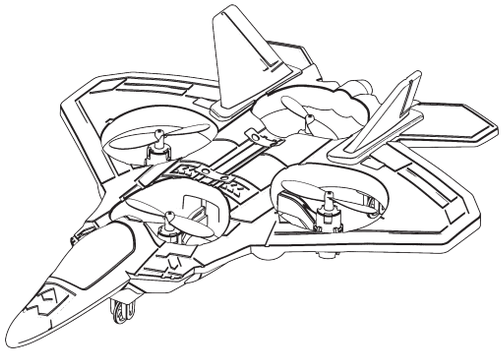
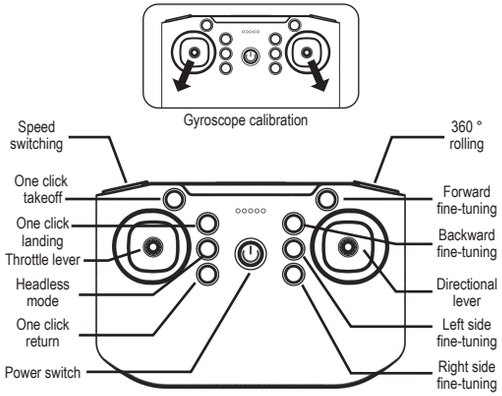
ages 14 and above

Multifunctional aircraft User manual



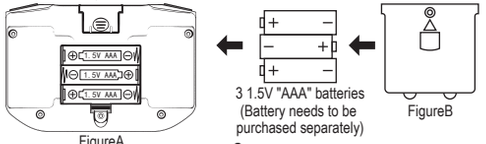
Thank you for purchasing our products. In order to use them correctly and ensure your safety, please read this user manual carefully before using the product and keep it safe for future reference.

1. Description of remote control function keys and names:



2. Remote control battery installation instructions:

1. Open the battery cover on the back of the remote control. (Figure A)
2. Install three 1.5V "AAA" batteries correctly according to the positive and negative pole instructions inside the battery box. (Figure B)
   Do not mix old and new batteries or different types of batteries.
3. Cover the battery cover.



FigureA

3 1.5V "AAA" batteries (Battery needs to be purchased separately)

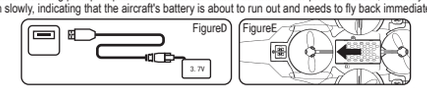
FigureB

3. Description of remote control function keys and names:

1. Insert the USB charging cable plug into the USB power socket, and then connect the other end to the lithium battery charging socket; When charging, the USB indicator light goes off, indicating that it is charging. When the uSB indicator light remains on, it indicates that the charging is complete, and the charging time is about 40 minutes. (Figure D) After charging is completed, install the lithium battery into the battery compartment as shown in the figure below. (Figure E)

⚠Special reminder: Please fully charge the battery before flying.

⚠Low pressure warning prompt explanation: When the aircraft enters the low pressure alarm, the body light will flash slowly, indicating that the aircraft's battery is about to run out and needs to fly back immediately.



FigureD FigureE

Attention:

1. Ensure that the voltage and plug of the charger comply with your local standards. (Batteries should be stored in a cool and shaded place to avoid direct sunlight)
2. When charging, if the charging plug overheats, it indicates overcharging and damage to the battery. In severe cases, it can cause permanent damage to the battery. Please stop charging immediately
3. Do not leave while charging.
4. This charging method adopts advanced balanced charging. For safety charging, do not use other chargers to charge the lithium battery casually, to avoid the risk of explosion.
5. When the aircraft has just completed its flight, it is best to wait for about 30 minutes for the battery temperature to cool before charging the lithium battery, otherwise it will be damaged. (When the aircraft is not in use, the battery needs to be removed and stored at 80% capacity to extend battery life)
6. Do not throw the battery into the fire to avoid the risk of explosion.
7. Do not short circuit the positive and negative terminals of the battery, and do not place the battery together with small metal parts to avoid the risk of explosion.

4. Safety instructions: Pre flight environmental requirements

Warning: Please choose an open indoor environment or an outdoor environment with no rain or snow, and wind force less than level 4. When flying, please stay away from crowds, trees, tall buildings with power lines, airports, and signal transmission towers. To fly in a safe area or away from others, do not control the aircraft over dense crowds. When flying remotely, accidents or malfunctions are likely to occur due to pilot operation errors or radio interference, which can cause damage or injury to the crowd. Please have an experienced pilot assist. The product is mainly suitable for those aged 14 and above, and there may be some difficulty in starting learning. It is recommended to seek guidance from an experienced pilot.

Security precautions:

1.To ensure the electromagnetic environment requirements of aviation radio stations; Prohibit the use of various model remotes within an area with a radius of 5000m centered on the center point of the airport runway. During the period when relevant national departments issue radio control orders and within the region, the use of model remote controllers should be stopped as required. Choose warm, sunny and windless weather to fly, and do not fly in severe weather conditions such as overheating, supercooling, strong wind and rainstorm; Choose an indoor or outdoor open space and maintain a safe distance from people, pets, overhead electrical wires, and other obstacles, ensuring that there are no other uses of the same frequency; Do not let the plane out of sight;

2. After the aircraft is started, please do not come into contact with the high-speed rotating parts of the aircraft and maintain a safe distance from the high-speed rotating propellers to avoid the risk of strangulation. (including gears, rotors, etc.).

