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SNAPTAIN

SP500

4-Axis GPS Drone

USER MANUAL

Please read this manual carefully before flying and keep it well for future reference.

14+

ENGLISH

14+

ENGLISH		01-40
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DISCLAIMER AND SAFETY GUIDELINES

Please read the disclaimer carefully before using this product. By using it, you hereby agree to this disclaimer and signify that you have read them fully.

- Before flying, please make some practice with a simulator or seek for the instruction from a professional.
- DO NOT fly above or near obstacles, crowds, open water, public places, high-voltage power lines or trees.
- DO NOT use the drone in severe weather conditions, such as a heavy day or windy (wind speed is more than 5.5m/s), snow, hail, lightning, tornadoes, hurricanes, etc.
- DO NOT fly the drone in the magnetic interference area, radio interference area, and government restricted areas.
- The fast rotating motors and propellers are a potential hazard to cause serious damage and injury. A safe distance of 5m must be maintained from the drone at all times while it is operational. Fly with responsibility.

DISCLAIMER AND SAFETY GUIDELINES

6. Please maintain the line-of-sight of your drone at all times after it is powered up. Do not rely on the camera image to control your drone.

7. This product is not a toy and not recommended for users under age 14.

8. This product is not intended for professional aerial drone photography.

9. All parts must be kept out of the reach of children to avoid CHOKE HAZARD.

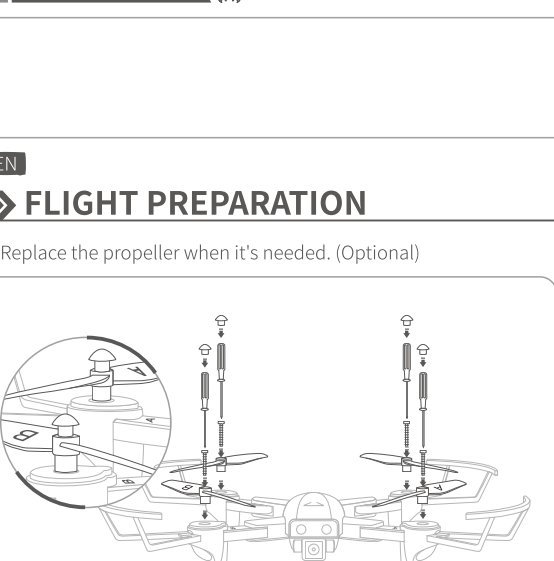
10. CAUTION: Dispose of the drone and batteries in accordance with local regulations. DO NOT treat it as household waste.

11. Be sure to observe all local regulations, obtain appropriate authorizations and understand risks. Please note it is solely your responsibility to comply with all local regulations.

SNAPTAIN accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. The user shall observe state and/or federal practices including, but not limited to, those set forth in these Disclaimer and Safety Guidelines. SNAPTAIN reserves the right to update this user manual.

PRODUCT OVERVIEW

Remote



- Power Indicator
- Speed Switch
- Compass Calibration (Long Press)
- Gyro Calibration (Long Press)
- Left Control Stick
- On/Off
- Speed Indicator
- Photo/Video Indicator
- Phone Clamp
- Photo/Video (Long Press)
- One Key Take-off/Landing, Emergency Stop (Long Press)
- GPS Mode On/Off
- Right Control Stick
- Headless Mode
- Smart RTH
- Smart RTH Indicator
- Headless Mode Indicator
- Remote Handle

FLIGHT PREPARATION

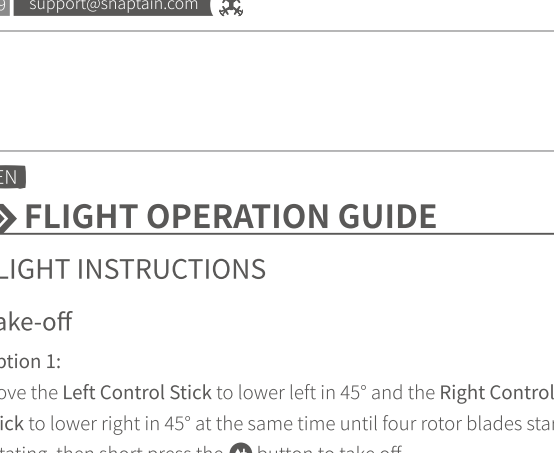
1. Unfold the front arms, then the rear arms.

