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Loolinn Z3

Loolinn Z3 Drone User Manual

Model: Z3

1. PRODUCT OVERVIEW

The Loolinn Z3 Drone is designed for beginners, offering stable flight and ease of use. It features optical flow positioning technology for intelligent hovering and includes a 720p camera for capturing aerial photos and videos. With three included batteries, users can enjoy extended flight times.



2. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- 1 x Loolinn Z3 Drone
- 1 x Remote Control
- 1 x User Manual
- 1 x Smartphone Holder
- 3 x Drone Batteries
- 2 x USB Charging Cables
- 4 x Rotor Blade Protectors
- 4 x Extra Propellers
- 1 x Screwdriver

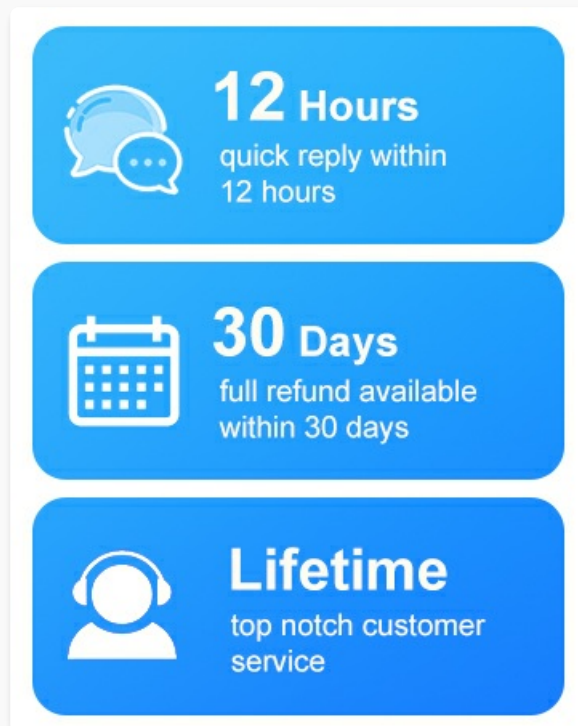


Image 2.1: Contents of the Loolinn Z3 Drone package, including the drone, remote, batteries, and accessories.

3. SAFETY GUIDELINES

Before operating the Loolinn Z3 Drone, please read and adhere to the following safety guidelines to ensure a safe and enjoyable experience:

- Always fly in open areas, away from people, animals, buildings, and obstacles.
- Avoid flying in strong winds or adverse weather conditions.
- Maintain a visual line of sight with the drone at all times.
- Ensure the drone batteries and remote control batteries are fully charged before each flight.
- Keep fingers and loose clothing away from rotating propellers.

- Do not operate the drone near airports or restricted airspace.
- This product is suitable for ages 14 and up. Adult supervision is recommended for younger users.

4. SETUP

4.1 Battery Charging and Installation

The drone comes with three 1500mAh Lithium Ion batteries. Each battery provides approximately 20 minutes of flight time. Use the provided USB charging cables to charge the drone batteries. A full charge typically takes about 35 minutes per battery.

1. Connect the USB charging cable to a power source (e.g., computer USB port, USB wall adapter).
2. Connect the battery to the charging cable. The indicator light on the cable will show charging status.
3. Once fully charged, disconnect the battery.
4. Insert a charged battery into the drone's battery compartment.

The remote control requires 4 AA batteries (not included). Open the battery compartment on the back of the remote and insert the batteries, observing correct polarity.



4.2 Propeller and Guard Installation

Attach the propeller guards to the drone's arms by snapping them into place. Ensure they are securely fastened. If replacing propellers, match the propellers marked 'A' with motor 'A' and 'B' with motor 'B'.

4.3 Smartphone Holder Attachment

Attach the smartphone holder to the top of the remote control. This allows you to mount your smartphone to view the drone's camera feed.

4.4 Pairing the Drone and Remote

1. Place the drone on a flat, level surface.
2. Turn on the drone by pressing the power button. The drone's indicator 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 and remain solid, indicating successful pairing.

4.5 Gyroscope Calibration

After pairing, calibrate the gyroscope for stable flight:

1. Ensure the drone is on a flat, level surface.
2. Push both joysticks on the remote control down and to the right simultaneously.
3. The drone's lights will flash rapidly and then become solid, indicating successful calibration.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Controls

- **One-Key Take-off/Landing:** Press the one-key take-off/landing button (usually marked with an arrow) to automatically take off or land.
- **Throttle (Left Joystick):** Push up to ascend, pull down to descend.
- **Directional Control (Right Joystick):** Push forward to fly forward, pull back to fly backward, push left to fly left, push right to fly right.
- **Yaw (Left Joystick Left/Right):** Push left to rotate left, push right to rotate right.

