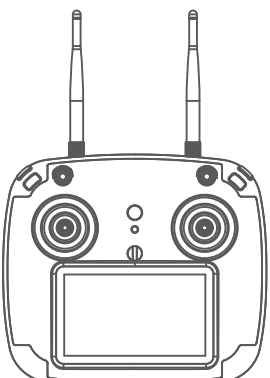
spry

Remote Controller User Manual



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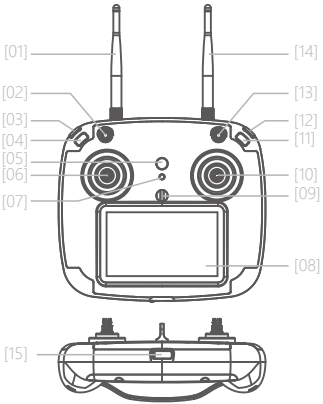
Remote Controller Illustration



[01] 2.4G Remote Antenna
For drone control signal

[02] Return-Home Switch
Commands the drone to return automatically

[03] Camera Tilt Down Button
Tilts the camera down

[04] Follow Me Button
Controls the drone to follow the remote controller

[05] Power Button + Controller Status Light
Press and hold to power on the remote controller.
The button will glow to indicate remote controller status.

[06] Left Joystick
Control the drone's ascent (up), descent (down) and/or to rotate the aircraft nose left or right.

[07] FPV Channel Button
Press and hold to search for the best FPV channel

[08] FPV Screen
Displays flight data and FPV video

[09] Hanger Ring
Attachment point for neck lanyard

[10] Right joystick
Controls the drone direction of flight

[11] Camera Button
Used for controlling Video and Photo functions.

[12] Camera Up Button
Tilts the camera up

[13] Flight Mode Switch
GPS / Circle / ATTI

[14] 5.8G FPV Antenna
Receives FPV live video 5.8GHz

[15] USB Port/Vent plug
For charging the remote controller battery and performing firmware upgrades

⚠ Before powering on the controller, please be sure to put all the toggle switches on the controller in the up position.

⚠ As the remote controller is completely sealed, the air inside is subject to changes in pressure and temperature. If the rubber joystick seals balloon or suck in, simply equalize the pressure inside the remote by briefly opening the USB charge plug.

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Remote Controller

This section introduces the remote controller functions, including the drone operation and the camera operation.

Charging Remote Controller Battery

The Spry remote controller has a built-in battery and charging circuit. Charge the controller using the supplied micro-USB cable and a regular 5V /2A USB charger. **Some USB ports and some USB cables cannot provide the full 2 amps (2A) of power required. These ports and cables can still be used to charge the Remote Controller but the charging time will be longer.** Normal charging time is ~90 minutes.

During charging, the remote controllers power button will glow blue. When charging is complete the blue light will turn off. Charging is possible during flight if necessary, but the remote must be connected to the drone before connecting the charging cable.

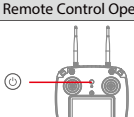
Low Battery Alarm

The remote control has a built-in lithium battery and the operating time is about 2 hours. When the remote controller battery is low, the remote control will beep and the battery power icon in the upper right corner of the screen will be red. The remote control will then have approximately 10 minutes of power left. It is best to return the drone and land as soon as possible or plug in the controller to charge the battery.

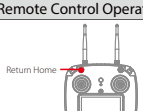
Remote Controller Operation

The Spry Remote Controller operates using two frequency bands, 2.4GHz and 5.8GHz. The 2.4GHz band is used for drone control and 5.8GHz is for the FPV video signal. The remote control has a built-in 4.3-inch FPV screen that displays real-time images and flight data of the aircraft.

Power ON and Power OFF

Remote Control Operation	Description
	**Power on:** Long-press the power button for 3 seconds, the remote controller will vibrate, beep and screen will turn on. **Power off:** Long-press the power button again for 3 seconds to turn off the remote control.

One Key Return Home

Remote Control Operation	Description
	**On:** Long-press the Return Home switch until the the controller beeps. The aircraft enters the return state, and the FPV screen will display "RTH". **Cancel Return Home:** Long-press the Return Home switch until the controller beeps.

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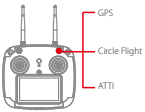
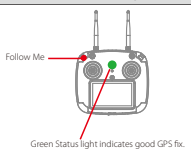
Flight Modes

Remote Control Operation	Description
	GPS：GPS mode Circle Flight：Orbit mode ATTI：ATTI mode

⚠ Note: In circle mode, by activating the Follow Me mode the aircraft can fly around a moving object as long as the speed of moving objects is less than 4 m/s (15km/h).

