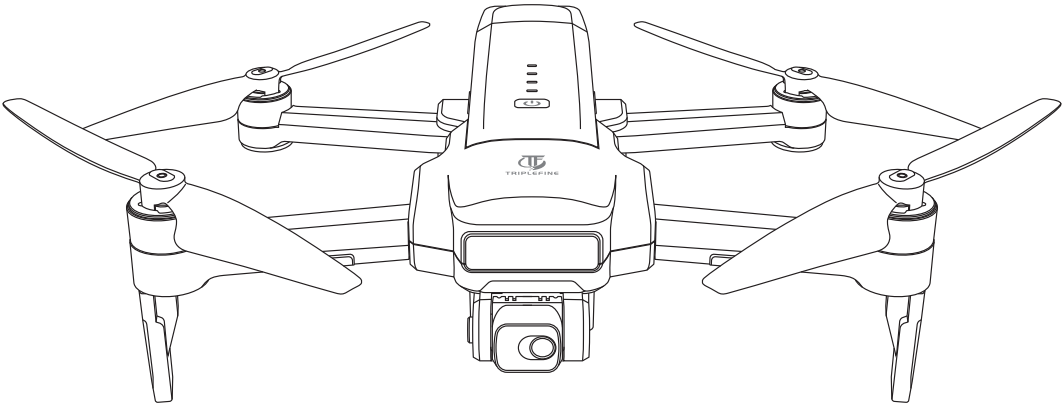
TRIPLEFINE

14+ for age

TF35 PRO

FOLDING AIRCRAFT



We are always here for you!

WHATSAPP: +86 18011983440
EMAIL: Triplefinedrone@gmail.com
TEL: +86 18011983440

WhatsApp

The frequency stability of all transmission frequencies of U-NII-1 meets the 47 CFR FCC Part15.407(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-TFDRONE.

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DISCLAIMER & SAFETY PRECAUTIONS

Thank you for purchasing the TF Drone. Please read all Disclaimer & Safety Precautions carefully before operating. Please also keep this instruction manual for future reference and maintenance.

IMPORTANT:

1. This product shoud be operated by the people who are over 14 years old. It is a precision device; 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 property. It can also be lost due to incorrect operation.
2. This product is suitable for experienced UAV pilots no less than 14 years of age.
3. In the event of a problem during using, operating, or maintenance, please contact the local sales agent or 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 operation may cause damage to the aircraft or injure people or may cause an unexpected accident. Please pay close attention to flying safety and learn to recognize more dangerous conditions which 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 safety of the user, any spectators, and surrounding property.
2. **Keep it away from any moist environment.**
   The inside of the aircraft is composed of many precision electronic and mechanical parts. Therefore, please try to avoid any moisture or water content from entering the main body of the aircraft as it may cause a breakdown of the mechanical and electronic parts and thus cause an accident.
3. **Only operate with included parts for intended use.**
   Please use the original parts made by TF DRONE for any re-equipping or maintenance to ensure flying safety. Please operate and use only under the scope of the product function permitted. Using un-approved parts will void warranty.

DO NOT use for any illegal purpose or use beyond the scope of which your local laws and regulations have stipulated.

4. **Avoid controlling it independently.**
   New users may have certain difficulties during the early stages of learning to operate this aircraft. Please try to avoid operating the aircraft alone. When available, always operate this aircraft under the guidance of a more experienced user.
5. **Do not operate under the influence of drugs or alcohol.**
   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 topspeed.**
   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.
7. **Store it in a cool, dry place.**
   The R/C aircraft is composed of material such as metal, fiber, plastic, electronics, etc. Therefore, please keep it away from any heat source and avoid prolonged exposure to direct sunlight. Excessive heat exposure can cause distortion and damage.

- 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 interfer-ence 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.

- 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. There is important information contained in this package and instruction manual, please keep it for future reference.
2. You have the responsibility to make sure that this model of aircraft won't cause injury to others' body or cause any damage to property.
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. Our company and distributors won't be responsible for any incorrect operation, which may cause loss or damage or injury to the body.
5. 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.
6. Please correctly assemble and use this product as shown on the instruction manual or packing instruction. Some parts should be assembled by an adult.
7. 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.
8. Playing on the road or near hightraffic areas is strictly FORBIDDEN so as not to cause an accident.
9. Please dispose of the packing material timely so as not to cause injury to children.
10. Please DO NOT disassemble or re-equip the aircraft as it may cause a breakdown of the aircraft during flying.
11. Batteries in the battery compartment of the charger should be inserted into the designated power source which has the same logo as the product.
12. Only the original charger made from our factory can be used.
13. Charger is not a toy.
14. When charging the battery, please conduct it under the surveillance of an adult. Please also keep it far away from any combustible object when charging. 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 or 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. Type-C 5V wall charger recommended for charging. DO NOT use any charger stronger than 5V.
24. 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.
25. Keep your UAS withinsight.
26. Never fly over groups of people.
27. Never fly over stadiums or sports events.
28. Understand airspace restrictions and requirements.

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.

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.

EXEMPTION

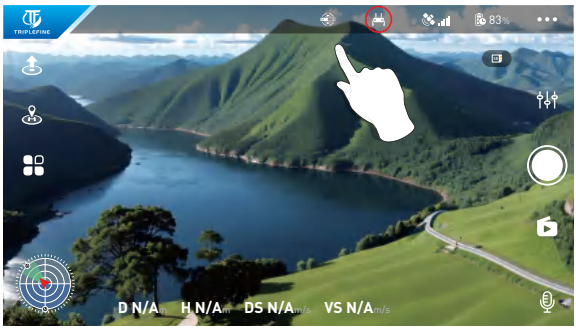
When using this product, TF DRONE shall not be responsible for direct or indirect damages caused by the following reasons:

1. 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.
2. Personal injury, property loss and legal liability caused by the user's subjective intention or wrong judgment.
3. Compensation for any related spiritual damage caused by the accident.
4. Damage caused by users flying in flight areas prohibited by laws and regulations such as nature reserves.
5. Other damage caused by poor operation of Quadrotor due to re-equipment training or replacement of accessories or parts not produced by TF DRONE.
6. The Quadrotor sends 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 Quadrotor 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. For the battery, such as damage caused by improper matching of protection circuit, battery pack and charger.
13. Any indirect losses or legal liabilities caused by problems of equipment or accessories (including memory cards), for example, images or videos that cannot be saved.
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 DRONE. 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.

REMOTE IDENTIFICATION (REMOTE ID)

What is it? The remote ID is the ability of a drone in the fight to provide identification and location information that can be received by other parties through a broadcast signal.
Drones are fundamentally changing aviation, The FAA 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 FAA 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.

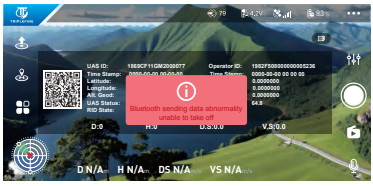
ATTENTION: Click this icon to display the UAS ID, FAA registration and other information, long press to copy the serial number!



Scan the QR code to register and log in FAA.

