



TRIPLEFINE TF15-EX 3 Axis Gimbal Obstacle Avoidance Drones with 4K Camera Instruction Manual

[Home](#) » [TRIPLEFINE](#) » TRIPLEFINE TF15-EX 3 Axis Gimbal Obstacle Avoidance Drones with 4K Camera Instruction Manual 

Contents

- 1 [TRIPLEFINE TF15-EX 3 Axis Gimbal Obstacle Avoidance Drones with 4K Camera](#)
- 2 [FUNCTIONS](#)
- 3 [DISCLAIMER & SAFETY PRECAUTIONS](#)
- 4 [FCC Warning](#)
- 5 [EXEMPTION](#)
- 6 [FLY SAFETY](#)
- 7 [DRONE STRUCTURE](#)
- 8 [PRODUCT CONFIGURATION](#)
- 9 [PREPARATION BEFORE FLIGHT](#)
- 10 [ACCESSORIES INSTALLATION](#)
- 11 [CHARGING OF LITHIUM BATTERY](#)
- 12 [OPERATIONAL GUIDELINES](#)
- 13 [OPERATION AND CONTROL](#)
- 14 [BASIC ACTION OPERATING METHOD](#)
- 15 [REPLACEMENT OF FAN BLADE](#)
- 16 [TROUBLESHOOTING](#)
- 17 [LIST OF SPARE PARTS](#)
- 18 [Documents / Resources](#)
 - 18.1 [References](#)
- 19 [Related Posts](#)





Relay long-distance version 360° laser obstacle avoidance 3-axis stabilization self-stabilizing gimbal

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WhatsApp

FUNCTIONS



360° laser obstacle avoidance

4K

4K HD shooting



Time-lapse photography, vertical screen recording

11000ft

Ultra-long-distance high-definition image transmission



One-click spiral



One-click skyrocketing



One click fades away



High-definition aerial photography three-axis self-stabilizing gimbal



GPS positioning



Multi-point flight



Smart Track



Circled flight



One key return



Air pressure is set high



Optical flow fixed point

DISCLAIMER & SAFETY PRECAUTIONS

Thank you for purchasing the TF Drone. Please read all Disclaimer & Safety Precautions carefully before operating. Please read this instruction carefully before use, and keep it properly for reference.

IMPORTANT:

1. This product should be operated by the people who are over 14 years old. The aircraft consists of many precise electronic elements.; integrating machinery and electronics with air mechanics and high frequency

transmission. It requires correct assembly and debugging to avoid any accident. The user should operate and control this product in a safe manner. In case of incorrect operation, it may cause serious injury or damage to property. It can also be lost due to incorrect operation.

2. In the event of a problem during using, operating, or maintenance, please contact the retailer or keep in touch with the responsible staff of our company.

SAFETY PRECAUTIONS:

This R/C aircraft can be dangerous when in use, please make sure you keep it far away from any persons or spectators when flying. In-correct installation, poor conditions, or users not familiar with the operation may cause damage to the aircraft injure people, or may cause an unexpected accident. Please pay close attention to flying safety and learn to recognize more dangerous conditions that may cause an accident due to your own negligence.

1. Keep it far away from any structures or crowds.

This R/C aircraft may vary slightly in speed or sensitivity while flying and can cause potential danger.

Therefore, please keep it far away from crowds, buildings, trees, structures, high-voltage wire, etc. Please also avoid flying in adverse weather conditions such as rain, electrical storms, and high winds to ensure the safety of the user, any spectators, and the surrounding property.

2. Keep it away from any damp and hot environment.

The aircraft consists of many precise electronic elements. Therefore, moisture, High-temperature exposure, and other impacts must be avoided, so as to avoid any damage to the electronic elements.

3. Only operate with included parts for the intended use.

Please use the original parts made by TF DRONE for any re-equipping or maintenance to ensure flying safety. It is prohibited to charge with other chargers (except the original), so as to avoid short circuits, expansion, deformation, fire, explosion, and other risks. Please operate and use only under the scope of the product function permitted. Using unapproved parts will void the warranty.

If this product will not be used for a long period of time, please take out the battery to avoid leakage and fault. In case of any leakage of the battery, Please do not use it again.

4. DO NOT use for any illegal purpose or use beyond the scope of which your local laws and regulations have stipulated.
5. Do not operate under the influence of alcohol or drugs. Please operate this R/C aircraft according to your own state and flying skill. Any fatigue, bad mental state, or incorrect operation may increase the probability of accidental risk.
6. Please keep a safe range from aircraft when using top speed. When the operator is flying in high speed, please keep the aircraft far from the pilot and any surrounding persons or objects so as not to cause danger or damage.
 1. Please note that changes or modifications not expressly approved by the party responsible for compliance could void the use' s authority to operate the equipment.

WARNING

1. Our company and distributors which may cause loss or damage or injury to the body.
2. You have the responsibility to make sure that this model of aircraft
3. Please operate strictly as shown on the instruction manual when debugging or assembling this aircraft. During the process of flying or landing, please pay more attention to keep 1-2 meters between the user and the aircraft

to avoid colliding to the head or face or body, which may cause injury.

4. Children ages 14 and up should use this product under the guidance of an adult. This product is FORBIDDEN to be used by children under 14 years old.
5. Please correctly assemble and use this product as shown on the instruction manual or packing instruction. Some parts should be assembled by an adult.
6. Small parts are included with this product. Please place it beyond the reach of the children to avoid a CHOKING HAZARD or parts being mistakenly swallowed.
7. Keep your UAS within sight.
8. Never fly over groups of people.
9. Never fly over stadiums or sports events.
10. Playing on the road or near high traffic areas is strictly FORBIDDEN so as not to cause an accident.
11. Please dispose of the packing material timely so as not to cause injury to children.
12. Please DO NOT disassemble or re-equip the aircraft as it may cause a breakdown of the aircraft during flying.
13. Batteries in the battery compartment of the charger should be inserted into the designated power source which has the same logo as the product.
14. A charger is not a toy. Only the original charger made from our factory can be used. When charging the battery, please conduct it under the surveillance of an adult.
 1. Please also keep it far away from any combustible object when charging.
 2. Please keep this aircraft within eyesight when charging.
15. Please DO NOT make it short-circuited or squeeze the battery so as not to cause an explosion.
16. DO NOT mix the Li-ion battery with a different type of battery.
17. Intelligent lithium battery is loaded in the Quad-rotor. Both built-in or external can be used for charging.
18. Please DO NOT make the battery short-circuited over decompose the battery or throw the battery into the fire; DO NOT place the batteries near the high temperature or heated area (such as near the fire or near the electric heating device).
19. The aircraft should be kept far away from any other electric compliance or equipment as far as possible or kept far away from the place where having the magnetic object nearby as they may cause interference with each other.
20. Please keep the safe distance from the high-speed rotating rotor so as not to cause twisted or danger of being wounded or being cut.
21. Engine will heat up. Please DO NOT touch it to avoid being burned or injured.
22. Please DO NOT close this product to your ear as it may cause injury to your hearing.
23. Understand airspace restrictions and requirements. To comply with the command of the magnetic environment requirement formulated by the Aviation Radio Bureau and the related authority, during the regulated period in certain areas, please stop using the remote control of this model when such regulation command is issued.

WARNING: Product should only be used by adults and children 14 years and older. Adult supervision required for children under 14 years of age.

WARNING: CHARGING OF THE AIRCRAFT BATTERY MUST BE SUPERVISED AT ALL TIMES BY AN ADULT. UNPLUG THE BATTERY WHEN FULLY CHARGED. DO NOT OVER-CHARGE THE BATTERY.

