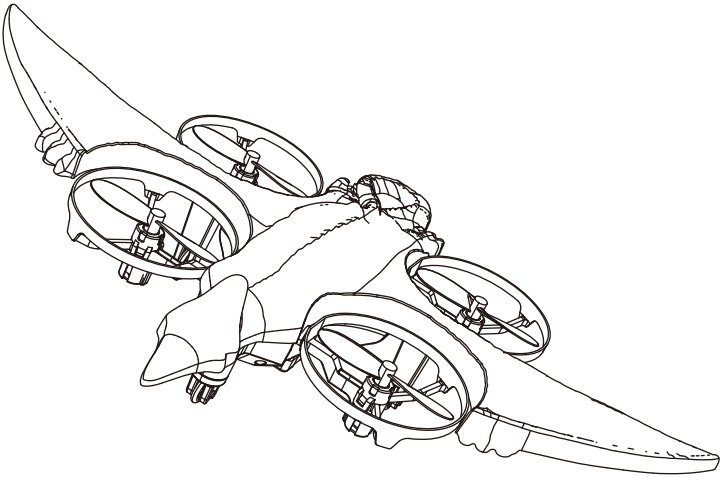
14+ AGES

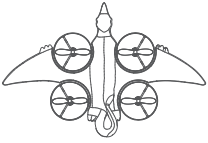
The aircraft is marketed as a "toy drone" intended for children's entertainment use; it must not be used for any other purpose that could compromise U.S. national security.

Z107 Aircraft
User Manual



To meet the electromagnetic environment requirements of aeronautical radio stations, all model aircraft and drones are prohibited from operation within the area 10 kilometers on both sides of the airport runway centerline and 20 kilometers from both ends of the runway, as well as along civil aviation airways and routes. Operation of all model aircraft and drones shall also be suspended in no-fly zones designated by relevant national authorities.

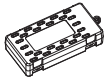
Packing Material List



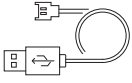
Aircraft ×1



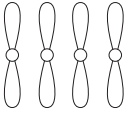
Remote Controller ×1



Lithium Battery ×1



USB Charging Cable ×1



Propellers ×4

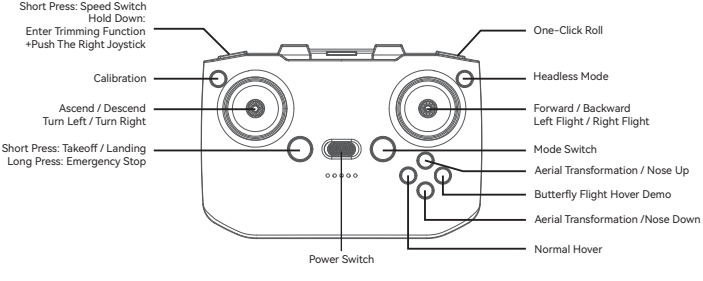


User Manual ×1

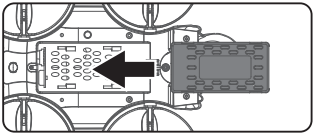


Screwdriver ×1

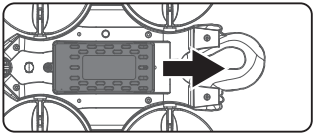
Remote Controller Function Introduction



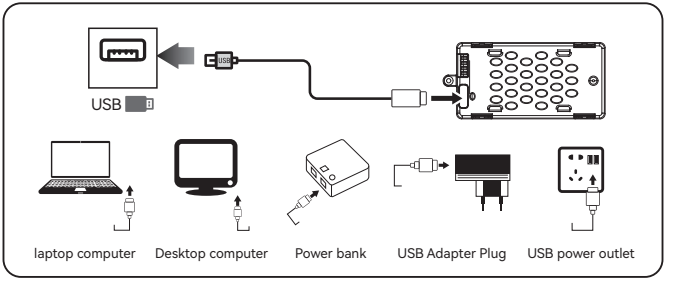
Lithium Battery Charging Instructions



As figure: Insert the battery into the slot, then push it forward into place to install the battery.



As figure: Push battery backward to remove.