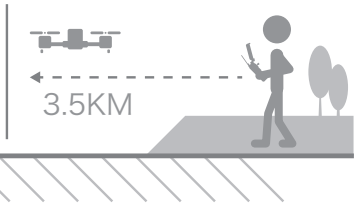
After receiving the certificate of registration, you must mark your unique FAA registration number on the Drone by any means, such as permanent marker, label, engraving. This number must be readily accessible and maintained in a condition that is readable upon close visual inspection.
Warning: Do not fly drone near airports or any other un-authorized areas. 5 miles from airports. Follow all rules for Federal Aviation Administration (FAA) 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.

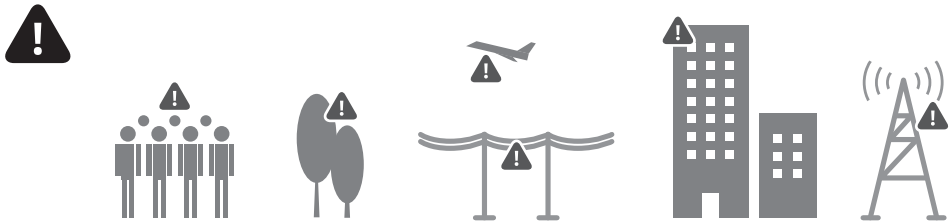


FLY SAFETY

WIFI transmission area requirements:
1.Make sure correctly open the remote control antenna.
2.Make sure fly in the open area without any interference and obstacle.
3.Do not fly against the wind;WIFI transmission distance is 3.5KM.



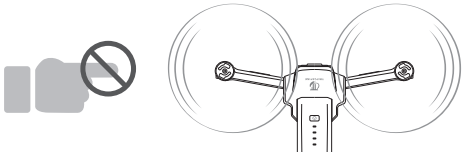
Fly in Open Areas + Strong GPS Signal + Maintain Line of Sight



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.



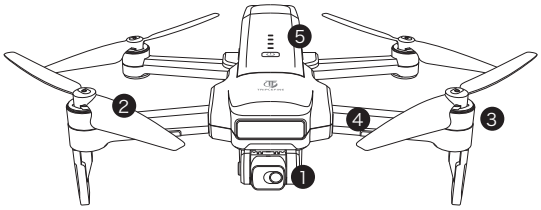
Stay away from the rotating propellers and motors.

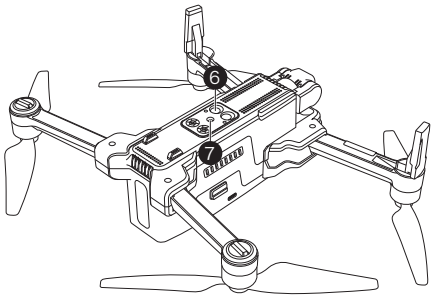
No Fly Zone

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.

1. AIRCRAFT

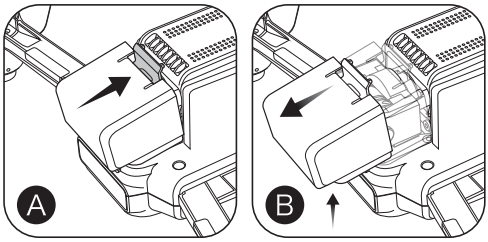
1. AIRCRAFT DIAGRAM



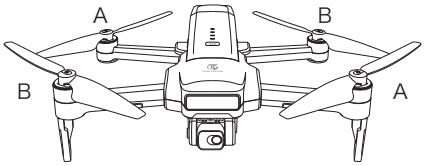


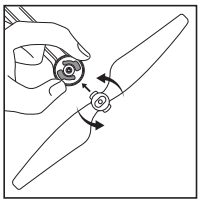
1. 2 axis mechanical gimbal with 4K electronic image stabilization camera
2. Propeller 3. Motor 4. LED indicator 5. Intelligent battery
6. Night light 7. Optical flow sensor

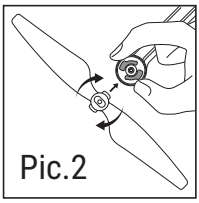
A. Open the gimbal cover buckle.
B. Pull the gimbal cover up then gently take it off.

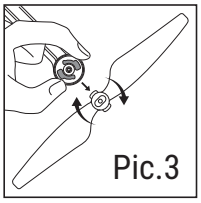


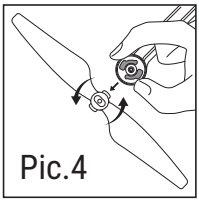
2. ASSEMBLE THE PROPELLER











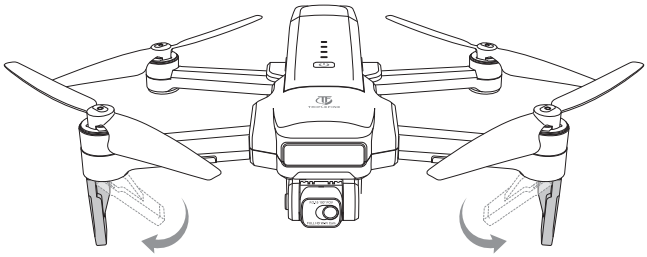
ASSEMBLE THE PROPELLER A
Hold the motor, put the propeller in the motor spindle, aim at the propeller clip with the motor groove, press it down and rotate it in counter-clockwise direction.

ASSEMBLE THE PROPELLER B
Hold the motor, put the propeller in the motor spindle, aim at the propeller clip with the motor groove, press it down and rotate it in clockwise direction.

TAKE THE PROPLLER A OUT:
Hold the motor, press the propeller down and rotate it in clockwise direction.

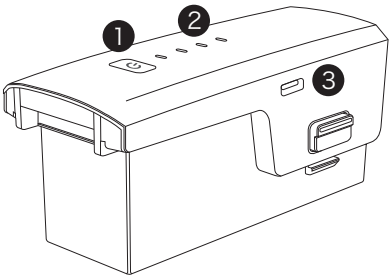
TAKE THE PROPLLER B OUT:
Hold the motor, press the propeller down and rotate it in counter-clockwise direction.

3. LANDING GEAR

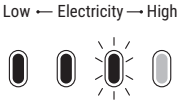


As shown in the picture above, please unfold the two front landing gears separately.
Please unfold the landing gears(shown as above)before flight, otherwise it may affect the WIFI image transmission distance.

4. INTELLIGENT FLIGHT BATTERY



1. Battery switch
2. Battery power indicator
3. Type-C charging port

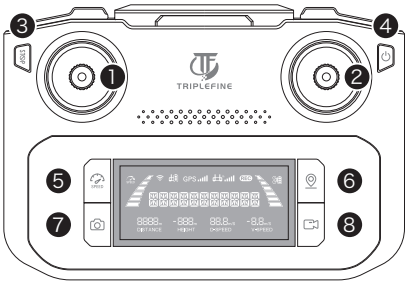


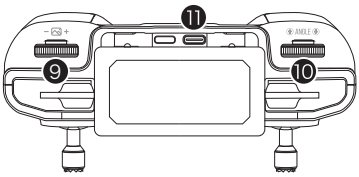
— Hold the switch button for 3 sec. power on; then press the button for 3 sec. power off.
— When the battery in low voltage,Blue indicators will be blinking, now please charge the battery.

