

SNAPTAIN 

SP660

4-AXIS DRONE

INSTRUCTIONS

V3.01

14+
FOR AGES

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 is not recommended for users under age 14.
7. Please maintain line of sight of your drone at all times. Please do not only rely on first person view camera to control your drone.
8. This drone does not come with a GPS module. Please fly the drone within the control range.
9. This product is not applicable to the 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.

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

MAINTENANCE AND CARE

1. Thoroughly check the drone after crash or violent impact.
2. Do not charge battery before it cools down.
3. Remove the batteries if the products will not be in use for a long time.
4. Do not over charge the battery. Unplug the charger once it's fully charged.
5. Store the drone and remote in a cool, dry place away from direct sunlight.
6. Avoid direct contact of the camera with water or other liquids. Wipe dry with a soft absorbent cloth if it gets wet.
7. Do not charge the battery next to inflammables, such as carpet, timber floor etc., or on the surface of electro-conductive objects.
Please always keep an eye on the battery while charging.

PACKING LIST



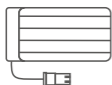
SP660 Drone



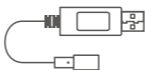
Remote (rechargeable
batteries included)



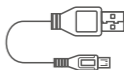
Spare Rotor Blades
A x2, B x2



Li-ion Battery
3.7v x2



USB Cable x2
(for batteries of drone)



USB Cable
(for remote)



Propeller
protector x4



Instructions

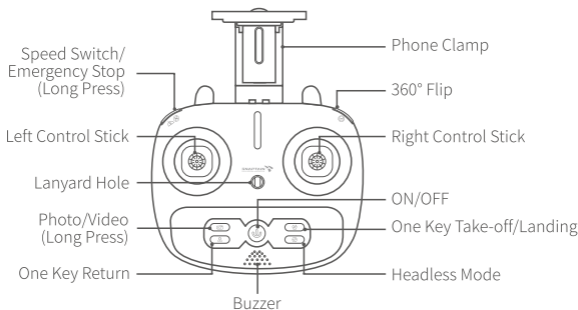
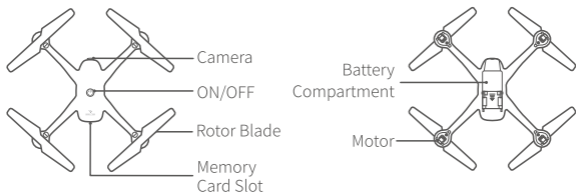


Magnetic
Screwdriver



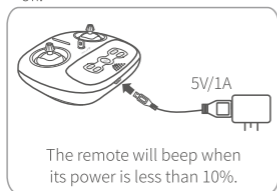
Screw Set/6Pcs

PRODUCT OVERVIEW



FLIGHT PREPARATION

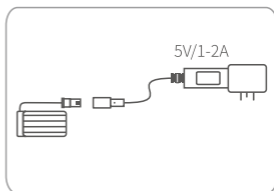
1. Charge the remote when it's turned off.



The remote will beep when its power is less than 10%.

Charging: Red LED
Fully Charged: LED Off

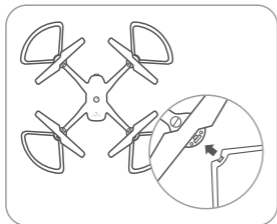
2. Charge the battery of the drone.



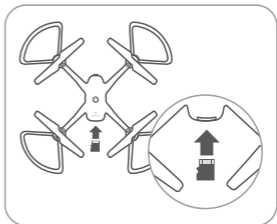
Charging: Red LED
Fully Charged: Green LED

FLIGHT PREPARATION

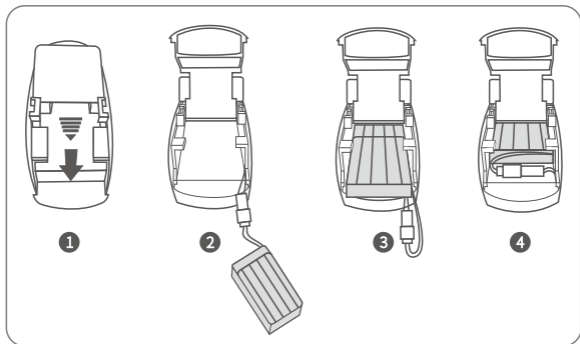
3. Install the propeller protectors onto the motor base until they're attached tightly.



