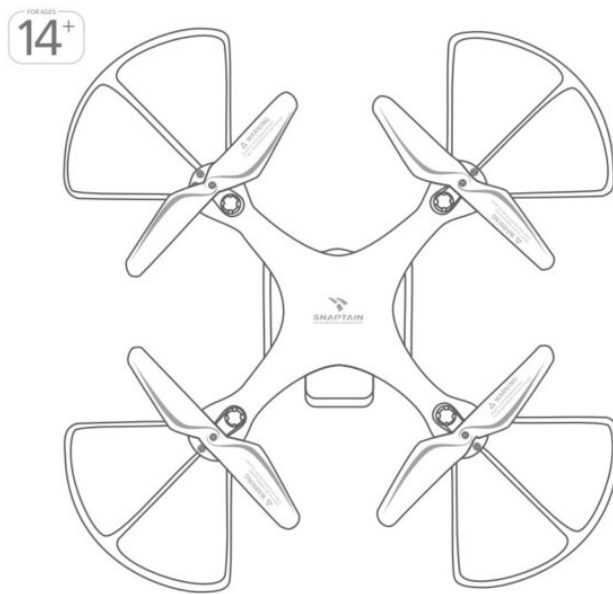




SNAPTAIN SP680 4-Axis Drone User Manual

[Home](#) » [SNAPTAIN](#) » SNAPTAIN SP680 4-Axis Drone User Manual



4-Axis Drone User Manual

Contents [[hide](#)]

- [1 DISCLAIMER AND SAFETY GUIDELINES](#)
- [2 MAINTENANCE AND CARE](#)
- [3 PRODUCT OVERVIEW](#)
- [4 FLIGHT PREPARATION](#)
- [5 FLIGHT OPERATION GUIDE](#)
- [6 LED INDICATORS DESCRIPTION](#)
- [7 TROUBLESHOOTING GUIDE](#)
- [8 SPECIFICATIONS](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)

DISCLAIMER AND SAFETY GUIDELINES

1. DO NOT look directly into the drone light.



2. DO NOT treat the product as household waste.



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



4. DO NOT use the drone in severe weather conditions. These include wind, snow, rain, smog, hail, lightning, tornadoes or hurricanes.



5. Stay away from the rotating propellers and motors to avoid some tiny objects (e.g. hair) to get into them.



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



7. 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.



8. This drone does not come with a GPS module. Please fly the drone within the control range and always keep an eye on the flying.



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



10. 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.



CAPTAIN 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 Safety Guidelines. CAPTAIN reserves the right to update this user manual.

