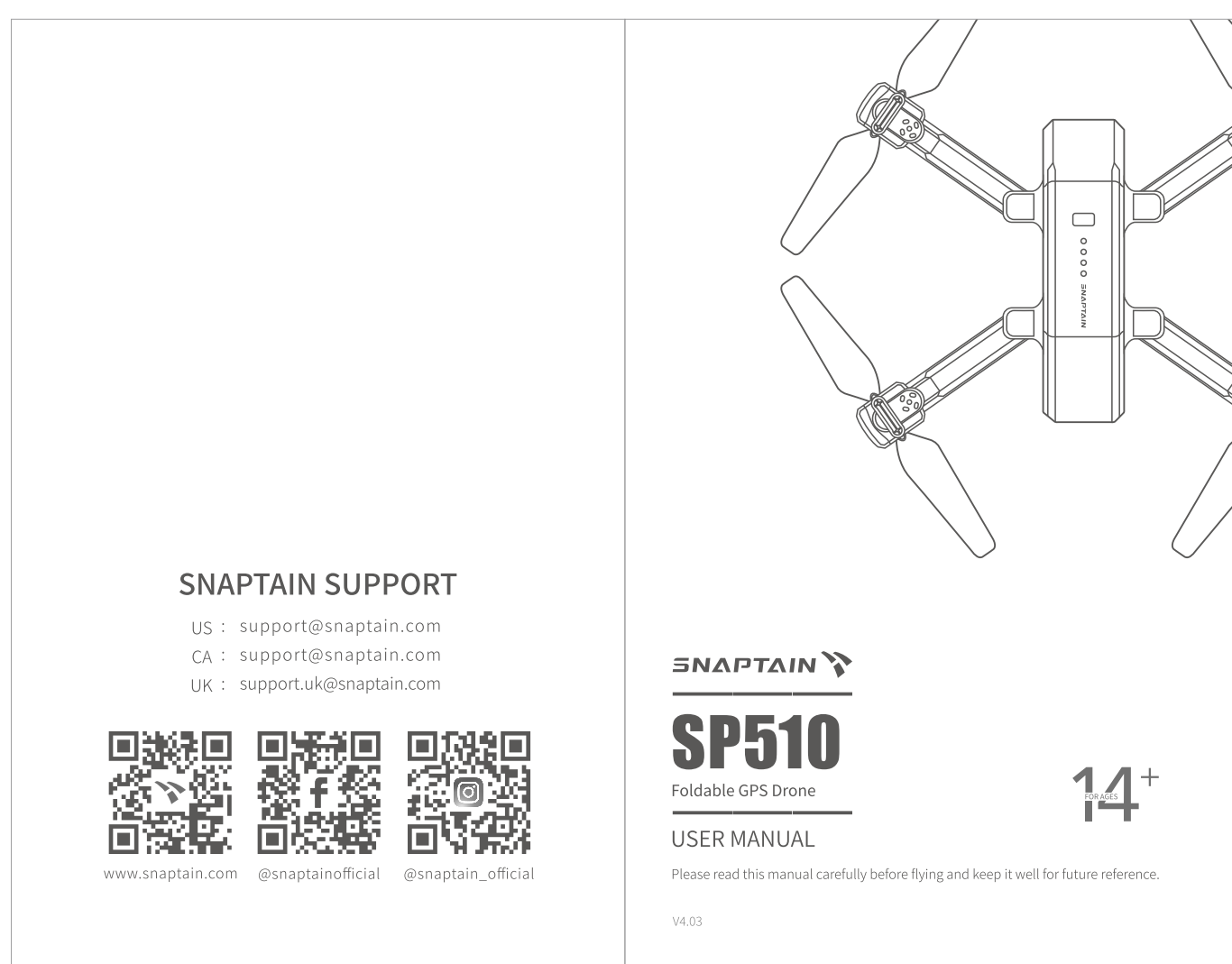




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DISCLAIMER AND SAFETY GUIDELINES

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 thoroughly.

01 Before flying, please make some practice with a simulator or seek for the instruction from a professional.

02 DO NOT fly above or near obstacles, crowds, open water, public road, high voltage power lines or trees.

03 DO NOT use the drone in severe weather conditions, such as a rainy day or windy day (wind speed is more than 5.5m/s), snow, hail, lightning, tornadoes, hurricanes, etc.

04 DO NOT fly the drone in the magnetic interference area, radio interference area, and government regulated no-fly zones.

05 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.

