iEagle 1

Instruction Manual

SHENZHEN ART-TECH R/C HOBBY CO., LTD

CE 2200 ⓘ FCC ID: 2AEOIiEagle-A

Contents

※ Congratulations on purchasing our new quadcopter Explorer product. Please read thoroughly this manual to fully use and understand the product.

※ Specifications may change without notice, please refer to the real one for configuration.

※ If you have any question or concern regarding to our product, please contact the local dealer or our Customer Service Center.

Explorer Aircraft

Features

- Main Features: Configured with high efficient ESC, and PAC new technical system.
- Newest Technology: 500~800M WiFi remote Connection.
- Flight Mode: Manual Mode & Automatic Mode, switch as well.
- 2.4GHz wireless remote control, farthest control distance and highest control distance is 800M.
- One key go home system: Low voltage warning, support the automatic return system.
- Design the flight course on the ground station, control the flight by navigation.
- 9.5 inches propeller, the bigger size propeller could supply the stronger flight power.
- 11.1V power make the motor rotate faster, obtain the higher flight ability.
- Excellent industrial design, streamline fuselage and the proper weight make the flight and aerial photograph more stable.
- Integrated designed fuselage, make sure the safe flight in rainy and snowy weather.
- Configured with 6950mAh Lipo battery, flight time up to 30~35 minutes.

Powering on/off intelligent battery

Press the battery button once, then press and hold it for 3 seconds to turn on the battery.

Press the battery button once, then press and hold it for 3 seconds to turn off the battery.

When charging, press the battery button once, then press and hold it for 3 seconds to turn on the battery, then it starts charging.

Note: When the battery is powered off, pressing the battery button once will indicate the current battery level.

LED flight indicator

LED Status	Indication
Red/Blue LED blinks	Being initialized (Wait for a while)
Yellow LED both blinks	Mistake, the system refuses to unlock
Blue LED blinks	GPS searching
Green LED blinks	GPS received, ready to unlock
Green LED is on	GPS locks up and unlocks, ready to fly
Yellow LED blinks	Battery malfunction