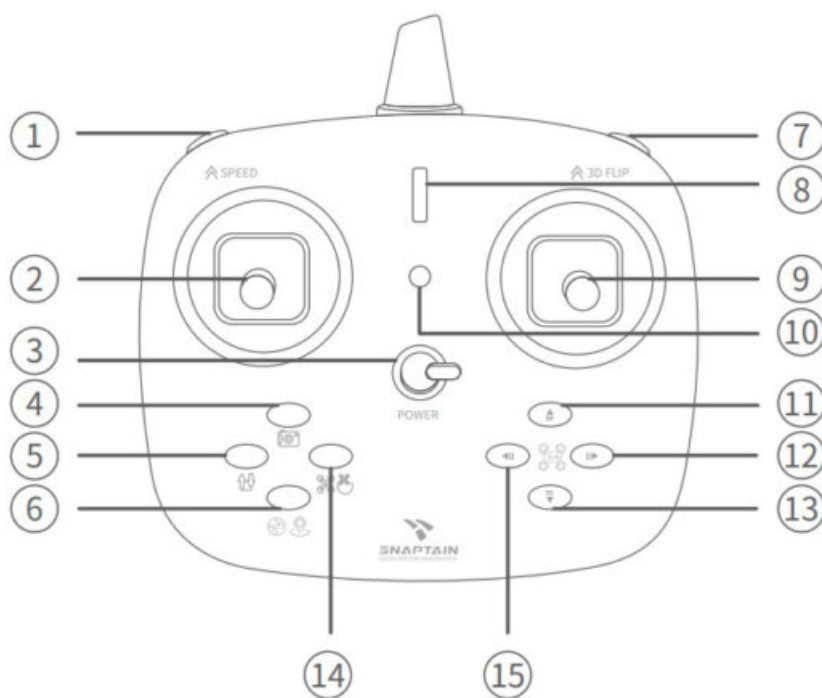
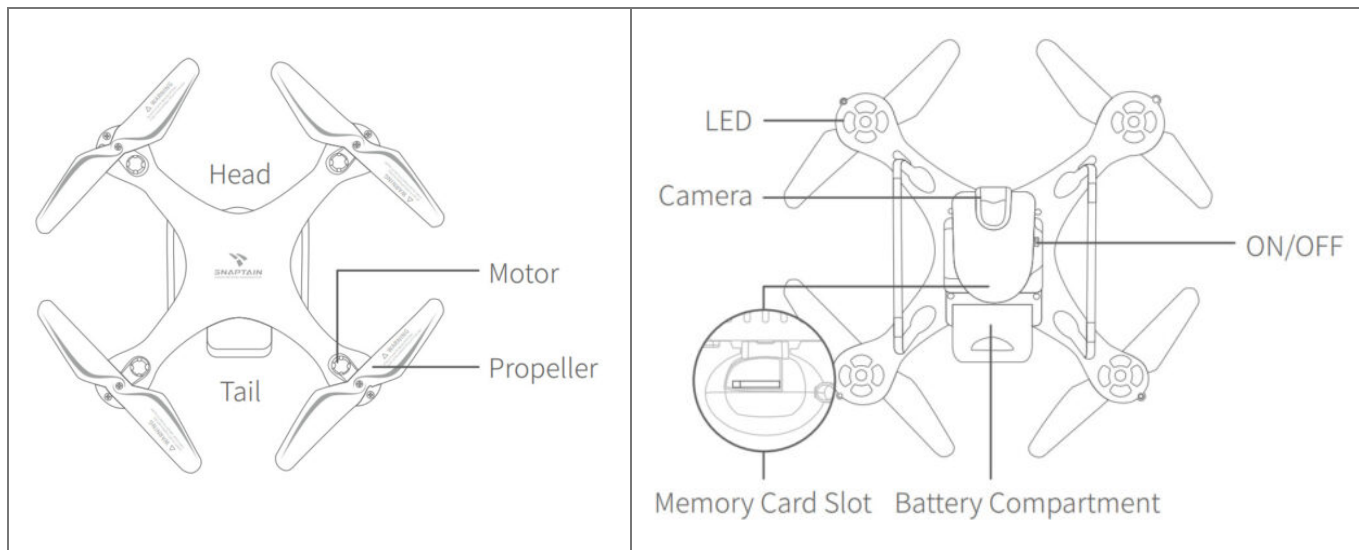
MAINTENANCE AND CARE

1. Thoroughly check the drone after a crash or a violent impact.
2. Clean off your drone with a dry cloth to prevent any moisture from getting onto the electronics.
3. Do not try to disassemble or repair the product yourself. Please contact SNAPTAIN for more help.
4. Remove the batteries from both the drone and the remote if they will not be used for a long time.
5. Avoid direct contact of the camera with water or other liquids. Wipe dry with a soft absorbent cloth if it gets wet.
6. Please store and charge the battery in a cool (0~40°C) and dry place. 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.
7. Please use the original battery provided. Use an incorrect type of battery may lead to fire hazards.
8. Do not charge the battery if it is hot. Let it cool down first.
9. ONLY use the original USB cable provided. Do not overcharge the battery. Unplug the charger once the battery is fully charged.
10. Do not charge the battery next to inflammables, such as bed, carpet, wood floor, etc., or on surfaces that are electrically conductive. Do not leave the battery unattended while charging.
11. Keep the battery away from any sharp objects that could puncture into the battery to avoid risks of explosion and fire.
12. Do not dispose of the battery in fire or a hot oven, cut or mechanically crush the battery, as this may cause explosions.
13. Do not drive a nail in, hit with a hammer, or stamp on the battery. Do not strike the battery in other ways.
14. Do not disassemble or alter the outside structure of the battery.
15. 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.
16. Do not store the battery for long periods of time when it's in low battery status. To extend the battery's lifespan,

recharge it at least once every three months if not using it for long periods of time.