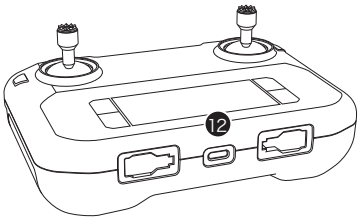
Tip: The battery has automatic discharge function after full charge. When the user does not use it for a long time under the environment in the high temperature, In order to prevent the battery from bulging, self-discharge to about 12V then cut-off discharge.

2. REMOTE CONTROL

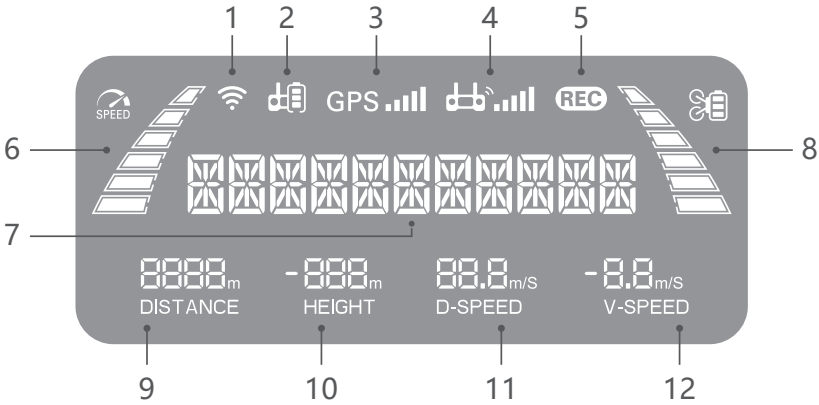
1. REMOTE CONTROL FUNCTIONS







1. Throttle stick
2. Direction stick
3. Click once then keep pressing for 3 seconds to emergency stop
4. Click once to check the electric quantity; then keep pressing for 3 seconds to power on
5. Click once speed switch;
   keep pressing for 3 seconds to enter the altitule mode
6. Click once to RTH mode;
7. Click once take photo, keep pressing for 3 seconds to turn on the night light.
8. Click the button to take video
9. Zoom in and out
10. Adjust the angel of camera up and down
11. Communication connection interface
12. Charging port

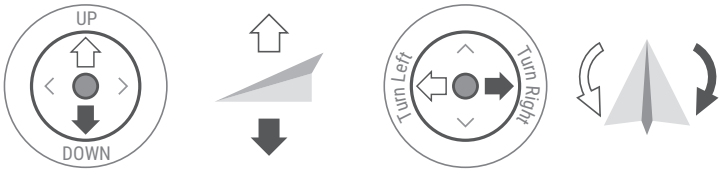


1. Long-distance version
2. Remote control battery
3. GPS signal intensity
4. Remote control signal intensity
5. Photo/video
6. Speed
7. Status Display
8. Aircraft battery
9. Distance
10. Height
11. Flight speed
12. Ascend/Descend speed

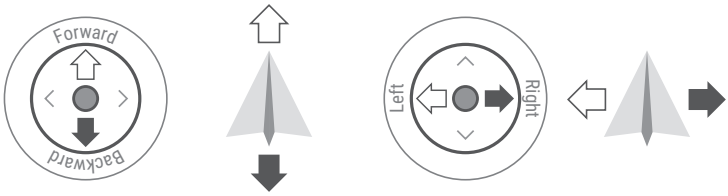
Tips: When the remote control is in low power, keeps flashing, now you need to charge the remote control.

2. REMOTE CONTROL OPERATING METHOD

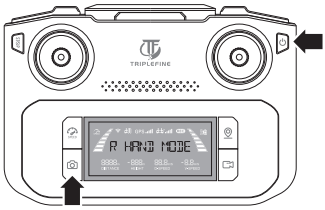
Throttle Joystick



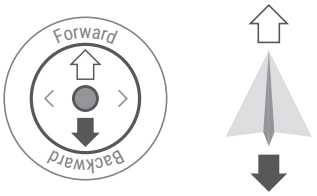
Direction Joystick



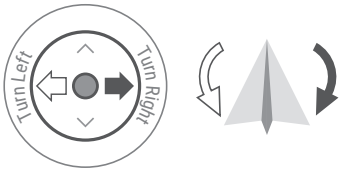
3. DUAL REMOTE CONTROLLER MODE

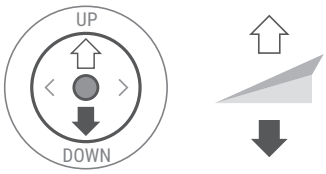


– Power off the remote control.
– Keep pressing the and clicking the twice at the same time.(Click once power on to check the elecric quantity; then keep pressing for 3 seconds to power on). Now the right joystick is the throttle stick. LCD screen appears"R HRMD MODE", now the right joystick turns to throttle operating mode. Turn off the remote control and turn it on again,now the left joystick turns to throttle operating mode.

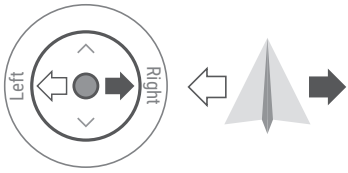


Left Stick



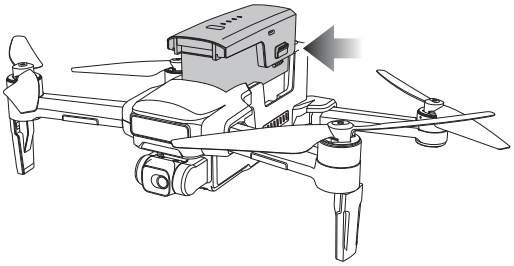


Right Stick

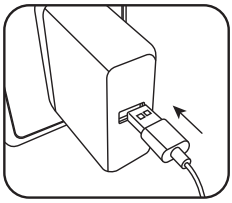


3. LITHIUM BATTERY

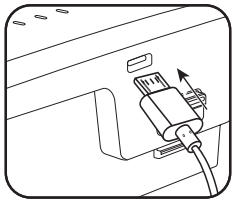
1. CHARGE THE BATTERY



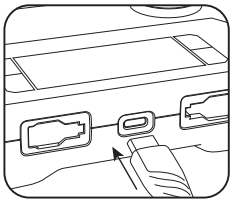
Press the buckle and take out the battery from the aircraft.



Phone adapter:
5V ⎓ 3A
(Not included)
Support QC3.0



Charging time:
About 4.5 hours
(Depending on
Charging adapter)



Remote control
charging method

2. LITHIUM BATTERY CHARGING INSTRUCTIONS

1. Either power on or power off, the aircraft can be charged. Connect the Type-C charger to an DC power supply(4.5V-5.5V,2A-3A), and then connect with the charging port of the aircraft, when in charging, the indicator on the aircraft will become Blue blinking; All indicators keep solid on means charging completed.
2. Aircraft can be charged by the mobile power or car-loaded power.
3. Charging time of aircraift takes about 4.5 hours; operating time takes about 40 min.
4. Remote control is built-in 3.7V 800mAh (X2PCS) mAh lithium polymer battery, charging time takes about 2 hours, operating time about 2 hours.

