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› Hubsan X4 (H107L) 4 Channel 2.4GHz RC Quadcopter Instruction Manual

HUBSAN H107L

Hubsan X4 (H107L) 4 Channel 2.4GHz RC Quadcopter

INSTRUCTION MANUAL

Model: H107L | Brand: HUBSAN

1. Safety Information

- This product is not intended for children under 14 years of age. Adult supervision is recommended.
- Always remove the quadcopter battery when charging.
- Do not leave the quadcopter unattended during charging.
- Avoid flying in extreme temperatures or adverse weather conditions.
- Ensure a clear and safe environment for flight, away from people, animals, and obstacles.

2. Package Contents

The Hubsan X4 (H107L) package typically includes the following items:

- Hubsan X4 (H107L) RC Quadcopter
- 2.4GHz 4-Channel Transmitter (Remote Control)
- 1S 240mAh 3.7V LiPO Battery
- USB Charging Cable
- Spare Propellers (set of 4)

3. Product Overview

The Hubsan X4 (H107L) is a compact, palm-sized quadcopter designed for both indoor and outdoor flight. It features a durable one-piece main frame and a precision 6-axis gyro for stable flight. The quadcopter operates on a 4-channel 2.4GHz control system and includes a high-capacity LiPO battery.



Image: The Hubsan X4 (H107L) quadcopter, showcasing its compact design with four propellers and integrated lights.

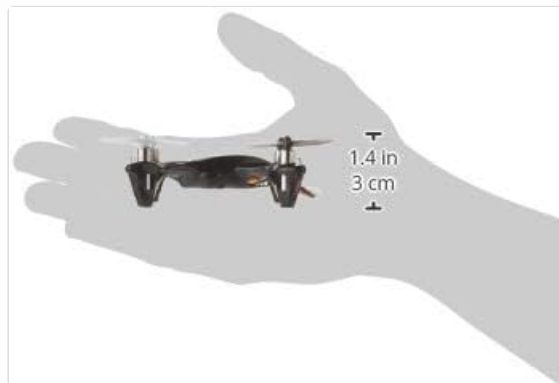


Image: The Hubsan X4 (H107L) quadcopter held in a hand, illustrating its small size (approximately 2.3 x 2.3 x 1 inches).

Key features include:

- Durable one-piece main frame
- Precision 6-axis gyro for stability
- 4-channel 2.4GHz control
- High capacity LiPO battery
- Stunt mode capability
- Built-in LED lights for visibility

4. Remote Control Overview

The 2.4GHz 4-channel transmitter provides precise control over the Hubsan X4. Familiarize yourself with its components:



Image: The Hubsan X4 quadcopter and its remote control, showing their relative sizes and some dimensions.

Key controls and indicators:

- **Display Screen:** Shows current settings and flight information.
- **Throttle/Rudder Stick (Left Stick):** Controls vertical movement (throttle) and rotation (rudder).
- **Elevator/Aileron Stick (Right Stick):** Controls forward/backward movement (elevator) and left/right movement (aileron).
- **Power Switch:** Turns the transmitter on/off.
- **Fine-Tuning Buttons:** Used to adjust the quadcopter's trim for stable flight.

5. Setup

5.1. Battery Charging

The quadcopter is powered by a 1S 240mAh 3.7V LiPO battery. Use the included USB charging cable to charge the battery. Connect the battery to the USB charger, then plug the USB charger into a compatible USB power source. The charging time is approximately 45 minutes to an hour.

5.2. Transmitter Batteries

The transmitter requires 4 AAA batteries (included). Install them into the battery compartment on the back of the transmitter, ensuring correct polarity.

5.3. Binding Procedure

To establish communication between the transmitter and the quadcopter:

1. Turn on the transmitter.
2. Connect the quadcopter's battery. The quadcopter's lights will flash.
3. Wait for the indicator light on the quadcopter to turn solid green. This indicates successful binding.

5.4. Accelerometer Calibration

Before each flight, calibrate the accelerometer on a flat and level surface to ensure stable flight and minimize drifting. Refer to the transmitter's display screen for calibration prompts.

6. Operating Instructions

6.1. Basic Flight Controls

- **Ascend:** Slowly push the left (throttle) stick up.
- **Descend:** Slowly pull the left (throttle) stick down.
- **Rotate Counter-clockwise:** Push the left (rudder) stick to the left.
- **Rotate Clockwise:** Push the left (rudder) stick to the right.
- **Fly Forward:** Push the right (elevator) stick up.
- **Fly Backward:** Pull the right (elevator) stick down.
- **Fly Left (Strafe):** Push the right (aileron) stick to the left.
- **Fly Right (Strafe):** Push the right (aileron) stick to the right.

6.2. Expert Mode

To enter Expert Mode, short press the right (elevator/aileron) stick. This mode increases the sensitivity and responsiveness of the controls, allowing for more agile maneuvers.

6.3. Roll Mode (Flips)

To perform a roll:

1. Long press the left (throttle/rudder) stick.
2. While in roll mode, operate the right (elevator/aileron) stick in the desired direction (forward, backward, left, or right) to execute a flip.

6.4. Headless Mode

To enter Headless Mode, short press the left (throttle/rudder) stick. In Headless Mode, the quadcopter's orientation is relative to the pilot, making it easier to control without needing to track the front of the drone.

6.5. Fine-Tuning

Use the fine-tuning buttons on the transmitter to make small adjustments to the quadcopter's flight characteristics if it drifts in any direction. Press the trim button opposite to the direction of drift.

7. Maintenance

7.1. Propeller Replacement

In case of a crash or damage, propellers may need to be replaced. The package includes spare propellers. Carefully remove the damaged propeller and install a new one, ensuring it is securely fitted. Using a U-wrench (not included) can help remove propellers without damaging the motor shaft.

7.2. General Care

Keep the quadcopter clean and free from dust and debris. Store it in a cool, dry place away from direct sunlight when not in use. Avoid exposing the electronics to moisture.

8. Troubleshooting

- **Quadcopter Drifts:** Recalibrate the accelerometer on a flat surface. Use the fine-tuning buttons on the transmitter to correct minor drifts.
- **Not Flying Level:** Check for bent or broken propellers and replace if necessary. Ensure all motors are securely attached. Perform accelerometer calibration.
- **Short Flight Time:** The battery may not be fully charged or may be nearing the end of its lifespan. Ensure the battery is fully charged before use. Consider replacing the battery if performance does not improve.
- **No Response from Quadcopter:** Ensure the transmitter and quadcopter are properly bound. Check that both the transmitter and quadcopter batteries are charged and correctly installed.

9. Specifications

Feature	Specification
Product Dimensions	2.3 x 2.3 x 1 inches
Item Weight	12.3 ounces
Item Model Number	61144
Manufacturer Recommended Age	14 - 15 years
Batteries (Quadcopter)	1S 240mAh 3.7V LiPO (included)
Batteries (Transmitter)	4 AAA batteries (included)
Control Channels	4 Channel
Frequency	2.4GHz
Flight Control System	6-axis gyro

10. Warranty and Support

For product support, warranty information, or to purchase replacement parts, please visit the official Hubsan website or contact their customer service. The official website can be found at: www.hubsan.com

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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