06 Please maintain 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.

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

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

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

10 CAUTION: Dispose of 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 flight 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 safe and lawful practices including, but not limited to, those set forth in these Disclaimer and Safety Guidelines. SNAPTAIN reserves the right to update this user manual.

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» MAINTENANCE AND CARE

- Thoroughly check the drone after crash or violent impact.
- Do not use or store the battery near fire.
- Do not charge the battery if it is hot. Let it cool down first.
- Do not charge the battery next to inflammable materials such as bed, carpet, wood floors etc., or on surfaces that are electrically conductive. Do not leave the battery unattended while charging.
- ONLY use the original USB cable provided. Unplug the charger once the battery is fully charged.
- Remove the battery from the drone if it will not be used for a long time.
- Store the drone and remote in a cool, dry place away from direct sunlight.
- Be sure to clean off your drone with a dry cloth to prevent any moisture from getting onto the electronics.
- Some parts of the drone and the remote are coated with lubricant, which may overflow during use, please use a cloth to clean it.
- Do not try to disassemble or repair the product by yourself. Please contact support@snapteam.com for more help.
- Please use the original battery provided. Use an incorrect type of battery may lead to fire hazards.
- Do not dispose of the battery in fire or a hot oven, cut or mechanically crush the battery, as this may cause explosions.
- 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.
- 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

SP510 Drone

The diagram shows the SP510 Drone from two perspectives. The top view labels include: Propeller, Head, Front Arm, On/Off, Battery, Rear Arm, Tail, and Battery Level Indicator. The bottom view labels include: Camera (Angle Adjustable), Memory Card Slot, Front LEDs, and Rear LEDs.

Note:
Please don't manually adjust the camera angle to avoid damage to it.

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Remote

Antenna

Headless Mode (Short press)/Attitude Mode (Long press)

Left Control Stick

Smart RTH (Return-to-Home)

Remote Handle

Phone Clamp

One Key Take-off/Landing (Short press), Emergency Stop (Long press)

Right Control Stick

On/Off

Speed Switch

Photo (Short press)/Flight Trimming (Long press)

Camera Tilt

Video

- ① Fully Charged Indicator
- ② Charging Indicator
- ③ Power Indicator
- ④ Smart RTH Indicator
- ⑤ Speed Indicator
- ⑥ Photo/Video Indicator
- ⑦ Headless Mode Indicator/Flight Trimming Indicator

» FLIGHT PREPARATION

- ① Charge the battery, then install it into the drone after it's fully charged.

USB Port (5V)

USB Adapter (5V)

5V/1-2A

Power Bank (5V)

Battery Level Indicator
Low Battery: Flashing Blue
Charging: Flashing Blue
Fully Charged: Solid Blue

Notes:

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

- ② Unfold the rear arms, then the front arms.

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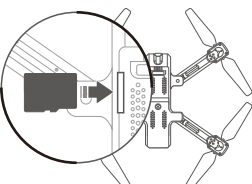
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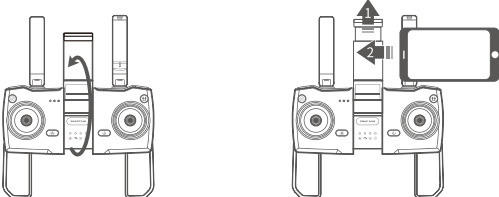
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11 Insert a memory card (not included) into the drone.(Optional)

* FAT 32 format of the memory card is required.
* Support up to 128G.

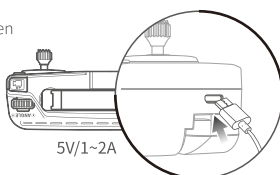


12 Unfold the **Phone Clamp** to see more indicators. Mount your mobile device when using it to fly the drone.

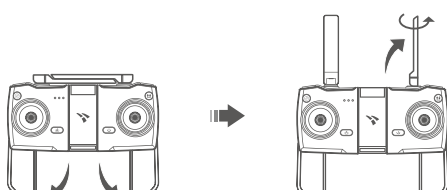


13 Charge the remote.

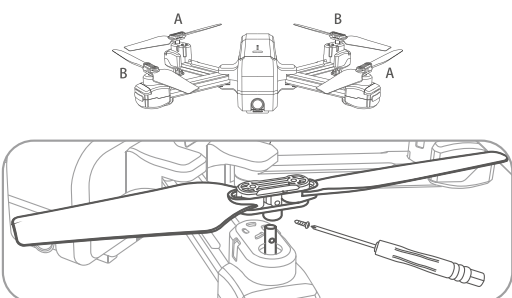
Fully Charged Indicator: Green
Charging Indicator: Red



14 Unfold the **Remote Handle and Antenna**.



15 Replace the propeller when it's needed. (Optional)



- ① Loosen the screw to remove the propeller.
- ② 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.
- ③ Tighten the screw.