(When in charging, the indicator on the remote control become Red; when fully charged, the indicator on the remote control will turn to solid Green).

4. TF DRONE APP

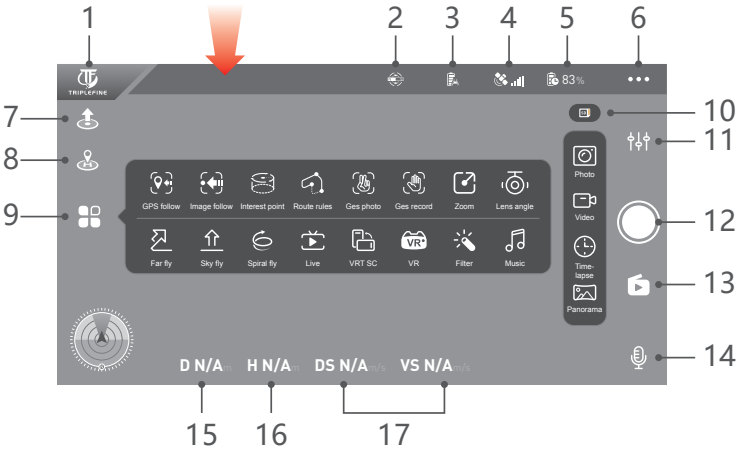
1. DOWNLOAD THE TF DRONE APP

Please make sure that if another drone APP is opened at the same time, the others need to be closed.
Go to your phone, there is a select app popup, select this app to enter.
If connecting to the app takes a lot of time:
1: the remote control is out of battery.
2: The remote control and the airplane are more than 30CM apart when pairing frequency.

2. APP INTRODUCTION

Wait until the aircraft Status says “Ready to Fly” before initiating flight. This will ensure that your GPS is synced and your aircraft is ready to fly.

If the drone enters emergency mode or loses control, it will be displayed here.

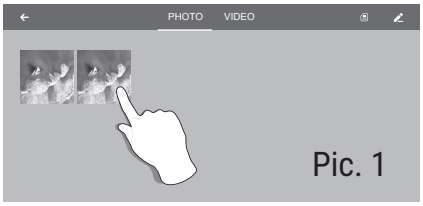


1. Back to Main Menu
2. Compass interference
3. Remote Battery
4. GPS Signal
5. Aircraft Battery
6. Setting
7. Auto Take-off
8. GPS Return Home
9. More Functions
10. SD card status
11. Shooting Function
12. Shutter
13. Media Gallery
14. Sound Recording
15. Distance (meters)
16. Height (meters)
17. Speed (meters/sec)

3. SAVE THE PHOTO AND VIDEO TO THE MOBILE APP ALBUM

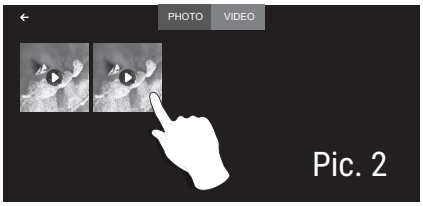
SD CARD INTERFACE INSTRUCTIONS

1. **Can be used to save videos and photos**
2. **Upgrade Wi-Fi module (put the encrypted firmware into the root directory and reboot the device, this upgrade operation is only available if the product is defective)**



Pic. 1

Open the APP and connect the WIFI with the aircraft, click the , enter into the media library (Pic.1).



Pic. 2

APP album: Choose photo and video and save them in the mobile album, click , photo and video are saved in the mobile album.

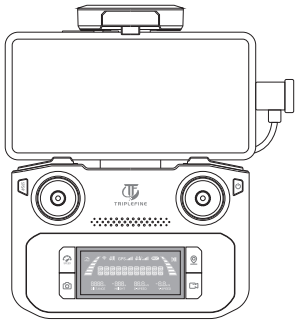
SD card: Click , choose photo and video and save them in your mobile, click , photo and video are saved in the mobile album.

Pic. 3

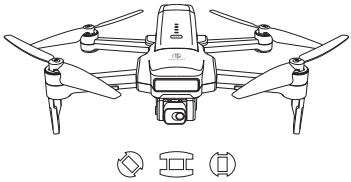
NOTE: After shooting and recording finished, photo and video will be saved in the APP album and SD card, the resolution of photo and video saved in the APP album is different that in SD card.

5. FLIGHT

The drone self-checks. There are text and animation instructions on the APP toremind you of the self-check status.



STEP 1:
Insert the connector cable on the remote control with the mobile device, click once to check the elecric quantity; then keep pressing for 3 seconds to power on.
(It takes about 45 seconds for the frequency pairing after starting the system.)

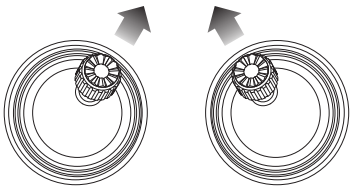


Step 2: Turn on the aircraft and set down on a level surface

— The aircraft will auto-trim to this level surface.
— Four aircraft arms -- Blinking Red.
— Power on the remote control and link the aircraft automatically.
— Lights flashing blue (back) and white (front).

STEP 3:FREQUENCY PAIRING INSTRUCTION

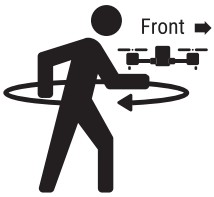
Enter into the APP, following the ACADEMY--instructional video.



Step 4: Compass Calibration

1. Compass Calibration Part 1
— Push the joysticks into the 1 & 11 o'clock position.
— Lights rapid-blinking Blue / red (back) and White / red (front).
— App aircraft status: "Compass calibration".

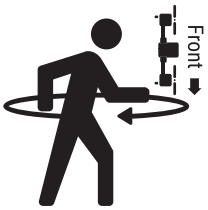
Remark: The compass will be calibrated automatically when the magnetic interference occur, it is necessory to calibrate the compass manually.



Step 5: Compass Calibration--Part 1

— Pick up the aircraft horizontally and turn it around with your body(360°) and the remote control will send out a beeping sound.
— Blue light + red light (front) of the aircraft--Solid on.

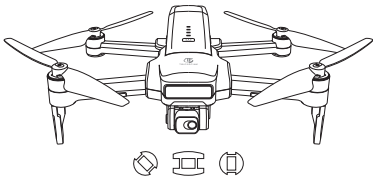
Step 6: Compass Calibration--Part 2



— Pick up the aircraft from the bottom, head of the aircraft facing down and follow your body for a complete circle (360°).
Now remote control makes "DI"sound.
— White light + red light (front) of the aircraft--Solid on.

APP Status: Please place the aircraft on a level ground and hold the aircraft stationary until the head of the pendant recallocates.