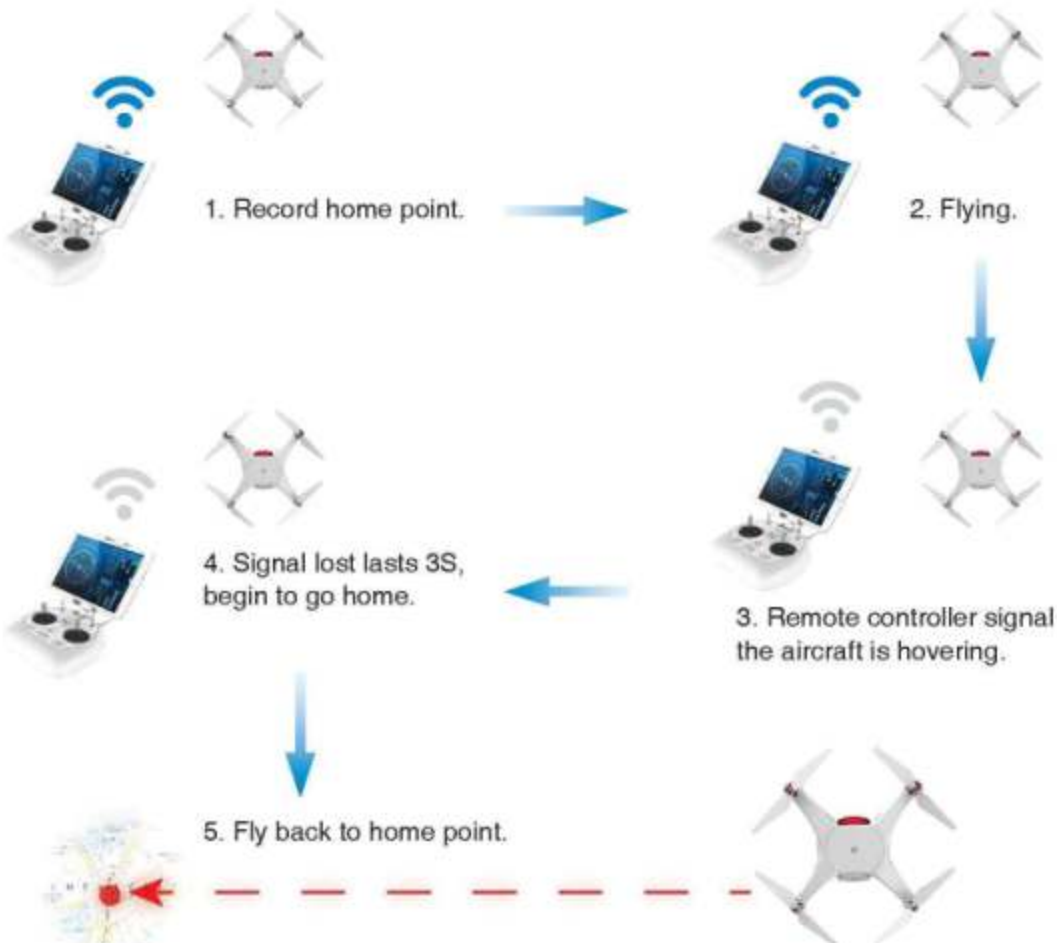
Functions

1. GPS location tracking.

2. One Key go home .

If there is any difficulty during flight, press RTL button and then the aircraft can fly back automatically to the launch point and land on.

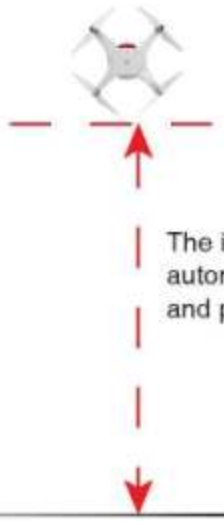
3. Failsafe function.



4. Battery power overload & low voltage warning,
automatically go home and land on under a certain low voltage.

If the battery voltage is lower than a certain value during flight,
the aircraft will fly back to the taking off position and land on.

5. Altitude lock, position holding function.



The integrated GPS auto-pilot system offers
automatically stable hovering, altitude lock
and position holding during flight.

6. Ground station flight course.

Take off/Landing on Steps

1.Start by placing the Explorer on the ground with the battery level indicator facing you.

2.Power on the remote controller firstly, and then turn on the battery.Wait until theLED flight indicator starts to blink green/yellow slowly. This means the aircraft is initializing and entering the Ready to Fly. Then proceed to execute the CSC command, and start the motors.

3.Push the throttle stick up slowly to lift the aircraft off the ground. More details refer to Remote Control Operation.

4.Pull down the throttle stick to descend, the aircraft will descend steadily.

5.After landing the aircraft on the ground, keep the throttle stick at its lowest position for about 3 to 5 seconds which will automatically stop the motors.

Safety Attention

This Explorer is not a toy, not suitable for people under the age of 18 years old. Please carefully read the Instruction Manual, Quick start Videos and Disclaimer etc. before using the Explorer. Users should make every effort to fly regularly in order to improve your flightskills as an advanced level pilot. Please fly it safely and responsibly.Please follow the guidelines prior to flying your Explorer.

1. Power on the controller firstly (set the S2 switch to "Macro Motion" position, to prevent the aircraft from sudden and unexpected elevation changes), ensure both joysticks are at the mid-point position, then connect the battery of aircraft.

2. Please stand away from the rotating propellers and motors to avoid injury.

3. Be sure there are no distractions when you are flying.

4. Be sure you are in a very large open area. Be aware of your surroundings. Always fly in areas avoid of obstacles and away from traffic and people.

5.Do not fly the Explorer in bad weather such as big wind (more than moderate breeze), rain or fog.

6. Never fly over 120 meters height.

7. When training, stay behind your imaginary barrier and maintain a distance, never fly behind yourself.

8. When in doubt, please gently pull down on the throttle or press one key return-home and land it off.

9. Always power off the Aircraft before power off the transmitter, or the propeller might rotate at full speed and injury might occur.

10. Never charge the battery unattended, always charge the battery on a non-flammable surface and near non-flammable materials.

11.Do not panic and keep calm.

Intelligent Orientation Control (IOC) Mode

Under "lock mode", the nose direction is always forward direction

Under "unlock mode", wherever the nose is facing, the forward direction has nothing to do with nose direction.

Under "lock mode"

Under "unlock mode"

Under "RTL" (return-to-launch) mode, the Red LED is on and green LED is flashing (green LED is solid on under normal mode) Press "RTL" again if you want to stop returning.