FCC Warning

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

ATTENTION

• Remote Identification (Remote ID)

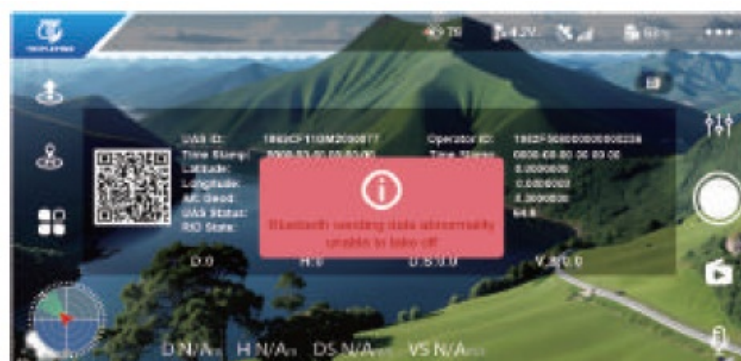
- What is it? The remote ID is the ability of a drone in the flight to provide identification and location information that can be received by other parties through a broadcast signal.
- Drones are fundamentally changing aviation, The FM is committed to working towards fully integrating drones into the National Airspace System (NAS). Beginning September 16, 2023, all Drone pilots who are required to register their UAS must operate in accordance with the rule on Remote ID. Safety and Security are top priorities for the FM and Remote ID for drones is crucial to our integration efforts.
- Why do we need it? Remote ID lays the foundation of the safety and security groundwork needed for more complex drone operations. Remote ID also helps the FAA, law enforcement, and other federal agencies locate the control station when a drone appears to be flying in an unsafe manner or where it is not allowed to fly. This is not a complete list of regulations, NOR is it legal advice. For more information, visit https://www.faa.gov/uas/getting_started

- **ATTENTION:** Click this icon to display the UAS ID, FAA registration and other information, long press to copy the serial number!



Scan the QR code to register and log in FAA

- After receiving the certificate of registration, you must mark your unique FAA registration number on the Drone by any means, such as permanent marker, label, engraving.
- This number must be readily accessible and maintained in a condition that is readable upon close visual inspection.
- **Warning:** Do not fly drone near airports or any other un-authorized areas. 5 miles from airports. Follow all rules for Federal Aviation Administration (FM) regulation summary for Small Unmanned Aircraft Systems(sUAS).
- **Read:** Academy of Model Aeronautics (AMA) Know Before You Fly important information brochure.



- If the RID Invalid, a red pop-up window will appear on the app, as shown in the picture.

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:
 - 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The frequency stability of all transmission frequencies of U-NII-1 meets the 47 CFR FCC Part 15.407(g) requirements, and the manufacturer states that their transmissions remain within the U-NII-1 band.

FCC RF Exposure Warning Statements: (Only for the aircraft)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

RF Exposure Information:(Only for the remote control)

FCC RF Exposure requirements: The highest SAR value reported under this standard during product certification for use next to the Limb with the minimum separation distance of 0mm. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

This product is compliance to FCC RF Exposure requirements and refers to FCC website <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID: 2BCO8-DRONE.

EXEMPTION

When using this product, TF DRONE shall not be responsible for direct or indirect damages caused by the following reasons:

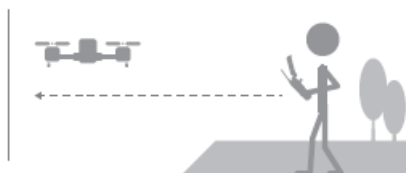
1. Other damage caused by poor operation of the Quadrotor due to re-equipment training or replacement of accessories or parts not produced by TF.
2. The damage caused by the user in the condition of drinking, drug taking, drug anesthesia, dizziness, fatigue, nausea, and other poor physical or mental conditions.
3. Personal injury, property loss, and legal liability caused by the user's subjective intention or wrong judgment.
4. Compensation for any related spiritual damage caused by the accident.
5. Damage caused by users flying in flight areas prohibited by laws and regulations such as nature reserves.
6. The Quad rotor sends the low-pressure alarm and still does not land, resulting in the Quadrotor falling down.

7. Damage caused by forced flight knowing that the Quadrotor is in an abnormal state (such as water, oil, soil, sand or other unknown substances mixed in or the assembly is not completed or the main components have obvious faults or the accessories have obvious defects or missing).
8. Damage caused by the Quadrotor flying in magnetic interference area, radio interference area (such as areas near high-voltage power lines, large power equipment, radio and television transmission towers, mobile phone base stations, etc.), no fly area specified by the government, or the user's vision is in backlight, blocked by obstacles, blurred vision, poor magic power, and other conditions unsuitable for control.
9. Fly in bad weather, such as rain or wind (more than level 4), snow, hail, or other bad weather.
10. The Quad rotor encounters collision, overturn, fire, explosion, lightning strike, storm, tornado, rainstorm, flood, tsunami, ground subsidence, ice subsidence, cliff collapse, avalanche, hail, debris flow, landslide, earthquake, etc.
11. Damage caused by infringement of any data, audio, or video data obtained by the user using the Quadrotor.
12. Any indirect losses or legal liabilities caused by problems with equipment or accessories, for example, images or videos that cannot be saved.
13. For the battery, such as damage caused by improper matching of the protection circuit, battery pack, and charger.
14. Losses or legal liabilities caused by the user's reckless unsafe flight without completing sufficient flight training.
15. The user promises to use the product only for legitimate purposes and agrees to abide by these terms and any relevant policies or guidelines that may be formulated by TF. Some details of this document may change with the upgrade of the product software version. Please read the upgrade details carefully before upgrading the software version. The instruction manual will be updated with or without prior notice.

FLY SAFETY

WIFI transmission area requirements:

1. Do not fly against the wind.
2. Make sure correctly open the remote control antenna.
3. Make sure to fly in the open area without any interference and obstacle .





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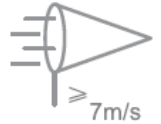
Fly in Open
Areas

Strong GPS
Signal

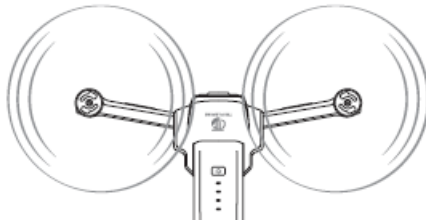
Maintain Line
of Sight



- Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport or bodies of water.
- DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.



- DO NOT use the drone in adverse weather conditions such as rain, snow, fog and wind speeds exceeding 7 m/s or 16 mph.



No Fly Zone

- It's important to understand basic flight guidelines, for the safety of both you and those around you. Don't forget to read the Safety Guidelines before flight.