2. Install the propeller guards into the drone.

3. Charge the battery.

FLIGHT PREPARATION

3. Replace the propeller when it's needed, (optional).



- Remove the cap on the propeller.
- Loosen the screw to remove the propeller.
- Fit the spare propeller into the drone. Make sure the mark (A/B) on the propeller is the same as the mark on the arm of the drone.
- Tighten the screw and install the cap.

FLIGHT OPERATION GUIDE

IMPORTANT:

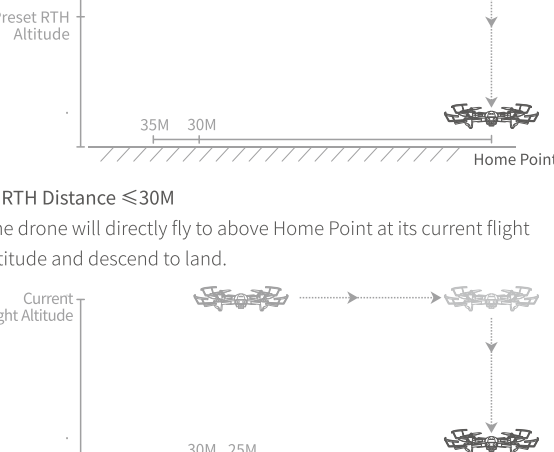
- Make sure your power on the drone first, then the remote in each flight.
- Do repeat the pairing procedure each time when the drone or remote is released.
- For all flight functions and modes, the operator and tail of the drone must be aligned.

FLIGHT OPERATION GUIDE

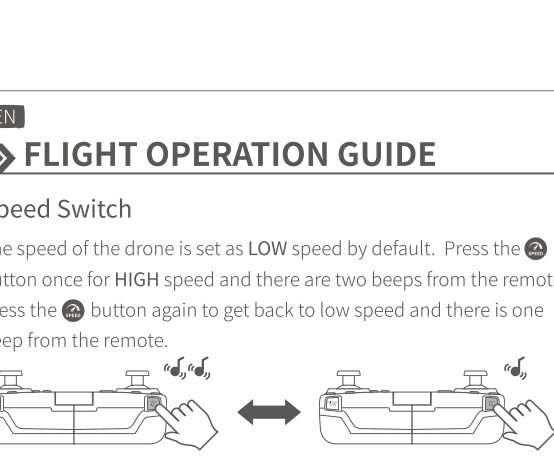
Flight Instructions

Take-off

Option 1:



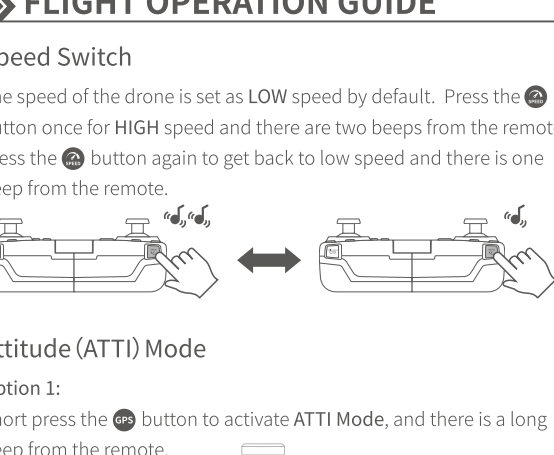
Option 2:



FLIGHT OPERATION GUIDE

RTM Distance >30M

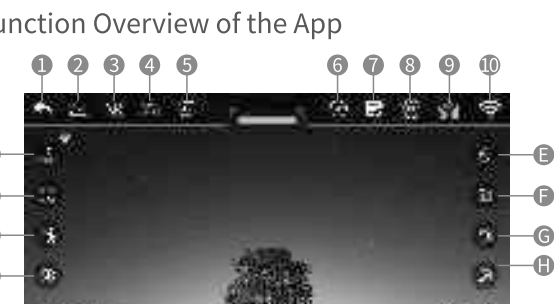
The drone will directly fly to above Home Point at its current flight altitude and descend to land.



FLIGHT OPERATION GUIDE

Speed Switch

The speed of the drone is set to 100% speed by default. Press the button once for HIGH speed and there are two beeps from the remote. Press the button again to get back to low speed and there is one beep from the remote.