Plug the USB end of charging cable into laptop/desktop USB port (or 5V-2A power adapter), then connect the other plug to battery port.The indicator light stays on during charging and turns off when fully charged.

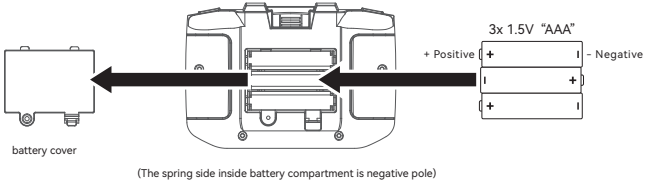


You must use the charging cable provided by our factory to charge the aircraft. Do not use any other charging cables. Remember this to avoid unexpected hazards.

Remote Controller Battery Installation

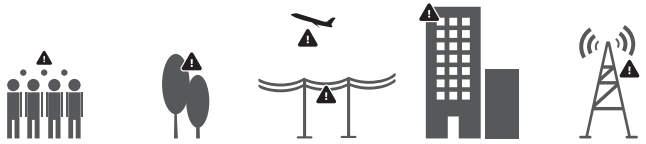
Install Battery:

Slide open battery cover, insert three 1.5V AA batteries with correct polarity, then slide cover closed.



(The spring side inside battery compartment is negative pole)

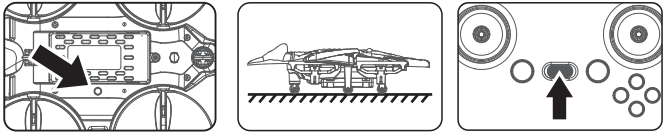
Flight Environment Requirements



Fly outdoors in open areas without snow, rain or strong wind. Keep away from crowds, trees, power lines, tall buildings, airports and signal towers. Do not fly indoors in small cluttered spaces.

Pre-Flight Preparation Instructions (Remote Controller Operation)

1. Bind remote controller to aircraft before takeoff



Turn on the aircraft power switch first; the aircraft indicator flashes, place the aircraft on a horizontal surface. Then turn on the remote controller power switch, its power indicator flashes, and the two devices automatically enter pairing mode. When you hear a "beep" sound and both lights stay steadily on, pairing is completed.

Note: Align the aircraft properly with the nose pointing straight ahead and ensure it is placed on a level surface.

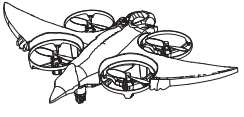


The aircraft / remote controller must have sufficient battery power; otherwise, it cannot take off!

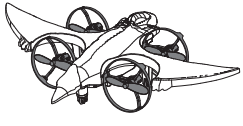
2. Land and Air Dual Modes

Do not manually twist the propeller angle; operate only via remote control buttons. If propellers are stuck at abnormal angles due to manual twisting, power off and restart the aircraft, which will automatically reset propellers to default horizontal position.

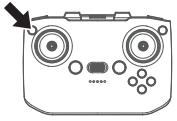
Flight Mode



Land Mode



Calibration



Before takeoff, short-press this button when the aircraft is level. The aircraft enters calibration mode with flashing lights and swinging propellers. Calibration finishes in about 1 second, then lights stay solid on.

If the aircraft collides with obstacles and vibrates during flight, errors will occur in the built-in gyroscope data, causing the aircraft unable to hover steadily in the air. At this time, land the aircraft on a horizontal surface and perform recalibration to reset internal data to factory status, then you can take off again.

Takeoff (Three Methods)

1. Short press the button on the remote controller (Figure 1). The aircraft will automatically rise to around 1.5m and hover stably at this altitude.
2. Push the left joystick of the remote controller upward (Figure 2). The aircraft propellers will start rotating; push it upward again to take off.
3. First press mode switch button ① (Figure 3), the aircraft propellers rotate forward, then press one-click takeoff button ② (Figure 3), the aircraft will slide and take off from the ground.



Figure 1



Figure 2

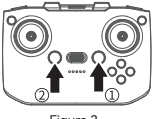


Figure 3

Landing / Emergency Stop

1. Pull down the remote controller joystick during flight (Figure 1), and the aircraft will start landing.
2. Short press the button on the remote controller during flight (Figure 2), the aircraft will land on the ground.
3. Long press the button on the remote controller during flight (Figure 2), the aircraft will stop running immediately and fall to the ground.