TF DRONE APP

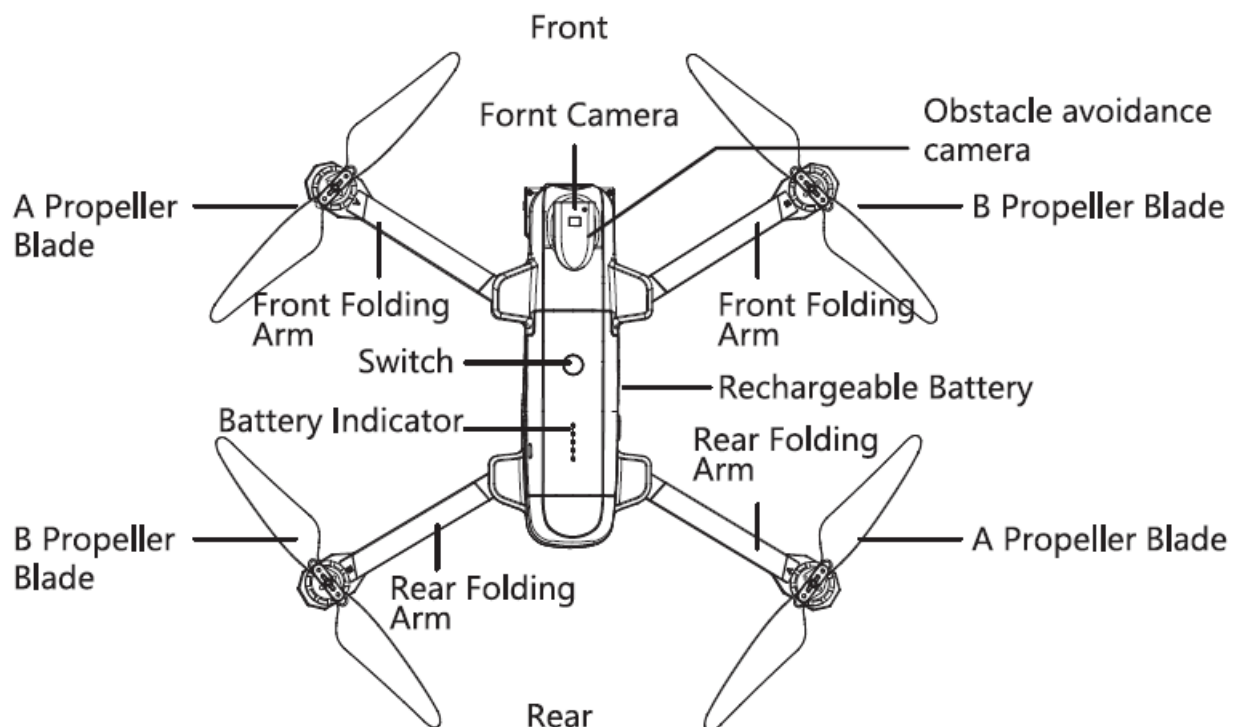
DOWNLOAD THE TF DRONE APP

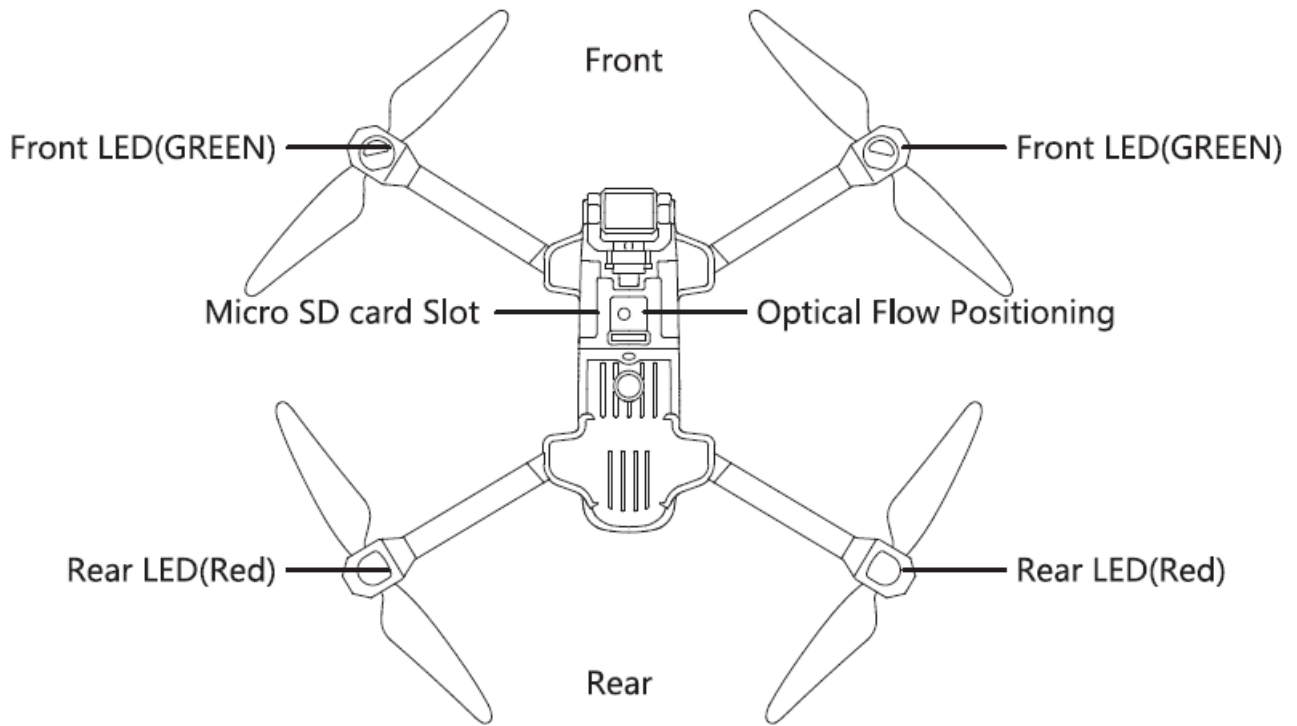


**QR code of "TF DRONE"
Software for your smartphone**

1. Prepare before take off: insert one end of the Type-C into the remote control, and then plug the other end of the Type-C line into the charging port of the mobile phone.
2. Wait 1 to 3 seconds after the remote control is connected successfully, the phone pops up to choose the input mode, please do not choose, just keep the default mode. After keeping the default transmission mode, the phone will pop up whether or not to open the TF DRONE app, and click OK.
3. After entering the APP home page, wait for the remote control to connect with the UAV, the waiting time is about 40-50 seconds, the remote control drips a green light and the aircraft LED light is always on (the LED light in the lower right corner of the room mode flashes slowly) indicates that the remote control is connected to the UAV successfully, after the successful connection, the APP home page will automatically refresh the version number, at this time you can enter the picture transfer interface and start flying.

DRONE STRUCTURE



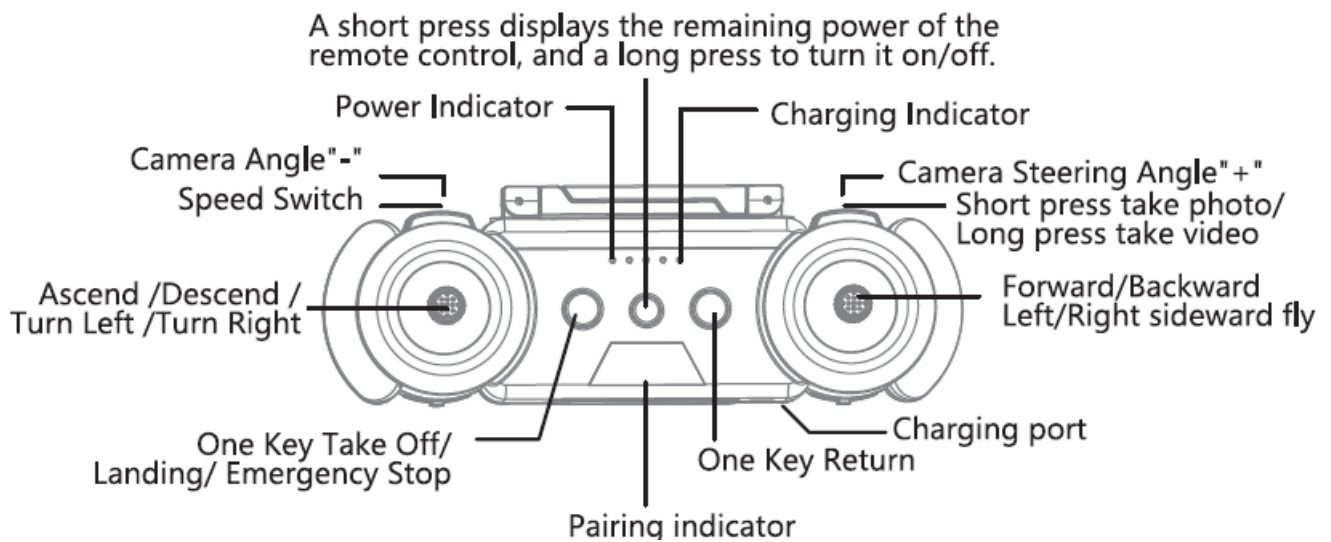


PRODUCT CONFIGURATION

- TF-1 SEX Drone X1
- Blade Screw X12
- Micro-USB *1
- Rechargeable Transmitter X1
- Instruction Manual x1
- Lightning *1
- Blade A x2 Blade B x2
- Batteries x2
- Accessory Package X1
- USB charging cable X2
- Gimbal Protective Cover*1
- Screwdriver X1
- USB Type-C *1

TRANSMITTER

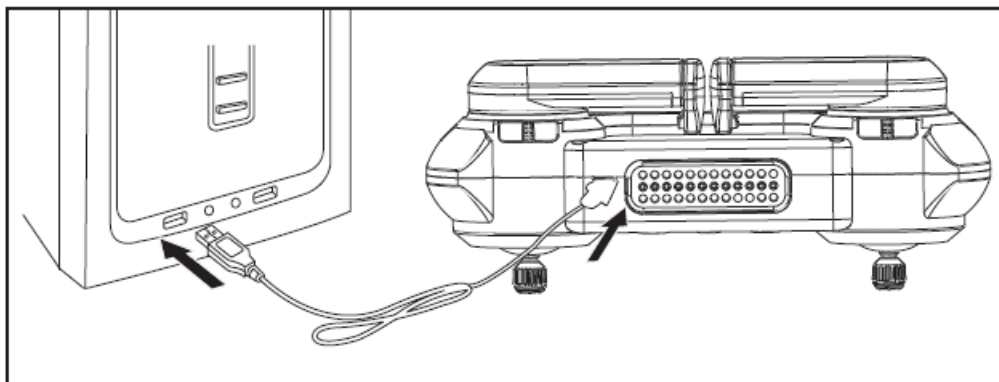
INTRODUCTION OF TRANSMITTER



When the white light is flashed, it is in the matching frequency state, and after successful frequency madding with the drone, the indicator light changes to a green light and is always on. When the remote control loses connection with the drone, The light turns to a red light and flashes.