The remote controller

Preparing the remote controller

Power on the remote controller

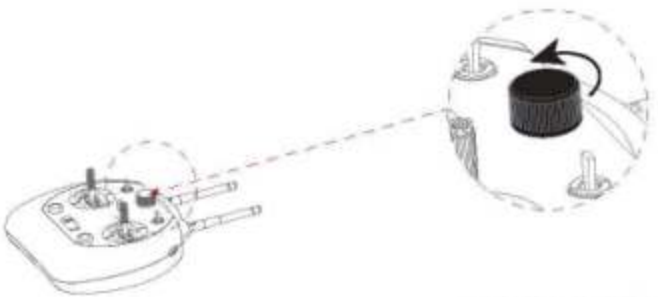
1. Install the 8 AA batteries (not included) into the battery compartment, according to the negative and position poles.

2. Set the S1 and S2 switches to the upper most position and ensure both joysticks are at the mid-point position. Then toggle on the power switch.

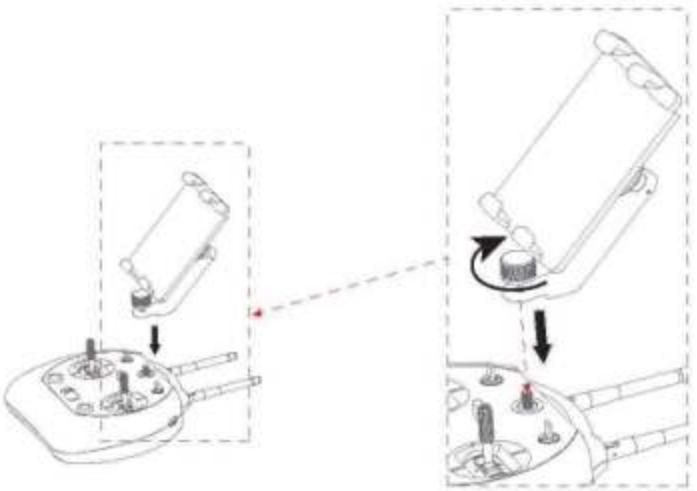
3. The power indicator is on, the remote controller starts to work normally.

> ⚠ **Note: please replace the AA batteries if there is warning sound like BB.....**