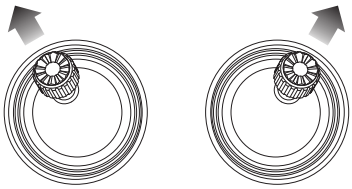
Step 7: GPS Searching(DO NOT use GPS Mode indoor)



— Reposition the aircraft on a horizontal surface.
— Blue light (rear) + White light (front) of the aircraft keep slowly flashing. It means the GPS enters into the state of Satellite Search.
— It takes a few minutes to complete this step.
— Blue light (rear) and White light (front) of the aircraft shows Solid on, this means the GPS satellite searching is successful.

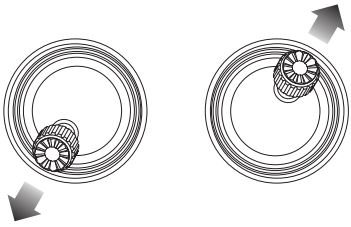
NOTICE: Fly in open areas, tall structures and large metal structures may affect the accuracy of the onboard compass and GPS system. Please search the GPS signal in the open areas.

Step 8: Calibrate Gyroscope



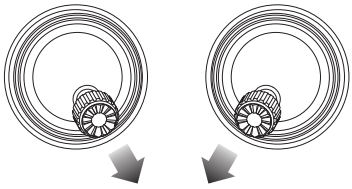
— Push the joysticks into the 11 & 1 o’clock position.
— Blue light (rear) + White light (front) of the aircraft: Keep flashing quickly.
— App Drone Status: “Gyroscope calibrated”

Step 9: Reset to factory Setting / Level calibration



— Push the throttle lever of the remote control to the "7" o'clock position and push the direction lever to the "1" o'clock position.
— Blue light (rear) + White light (front) of the aircraft: Keep flashing quickly.

App Status: “Reset to factory Setting / Level level calibration”
Precautions: Please put the aircraft on the horizontal ground for the restore factory setting.Otherwise it may affect the flight attitude.



Step 10: Starting/Stopping motors

— Push the joysticks into 5 & 7 o'clock position.
— Motors automatically to start, push the left joystick to take off the aircraft. (Starting the motors before the aircraft taking off).

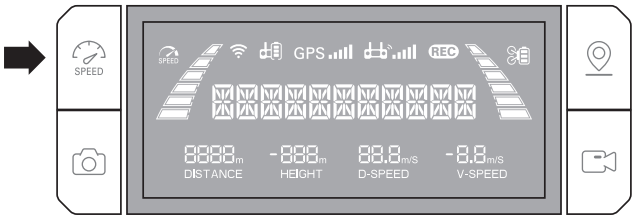
NOTE: Starting the motors should be set before the aircraft take off.

— Stopping Motors:

1. Pushing the joysticks into 5 & 7 o'clock position again, motors stop working.
2. The motors will stop working if the motors starting are not operated after 20 seconds.

All LEDs on the front arms and rear arms, you are ready to fly!

— Blue (rear) and Blue (front) lights are all solid (no blinking).
— App aircraft status: "Ready to fly".



NOTICE: If the LED indicators on the arms of the aircraft: blue light (rear) + blue light (front) keep slowly flashing means the GPS signal is weak; Please keep pressing SPEED for 3 seconds to turn off the GPS mode: blue light (rear) keeps flashing + white light (front) is solid on, aircraft enter into the flight altitude mode, now the aircraft can take off.

6. AIRCRAFT FUNCTION PROFILE

One-key fly far

1. Keep the distance between the aircraft and the target is more than 2 meters,adjust the lens manually to aim at the target.
2. Click the One-key far fly icon in the APP and slide to confirm.
3. Click the One-key far fly icon in the APP again or pull the direction lever on the remote control to exit the far-fly function.

Remark: When starting the flight, the aircraft will move back about 25 meters away from the target and start the video shooting function at the same time. The aircraft will automatically return to the take-off point after performing the completion function. Pull the direction lever to exit. Pay attention to the backward direction of the aircraft. Make sure there are no obstacles or crowds nearby so as to avoid any injury. In case of emergency, please pull the direction lever on the remote control immediately to stop the flight!

One-key Skyrocketing

1. Keep the distance of the aircraft with the target below more than 2 meters,then adjust the lens manually to aim at the target.
2. Click the One-key skyrocketing icon in the APP ,and slide to confirm.
3. Click the One-key skyrocketing icon in the APP again or pull the direction lever on the remote control to exit the Skyrocketing function.

Remark: When starting the flight, the aircraft will automatically rise about 15 meters height and start the video recording at the same time.
The aircraft will automatically return back to the take off point after performing the completion function. Pull the steering lever to exit. Make sure there no obstacles above the aircraft so as to avoid any injury. In case of emergency, please immediately pull the direction lever of the remote control to stop the flight!

One-key Spiral

1. Keep the distance between the aircraft and the target at about 2 to 5 meters and manually adjust the lens to aim at the target.
2. Click the One-key spiral icon in the APP,and slide to confirm.
3. Click the One-key spiral icon in the APP again or pull the direction lever on the remote control to exit the spiral function.

Remark: When starting the flight, the aircraft will automatically spiral up (with a maximum radius of about 15 meters) and start the video shooting function at the same time. The aircraft will automatically return to the take off point after performing the completion functions. Push the direction lever to exit. Make sure there are no obstacles or people around the aircraft so as to avoid any injury. In case of emergency, please immediately pull the direction lever on the remote control to stop the flight!

Vertical-screen Aerial Photograph

Click the Vertical-screen Aerial Photograph icon in the "Shooting Function" on the right side of the preview page of the APP and the mobile screen will appear vertical screen.

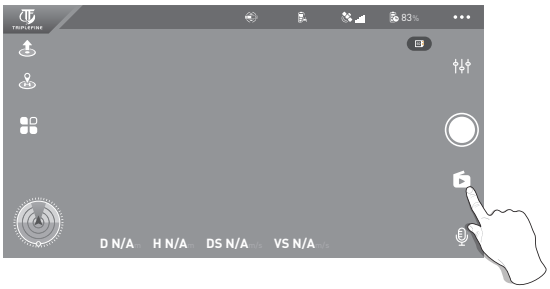
Time-lapse Photography

1. Click the APP function page, Shooting Function--Time-lapse Photography
2. Slide to select the Delay Magnification and click OK.
3. Click the ◉ to start time-lapse photography.
4. Click the ◉ again to finish shooting.

Panoramic Shooting

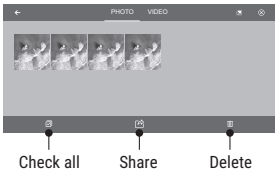
1. Click the APP function page and select the ☰ – ⟷ .
2. Click the ◉.
3. The aircraft rotates about one circle (360°) to complete panoramic shooting, automatically synthesize a panoramic picture, and save it in the photo album. When successfully finish shooting, a prompt message will pop up.