17. Replace the battery if it's swollen.

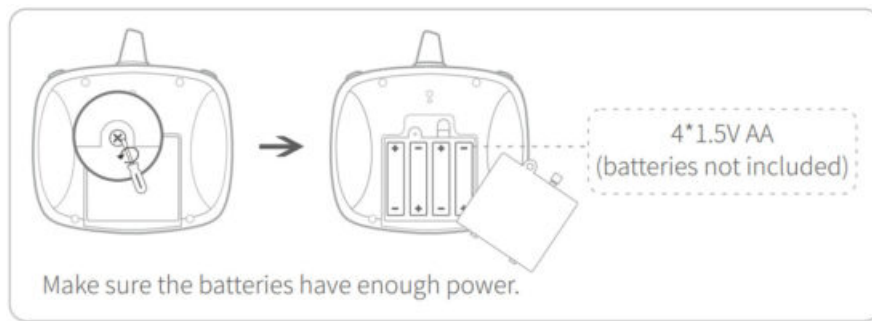
PRODUCT OVERVIEW



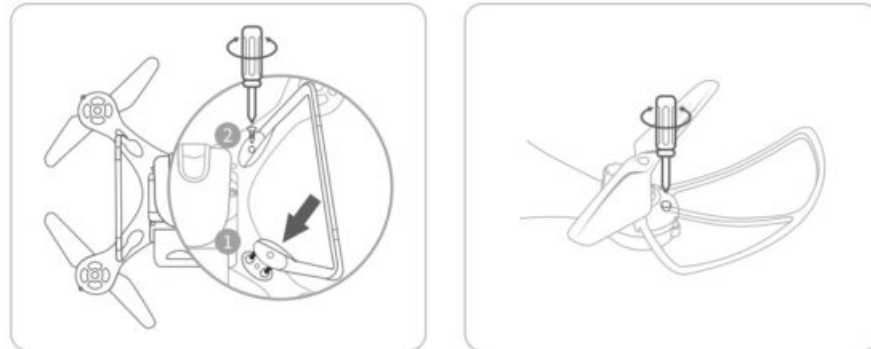
1 Speed Switch/Emergency Stop (Long Press)	8. Lanyard Hole
2. Left Control Stick	9. Right Control Stick
3. ON/OFF	10. LED
4. Photo/Video (Long Press)	11. Forward Trim
5. One Key Take-off/Landing	12. Rightward Trim
6. Headless Mode/One Key Return (Long Press)	13. Backward Trim
7. 360° Flip	14. High-speed Rotation/ Circle Fly (Long Press)
	15. Leftward Trim

FLIGHT PREPARATION

1. Install the remote batteries.

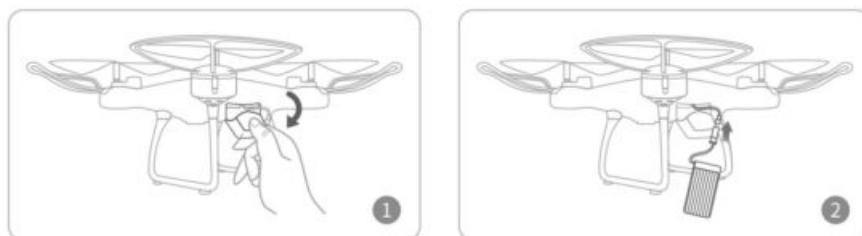
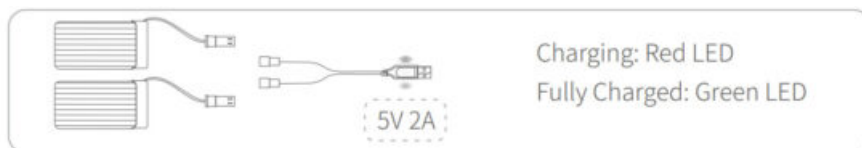


2. Install the landing skids to the bottom of the drone, then tighten the screws.



3. Install the propeller protectors into the drone, then tighten the screws.

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



Tips

For your safety, please use the original battery and USB cable.

The flight time of the battery may be reduced when flying in cold weather.

There is a continuous beeping sound from the remote when the battery of the drone is low during flight.

FLIGHT OPERATION GUIDE

Fly the Drone with the Remote Important

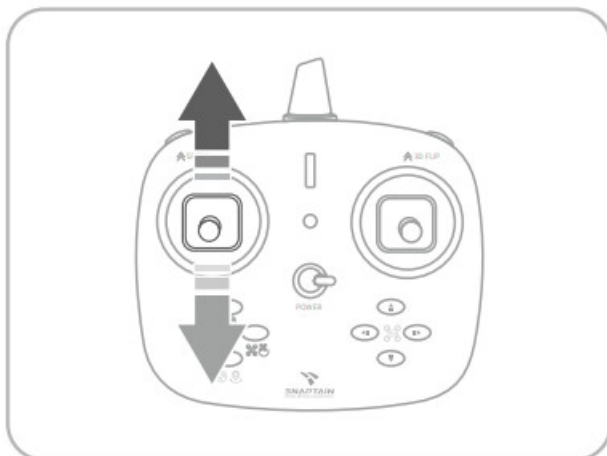
- Make sure you power on the drone first, then the remote in each flight.
- Do repeat the pairing procedure each time the drone or remote is restarted.
- For all flight functions and modes, the operator and tail of the drone must be aligned.
- Fly the drone in the open air after you have plenty of experience.

Pair the Remote with the Drone

Step 1:

Turn on the drone, then the remote. LEDs on the drone start to flash, then put the drone on a flat surface with the head forward.