FLIGHT OPERATION GUIDE

Attitude (ATTI) Mode

Option 1:

Short press the button to activate ATTI Mode, and there is a long beep from the remote.

Option 2:

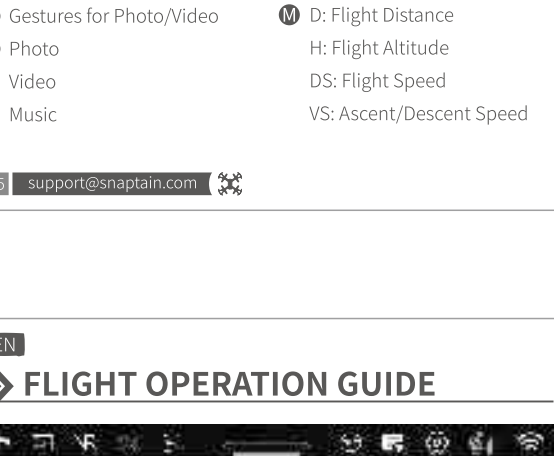
ATTI Mode is automatically on when there are not enough satellites connected to put the drone in GPS mode during the outdoor flight. In ATTI mode, the drone will maintain a specific flight altitude, but it will drift around in the wind.

Note:

We recommend ATTI Mode only when the pilot has proficient skills in operating the drone.

FLIGHT OPERATION GUIDE

Function Overview of the App



- Back
- Media Gallery
- VR Mode
- More
- Waypoints
- Smart RTH
- Follow Me
- One Key Take-off/Landing
- Gesture for Photo/Video
- Photo
- Videos
- Music
- Flip Image
- Flight Records
- Settings
- GPS Signal
- RTH Signal
- Drone Battery Status
- Remote Battery Status
- Live Map
- Unlink
- Flight Altitude
- RTM Distance
- GPS Flight Speed
- VS: Ascend/Descent Speed

FLIGHT OPERATION GUIDE

Follow Me

Tap to enable Follow Me function, then tap the pop-up window to start. When Follow Me is enabled during flight, the drone's camera lens will keep following at your mobile device and maintain a constant distance from it.



Tap again during the flight to cancel this mode and regain control of the drone.

Note:

The function of Follow Me may have deviation due to the GPS Signal. Please maintain a safe distance around you and the drone when enabling this function.

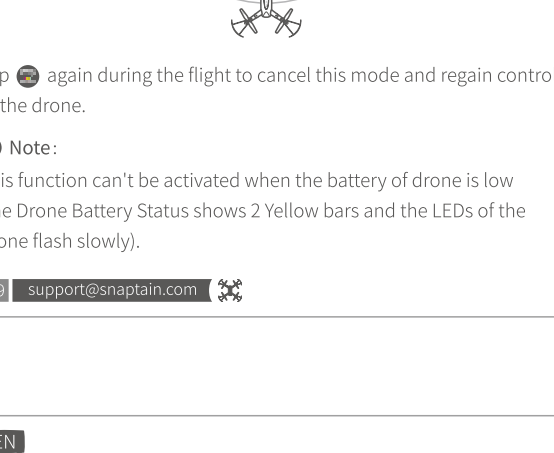
Activate this function only when there is no obstacle around you in case of unexpected accidents.

The drone can be interrupted when the battery of the drone is low (the Drone Battery Status shows 2 Yellow bars and the LEDs of the drone flash slowly).

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Follow Me

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The drone can be interrupted when the battery of the drone is low (the Drone Battery Status shows 2 Yellow bars and the LEDs of the drone flash slowly).

LED INDICATORS DESCRIPTION

LEDs on the Head of the Drone

LEDs Status	Drone Status
Off	GPS Mode OFF
Flash	Searching Satellites
Solid on	Satellites Searched, GPS Mode available

FLIGHT OPERATION GUIDE

LED INDICATORS DESCRIPTION

LEDs on the Head of the Drone

LEDs Status	Drone Status
Off	GPS Mode OFF
Flash	Searching Satellites
Solid on	Satellites Searched, GPS Mode available

LED INDICATORS DESCRIPTION

LEDs on the Tail of the Drone

LEDs Status	Drone Status
Off	GPS Mode OFF
Flash	Searching Satellites
Solid on	Satellites Searched, GPS Mode available

SPECIFICATIONS

Operating Temperature: 32°F to 104°F (0°C to 40°C)

USB Cable: For Remote: 5V --- 0.5A, For Drone Battery: 5V --- 1.2A

Input: 5V --- 0.5A, 7.4V --- 800mA

FCC Caution

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This digital device 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 to 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 which the receiver is connected to. — Consult the dealer or an experienced radio/TV technician for help.