REMOTE CONTROLLER'S BATTERY CHARGING

To charge the controller, plug the charging USB cable to the charging port of remote control, plug the other port of charging USB cable to the computer's USB port or other 5V USB port.



PREPARATION BEFORE FLIGHT

SELECT THE FLIGHT ENVIRONMENT

- Indoor flight Please choose an open space free from obstacle, crowd and pet around.



- Outdoor flight: Please fly in sunny and windless days or breeze days.



- Please maintain the unmanned plane within the range of visibility, and keep it away from the obstacle, high-voltage line, tress, crowd and other similar ones during the flight.

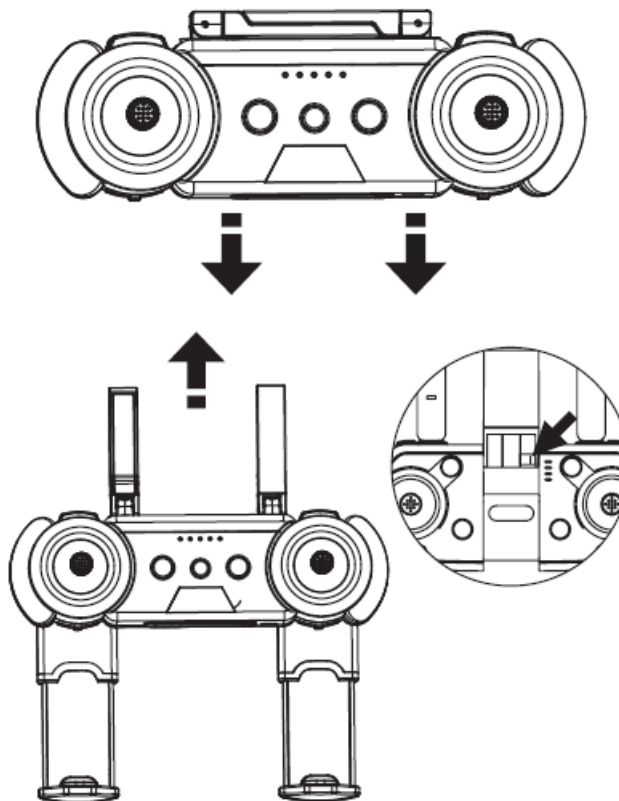


- Please do not fly under the extremely bad environment such as supercooling, superheating, strong wind and rainstorm.



ACCESSORIES INSTALLATION

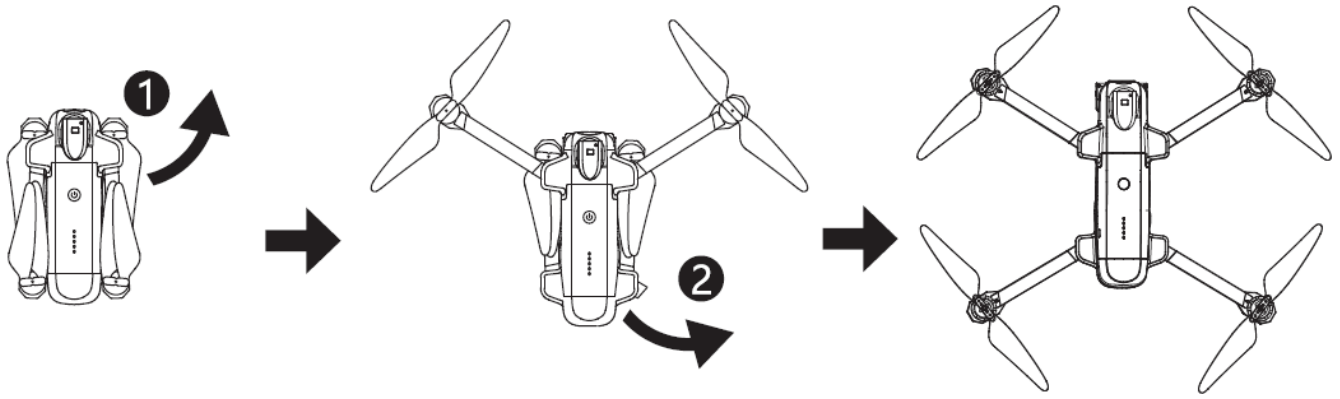
EXTENDED REMOTE CONTROL



- Push the smart phone holder up from the bottom of the controller and pull it to the top.
- Adjust the holder up to a suitable position for the mobile phone.
- Pull the left and right antenna stand (Antenna Rotatable)
- Open handles (Handle Rotatable)

Note: When retracting the phone holder, please toggle the buckle on the holder to the left, retract the holder inward.(As shown in the upper right corner picture)

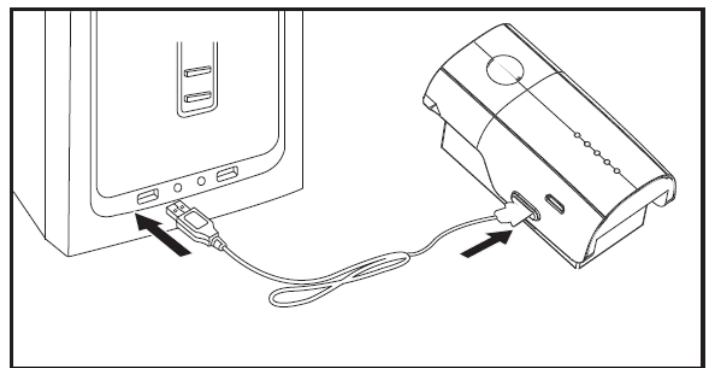
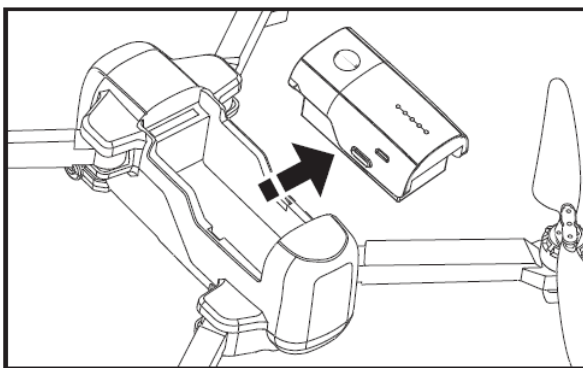
OPEN BLADES



- Extended the arms of quadcopter from top to bottom, rotate and clamp the arms to the position as shown in the figure.
- Please open the rear arms before opening the front arms.
- To stow the arms, rotate the arm back and push it back to the locker on quadcopter.

CHARGING OF LITHIUM BATTERY

- The battery pack may need charging before flying. How to charge the battery pack: release the battery cover by pressing down the bottom lock; connect the charging cable with the battery and charger (USB). The 5 LED lights shall flash during charging and keep light on when fully charged. It may take 420-500 minutes to charge to full. It enables 30 minutes flying.



