

User Manual





Product Overview

This section introduces the various drone functions, how to assemble the drone, the various part names of the drone, and its remote controller.

Brief Introduction

Spry is the first-ever compact & portable waterproof sports drone.

Its fully waterproof fuselage and built-in camera helps you capture photos and 4K/30fps video in all weather conditions. The competitive power system allows you to experience high speed flight over water - enjoying true freedom.

Highlighted Functions

- The Spry fuselage and remote controller are waterproof and suitable for all-weather, all-terrain cruising.
- The aerodynamic shape of the whole drone is designed to effectively minimize wind resistance and improve flight speed.
- 3. Spry's camera uses a Sony 1/2.3 inch CMOS sensor matched to a lens that minimizes fisheye distortion to obtain natural-looking scenes. Use your Spry to record stunning 4K video at 30 frames per second or take high-definition 12MP photos.
- Adjustable lens angle: The Sprys camera can be tilted up and down with the remote controller to frame your videos better.
- 5. Optional electronic stabilization system helps ensure smoother footage.
- 6. The Spry 4K waterproof camera is sealed in an optical glass dome to protect the camera lens from damage. The specially designed dome has high transparency without distortion and also helps avoid excessive glare.
- Intelligent Follow Me: The Spry uses a built-in motion algorithm to follow the position of the remote controller. The follow me functions supports leading or following camera positions.
- 8. Target orbit: the Spry can perform an autonomous orbit around a moving object.
- Auto return: The Spry constantly monitors the location of the remote controller so that it can return to the last-known position of the pilot in case of radio interference or a return-home command.
- 10. APP smart control: One Key Take Off | Point to Fly | Orbit Fly | Auto Return | Flight Path Settings
- 11. Easy to use.

Safety Operation Guidelines

- Please make sure you have a comprehensive understanding of the Spry and all the necessary measures required to implement a successful return home function in the event of an emergency.
- Please be well prepared before each flight, charge batteries and understand the flying area.
- Please follow local laws and be aware of NO-FLY ZONES and other restrictions.
- It is your duty to comply with the local laws regarding privacy protection.
- Do not fly around objects that may emit strong magnetic fields such as radio masts, electricity towers, high-voltage transmission lines, transformer substations, radar and large metal structures
- Do not fly the Spry under the influence of alcohol, drugs or any other physical or mental impediment.
- Don't fly the drone if it is damaged or malfunctioning.
- Always fly a drone away from crowds.

Disclaimer and Warning



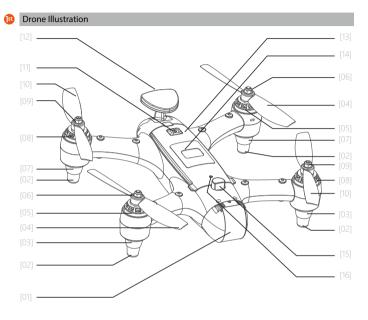
This product is not a toy, and should only be operated by persons over the age of 18. Please keep it out of reach of children, and pay particular attention to the possible scenarios of children unexpectedly appearing during flight operations.

Be sure to read this document carefully before using the product to fully understand your legal rights, responsibilities and safety instructions. Failure to do so may cause property damage, accidents and personal injury. Once this product is used, it is deemed that you have understood, recognized and have accepted all the terms and conditions of this statement. The user is responsible for all the consequences of his actions and the use of the product. The user agrees to use the product for his sole & legal purpose, and agrees with the terms & conditions of this agreement, and other relevant policies & guidelines that may be specified by SwellPro.

Under the maximum permission by law and approved circumstances, SwellPro is exempt of liability for any indirect, punitive, consequential, special or criminal damages, including the purchase cost, or for loss of income due to the loss of use of the drone.

SwellPro is exempt from the user's liabilities for damage(s) to person/s or property, or injuries incurred directly or indirectly from the use of this product.

SwellPro reserves all rights for final interpretation.



[01] Camera Lens Cover	[07] Drone Status Lights	[13] Battery Cover
[02] Rubber Feet	[08] CW Motor	[14] Ventilate Film
[03] Drone Nose Lights	[09] CW Propeller Nut	[15] Battery Cover Lock
[04] CCW Propeller	[10] CW Propeller	[16] Battery Cover Mount
[05] CCW Motor	[11] Power Button	
[06] CCW Propeller Nut	[12] GPS pod	

About the drone

This section introduces the drone and its functions

Flight Modes

The Spry utilizes a brand new flight control system which incorporates 5 of the best flight modes.

GPS mode: This mode uses the GPS module to achieve accurate and stabilized hovering, braking, intelligent flight, intelligent return and other intelligent flight mode functions. In this mode, maximum flight speed is 10m/s, maximum ascent speed is 4m/s, and maximum descent speed is 4m/s.

Circle mode: The drone moves 10m from its current location and begins to circle with a radius of 10m with the nose always facing the origin. During circling, the right-hand joystick controls the speed and size of the orbit. Push up to increase the radius of the orbit, push down to reduce the radius of the circle (minimum radius 10m), push the joystick left to speed up the orbit or push it right to slow down the orbit. If you continue to reduce the orbit speed, the drone with change the direction of orbit and start to increase the orbit speed.

ATTI mode: This is a more advanced flight mode which does not use the GPS positioning function but still maintains altitude stabilization. The drone will drift with any wind when hovering and will not brake when the joysticks are released.

Follow Me: The remote controller has an inbuilt GPS module, and the Follow Me mode is based on the relative position of this GPS module to the drone. The maximum Follow Me speed is 10 m/s (36 KM/H).