Follow Me Mode

Remote Control Operation	Description
	When the Controller Status Light is solid green, this indicates that the GPS of the remote control has a fix and the Follow Me function is available in GPS and Circle mode **To activate Follow Me**, Long-press the Follow Me button "F" for 2 seconds until a beep sounds. The Controller Status Light will change to solid red, indicating that the aircraft enters the Follow Me mode. Long-press the "F" button again for 2 seconds to cancel Follow Me.

⚠ In the Follow Me mode, the joysticks are disabled. Long-press the "F" button again to cancel Follow Me and resume joystick operation.

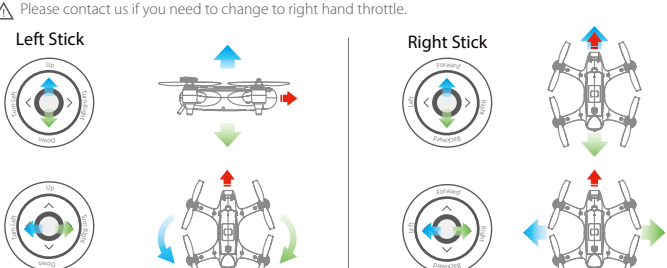
⚠ When the speed of the remote controller exceeds 10m/s during Follow Me operation the Spry will stop following and hover in place.

⚠ If the remote controller's GPS does not have a fix, the Follow Me function cannot be activated.

Drone Control

Left hand throttle- (American/ European configuration)

⚠ Please contact us if you need to change to right hand throttle.



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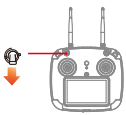
Remote Controller Pairing

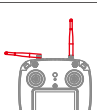
Remote Control Operation	Description
	1. To pair the remote controller to the drone, hold the Return Home switch down and simultaneously power on the remote controller. 2. The remote controller will vibrate and beep twice. The Controller Status Light will flash red and green. 3. Power on the drone. After pairing has completed, the Controller Status Light will turn green. 4. Long-press the FPV channel button. The FPV screen will display "RF SEARCHING" and automatically find the best FPV channel.

FPV Channel Adjust

Remote Control Operation	Description
	There are 8 FPV channels available. Long-press the FPV channel button (CH) and the system will automatically search for channels.

⚠ Always pair the remote controller and then select the FPV channel to match the best channels and avoid interference.

In the absence of obstacles and interference the flight height can reach >80m and FPV transmission range can reach 800m. For best reception, keep the left-hand (2.4GHz) antenna horizontal and the right-hand antenna (5.8GHZ) vertical.



Camera Gimbal Control

Remote Control Operation	Description
	Camera up: Tilt camera up Camera down: Tilt camera down

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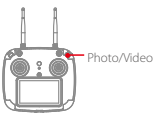
Camera Control

Remote Control Operation	Description
	**Long-press** the camera button (five beeps) to start or stop video recording. **Short-press** the camera button (two beeps) to take a photo. You cannot take a photo if video recording is started. After taking a photo, the camera information window will display a camera icon and the resolution of the photo. The card icon indicates the remaining number of photos the microSD card can hold. In video mode, the card icon indicates the remaining hours and minutes (hh:mm) the microSD card can hold.

⚠ The Spry will automatically save longer video files into chapter files of 4GB.
Always stop video recording before powering off the Spry or your video will be lost.

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APP Control

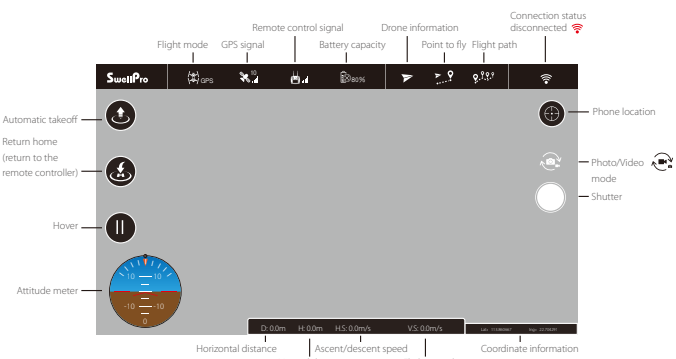
How to Use

The Spry remote controller has a built-in WI-FI module that can be used to connect your mobile device and control the aircraft to perform various intelligent automatic flight modes with the Spry APP.