For Remote:

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

For R/C QUADCOPTER:

This equipment complies with FCC radiation exposure limits and is tested for an uncontrolled environment. This equipment should not be used in conjunction with any other antenna or transmitter.

MAINTENANCE AND CARE

1. Thoroughly check the drone after a crash or violent impact.

2. Do not use or store the battery near a flame.

3. Do not charge the battery if it is hot. Let it cool down first.

4. Do not charge the battery near to inflammable materials, such as bed, carpet, wood floor, etc., or on surfaces that are electrically conductive. Do not leave the battery unattended while charging.

5. Only use the original cable provided. Unplug the charger once the battery is fully charged.

6. Remove the battery from the drone if it will not be used for a long time.

7. Store the drone and remote in a cool, dry place away from direct sunlight.

8. Be sure to clean off your drone with a dry cloth to prevent any moisture from getting onto the electronics.

9. Do not try to disassemble or repair the product by yourself. Please contact SNAPTAIN for more help.

10. Please use the original battery provided. Use an incorrect type of battery may lead to fire hazards.

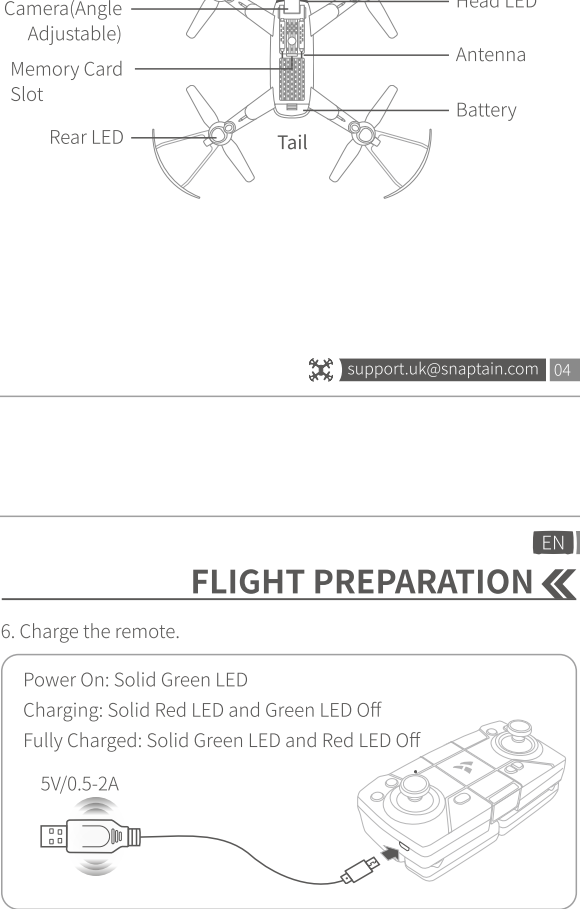
11. Do not dispose of the battery in fire or a hot oven, cut or mechanically crush the battery, as this may cause explosion.

12. Do not leave the battery in an extremely high-temperature environment that can result in an explosion or the leakage of flammable liquid or gas.

13. Do not expose the battery to the extremely low air pressure, as this may result in an explosion or the leakage of flammable liquid or gas.

PRODUCT OVERVIEW

SP500 Drone



FLIGHT PREPARATION

Notes:

- Please use the original battery and USB cable provided.
- Keep the battery away from any sharp objects that could puncture into the battery to avoid risks of explosion and fire.
- It is not recommended to charge the battery from the USB port of PC.
- Flight time may be extended when flying in low-temperature environments.
- To extend the battery's lifespan, recharge it at least once every three months if not using it for long periods of time.

4. Install the battery into the drone after it's fully charged.

5. Insert a memory card (not included) into the drone.

***AT 32 format of the memory card is recommended.**

FLIGHT PREPARATION

6. Charge the remote.

7. Unfold the Remote Handle.

8. Unfold the Phone Clamp when using the mobile device to fly the drone.

FLIGHT OPERATION GUIDE

Flight Directions

Left Control Stick

Right Control Stick

Headless Mode

Headless Mode is a function that allows the drone to fly without the need for a remote control. It is activated by pressing the Headless Mode button on the remote control. When Headless Mode is activated, the drone will fly in a straight line in the direction of the remote control stick. It is useful for beginners who are having difficulty controlling the drone with a remote control.