4. Install the memory card into the drone.



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



Tip:

1. For your safety, please use the original battery and USB cable.
2. Flight time of the battery may be reduced when flying in cold weather.
3. Free the battery of any sharp objects that could puncture into the battery to avoid risks of explosion and fire.
4. There is 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

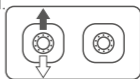
Note:

- *Make sure you power on the drone first, then the remote in each flight.
- *Do repeat the pairing procedure each time when 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 a plenty of experience.

Pair the Remote with the Drone

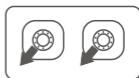
Step 1: Turn on the drone, then the remote. LEDs on the drone start to flash, then put the drone on a flat surface with the head forward.

Step 2: Push the **Left Control Stick** forward to the top, then pull it backward till the bottom. Pairing is successful when the LEDs on the drone are solid on.



Flight Calibration

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






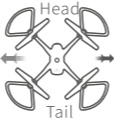
Instructions of the Remote

Left Control Stick




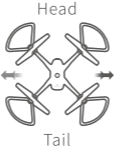
		<p>Push the Left Control Stick forward and the drone will ascend; pull it backward and the drone will descend.</p>
		<p>Pull the Left Control Stick leftward and the drone will rotate to the left; pull it rightward and the drone will rotate to the right.</p>

FLIGHT OPERATION GUIDE

Right Control Stick

		<p>Push the Right Control Stick forward and the drone will fly forward; pull it backward and the drone will fly backward.</p>
		<p>Pull the Right Control Stick leftward and the drone will fly leftward; pull it rightward and the drone will fly rightward.</p>

Flight Trimming

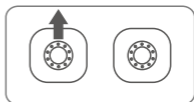
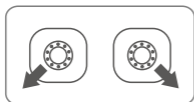
		<p>If the drone drifts forward or backward when hovering, press the Left Control Stick down all the time, then slightly move the Right Control Joystick backward or forward to adjust. Release the Left Control Stick to cancel the trimming mode.</p>
		<p>If the drone drifts leftward or rightward when hovering, press the Left Control Stick down all the time, then slightly move the Right Control Joystick rightward or leftward to adjust. Release the Left Control Stick to cancel the trimming mode.</p>

FLIGHT OPERATION GUIDE


Take-off

Option 1: Press the  button to take off.

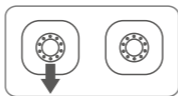
Option 2: Move the **Left Control Stick** to lower left in 45° and the **Right Control Stick** to lower right in 45° at the same time until four rotor blades start rotating, then slowly push the **Left Control Stick** forward to take off.



Landing

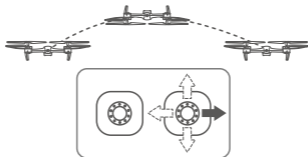
Option 1: Press the  button to land during the flight.

Option 2: During the flight, 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.



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.

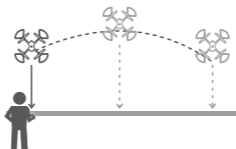


Note: The drone can not perform this function when the battery of the drone is low, but other functions work well.


FLIGHT OPERATION GUIDE

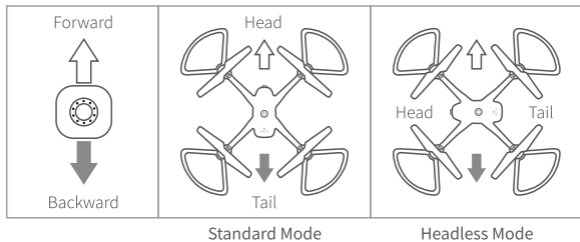
One Key Return

Press the  button, the drone will fly toward its back following a path that parallels with its original take-off path. Press the button again to cancel the mode.



Headless Mode

Press the  button to activate the function. 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 exit this 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.

Altitude Hold/Hover

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

FLIGHT OPERATION GUIDE

Fly the Drone with the App App Download and Installation

Download and install **Snaptain Era** into your mobile device from App store Google Play or by scanning the QR code below.





Android



iOS

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-SP660-xxxx**.
3. Open **Snaptain Era** App and slide to the interface of SP660.
4. Tap **Function Display** and **ON/OFF** to turn on the App.
LEDs on the drone turn solid on after a successful connection.
5. Tap , then tap  to calibrate the drone.