5.2 Optical Flow Positioning

The Loolinn Z3 Drone is equipped with an optical flow positioning sensor on its underside. This technology helps the drone maintain its position and hover stably, especially in indoor environments or areas with minimal wind. This feature contributes to easier control and clearer image capture.

Optical Flow Positioning Technology

very stable flight



Image 5.1: The Loolinn Z3 Drone utilizing its optical flow positioning technology for stable flight.

5.3 Camera Operation

The drone features a 720p camera for capturing photos and videos. To access the camera feed and control, download the dedicated Loolinn drone app on your smartphone and connect via Wi-Fi.

1. Download the Loolinn drone app from your smartphone's app store.
2. Turn on the drone.
3. Connect your smartphone to the drone's Wi-Fi network (usually named 'Loolinn_XXXX').
4. Open the app to view the live camera feed.
5. Use the app interface to take photos or start/stop video recording.



Image 5.2: A smartphone displaying the 720p live video feed from the drone's camera.

5.4 Special Features: 3D Flip

The Loolinn Z3 Drone can perform 3D flips. To execute a flip:

1. Fly the drone to a height of at least 2 meters (6.5 feet).
2. Press the 3D flip button on the remote control (refer to your remote diagram for exact location).
3. Immediately push the right joystick in the desired direction (forward, backward, left, or right) to perform the flip.



Image 5.3: The Loolinn Z3 Drone executing a 3D flip, demonstrating its acrobatic capabilities.

5.5 Flight Environment Considerations

The Loolinn Z3 Drone is lightweight (approximately 4.65 ounces) and can be sensitive to wind. For optimal performance and control, fly in calm conditions. The maximum control range is approximately 262 feet (80 meters).

6. MAINTENANCE

6.1 Battery Care

- Always use the provided charging cables.
- Do not overcharge or over-discharge batteries.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If not used for an extended period, charge batteries to about 50% capacity.

6.2 Propeller Replacement

In case of propeller damage, use the included extra propellers and screwdriver for replacement. Ensure the correct 'A' and 'B' propellers are installed on their respective motors.

6.3 Cleaning

Use a soft, dry cloth to clean the drone and remote control. Avoid using water or chemical cleaners, which can damage electronic components.

7. TROUBLESHOOTING

- **Drone not powering on:** Ensure the battery is fully charged and correctly inserted.
- **Difficulty pairing:** Make sure the drone and remote are turned on and within range. Repeat the pairing steps (Section 4.4).
- **Unstable flight:** Perform gyroscope calibration (Section 4.5). Avoid flying in windy conditions. Check for damaged propellers.
- **Poor camera quality:** The camera records at 720p resolution. Ensure good lighting conditions for best results.
- **Short flight time:** Ensure batteries are fully charged. Flight time can be affected by aggressive flying or strong winds.
- **Propeller damage:** Replace damaged propellers immediately using the spare parts provided.
- **Loss of connection:** If the drone loses connection with the remote, it will typically descend and land automatically. Ensure you are within the maximum range of 262 feet.

8. SPECIFICATIONS



Image 8.1: The Loolinn Z3 Drone's weight measured on an electronic scale.

Feature	Specification
Brand	Loolinn
Model Name	Z3 Drone

Feature	Specification
Special Features	3 Batteries, 3D Flip, 60 Minutes Long Flight Time (total), Optical Flow Positioning Technology, Stable Flight
Age Range (Description)	Kids, Teenagers
Color	White
Video Capture Resolution	720p
Connectivity Technology	Wi-Fi
Skill Level	Beginner
Item Weight	4.65 Ounces (approx. 131.7 grams)
Battery Capacity	1500 Milliamp Hours (per battery)
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Maximum Range	262 Feet (approx. 80 meters)
Material	Metal, Plastic
Battery Cell Composition	Lithium Ion
Supported Image Format	JPEG
Product Dimensions	12.6"L x 12.6"W x 1.97"H
UPC	768492333128

9. WARRANTY AND SUPPORT

Loolinn is committed to providing quality products and customer satisfaction. For any inquiries or support needs, please refer to the following:

- **Return Policy:** A full refund is available within 30 days of purchase.
- **Customer Service:** Loolinn offers responsive customer service, typically providing replies within 12 hours.
- **Replacement Parts:** For replacement parts such as propellers, please contact Loolinn customer

support or visit their official website.

For further assistance, please visit the [Loolinn Store on Amazon](#).

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