong electromagnetic interference.

SPECIFICATIONS

Brand	Dayan Cube
Model Name	Discovery
Item Model Number	RC-4
Special Feature	Integrated HD Camera
Video Capture Resolution	720p (1280 x 720 at 30 frames per second)
Video Capture Format	MP4
Connectivity Technology	USB
Wireless Communication Technology	Radio Frequency (2.4GHz)
Control Type	Remote Control (4-Channel)
Gyroscope	6-Axis Gyro (3 gyroscopes, 3 accelerometers)
Maximum Range	30 Meters

Flight Duration	7-9 minutes
Charging Time	Approximately 120 minutes
Material	Plastic
Item Weight	1.8 pounds
Product Dimensions	1 x 1 x 1 inches
Recommended Age	14 years and up
Skill Level	Beginner

Safety Guidelines

- Always operate the quadcopter in open areas, away from people, animals, buildings, and power lines.
- Do not fly in strong winds or adverse weather conditions.
- Keep fingers and hair away from rotating propellers.
- Supervise children under 14 years of age during operation.
- Ensure the battery is properly installed and secured before flight.
- Do not modify the quadcopter or its components.

Warranty and Support

For warranty information or technical support, please refer to the contact details provided on the product packaging or the official Dayan Cube website. Keep your purchase receipt as proof of purchase.

Ask a Question About This Manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question