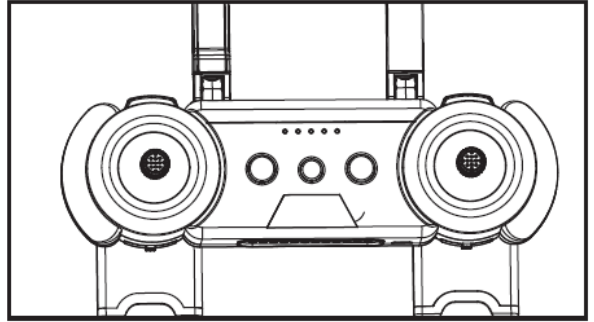
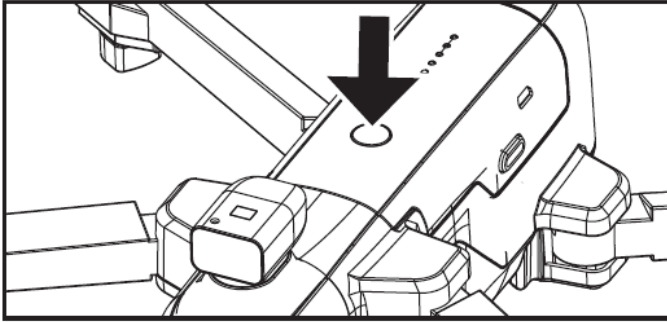
- If this product will not be used for a long period of time, please maintain 50% electric quantity, so as to lengthen the service life of the battery.
- To maintain 50% electric quantity, it only needs to charge for half the time of full charging.

OPERATIONAL GUIDELINES

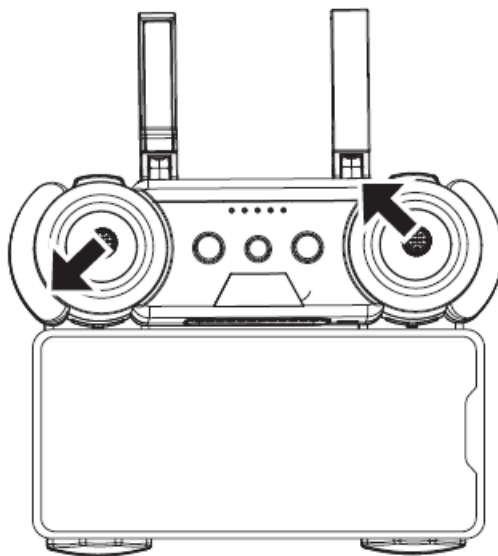
STARTUP PROGRAM

1. Plug the battery into the aircraft
2. Long press the aircraft power switch for 2 seconds. The LED lights under the four motor seats of the aircraft flash. Place the aircraft on a flat plane, when the drone indicator light flashes slowly, opening the remote control for frequency conversion.
3. Turn on the power of the remote control, the white indicator light flashes, the remote control and the drone enter the automatic frequency alignment function, no need for any operation at this time. Please wait patiently for 40 to 50 seconds after the remote control issues a sound of (beep), the frequency matching is successful.

The remote control indicator light turns green and keep light on, the LED light of the aircraft fuselage is always on [except for the slow flashing OF GPS indicator in the lower right corner]and the frequency matching of the aircraft is completed.



- Before flying, please calibrate the aircraft on a horizontal plane, and make sure stable flying after take-off.
- The aircraft is searching for GPS signal if the LED light at the bottom right corner flashed slowly. Light normally on indicates that the GPS signal light is normal and can take aerial photos
- It will automatically turn off if no operation within 5 minutes.
- The aircraft must be calibrated before flying, pull the left stick to the lower left corner, push the right stick at the same time to the upper left corner, the aircraft indicator light flashed into the gyroscope calibration, after the calibration is completed, the aircraft indicator keep light on. (Calibration is also available on the APP Calibration page)

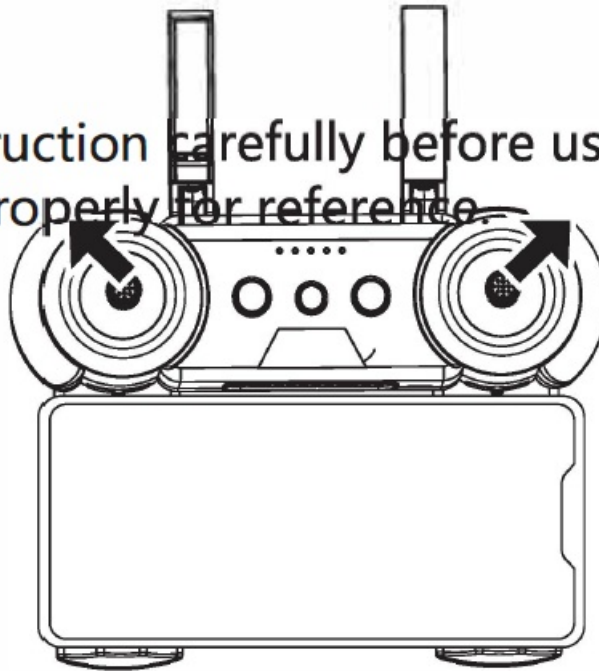


Gyroscope calibration

- After ,4 the next step is geomagnetic calibration. left corner, push the right stick to the upper tail light flashes into the horizontally for 3 turns, the remote control [drop] a prompt Ana then the aircraft vertically, the camera rotates upwards to the bottom of the aircraft Light slow flash. (Calibration is also available on the APP Calibration page)
- If the aircraft is unstable after the impact or collision of the aircraft during flight, the aircraft is placed on a flat surface, the aircraft is calibrated, and the 4 LED lights begin to flash and become solid to indicate that the aircraft calibration is successful.

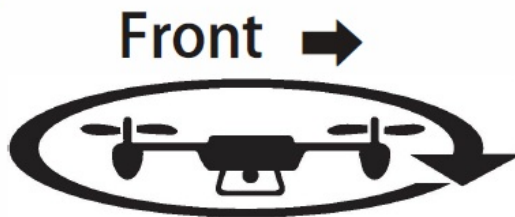
Please read this instruction carefully before use, and keep it properly for reference

Instruction carefully before use
properly for reference.

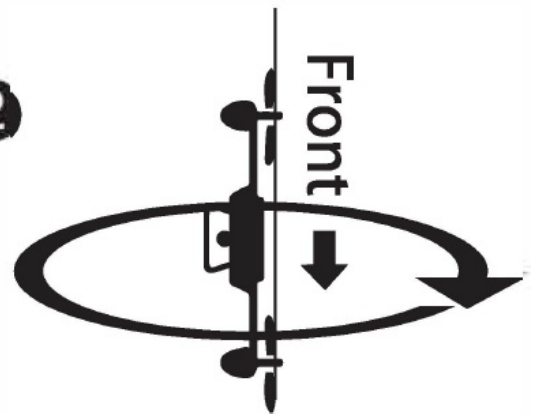


Geomagnetic calibration

1

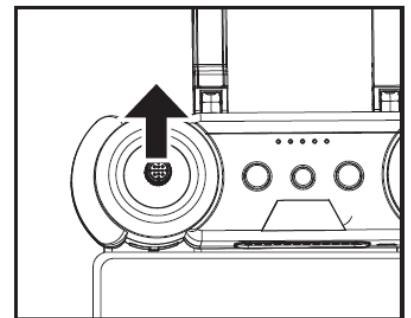
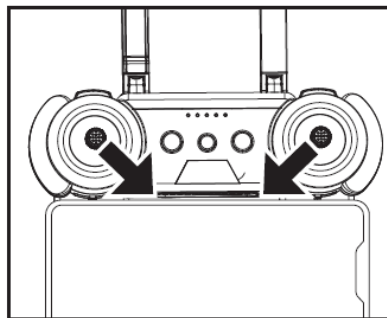
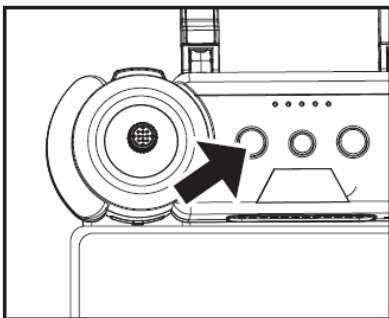


2



• If the drone enters emergency mode or loses control:

- When the drone enters emergency mode or loses control, the APP will prompt “WIFI has been disconnected” and the drone will automatically return to home.
- During the return-to-home process, keep the remote control powered on to prevent the aircraft from being disconnected from the remote control and causing the return-to-home position to deviate and facilitate adjustment of the return-to-home position.