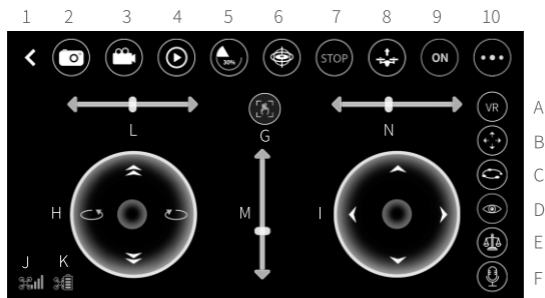


Notes:

1. If the **Snaptain-SP660-xxxx** Wifi is not listed in your Wifi list or the App does not show the preview image, restart the drone.
2. Make sure the **Snaptain-SP660-xxxx** Wifi is only connected to one mobile device.

FLIGHT OPERATION GUIDE

Function Overview of the App



- | | |
|-----------------------------|--|
| 1. Back | A. VR Mode |
| 2. Photo | B. Headless Mode |
| 3. Video | C. Trajectory Flight |
| 4. Media Gallery | D. Trim ON/OFF |
| 5. Speed Switch | E. Calibration |
| 6. G-Sensor | F. Voice Control |
| 7. Emergency Stop | G. Gestures for Photo/Video |
| 8. One Key Take-off/Landing | H. Turn Left/Turn Right/Ascend/Descend |
| 9. App ON/OFF | I. Forward/Backward/Leftward/Rightward |
| 10. More | J. Wifi Signal |
| | K. Battery Status |
| | L. Trim Clockwise/Anticlockwise |
| | M. Trim forward/backward |
| | N. Trim leftward/rightward |





* **More:** Tap to hide or display icons from A to F.

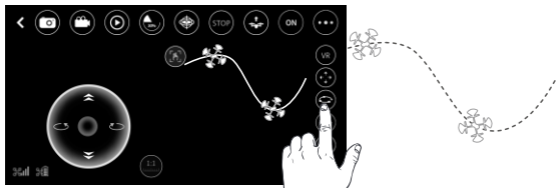
* **Photo:** Tap once to take one photo.







* **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.

FLIGHT OPERATION GUIDE

- * **G-Sensor Mode:** Tap  to activate this mode. The drone will fly following the inclines of your mobile device in its landscape orientation.
- * **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.



- * **Calibration:** Tap  to calibrate the drone directly.
- * **Voice Control:** Take off, land, forward, backward, to leftside, to rightside.
- * **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  gesture, the camera starts recording; when you make a  gesture again, the camera ends and saves the video.
- * **Wifi Signal:** check the Wifi status of the drone to avoid losing control. When it drops to 1 of 4 bars () , please fly the drone back immediately.
- * **Battery Status:** check the battery status of the drone.

Please refer to the instructions of the remote for the other functions.

Note:

To fly the drone with the remote while see the image through your mobile device in the App operation mode, tap the ON/OFF button to OFF, then link the drone and remote.

LED INDICATORS DESCRIPTION

Drone Status	Red LED	Green LED
Uncontrol/Unlink	Flash slowly	Flash slowly
Linked	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 alternatively Returned: Solid	

PARAMETERS

Photo Resolution	1280*720	Charging time for remote	45 mins
Photo Format	JPG	Charging time for drone	180 mins
Storage	Mobile device/ Memory card	Video Resolution	720P
Maximum Flight Relative Height	30M	Video Format	MP4
Motor	816 Coreless	FPV Range	≤40M
Drone Battery	Li-ion Battery	Control Range	≤80M
Mobile App Requirement	Android 4.4 and above, iOS 7.0 and above		

TROUBLESHOOTING GUIDE

Q1: Drone LEDs do not light up.

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

Q2: 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.

Q3: The flight is not stable.

- *Return the drone and restart to do a flight calibration as instructed.
- *Make the flight trimming accordingly.
- *Fly the drone when the weather is good.

Q4: The response from the drone to the control is not sensitive.

- *Make sure the distance between the drone and the mobile device is effective.

Q5: 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.

Q6: The App doesn't respond to voice commands.

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

Q7: Some of the functions don't work in the App.

- *Make sure the switch for the App is ON.

Q8: The drone will fly beyond the control range.

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

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 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For R/C QUADCOPTER

The device is 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.

Le présent appareil est conforme

Après examen de ce matériel aux conformité ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 20cm.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS


 The symbol indicates DC voltage


 RECYCLING


This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment. This product can be used across EU member states.

 BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY

 Refer to the user manual and relevant text.

 Operate the product according to the instructions.

Manufacturer

Shenzhen VanTop Technology & Innovation Co., Ltd.

Manufacturer address:

502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China

EC

REP

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