APP ONE KEY SHARE FUNCTION



Pic.1

Pic.2



Pic.3

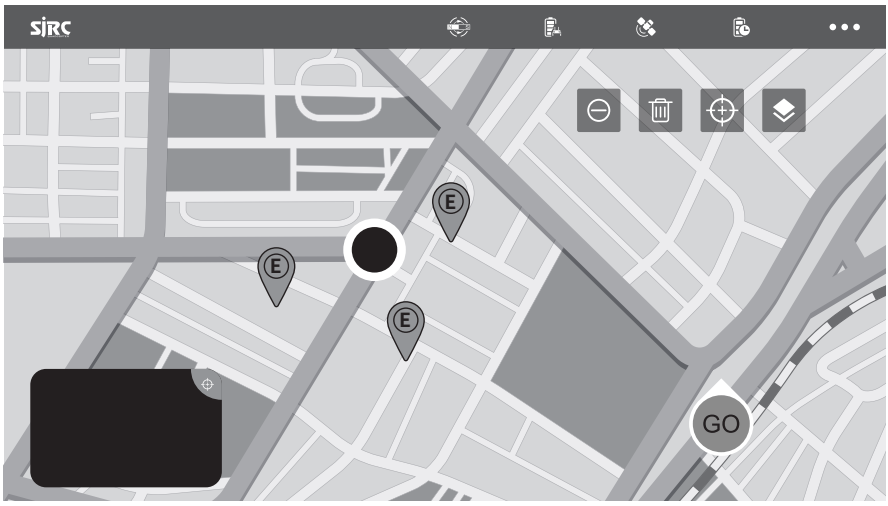
1. Open the APP and click ▶ ,enter into media library (Pic.1).
2. Click ✎ , enter into the share interface (Pic.2), choose one or all photos you like to share, click ⇧ , choose the social media you like to share the photos (Pic.3).

Reminder: You can share 1 picture or 9 pictures at the same time.
But Only one video can be shared each time.

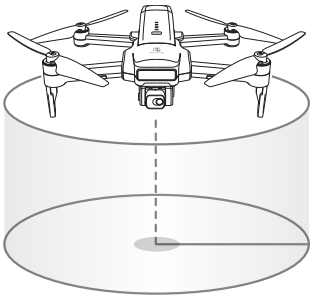
WAY POINT FLIGHT

– Ensure the mobile internet connected, enter in the APP, catch the map data of the area when you intend to fly in your mobile device, then connect your mobile device with your aircraft, you can view the map from in the APP.

– Successfully connect the aircraft WIFI with your smart phone, click on the App, then you can find a RED CIRCLE(LIMITTED FLIGHT RANGE)/TAKE-OFF POSITION/AIRCRAFT CURRENT POSITION on the map, mark the points (16 points at most) you plan to fly within the RED CIRCLE range on the map. If you would like to reset the points or flight route, click Delete single or Delete all . Click Send ,confirm to start Way Point Flight. Pushing the Right Joystick to cancel the Way Point Flight Function.

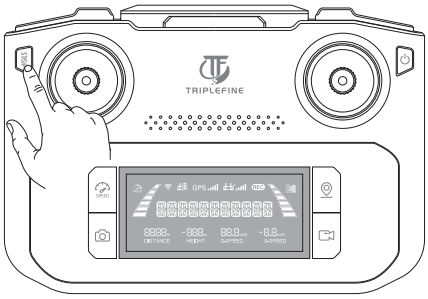


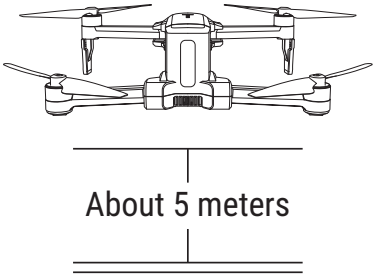
POINT OF INTEREST



1. Hover the aircraft at the center point to be surrounded.
2. Select the surrounding radius on the APP, and slide to flight.
3. When circling, you can control the left or right direction lever to change the clockwise flight or counterclockwise flight of the aircraft.
4. When circling, you can control the forward direction lever or the backward direction lever to change the circling radius of the aircraft.
5. Click the icon again on the APP to exit the Surround Function.

EMERGENCY STOP





Clicking once and keep pressing the STOP for 3 seconds to enter into Emergency Stop mode. It is activated if the flight height of aircraft within 13 meters; othterwise, it is not activated.

Only stop motors mid-flight in emergency when doing so can reduce the risk of damage or injury.

GPS FOLLOW-ME

When the Follow Me function activated, the aircraft will follow the GPS in your smart phone to follow you wherever you go.
(Make sure the smart phone connect with the aircraft successfully, turn on APP on your smart phone.)

1. Make sure the flight scope is within 10-50 meters.
2. Click on the APP interface.
3. Waiting for APP aircraft Status to display “Follow Me ready” ---Now the aircraft is moving along with the positioning coordinate on the APP.
4. Click the on the APP interface again to exit the Follow Me mode.

Common Issues:

GPS Follow-me function will be affected by the tall structures, trees and the living areas with WIFI signal inteference.
GPS Follow-me function is not activated if the GPS signal weak or GPS positioning OFF in the mobile device.

* Use in open area and be mindful of your surroundings. Aircraft is NOT equipped with obstacle avoidance.

IMAGE RECOGNITION FOLLOW ME/GESTURE CONTROL

Click , choose , tap on the object or person you want to track, and tap to confirm your selection.
(NOTE: Make sure the size of the frame you mark is the same as the object or person you tap, the frame should not be too large.)

HAND GESTURE

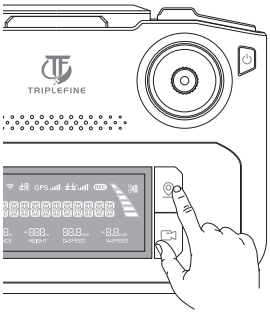
Click on the APP, count down 3 seconds to 0 seconds with the hand motion to take photos or record the video, please follow the tips from the (PIC.1).

PIC.1

RETURN-TO-HOME (RTH)

The Return to Home (RTH) function bring the aircraft back to the Take Off Point. This function only can be achieved under GPS mode.
There are 3 types of RTH: Smart RTH/Low-battery RTH/Fail connection RTH

①. Smart Return To Home



Press the Return to Home Button on your remote control or tap on the App of your smart phone, and the remote control will start beeping. Your aircraft will return to the TAKE OFF Point. Press the button again to stop RTH procedure. or alter the left and right joysticks to make the aircraft landing in the safe area.

RTH Button

The app´s RTH Button

②. Low-Battery return to home

Low-Battery RTH is triggered when the Flight Battery level is low, When low battery RTH activated, aircraft ascends or descends automatically at the height altitude of 30 meters, then you can alter the left and right joysticks to make it landing in the safe area. Aircraft returns to the take-off point if the current battery level can only support the aircraft long enough to decend from the current altitude.