Note: The emergency stop landing operation carries certain risks. Do not use it casually to avoid hitting objects or people.

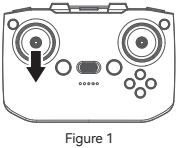


Figure 1

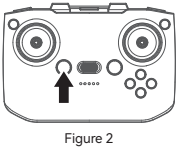
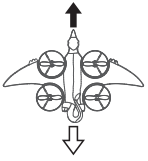


Figure 2

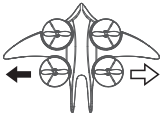
Trim Function

Calibrate the aircraft before takeoff. If the aircraft drifts significantly in the air after takeoff, use the trim function to stabilize it.

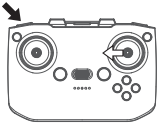


If the aircraft drifts forward or backward while hovering, hold down the trim button and push the right joystick in the opposite direction to adjust until the aircraft stays steady without drifting. Release the button to exit the trim function.

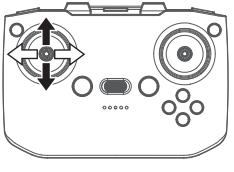




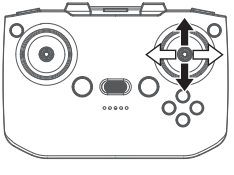
If the aircraft drifts left or right while hovering, hold down the trim button and push the right joystick in the opposite direction to adjust until the aircraft stays steady without drifting. Release the button to exit the trim function.



Basic Flight Control Instructions



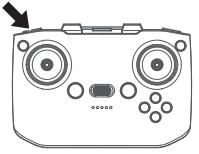
Push the left joystick upward, the aircraft ascends;
Push the left joystick downward, the aircraft descends.
Push the left joystick to the left, the aircraft turns left;
Push the left joystick to the right, the aircraft turns right.



Push the right joystick upward, the aircraft moves forward;
Push the right joystick downward, the aircraft moves backward.
Push the right joystick to the left, the aircraft flies left;
Push the right joystick to the right, the aircraft flies right.

Flight Speed Switch

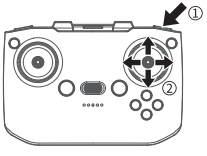
The aircraft defaults to low speed gear upon takeoff.
Short press the speed switch button on the remote controller during flight, The remote controller emits two "beep" sounds to switch to medium speed mode.
Press it again, the remote controller will make three "beep" sounds and switch to high speed mode.
Press once more, the remote controller will make a single "beep" and revert to low speed mode.

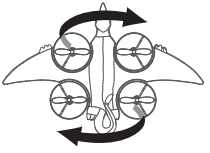


One-Click Roll

This aircraft can perform a 360° roll by pressing the roll button while operating the joystick. To ensure smooth roll execution, keep the aircraft approximately 1.5 meters above the ground (maintain sufficient distance from the ceiling when flying indoors to avoid collisions). It is recommended to perform rolls while ascending, which helps the aircraft maintain altitude more easily after completing the roll.

Short press the roll button ① on the remote controller during flight, and push the right joystick ② in the desired direction to perform the corresponding forward/backward/left/right rolling stunts.

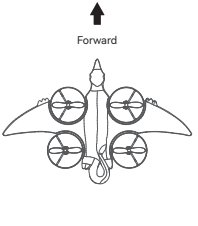


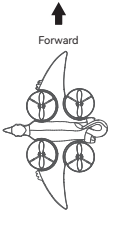


Headless Mode

Short press the button to activate Headless Mode. After entering Headless Mode, no matter which direction the aircraft faces, moving the right joystick will make the aircraft travel forward relative to the heading the aircraft faced before takeoff.



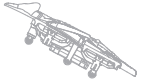




Propeller Deformation During Rotation

When the aircraft is airborne, short press the "Transform/Nose Up" button. The four propellers rotate forward simultaneously, lifting the nose of the aircraft to switch flight attitude mid-air.
Press the button again to exit this mode.