- If the quadcopter lose GPS signal, the LED light on bottom right corner of the quadcopter will light and flash slowly. At this time, the quadcopter just could be started and enter optical flow height determination mode. Pull both two joystick to inner lower corner as shown in the figure 2, press the button for One Key of Take Off,

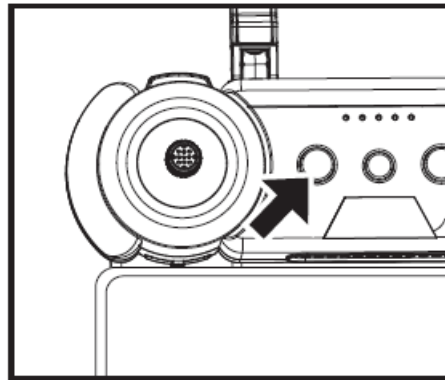
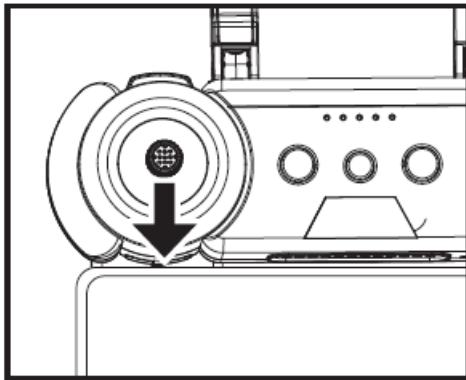
controller with a beep then the quadcopter takes off and keep fly in the sky at a settled height. You also could pull both joystick to inner lower corner, then pull the left joystick up to fly the quadcopter at a suitable height. (At this time, Fly back/ Fly circle/ Follow me function failed to start.)

How is Drone's self-test completed?

- Obstacle avoidance head detection: turn half a turn to the left and half a turn to the right. After the self-test is completed, the obstacle avoidance head returns to the center position;
- PTZ detection: rotate up and down, rotate left and right, swing left and right. After the self-test is completed, the camera returns to the horizontal center position;
- Signal detection: After the aircraft is turned on, the aircraft arm light
- flashes quickly. After the self-test is completed, the aircraft arm light
- flashes slowly, waiting for the remote control to be connected.

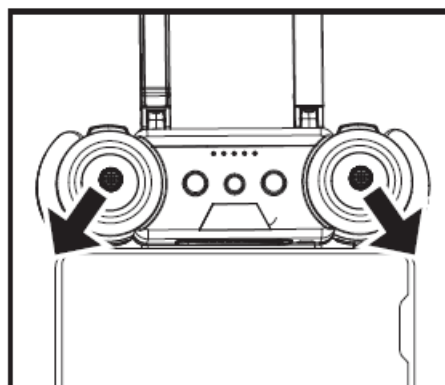
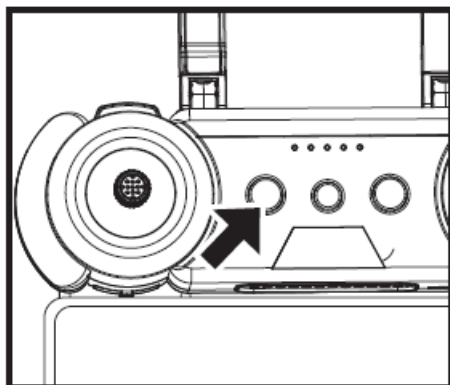
SHUTDOWN PROGRAM

The aircraft will land on the ground automatically by holding the accelerator at the lowest position. The paddles will stop rotating. The remote control will tick by pressing down the key on the bottom right of the left operating lever. At this time, the aircraft will land on the ground automatically, and the paddles will stop rotating.



EMERGENCY STOP

When encountering an emergency, you can press and hold the “one-key take-off” button, the remote control emits twice “beep” sounds then the aircraft stopped.



**All scram functions cannot be executed unless the aircraft is lower than 2M. The mode of automatic landing shall be executed if the aircraft is higher than 2M.

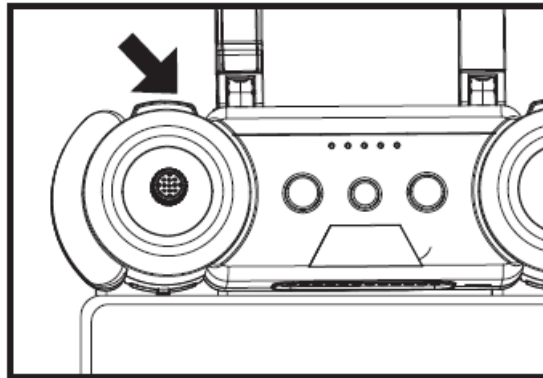
OPERATION AND CONTROL

SPEED THRESHOLD SWITCHING METHOD

While operating the aircraft, the operator can adjust the control speed according to specific needs. The key on the top left corner of the remote control is used for speed threshold switching. One gear of speed will be switched by

pressing it every time.

1. One “tick” sound stands for slow-gear speed control. In other words, the aircraft is operated under 30% speed (default starting speed).
2. Two “tick” sounds stand for mid-gear speed control. In other words, the aircraft is operated under 60% speed.
3. Three “tick” sounds stand for quick-gear speed control. In other words, the aircraft is operated under 100% speed.



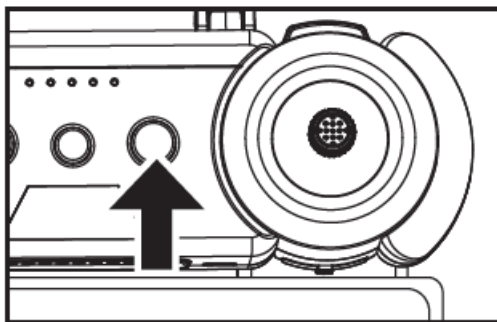
BASIC ACTION OPERATING METHOD


The aircraft will ascend or descend accordingly by pushing the left operating lever (accelerator) upward or downward.		
The aircraft will turn left or right accordingly by pushing the left operating lever (accelerator) toward the left or right direction.		
The aircraft will go forward or retreat accordingly by pushing the right operating lever (direction) upward or downward.		
The aircraft will fly on the left or right side accordingly by pushing the right operating lever (direction) toward the left or right direction.		

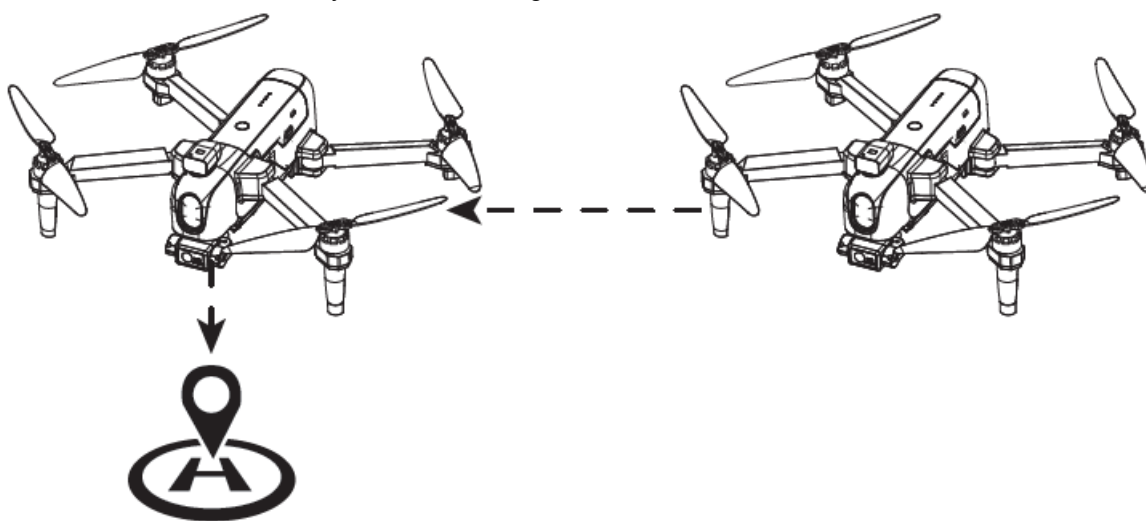
ONE-KEY RETURN

The remote control will tick by pressing the “One-key return” in the normal flying process of GPS. After the aircraft

nose turns to the take-off direction, it begins to return to the take-off place automatically. In the return process, operate the right operating lever to unlock the aircraft for return, or press again the “One-key return” for return