3. During and after use of the aircraft, the battery and motor will generate high temperatures. Please do not touch them to avoid the risk of burns.

4. Do not look directly at the light beam of the light-emitting diode to avoid affecting the eyes.

5. Instructions for pre flight preparation:

Aircraft frequency alignment

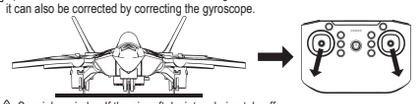
1. Install the battery of the aircraft and the battery of the remote control, turn on the power switch of the aircraft, the body light will flash, and then place it on a level ground. Turn on the power switch of the remote control, and the aircraft body light will remain on, indicating that the remote control has successfully synchronized.

(Important reminder: The product frequency must be operated according to the steps, otherwise poor connection and control may occur.)

2. Calibration of gyroscope operation:

After successful frequency synchronization between the aircraft and the remote control, the aircraft can be calibrated by turning the throttle control lever to the bottom left corner and the direction control lever to the bottom right corner. At this time, the aircraft indicator light will flash rapidly. When the indicator light remains on, release both control levers on the remote control to complete the calibration.

⚠ Special reminder: If the aircraft deviates during takeoff, it can also be corrected by correcting the gyroscope.

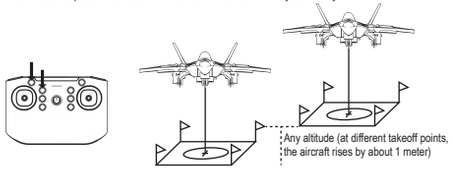


⚠ Special reminder: If the aircraft deviates during takeoff, it can also be corrected by correcting the gyroscope.

3. One click takeoff and landing

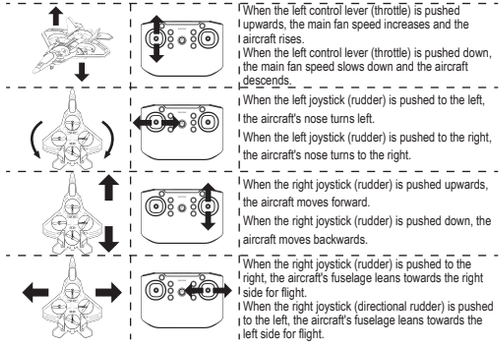
Short press the one click take off button on the remote control, and the aircraft will automatically rise to an altitude of about 1 meter, while maintaining a stable flight at this altitude; If you need to land, lightly touch this button again, and the aircraft will automatically land slowly on the ground.

⚠ Attention: One click landing must land on a horizontal plane, as the fixed altitude function landing not on a horizontal plane can cause the aircraft to deviate and fly randomly.



⚠ Flight Steps Reminder: Frequency Alignment (Reference 5.1) → Gyroscope Calibration (Reference 5.2) → One Key Takeoff/One Key Landing (Reference 5.3)

6. Control method:



When the left control lever (throttle) is pushed upwards, the main fan speed increases and the aircraft rises.
When the left control lever (throttle) is pushed down, the main fan speed slows down and the aircraft descends.

When the left joystick (rudder) is pushed to the left, the aircraft's nose turns left.
When the left joystick (rudder) is pushed to the right, the aircraft's nose turns to the right.

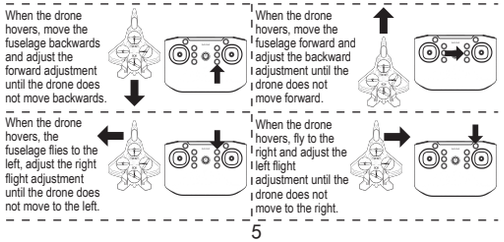
When the right joystick (rudder) is pushed upwards, the aircraft moves forward.
When the right joystick (rudder) is pushed down, the aircraft moves backwards.

When the right joystick (rudder) is pushed to the right, the aircraft's fuselage leans towards the right side for flight.
When the right joystick (directional rudder) is pushed to the left, the aircraft's fuselage leans towards the left side for flight.

WARNING When the aircraft is 30cm above the ground, it becomes unstable due to the influence of its own blade vortices, which is called "ground effect response". The lower the height of the drone, the greater the impact of ground effect response.

7. Fine tuning function:

If the drone is still drifting in the air without pushing the rudder control lever during flight, the fine-tuning function can be used to adjust the rudder. The operation method is as follows:



When the drone hovers, move the fuselage backwards and adjust the forward adjustment until the drone does not move backwards.

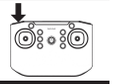
When the drone hovers, move the fuselage forward and adjust the backward adjustment until the drone does not move forward.