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FLIGHT OPERATION GUIDE

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FLIGHT OPERATION GUIDE

IMPORTANT:

- 1 Make sure you power on the drone first, then the remote in which flight mode is restarted.
- 2 Do repeat the pairing and calibration procedure each time the drone or remote is restarted.
- 3 For all flight functions and modes, the operator and tail of the drone must be aligned.
- 4 We recommend flying in the open air and within the control range for beginners.
- 5 Use the remote and Apps simultaneously to fly the drone for better flying experience.
- 6 The maximum flight distance (the maximum distance from the drone and the last recorded Home Point) is set to 30m by default and you can reset it in Settings of App.

Remote Operation Guide

Pair the Remote with the Drone

Step 1:

Turn on the remote by pressing and holding the **On/Off** button for 3s until the four indicators on the battery light up, then place it on a flat surface with the head forward. LEDs on the arms of the drone flash red slowly.

Flash red slowly

Step 2:

Short press the **On/Off** button on the remote to turn it on and there is one beep from the remote. Push the **Left Control Stick** forward to the top, then pull it backward to the bottom. Pairing is completed when the front LEDs of the drone flash white slowly and the rear LEDs of the drone flash blue slowly.

Flash white slowly

Flash blue slowly

Tips:

- 1 Short press the **On/Off** button on the remote, then press and hold it for 2s until you hear a beep sound to turn it off.
- 2 The drone and remote will turn off automatically after 10 minutes of inactivity.

Flight Calibration

After pairing, the LEDs on the arms of the drone will turn to flash red quickly, indicating that the drone needs to be calibrated.

Note:

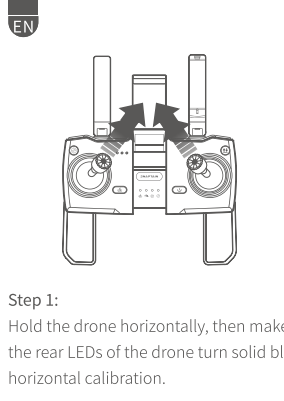
If the drone often flies in the same place, its LEDs won't turn to flash red quickly after pairing, however, it's still necessary to do the calibration.

Compass Calibration

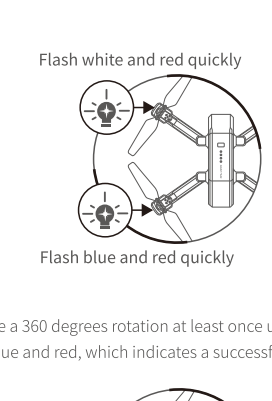
Push the **Left Control Stick** to the upper right at 45° and the **Right Control Stick** to the upper left at 45°. The front LEDs of the drone flash white and red quickly and the rear LEDs flash blue and red quickly.

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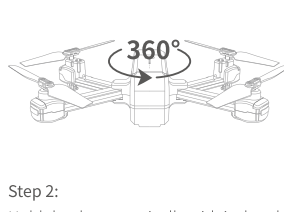
Flash white and red quickly



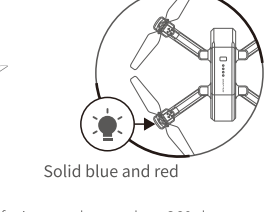
Flash blue and red quickly

Step 1:

Hold the drone horizontally, then make a 360 degrees rotation at least once until the rear LEDs of the drone turn solid blue and red, which indicates a successful horizontal calibration.

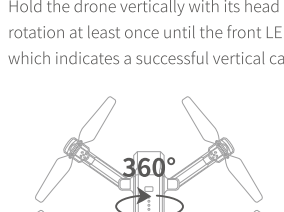


Solid blue and red

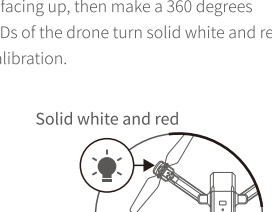


Step 2:

Hold the drone vertically with its head facing up, then make a 360 degrees rotation at least once until the front LEDs of the drone turn solid white and red, which indicates a successful vertical calibration.