③. Fail connection **RETURN-TO-HOME (RTH)**

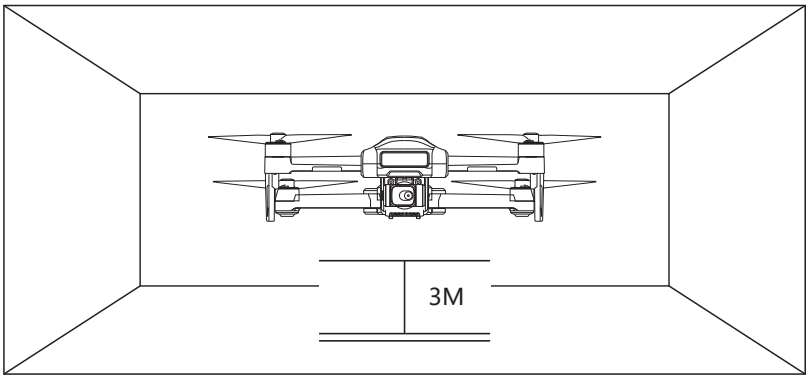
Aircraft will enter Return to Home Mode if the signal to the remote control is lost. The aircraft will return to the take-off point.The aircraft may link the remote control automatically during the RTH activated. If links sucessfully, you can re-operate the aircraft.

WARNING:

This aircraft is NOT equipped with obstacle-avoidance.

OPTICAL FLOW VISION SYSTEM

The aircraft is equipped with a downward looking optical flow system, which is composed of downward looking visual camera sensors, so that the UAV can hover stably at low altitude without GPS or with weak GPS signals.



Note:

(1) The optical flow vision system can only assist in flight when the surrounding environment is full of light and rich in texture but cannot completely replace the user's judgment. Please pay attention to the aircraft situation and APP tips and please DO NOT rely too much on the optical flow vision system.

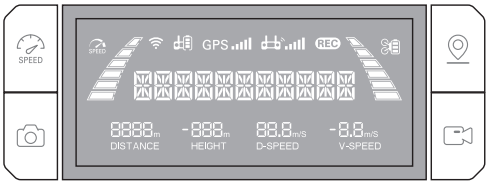
(2) The optical flow vision system is ineffective or ineffective in situations where the ambient light is too bright or too dark, mirror surface, pure color smooth ground, water surface, reflective surface, texture sparse surface, etc.

(3) The best working range of the down view optical flow vision system is below 0.5-3 meters. If it exceeds this range, the positioning effect of the down view optical flow vision system may be poor. Please fly with caution.

(4) Please ensure that the lens of the optical flow vision system is clear and DO NOT block or interfere the optical flow vision system.

(5) The optical flow vision system can only be used in the Alititude Mode and change to the GPS mode automatically outdoors after GPS satellite search successfully.

CAMERA FUNCTIONS

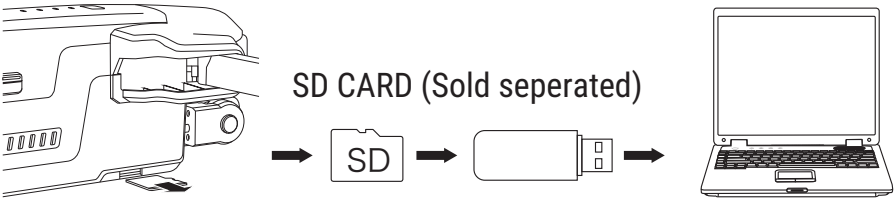


Take Photo

Take Video

ICON ON APP

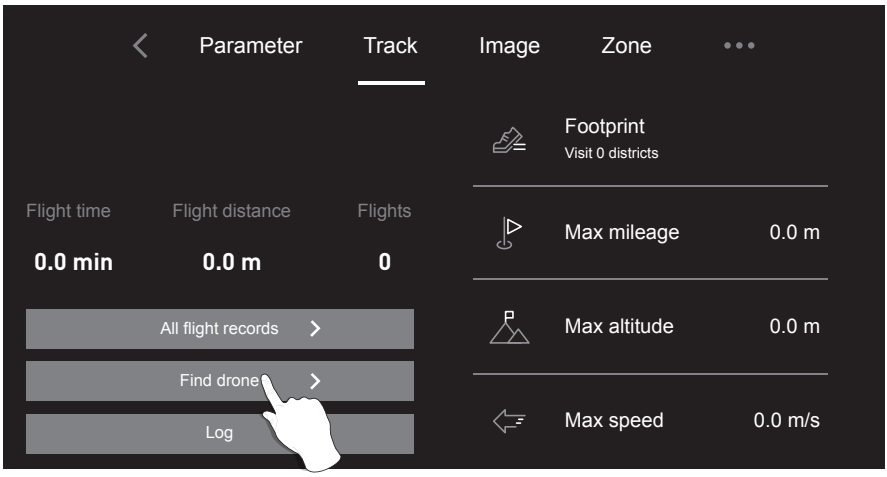
Click on the remote control, or click on the APP, the indicator will flash once, means the camera takes one photo.
Click on the remote control, or click on the APP, the indicator will keep flashing, means the camera is recording.
Press again to save the video.
DO NOT take photo during recording.



The Original images and videos are saved in the SD card. Press the SD card slightly to take it out, then insert the card into the card reader and insert into the Type-C outlet of a computer to read the data from SD card. The images can be also viewed in the App.

7. HOW TO SEARCH THE LOST DRONE

①.Continue to click Find drone > to open the MAP surface to search the aircraft.



②.The last position of lost aircraft will be appeared on the MAP.

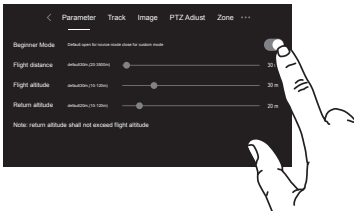
Current position of the mobile phone

BEGINNER MODE IN THE APP

The Default GPS Mode is BEGINNER MODE:
1.Flight Distance is between 0-30 M.
2.Flight Altitude is between 0-30 M.
3.RTH Altitude is under 20 M.

You can Turn-off the BEGINNER MODE to set the parameters in the APP from the smart phone.

Flight System Setting



8. COMMON SOLUTIONS

1. The mobile device and remote control cannot be connected.
   Check the status of control signal icon on the APP if changed.
2. The image transmission is jammed or easily out of control and disconnected.
   ① Adjust the antenna angle to align with the aircraft, and ensure no obstruction in the middle position.
   ② Change the flight area. Please DO NOT fly near high buildings or signal towers.
   ③ Update the latest firmware of the aircraft.
3. The aircraft hovers unsteadily.
   ① Change the flight area. Please DO NOT fly near high buildings or signal towers.
   ② Conduct aircraft compass calibration and horizontal calibration.
   ③ Judge whether the strong wind affects the flight or not.
   ④ Judge whether the fan blade and the arm are deformed or not.
4. The GPS accuracy of the aircraft is not accurate or cannot pass the GPS accuracy test.
   ① Go to an open area outdoors where GPS signal can be searched 6 or more satellites.
   ② Walk around the aircraft at close range.
   ③ Replace the mobile device.
   ④ Do not test it under high buildings.
5. The battery cannot be charged.
   Re-plug and unplug the charger or re-load and unload the battery.
6. Short flight time.
   Overcharge or discharge the battery, also the battery life reducing can be caused by the high-temperature environment. It is recommended to store the remaining 60% of the battery power and recharge it fully before using.
7. Excessive inclination angle or abnormal problem of the UAV PTZ checking.
① Re-start the aircraft on the flat ground to PTZ calibration.
② Check the PTZ status if it works or not.
③ Choose the"•••"on the APP to restore the PTZ to original factory setting.
8.PTZ initialization fails
   Please take the PTZ protection cover off before turn on the power of the aircraft, then put it on the flat ground to PTZ calibration.
9. Unclear shooting.
   ① Check whether the camera protective film is removed or not.
   ② Use it under the good light environment.
   ③ Set shooting parameters from the camera setting in the APP.
10. The camera is misty.
   ① Wet weather causes fog on the camera. Replace the storage place of the aircraft.
   ② Place desiccant in the protective cover of camera during storage.
11. Pictures or videos taken are lost.
   When recording a video, you must end the recording operation, otherwise the video may be damaged or lost.