Step 2: Push the Left Control Stick forward to the top, then pull it back to the bottom. Pairing is successful when the LEDs on the drone turn solid on from a quick flash.

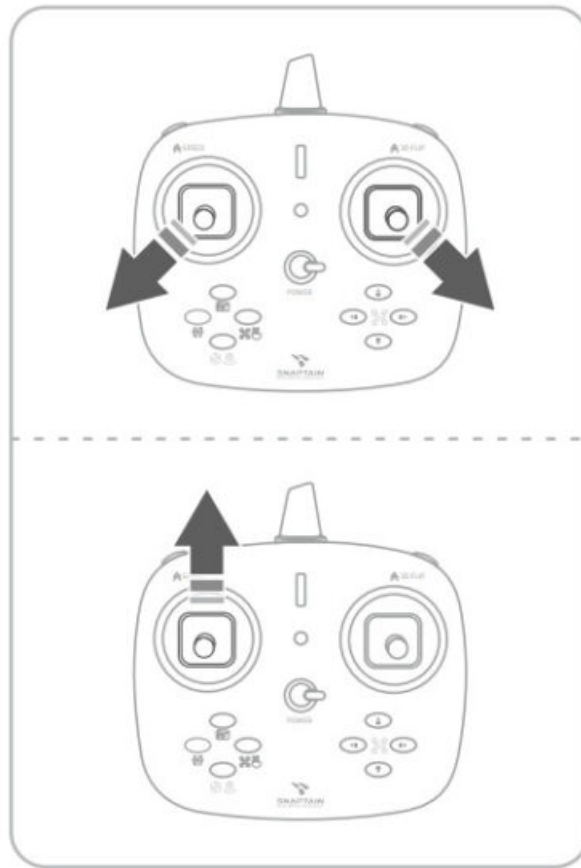
**Flight Calibration**

Move both control sticks to lower right in 45° and hold for 2-3 sec after the pairing. The calibration completes when the LEDs on the drone turn solid on from quick flash.

**Take-off**

Option 1: Press the  button to take off.

Option 2: Move the Left Control Stick to lower left in 45° and the Right Control Stick to the lower right in 45° at the same time until four rotor blades start rotating, then slowly push the Left Control Stick forward to take off.



Landing



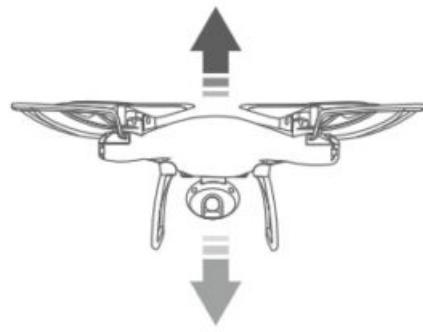
Option 1: Press — the button to land during the flight.

Option 2:

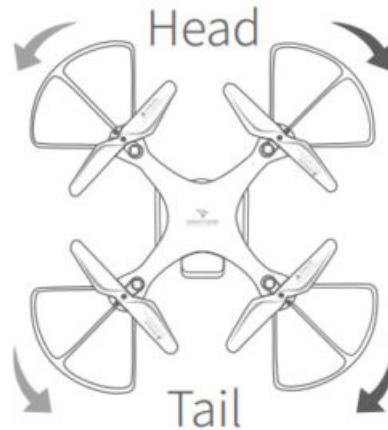
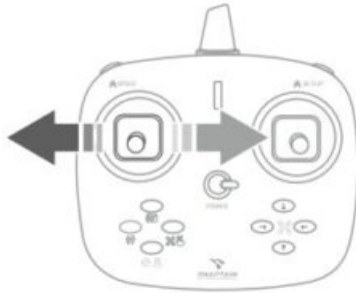
Pull the Left Control Stick backward to the bottom to land the drone, and hold it for 3s at least until all the rotor blades stop rotating.



Flight Directions Left Control Stick

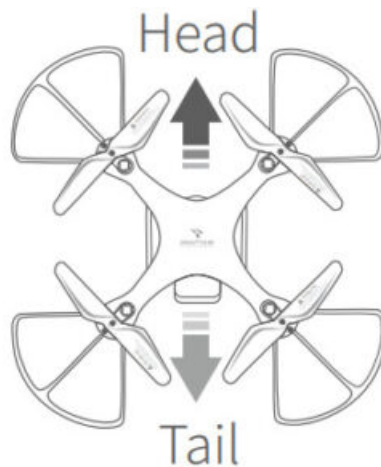


Push the Left Control Stick forward and the drone will ascend; pull it backward and the drone will descend.