Solid white and red

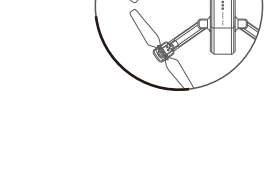
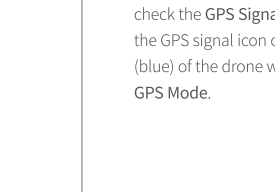


Notes:

- Make sure to keep away from ferromagnetic substance and other electronic equipment when calibrating.
- If the LEDs on the arms of the drone keep flashing red when calibrating, please move to another place to fly the drone.

Gyro Calibration

Place the drone on a flat surface after finishing compass calibration. Push the **Left Control Stick** to the upper left at 45°, and the **Right Control Stick** to the upper right at 45° to start calibrating the gyro. Gyro calibration completes when the front LEDs (white) and the rear LEDs (blue) of the drone turn to flash slowly from flashing quickly.

Flash white slowly

Flash blue slowly

Note:

If the drone finds enough satellites, its LEDs will turn solid on after gyro calibration.

GPS Satellites Searching

Wait for the drone to search for GPS satellites. You could go to **Snaptain Nova** app to check the **GPS Signal** (refer to page 24-26). When the drone finds enough satellites, the GPS signal icon on App will turn blue, and the front LEDs (white) and rear LEDs (blue) of the drone will turn solid on, indicating that the drone is ready to take off in GPS Mode.

Ready to take off in GPS Mode

The drone is set in **GPS Mode** by default. In this mode, the drone can utilize the GPS module to locate itself and make a precise hovering flight. **GPS Mode** works only when the GPS signal is strong. Please fly the drone outdoors.

Notes:

- 1 We strongly recommend **GPS Mode** for beginners.
- 2 If you still want the drone to take off when **GPS Mode** is unavailable, you can switch to **ATTI (Attitude) Mode** (refer to Page 18).

Flight Instructions

Take-off

Option 1:

Move the **Left Control Stick** to lower right at 45° and the **Right Control Stick** to lower left at 45° at the same time until the four rotor blades start rotating, then short press the **[M]** button to take off at a height around 1.5m.

Option 2:

Move the **Left Control Stick** to lower right at 45° and the **Right Control Stick** to lower left at 45° at the same time until the four rotor blades start rotating, then slowly push the **Left Control Stick** forward to take off.

Notes:

- 1 If you don't want the drone to take off after unlocking it, push the **Left Control Stick** to lower right in 45° and the **Right Control Stick** to lower left in 45° again (see 2) to make the four rotor blades stop rotating.
- 2 The motors will stop working if there is no operation within 20s.

Flight Directions

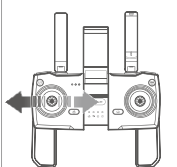
Left Control Stick

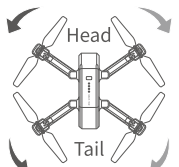
18

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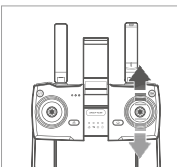
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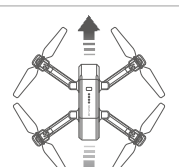
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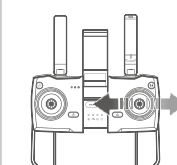


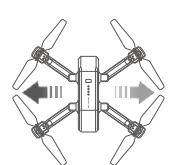
Pull the Left Control Stick leftward and the drone will rotate to the left; pull it rightward and the drone will rotate to the right.





Push the Right Control Stick forward and the drone will fly forward; pull it backward and the drone will fly backward.





Pull the Right Control Stick leftward and the drone will fly leftward; pull it rightward and the drone will fly rightward.

Speed Switch

The speed of the drone is set as **Medium** speed by default. Slide the **SPEED** switch rightward to turn to **High** speed, and slide it leftward to turn to **Low** speed.

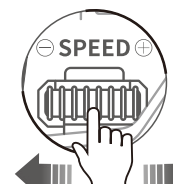


Speed Indicator

Low speed: Off

Medium speed: Solid Blue

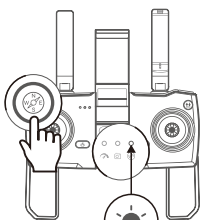
High speed: Flashing Blue



Low speed High speed

Headless Mode

Short press the **Headless Mode** button to activate **Headless Mode**. The **Headless Mode Indicator** on the remote will be solid blue. In this mode, the drone will fly following the direction of the **Right Control Stick** regardless of the position of your drone's head or the tail. Press the same button again to cancel this mode.



Solid blue

Photo/Video

Short press **Photo** to take a photo.

Short press **Video** to start recording a video, press it again to end and save the video to your mobile device and memory card if you are using **Snaptain Nova App**.

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