Assemble the mobile device holder

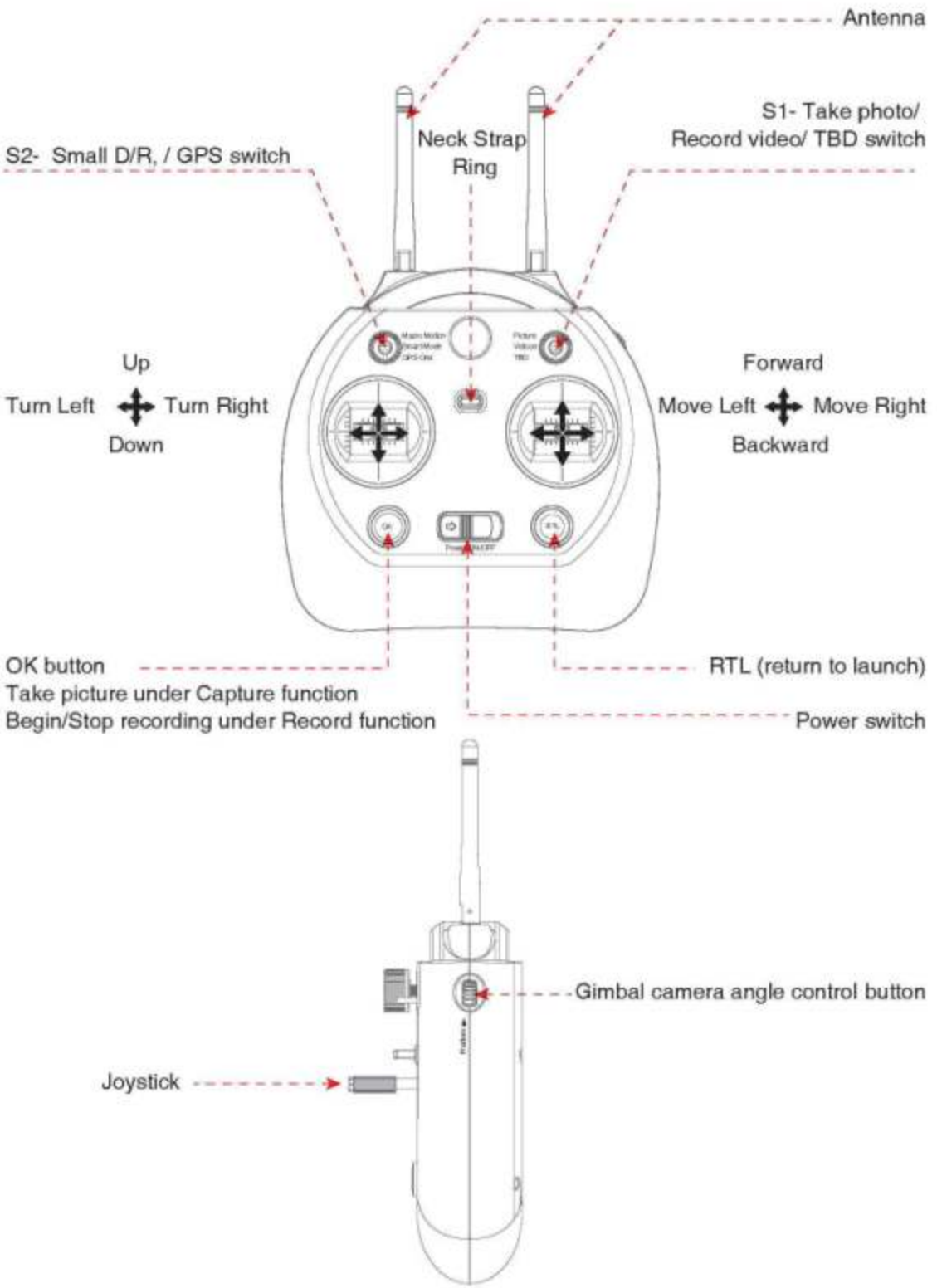


Unscrew the nut of mobile device holder.

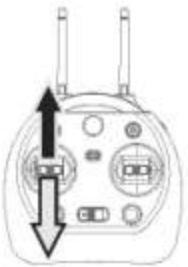
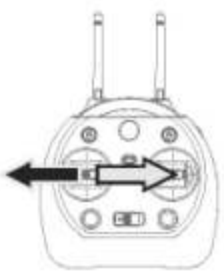
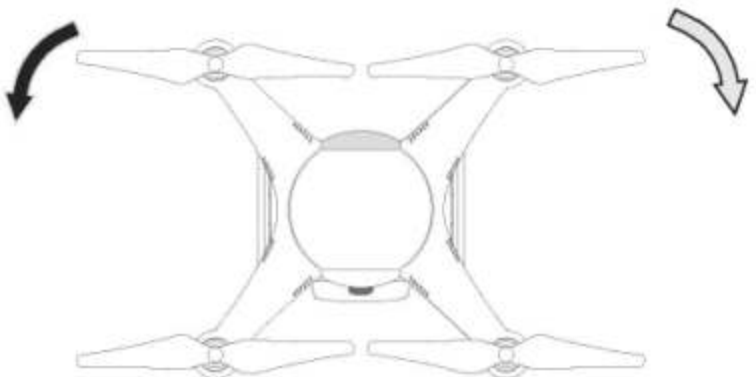


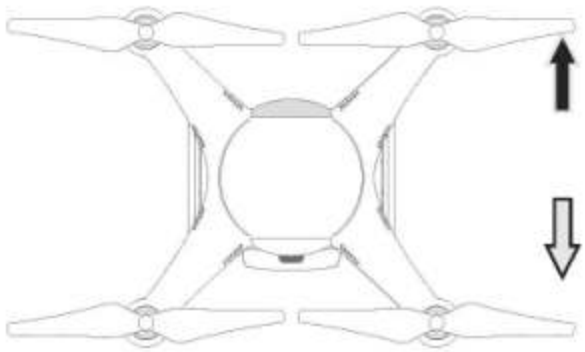
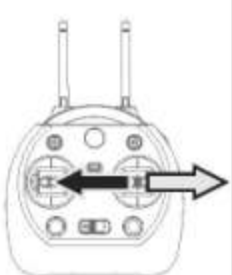
Adjust the holder to align with the carrying handle and tighten the nut to affix to the remote controller.

Introduction of Controller function



Remote controller operation

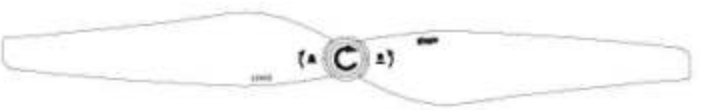
Remote controller (mode 2)	Aircraft (Red Indicator Light direction is Front Side)
	 The throttle stick controls aircraft altude/elevation. Push the stick up and the aircraft will rise up. Pull the stick down and the aircraft will descent. The aircraft will automatically hover and hold its height if the stick are centered. (self-altitude) Push the throttle stick above the centered (mid-point) position to make the aircraft take off. When flying, we suggest that you push the throttle stick slowly to prevent the aircraft from sudden and unexpected elevation changes.
	 The yaw stick controls the aircraft rudder. Push the stick left and the aircraft will rotate counter clock-wise. Push the stick right and the aircraft will rotate clock-wise. If the stick is centered, the aircraft will remain acing the same direction. The yaw stick controls the rotating angular velocity ofthe aircraft. Pushing the stick further away from center results in a faster aircraft rotation velocity.