9. SPECIFICATIONS

- Drone

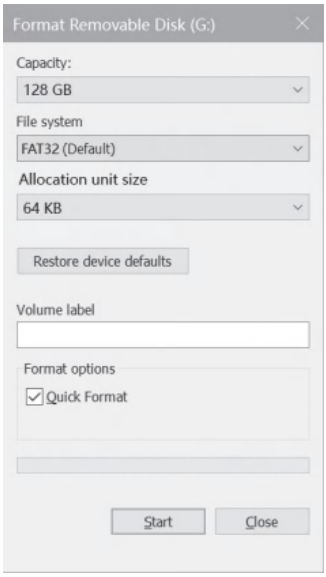
MODEL: TF35 PRO
Weight (Including Battery): 575g/20.3oz
Flight Time: About 40 min
Motor Model: 1806
Operating Temperature Range:
32° to 104° F (0° to 40° C)
Satellite Systems: GPS/GLONASS
Dimensions (LxWxH): Unfolded: 35x35x8.3 (cm)
Folded: 20.2x10.7x8.3 (cm)

- Gimbal Stabilization: 2-axis (tilt,roll)

Machanical Range: Tilt About -100° To+70°
Roll About -35° To+ 5°
Controllable Range: Adjusted angle of camera (up and down):
About -80° To+0°

- Camera

Lens:FOV:100°
Equivalent Focal Length: 60CM
Focus range: Fixed-focus
Resolution of photo: Phone 3840X2160P
SD card 3840X2160P
Resolution of video: Phone 1280X720P
SD card 3840X2160P
Photo Format: JEPG
Video Format: MP4
Supported SD Cards: Micro SD card (Class
10/U1 or later) 32G-128G
Supported File Systems: FAT32



- 5G Transmission

Operating Frequency: 5.15-5.35 GHz; 5.725-5.825 GHz
Supported Transmission Protocol: 802.11a; 802.11n20; 802.11n40
Video Transmission Frame Rate: 30FPS

- APP / Live View

Mobile App: TF Drone

CONFIGURATION	STORAGE METHOD		RESOLUTION	TRANSMISSION FRAME RATE
4K	Phone	Photo	3840X2160P	
		Video	1280X720P	30 fps
	SD card	Photo	3840X2160P	
		Video	3840X2160P	30 fps

Required Operating System:IOS 9.0 or later/Android 5.0 or later

- Remote Control

Operating Frequency: 5G
Max operating distance: Up to 3.5 KM (Outdoor and Unobstructed)
Battery: 3.7V 800mAh (X2PCS) Li-polymer
Charging time: about 2 hours
Operating time: about 2 hours
Operating Voltage: 3.7V
Mobile Device Holder: 4.7″ to 6.5″ Smart Phones
Operating Temperature: 32° to 104° F (0° to 40° C)

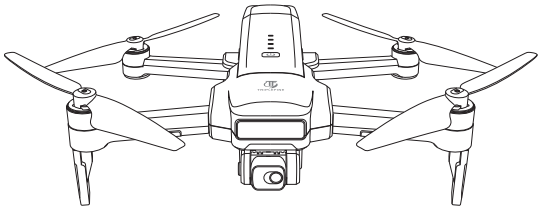
- Intelligent Flight Battery

Capacity: 3500mAh
Voltage: 11.1V
Battery Type: Li-polymer
Energy: 38.85Wh
Net Weight: 232g / 8.2oz
Max Charging Power: 15W
Max Charging Time: About 4.5 hours (Depending on Charging Power)
Charging Temperature Range: 32° to 104° F (0° to 40° C)

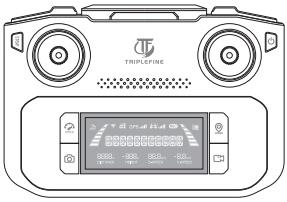
- Charging cable: Type-C

Voltage: 5V ⎓ 3A
Rated Power: ≤15 W

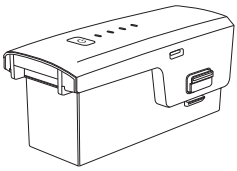
10. PARTS LIST (Included)



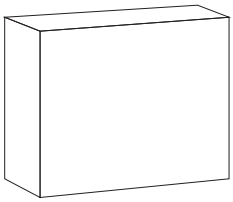
TF Drone X1



Rechargeable Transmitter X1

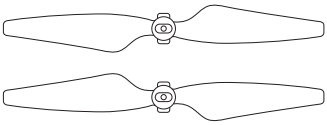


Batteries (1 in the drone) X2



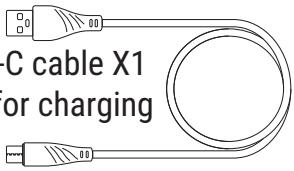
Gift Box X1

Carrying Case X1



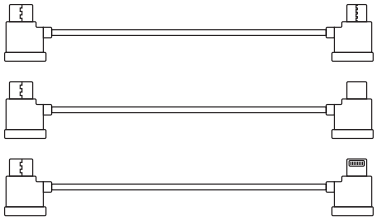
Blade A X2

Blade B X2



Type-C cable X1
Only for charging

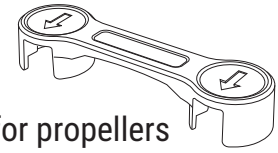
Instructions X1



Type-C — USB Type-C

Type-C — Micro-USB

Type-C — Lightning



Fixed parts for propellers

Joystick parts X2

11. COMMON PROBLEMS AND SOLUTIONS

THE PROBLEM	REASON	COUNTERMEASURES
Drone lights flashing and no response from the drone when operating.	1. Remote is not synced to the drone. 2. Insufficient battery power.	1. Refer to the Quick Start guide and re-sync the drone. 2. Recharge the battery.
The blades spin, but the drone cannot takeoff.	1. Insufficient battery power. 2. The blades distorted.	1. Recharge the battery. 2. Replace the blades.
The quadcopter shakes heavily.	The blades distorted.	Replace the blades.
Drone cannot stay balanced in flight.	1. The blades distorted. 2. The motor doesn't work properly.	1. Replace the blades. 2. Replace the motor.