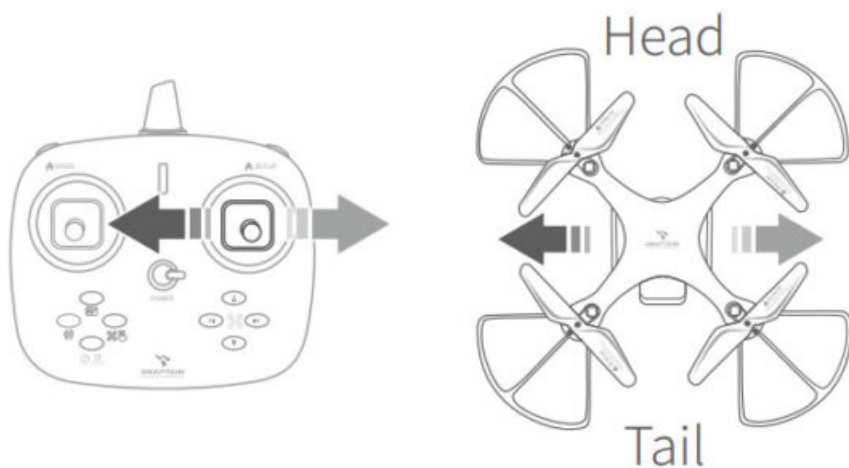


Pull the Left Control Stick leftward and the drone will rotate to the left; pull it rightward and the drone will rotate to the right

Right Control Stick



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

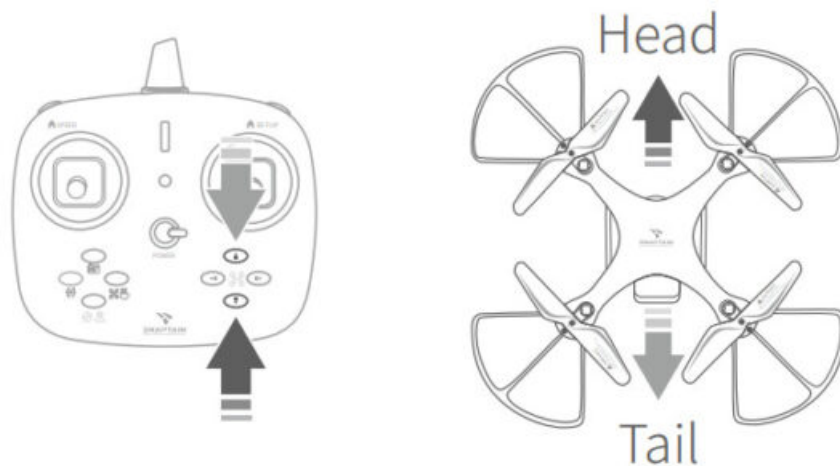


Pull the Right Control Stick leftward and the drone will fly leftward; pull it rightward and the drone will fly rightward.

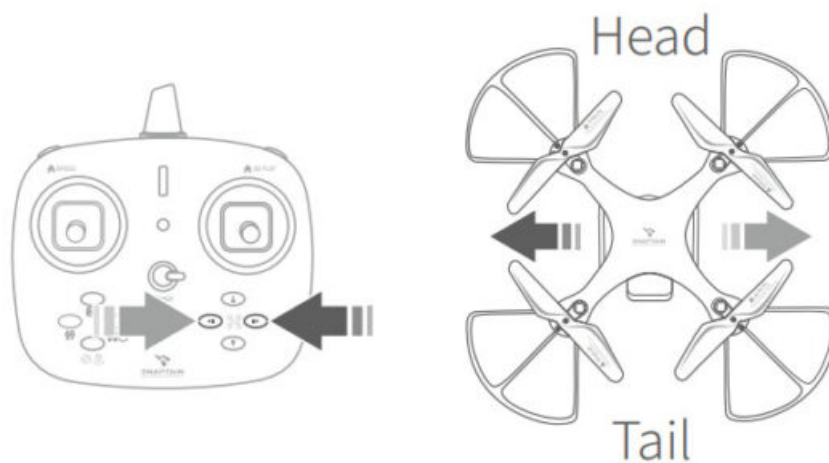
Altitude Hold/Hover

This is one of the default settings of the drone. When you release the Left Control Stick after the ascent/descent action, the drone will hover at the current flight height. For a stable flight, press the trim buttons to adjust accordingly.