APP installation: The Spry app is available for iOS and Andoid devices. Android systems can download the APK from either the Android market or our website www.swellpro.com.

To connect the app to the Spry's remote controller, power on the remote controller and drone, then connect your mobile device to the WiFi hotspot called SP_FF1.....

After successfully connecting, open the APP to display realtime data from the drone such as voltage, coordinates, altitude, distance, GPS signal and other flight parameters.



⚠ When flying indoors or in enclosed spaces, the lack of a strong GPS signal will affect the positioning stability of the aircraft. Do not use the APP to control the aircraft at this time.

⚠ If the aircraft is lost due to improper operation or malfunction, you can use the APP to locate the last coordinates to retrieve the aircraft. The Remote Control must be turned on to use the APP.

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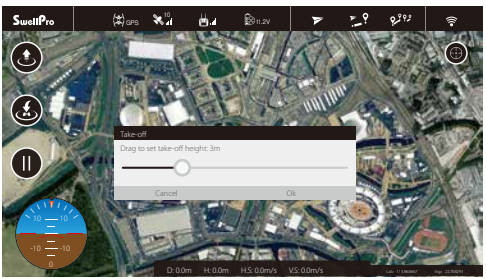
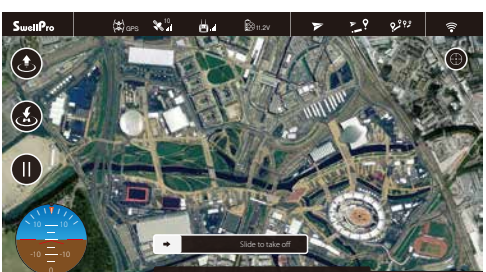
1. Once you have a minimum of 8 GPS satellites, you can unlock the drone and start flying with the remote controller or click the "takeoff" button on the APP, set the take off altitude and then slide to unlock, the drone will ascend automatically and hover.





The APP allows you to set hover, return home, flight paths, follow me, tap to fly, etc.

2. Tap-to-Fly: Click the "Tap-to-Fly" button, and then click the target points on the map and click the Upload button. The drone will start flying to the point and hover there. If you need to set the parameters manually, you can tap on the flight point.

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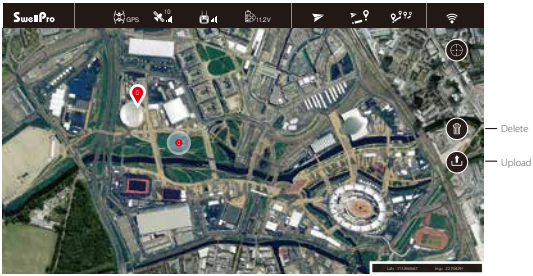
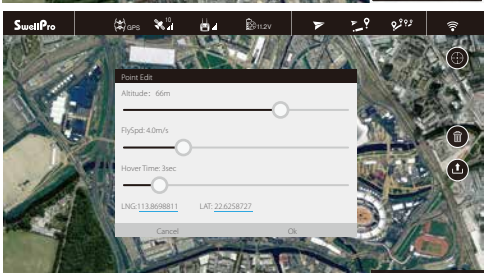
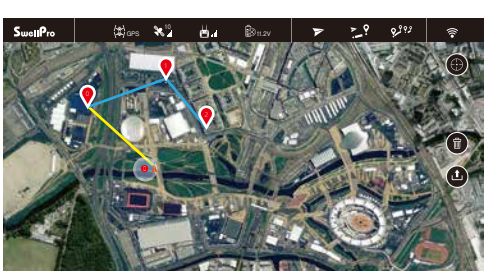




3. Flight Path Setting

a.Tap the "Flight Path Setting" at the top of the screen and tap the map to set the flight path (double tap the flight point to delete it, tap the "Delete" button to delete all flight paths). Tap the flight point again to edit.

b.After completing the setup, click the "Upload" button and the drone will fly according to the flight path.



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⚠ APP control requires a good wireless communication environment. If the drone does not execute the operation command, this may be due to interference, please try again.

⚠ If the drone continually fails to respond to your APP commands, please operate the drone with the remote controller: quickly switch the Flight Mode switch once, it is suggested to use the GPS mode to take over control.

FCC Statement

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.

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

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.