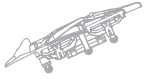
Transform/Nose Up



Horizontal Flight

When the aircraft is airborne, short press the "Transform/Nose Down" button. The four propellers rotate backward simultaneously, lowering the nose of the aircraft to switch flight attitude mid-air.
Press the button again to exit this mode.





Transform/Nose Down



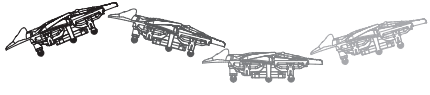
Horizontal Flight

Hover Function (Two Modes)

1. Butterfly Flight Hover Mode

When the aircraft is airborne, short press the button to enter the butterfly flight mode and hover in the air.

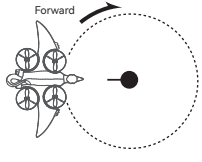




2. Normal Hover Mode

When the aircraft is airborne, long press the button to enter nose-down circling mode and fly in a sweeping orbit attitude.





Mode Switching

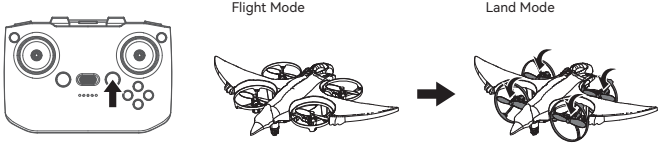


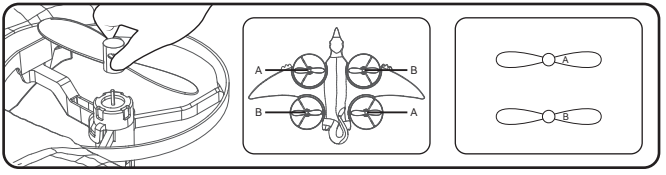
Figure 1

1. The aircraft defaults to Flight Mode upon power-on. In this state, the propellers are horizontal, and users can control the aircraft to take off.
2. When the aircraft is on the ground, press the mode switch button (Figure 1) to switch it to Land Mode. The propellers will tilt from their original horizontal position, allowing you to control the aircraft freely like a remote-controlled car.
3. When the aircraft is airborne, press the mode switch button (Figure 1) to activate butterfly flight mode, and the aircraft will hover in place. Operate both joysticks on the remote controller simultaneously to make the aircraft fly along butterfly trajectories in any direction.

Blade Position Diagram

Remove the propeller blades. When replacing, make sure to align them fully with the motor shaft and press down firmly. Take care not to deform the blades.

⚠ Note: The propellers are marked with characters A and B. Confirm the corresponding character of each propeller before installation (as shown in the figure); otherwise, the aircraft cannot take off normally.



Low Battery Voltage

1. If the aircraft indicator light flashes and the remote controller emits three consecutive "beep-beep-beep" sounds during operation, the aircraft battery is low. Stop flying immediately and charge the battery.
2. If the remote controller indicator light flashes and makes continuous intermittent "beep~beep~" sounds, the remote controller battery is low. Stop flying and replace the remote controller batteries.

Troubleshooting Guide

Problem	Cause	Solution
No response when operating the remote controller	1. The aircraft is not placed horizontally, resulting in pairing failure 2. The startup sequence of the aircraft and remote controller is reversed, causing the pairing time window to be missed	1. Place the aircraft on a horizontal surface, then power off the remote controller and restart it to re-pair 2. Power off the aircraft and remote controller, turn on the aircraft power first, then turn on the remote controller power for automatic re-pairing
The propellers rotate but the aircraft fails to take off	1. Insufficient battery power 2. Propeller deformation 3. Incorrect installation of A/B propellers	1. Charge the battery 2. Replace the propellers 3. Letters A/B are marked on propellers, please ensure propellers are installed correctly
Propellers cannot stay horizontal	Improper user operation or manually twisting the propellers	Power off the aircraft and restart it; the propellers will automatically reset to the horizontal position.
Trim adjustment is fully maxed out, yet the aircraft still cannot fly steadily	Propeller deformation	Replace the propellers
After a collision, restarting the aircraft causes it to fly erratically out of control	The three-axis accelerometer lost balance due to collision impact	Leave the aircraft stationary for 5 to 10 seconds, then recalibrate it, and the issue will be resolved.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device,pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.