Flight Trimming



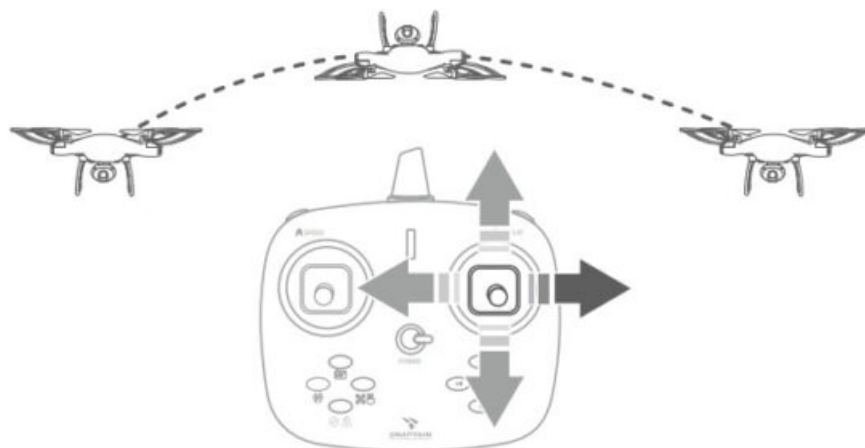
If the drone drifts forward or backward when hovering, slightly press the Backward Trim button or the forward Trim button to adjust.



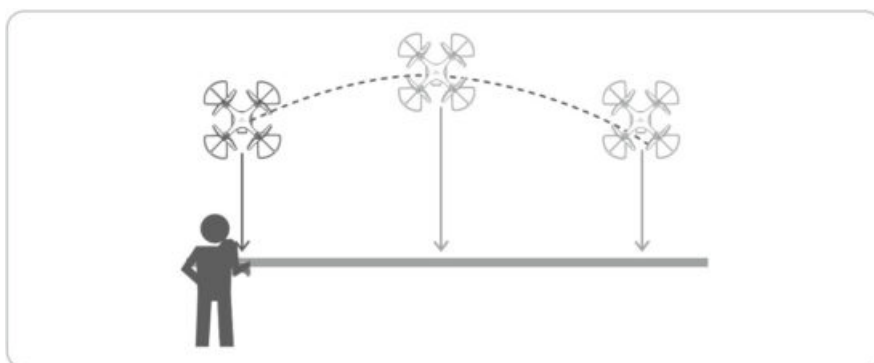
If the drone drifts leftward or rightward when hovering, slightly press the Rightward Trim button or the leftward Trim button to adjust.

360° Flip

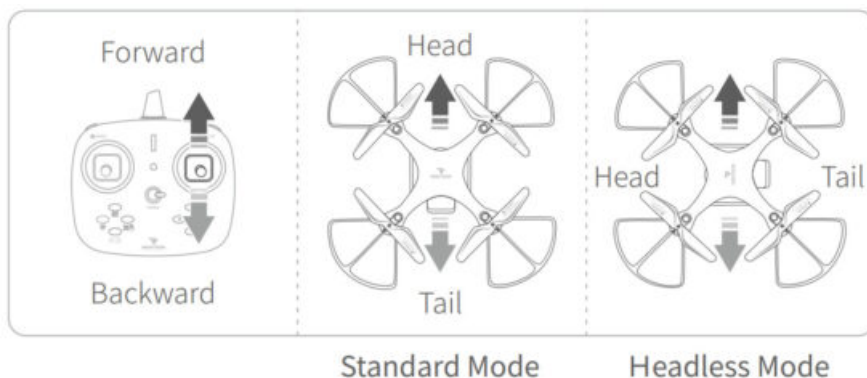
Fly the drone to a height over 2 meters, press the 360° Flip button and move the Right Control Stick forward/backward/leftward/rightward to flip the drone 360° accordingly.



One Key Return Press and hold the / button, the drone will fly toward its back following a path that parallels with its original take-off path. Press and hold the button again or push the Right Control Stick forward to cancel One Key Return mode.



Headless Mode Press the / button to activate the Headless Mode. 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 tail. Press the same button again to exit Headless Mode.



High-speed Rotation Press the / button to rotate the drone with high speed. Press the button again or move the Right Control Stick to any direction to exit the High-speed Rotation mode.

Circle Fly-In the case of barrier-free within 5M radius around the drone. Press and hold the / button to make the drone flying in circles. Press and hold the button again or move the Right Control Stick to any direction to exit the Circle Fly mode.

Speed Switch

The drone is set to low speed by default. Press the Speed Switch button once for medium speed, press again for high speed; a third press will get back to low speed.

Emergency Stop

Press and hold the Emergency Stop button, then the drone will stop in the air and fall.

Note

It's NOT recommended to use this function during normal flight for landing, which may cause serious damage to

your drone.

Fly the drone with the App

Download and Install the App



Download and install Snaptain Nova into your mobile device from App Store/Google Play or by scanning the QR code below.