When the drone hovers, the fuselage flies to the left, adjust the right flight adjustment until the drone does not move to the left.

When the drone hovers, fly to the right and adjust the left flight adjustment until the drone does not move to the right.

8. Speed switching:

The default mode for aircraft startup is low-speed mode, which can be switched through the speed control button: "beep" once for low-speed mode, "beep~beep" twice for medium speed mode, and "beep~beep~beep" three times for high-speed mode.

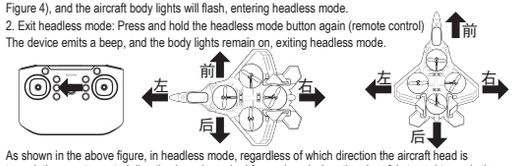


9. Headless mode:

1. Startup and setup:

When turning on the frequency, the front of the aircraft defaults to headless mode; If the collision occurs or the aircraft deviates from the front, please restart the aircraft and adjust it to the direction you need before performing frequency calibration; After successful frequency matching, the direction of the aircraft head is in front of the headless mode. Press and hold the headless mode button (as shown in Figure 4), and the aircraft body lights will flash, entering headless mode.

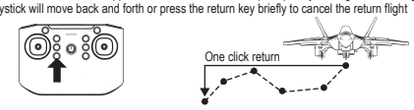
2. Exit headless mode: Press and hold the headless mode button again (remote control) The device emits a beep, and the body lights remain on, exiting headless mode.



As shown in the above figure, in headless mode, regardless of which direction the aircraft head is turned, the remote control direction lever is pushed forward, and when the aircraft is turned towards the startup frequency, the direction in which the aircraft head is moving.

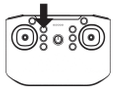
10. One click return:

When the aircraft flies a long distance, the return function can be used to recall the aircraft. During the flight, short press the return button to initiate the return. After starting the return flight, the aircraft will return in the direction opposite to the end of the startup frequency. During the return flight, the right joystick will move back and forth or press the return key briefly to cancel the return flight



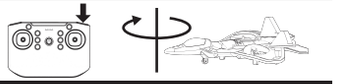
11. One click emergency stop:

When the aircraft collides during flight and cannot be controlled, please immediately press and hold the one button emergency stop button on the remote control. Use the emergency stop function button to achieve an emergency stop, which is not available under normal circumstances.



12. One click surround:

Logic surround key, fly arm rotates clockwise, cancel moment technique surround key

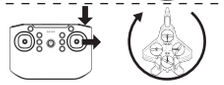


13. One click scrolling:

The aircraft can fly 360 degrees through the joystick operation below.
In order to better perform the roll function, please ensure that the aircraft has sufficient power and maintains a height of about 1.5 meters from the ground. It is best to operate the aircraft to roll during the ascent process, so that it is easier to maintain the height after rolling. When the electric broadcast is insufficient, rolling may cause height drop or inability to roll. Please charge it in time to experience more flying fun.

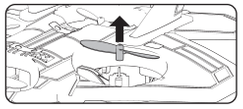
1. Left 360 ° Roll Short press the roll button, then push the right joystick to the left, and the aircraft will turn 360 ° to the left accordingly.

2. Right side 360 ° roll. Short press the roll button, then push the right joystick to the right, and the aircraft will turn 360 ° to the right accordingly



14. Blade installation:

Please remove the fan blades and replace them according to the diagram below. Ensure that all propellers are installed in the correct orientation; If installed incorrectly, the aircraft will not be able to fly normally.



15. Precautions:

1. Please ensure that the battery of the aircraft is fully charged. When the battery is low, the remote control distance will be affected.
2. If the aircraft's battery is insufficient, there may be insufficient flight altitude or takeoff difficulties.
3. If the aircraft is damaged or in shape, please repair it in a timely manner. In severe cases, such as rotor breakage or damage, do not fly, otherwise it may cause injury.
4. Do not let the aircraft fly at high altitude or collide severely, as this will damage the aircraft or shorten its lifespan.

16. Guidelines for Solving Common Problems:

problem	reason	Solution
Aircraft indicator light flashing, no response during operation	1. The frequency synchronization between the aircraft and the remote control was not successful 2. Insufficient aircraft battery	1. Re frequency the aircraft with the remote control 2. Charging the battery
Aircraft blades rotate but cannot fly	1. Insufficient battery power 2. Blade deformation	1. Charging the battery 2. Blade deformation
The aircraft is vibrating violently	Blade deformation	Replacing paddle blades
Fine tuned to the bottom, but still unable to make the aircraft stable	1. Blade deformation 2. Poor motor	1. Replace the propeller blades 2. Replace the motor
Starting the aircraft again after impact and flying uncontrollably	Three axis acceleration sensor loses balance due to impact	After allowing the aircraft to stand still for 5-10 seconds, or by correcting the gyroscope, it can be done
A motor does not rotate	Motor stuck	1. Clean the foreign objects and hair caught by the motor fan blades 2. Gently pull the wind blade upwards, restart and calibrate the gyroscope before takeoff

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.