FLIGHT OPERATION GUIDE

Return-to-Home (RTH)

The Return-to-Home (RTH) function brings the drone back to the last recorded Home Point where the drone took off last time if the GPS signal shows 3 bars or more, and the GPS function is functioning normally. Please note the RTH function can not be performed.

Smart RTH

*** RTH Distance:**

The distance between the drone and the last recorded Home Point where the drone took off last time.

1. RTH Distance >30M

If the current flight altitude is lower than the preset RTH altitude, the drone will first ascend to the preset RTH altitude, then fly horizontally to above Home Point and descend to land.

FLIGHT OPERATION GUIDE

Low Battery RTH

1. The Low Battery RTH will be triggered when the drone battery is low and the RTH Distance is over 30m.

2. The Low Battery RTH will be triggered when the drone battery is low and the RTH Distance is over 30m.

3. The Low Battery RTH will be triggered when the drone battery is low and the RTH Distance is over 30m.

FLIGHT OPERATION GUIDE

Photo/Video

Short Press: To take a photo.

Long Press: To start recording a video; press and hold the video button to stop recording and save the video to your mobile device and memory card if you are using Snaptain Nova App.

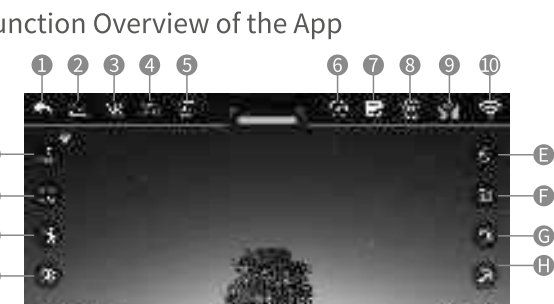
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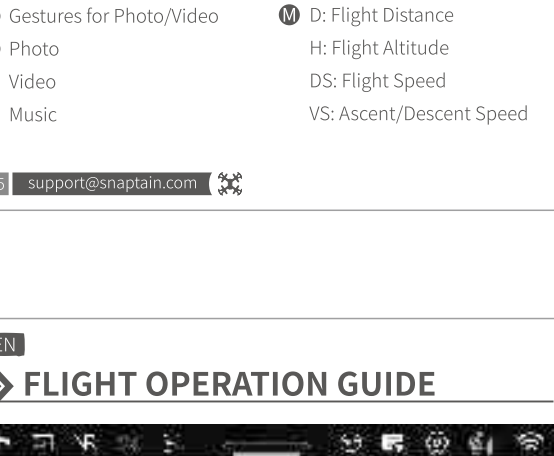
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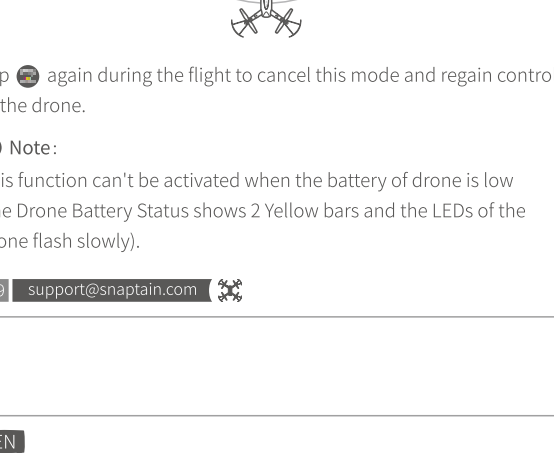
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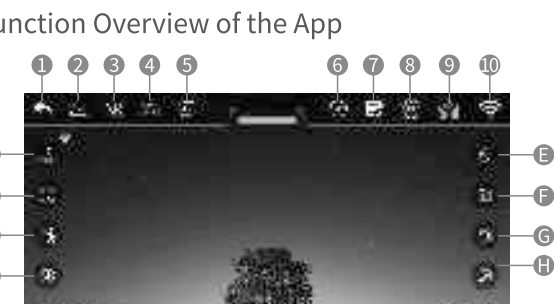
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