	
For Android 4.6 and later	For iOS 8.0 and later
https://qrs.ly/yd9tawv	https://qrs.ly/b49tay1

Note

* Google Play™ is a trademark of Google Inc., and App Store™ is a trademark of Apple Inc. Pair the Drone with the App



1. Power on the drone and the LEDs will flash.
2. Go to the Wifi setting of the mobile device and connect to the Wifi Snaptain-SP680-xxxxxx.
3. Open Snaptain Nova App, select SP680, and tap Start, then tap ON/OFF button to ON. LEDs on the drone turn solid on after a successful pairing.
4. Tap,  then tap  the drone. to calibrate the dron.

Note:

1. If the Captain-SP680-xxxxxx Wifi is not listed in your Wifi list or the App does not show the preview image,

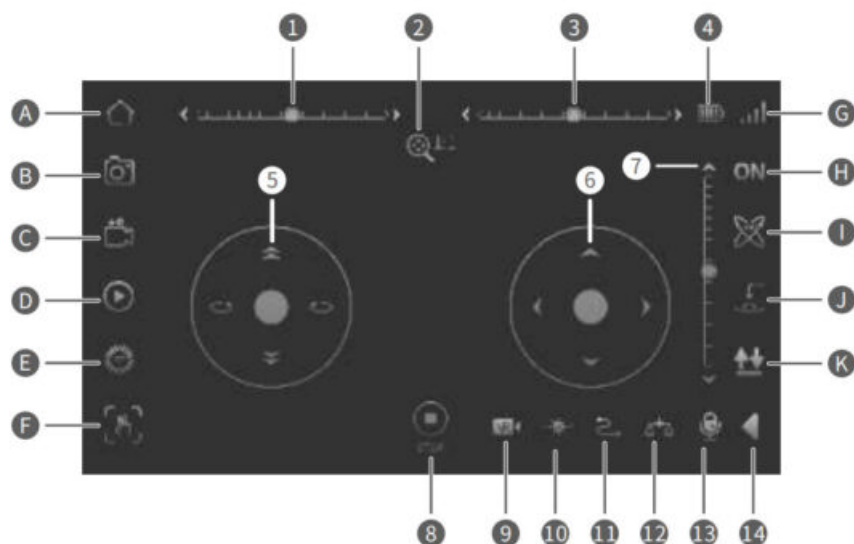
restart the drone.

2. Make sure the Captain-SP680-xxxxxx Wifi is only connected to one mobile device.
3. The drone's Wifi has no Internet access. Please turn off cellular data to prevent your mobile device from automatically switching to cellular data and disconnecting with the drone's Wifi.


Important


To fly the drone with the remote while seeing the image through your mobile device in the App operation mode, tap the ON/OFF icon to turn off the App, then pair the drone and remote. Please turn off the remote when using the App to fly the drone.

Function Overview of the App






<p>A Home</p> <p>B Photo</p> <p>C Video</p> <p>D Media Gallery</p> <p>E Speed Switch</p> <p>F Gestures for Photo/Video</p>	<p>G Wifi Signal</p> <p>H App ON/OFF</p> <p>I 360° Flip</p> <p>J One Key Return</p> <p>K One Key Take-off/Landing</p>
<p>1. Trim Clockwise/Anticlockwise</p> <p>2. Scale (available only after tapping)</p> <p>3. Trim Leftward /Rightward</p> <p>4. Battery Status</p> <p>5. Turn Left/Turn Right/Ascend/Descend</p> <p>6. Forward/Backward/Leftward/Rightward</p> <p>7. Trim Forward/Backward</p>	<p>8. Emergency Stop</p> <p>9. VR Mode</p> <p>10 Headless Mode</p> <p>11. Trajectory Flight</p> <p>12. Calibrate</p> <p>13. Voice Control</p> <p>14. More</p>


Photo: Tap  once to take one photo.


Video: Tap  once to start recording, tap again to end and save the video.

Media Gallery: Tap  to check the photos and videos saved to the mobile device.


Gestures for Photo/Video: Tap  to activate this function. When you face the camera and make a  gesture within a distance of 2-3M between you and the camera, the camera takes one photo; when you make a  a gesture, the camera starts recording; when you make a gesture again, the camera ends recording and saves the video.



Battery Status: Check the battery status of the drone.

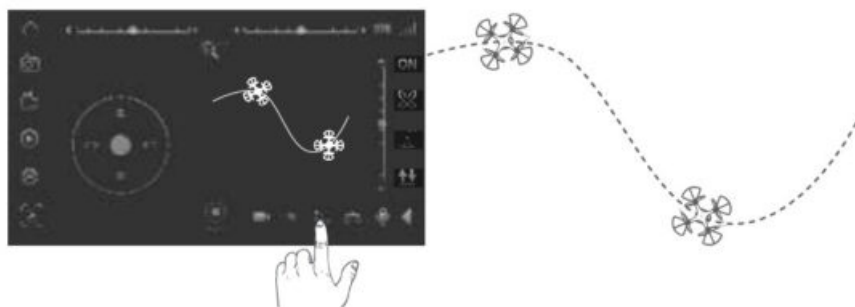
Wifi Signal: Check the Wifi signal strength of the drone to avoid losing control. When it drops to 1 of 4 bars(), please fly the drone back immediately.