Remote controller (mode 2)	Aircraft (Red Indicator Light direction is Front Side)
	 The pitch stick controls the aircraft's front and back tilt. Push the stick up and the aircraft will tilt and fly forward. Pull the stick down and the aircraft will tilt and fly backward. The aircraft will keep level and straight if the stick is centered. Pushing or Pulling the stick further away from center will result in a larger tilt angle (maximum of 35°) and faster flight velocity.
	 The roll stick controls the aircraft's left and right tilt. Push the stick left and the aircraft will tilt and fly left. Push the stick right and the aircraft will tilt and fly right. The aircraft will keep level and straight if the stick is centered. Pushing the stick further away from center will result in a larger tilt angle(maximum of 35°) and velocity.

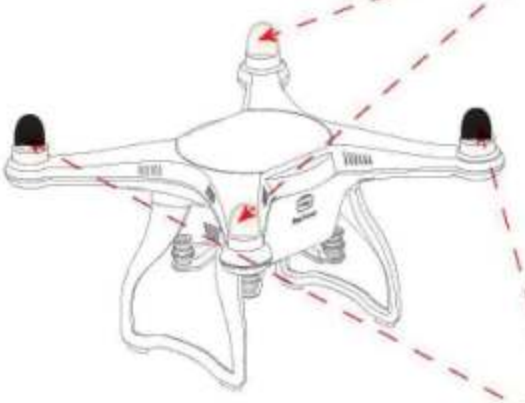
Explorer Propellers

Please use the originally configured 9.5 inch propellers, which are classified by their scheme. (Propeller with sign C refers to clockwise propeller, and the one with C refers to anticlockwise propeller. The propellers belong to consumable spare parts, but can be replaced by purchasing new ones.

Propellers Diagram

Clockwise propeller		
Anticlockwise propeller		
Lock		Tighten the propeller in this direction
Unlock		Remove the propeller in this direction

Propellers Assembly



Assemble clockwise propeller onto the motor with white nut.

Remove the nuts from the four motors. And then tighten the propellers onto the motors. Be sure to match the propellers with the motors and nuts according to the left picture shown, and then tighten the propeller well.

Assemble anticlockwise propeller onto the motor with black nut.

Removing method

Keep the motor deadlocked in place with assistant wrench (or one hand) and remove the propeller according to the unlock instruction.

Notes

※ Propellers are self tightening during flight. DO NOT use any thread locker on the threads.

※ Make sure to match the propeller nut colors with the corresponding motors.

※ It's advised to wear protective gloves during propellers assembly and removal.

※ Check the propellers and motors are installed correctly and firmly before every flight.

※ To avoid injury, DO NOT get close or touch the propellers or motors when they are rotating.

WARNINGS

1.This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment; this product complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this product. Such modifications or changes could void the user's authority to operate the product.

NOTE: 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:

a. Reorient or relocate the antenna. b. Increase the distance between the equipment and receiver.

c. Consult the dealer or an experienced radio/TV technician for help.

2. When using this product, ensure that the antenna of the device is not less than 20cm from any person.Due to the used enclosed material, this product shall only be connected to a USB interface of version 2.0 or higher. The connection to so called "power USB" is prohibited.caution: risk of explosion if battery is replaced by an inconnect type. dispose of used batteries according to the instruction.Art-Tech hereby declares that this product is in compliance with the essential requirements and other relevant provision of Directive 1995/5/EC.

3. Please note that this product is intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic law and regulation.You shall not use this product to:

a. Defame, abuse, harass, stalk, threaten or otherwise violate the legal right (such as right of privacy and publicity) of other. b. Photograph people on private property without their consent or photograph in areas where photography is prohibited without prior authorization. c. Use this product for any illegal or inappropriate purpose other than general personal use (such as spy, military operation, unauthorized investigation and unauthorized detection). d. Violate or disregard applicable local laws, administrative rules and social habits.

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