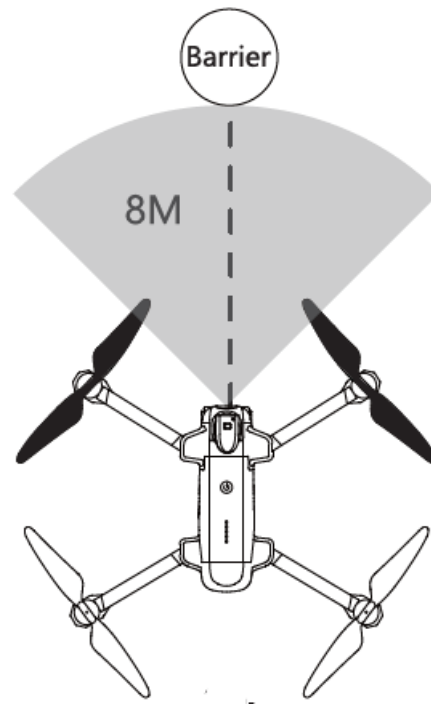
1. The aircraft will return automatically in case of low voltage. 
2. The aircraft will return automatically in case of signal losing.
3. The aircraft will return automatically in case of outage of the remote control.



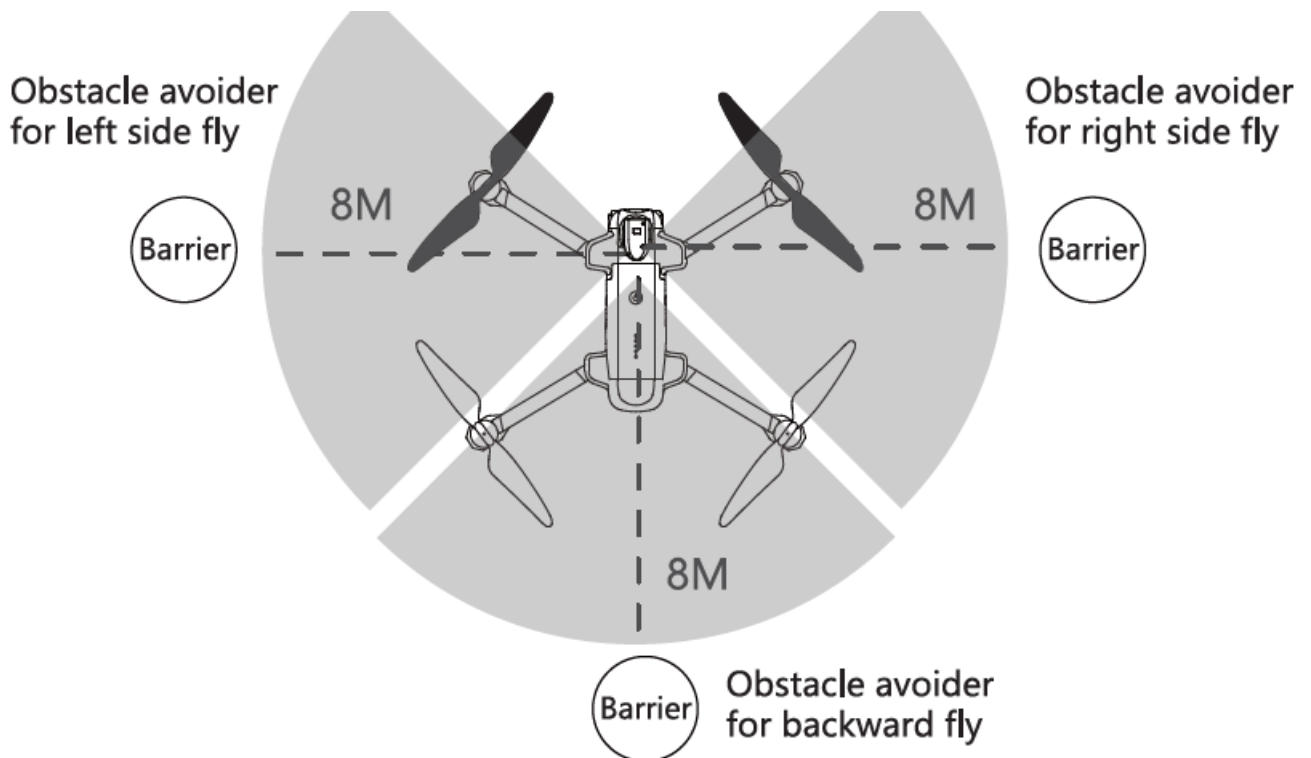
SMART OBSTACLE AVOIDANCE

1. When the drone is flying, 20 meters in front of the drone flight is the effective scanning range of the obstacle avoider, and the scanning path is scanned by about 90 ° between the two arms in the flight direction.

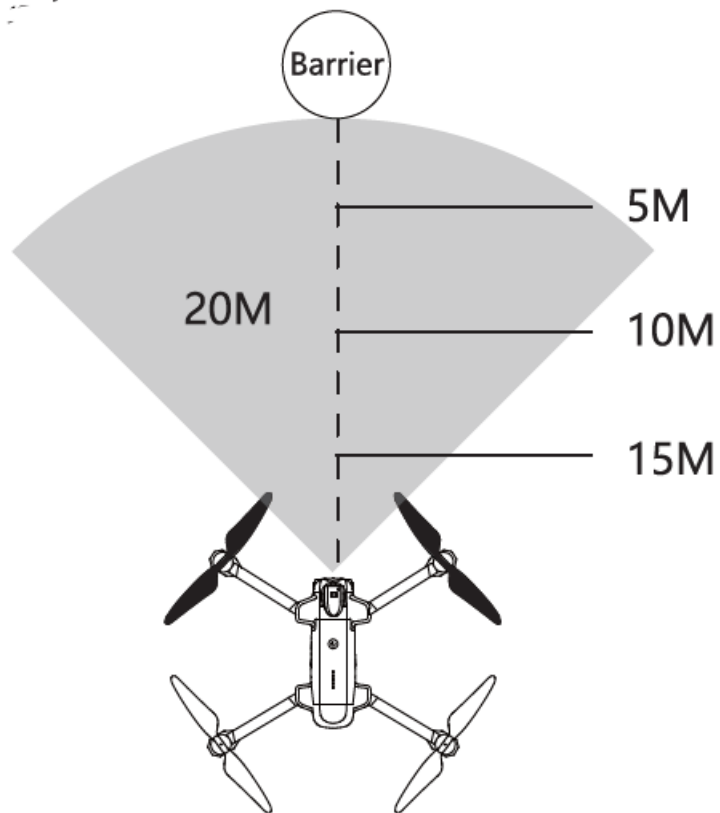
Front obstacle avoidance



2. When the drone fly to left side, the effective scanning range of the obstacle avoider is the left side of the drone for 20 meters, and the scanning path is scanned by about 90 ° between the two arms on the left side of the flight. When flying backwards or on the right, the range scanned by the obstacle avoider is the same.

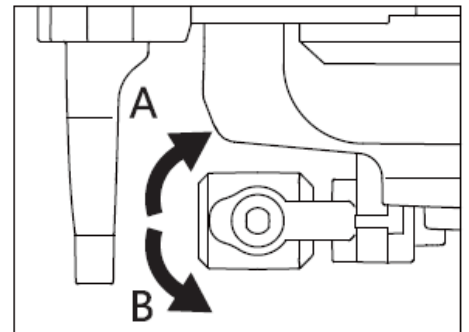
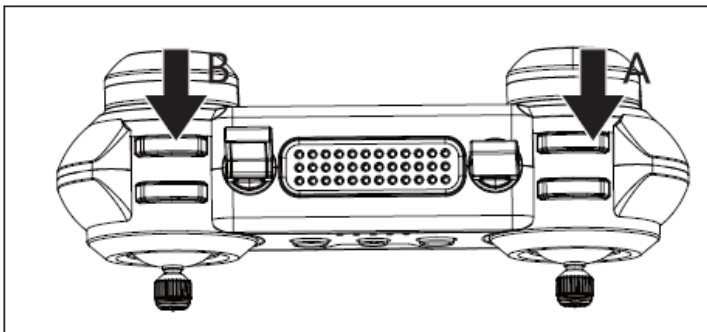


3. The position where the drone stops flying is determined by the flight speed. When the drone is flying at full speed at low speed, the drone starts to operate and issues a stop flight command after scanning the obstacle at 20 meters, and the drone stop flight position is determined by the flight speed. The faster the flight speed, the closer the distance between the drone and the obstacle, the slower the flight speed, the farther the distance between the drone and the obstacle.'