More: Tap  to hide or display icons from 9 to 13.

VR Mode: VR device (not included) is required to activate VR Mode.

Trajectory Flight: Tap  to activate the Trajectory Flight mode. Draw a path in the blank area on the screen and the drone will fly following the path.

Tap  to modify flight distance and time accordingly. Tap  again to exit this mode.



Calibrate: Tap  to calibrate the drone directly.

Voice Control: Forward, Backward, Left, Right, Take off, Land and Stop. Please refer to the instructions of the remote for other functions.

LED INDICATORS DESCRIPTION

Drone Status	Red LED	Green LED
Uncontrol/ Upai red	Flash slowly	Flash slowly
Paired	Solid	Solid
Photo	Solid	Flash once when taking one photo
Video	Solid	Recording: Flash slowly End the recording: Solid
Headless Mode	Solid	Flash quickly
Calibration	Calibrating: Flash quickly Calibrated: Solid	Calibrating: Flash quickly Calibrated: Solid
Low Battery Warning	Flash quickly	Flash quickly
One Key Return	Returning: the Red and Green LED flash alternately Returned: Solid	

TROUBLESHOOTING GUIDE

Q1. How to avoid losing my drone?

- Make sure the distance between the drone and the remote/App is effective.
- We recommend flying the drone on windless days. If you insist on flying the drone in the wind, we recommend

flying at HIGH speed.

- It's essential to calibrate the drone before flying.

Q2. Drone LEDs do not light up.

- The press the power button on the drone.
- Replace or charge your drone battery.
- Make sure the connectors of the battery are plugged in firmly.

Q3. Drone LEDs keep flashing, but the drone never responds to any command from the remote.

- Pair the drone and remote again.
- Replace or charge the battery of drone.
- Make sure the batteries of the remote have enough power.

Q5. The response from the drone to the control is not sensitive.

- Make sure the distance between the drone and the remote is effective.
- Turn off the remote, and the drone will automatically land. Use the App to fly the drone. If the drone is responsive to the control of the App, then the remote may be defective. Please contact us for help.

Q6. The connection between the drone and the App is frequently lost.

- Make sure the distance between the drone and the mobile device is effective.
- Make sure your mobile device is not connected to another network.

Q7. The App doesn't respond to voice commands.

- Ensure the drone App has access to the audio function of your mobile device.

Q8. Some of the functions don't work in the App.

- Make sure the switch for the App is ON.



Q9. The drone will fly beyond the control range.

- Activate the Headless Mode, then move the Right Control Stick to fly the drone back.

Q10. Replace the rotor blades.

- The rotor blades and motors are marked A and B. Please pair them when replacing the rotor blades.

SPECIFICATIONS

Drone	
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Frequency	Model SP680: 5150-5250MHz; 5725-5850MHz
Maximum Conducted Average Output Power	Model SP680: 5150-5250 MHz: 9.45dBm 5725-5850 MHz: 12.65dBm
Remote	
Operating Frequency	Model SP680: 2430-2475MHz
Transmit Power(EIRP)	Model SP680: 2.4GHz 18dBm
USB Cable	
Input	5V  1-2A
Output	5V  1A
Rated Power	5W

FCC Caution:

Any Changes or modifications 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 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.

For Remote:

This 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 set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Warning:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For R/C QUADCOPTER:

The device is in compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance. The minimum distance from body to use the device is 20cm. The operation of this device in the band 5150-5250 MHz is restricted to indoor use only.

For Remote:

The device is in compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure

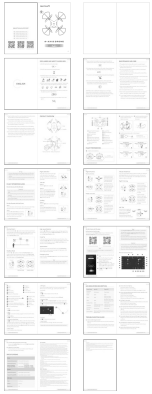
and compliance.

SNAPTAIN SUPPORT

	 @snaptainofficial	 @snaptain_official
https://qrs.ly/3zbd6ne	https://qrs.ly/kvbd6nc	https://qrs.ly/epbd6na

support@snaptain.com
WWW.SNAPTAIN.COM

Documents / Resources



[SNAPTAIN SP680 4-Axis Drone](#) [pdf] User Manual
SP680Q0522, 2AQ3A-SP680Q0522, 2AQ3ASP680Q0522, SP680 4-Axis Drone, SP680, 4-Axis Drone