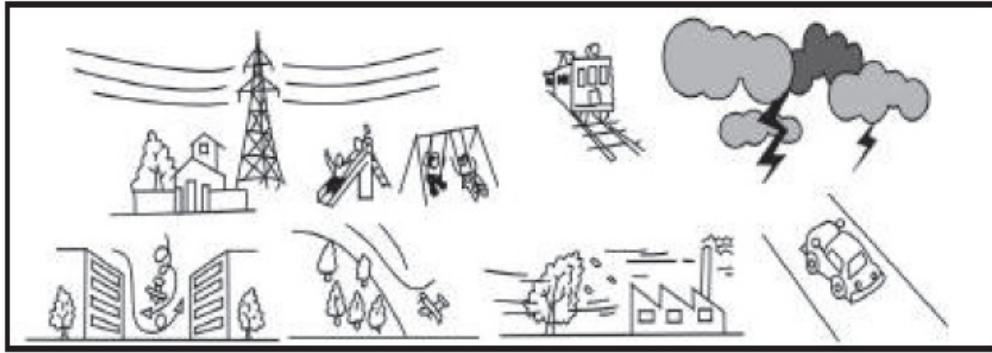
PTZ CAMERA CONTROL

- By turning the PTZ button on the remote control, you can adjust the shooting angle of the PTZ camera to 11 ~o experience a better aerial photography process.
- When the left button is pressed, the camera is adjusted in the direction of B; when the right button is pressed, the camera is adjusted in the direction of A.



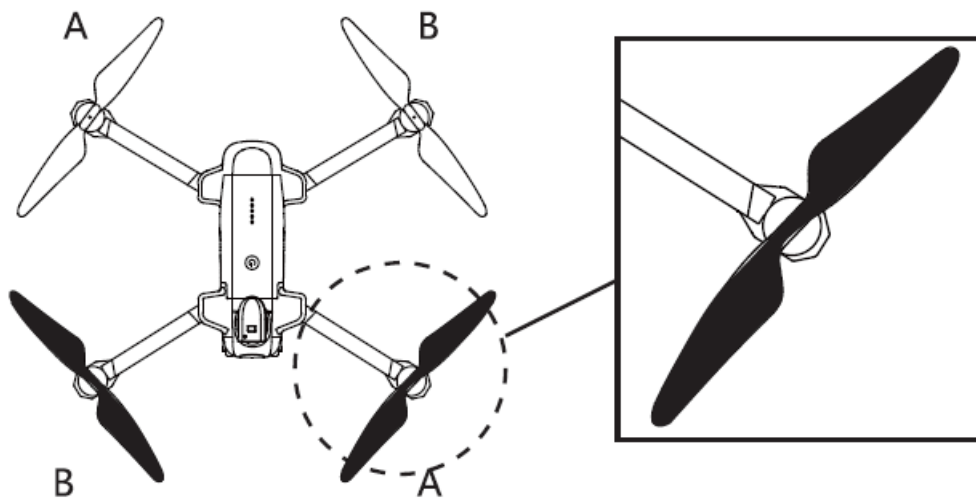
FLIGHT ENVIRONMENT

- Avoid flight in such environment, so as to avoid unintentional injuries or damage to the aircraft

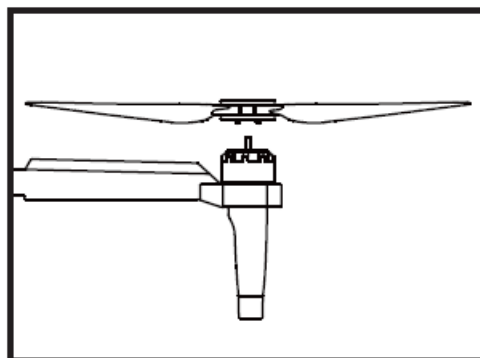


REPLACEMENT OF FAN BLADE

- In case of bruise or deformation, the user may take out the fan blades for replacement
- * The fan blades shall be installed at the required position. The letters on the blade must be consistent with the letters on the motor cover. namely •A• to “A• and •e” to “e• . Otherwise, the aircraft cannot take off normally.



1. Disassemble the anchor screws of the fan blade and the lower lampshade, and take out the damaged fan blade
2. Take out the new fan blade, align it with the screw hole. Lock the fan blade fixing screw. (Screw must be locked tightly)



TROUBLESHOOTING

Issue	Cause	Solution
The aircraft has no response.	<ol style="list-style-type: none"> 1. Unsuccessful coding; 2. Low voltage of the aircraft or the remote control 	<ol style="list-style-type: none"> 1. Code again; 2. Recharge the battery of the remote control 3. Recharge the aircraft
Failure to take off	<ol style="list-style-type: none"> 1. Wrong assembly of the fan blade; 2. Deformation of the fan blade after collision; 3. The LED light of the aircraft flickers. 	<ol style="list-style-type: none"> 1. Check the part of fan blade installation in the specification; 2. Strengthen or replace the fan blade; 3. Low-voltage protection or recharge the aircraft
Shaking of the aircraft	<ol style="list-style-type: none"> 1. Deformation of the fan blade after collision; 2. Offset of the gyroscope 	<ol style="list-style-type: none"> 1. Strengthen or replace the fan blade; 2. Check the part of gyroscope calibration in the specification
Delayed response or interrupted signal of the aircraft	Low voltage of the remote control	Recharge battery of the remote control
The aircraft cannot hover.	<ol style="list-style-type: none"> 1. The geomagnetism is not calibrated; 2. The gyroscope is not calibrated. 	<ol style="list-style-type: none"> 1. Calibrate the geomagnetism according to the specification; 2. Calibrate the gyroscope according to the specification
The LED light at the bottom right corner of the aircraft flashes slowly.	No GPS signal is searched.	<ol style="list-style-type: none"> 1. During startup for the first time, please wait patiently for GPS signal searching; 2. Change another place (excluding those places with large interference such as electric tower and high voltage electricity); 3. Please do not execute indoors, in the basement or some places without GPS signal
The four LED lights of the aircraft flash quickly.	Perform GYRO calibration	Put the aircraft on a horizontal plane
The two rear LED lights of the aircraft flash quickly.	Geomagnetic calibration	Refer to Page 2 on WIFI instruction Manual. the geomagnetic calibration

LIST OF SPARE PARTS

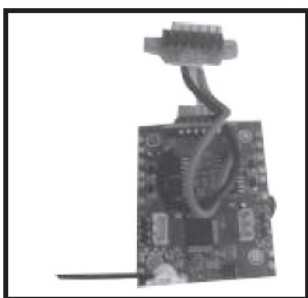
1. Top body
2. .Bottom body
3. .Blades
4. Transmitter



5. Rear arm
6. Pressure module
7. Camera
8. Front arm



9. Rechargeable battery
10. Brushless motor
11. Receiver board
12. GPS module




WARNING:

Please read the Instruction Manual carefully before using. Please keep it for further reference. Our company and distributors are not responsible for an loss and human injury caused by improper use or operation of this product.

— — — Thank you for purchasing this product and have a great time — — —

Documents / Resources

	<p>TRIPLEFINE TF15-EX 3 Axis Gimbal Obstacle Avoidance Drones with 4K Camera [pdf] Ins</p> <p>truction Manual</p> <p>TF15-EX 3 Axis Gimbal Obstacle Avoidance Drones with 4K Camera, TF15-EX, 3 Axis Gimbal Obstacle Avoidance Drones with 4K Camera, Obstacle Avoidance Drones with 4K Camera, Av</p> <p>oidance Drones with 4K Camera, Drones with 4K Camera</p>
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References

- [User Manual](#)