Auto-Return: The aircraft has a one-key return function as well as an auto-return if radio contact with the remote controller is lost. When the remote control and GPS signal are good, the aircraft can be commanded to automatically return to the current remote control position.

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- In the GPS mode, the drone will not arm unless there are sufficient satellites to establish the home point. This point is used if the drone cannot establish the location of the remote controller.
- In ATTI mode, the drone's top speed is faster than in GPS mode. When flying in a calm environment, the pilot should allow a minimum of 30 meters for braking distance to ensure flight safety.
 - In Follow Me mode, the joysticks are disabled. Press and hold the Follow Me button again to cancel Follow Me - the Controller Status Light will flash red confirming Follow Me mode has been cancelled and joystick function has been restored.
 - When the speed of the remote controller exceeds 10m/s in Follow Me mode, the Spry will stop following the remote controller and remain hovering in place.
- If the GPS module in the remote controller does not have an accurate fix the Controller Status light will flash red, Follow Me cannot be started.

Return Home

The drone has two return home modes - automatic and manual return home. Since the Spry remote controller has a built-in GPS module, the remote controller constantly sends the Spry its location so that the drone can return to the pilot even if they have moved from the take-off point. If the drone loses contact with the remote control for any reason, then the drone will automatically return to the last known location of the remote controller. Manual return home can also be initiated with the remote controller.

When returning home, the Spry will wait momentarily and hover 30m above the remote controller to allow the pilot to take control of the landing if necessary.

One Key Return Home Function

Remote Control Operation	Description
	Press and hold the Return Home switch for 2 seconds, the system will
	beep and start the return process. At this point, the aircraft will
6 6 1	auto-return to the remote controller . "RTH" is displayed in the upper
Return Home	right corner of the remote control screen.
	To cancel the Return Home process, press and hold the Return Home
	switch for 2 seconds, the system will beep and cancel the return process

Return Process

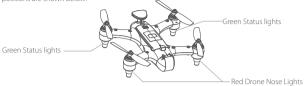
Flare Maneuver	Description
* *	Vertical height > 30metres and horizontal distance > 15metres, the drone will maintain its altitude and return to its home point.
*	Vertical height < 30metres and horizontal distance > 15metres, the drone will ascend up to 20metres, and then return to its home point.

⚠ If the drone experiences a loss of GPS signal, the Return Home function is temporarily unavailable. The aircraft will hover in place until either control is restored or automatic low-battery landing takes place.

↑ During automatic Return Home, when the remote control signal is restored, switch the Flight Mode briefly between GPS and ATTI mode to take control of the drone and cancel automatic return.

Drone Indication Lights

The fuselage of the drone includes a pair of Drone Nose Lights and Drone Status Lights on the rear arms. Their positions are shown below:



The Red Drone Nose Lights are used to indicate the direction of the nose of the drone, they will be solid red when the drone is powered on. The rear Drone Status Lights are green and indicate the status of the current flight control system. Please refer to the following table for the different flash modes for the Drone Nose and Status Lights.

Drone Nose and Status Light Messages

Aircraft initialization / ho	rizontal calibration:	
••••	Alternating Red, Green slow flashing	Aircraft initializing / horizontal calibration
Drone power on/off		
•••••	Red Fast Flashing	Remote control connected but still locked
•	Red ON	Remote control connected and drone unlocked
Remote controller signal		
••••	Red Slow Flashing	Remote controller signal lost
GPS Status		
••••	Green Slow Flashing	Poor GPS signal
•	Green ON	Good GPS signal
Compass Calibration		
000000	Green Fast Flashing	Horizontal calibration
••••	Green Slow Flashing	Vertical calibration
Low Battery Warning		
•••••	Red Fast Flashing	Low battery warning

Propellers

Spry comes standard with 6" 2-bladed propellers and is also compatible with 5"3-bladed propellers. The 2 blade speed is relatively slow, but the flight time is longer than the 3 blade. You can choose the propellers to suit your requirements.

Installing and removing the propellers:

- 1. To facilitate the installation and removal of the propellers, use the included tools. (The large wrench holds the motor and the small wrench is used for the propeller lock nuts.)
- 2. The arrows indicates the mounting direction of the propellers. Note, that the locking nuts for each propeller are tightened in the opposite direction to the direction of the propeller.



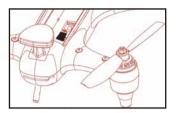
- ↑ The blades are sharp. Be careful to avoid personal injury.
- Before each fight, check that the propellers are in good condition and securely fastened
- ⚠ If a propeller becomes damaged, or broken, replace it before further flights. Propellers can be purchased separately.
- A Please do not get too close to the rotating propellers and motors, to avoid cuts or injury

Micro SD Card Installation

When selecting a microSD card for use with your camera, for best results always ensure that the card is rated for 4K video throughput.

To insert the card, place the microSD card face-up in the recess inside the battery compartment, Carefully slide the card towards the nose of the Spry until it clicks and locks into place.

To remove the card, push the card gently towards the nose of the Spry until it clicks and then ejects. Take care to prevent the card from ejecting too fast out of the slot.

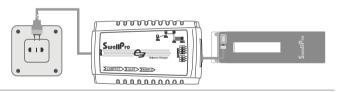


Battery

The Spry is supplied with a high-voltage lithium battery (LiHV) and a corresponding charger.

To charge the drone battery: Plug in the charger. After 3 seconds, its four status lights will flash left and right indicating the charger is ready. Connect the battery to the charger using the supplied adapter cable. The larger plug on the cable is inserted into the top port of the charger. The plugs are designed to prevent them being inserted incorrectly.

After the battery is connected, the four battery status indicators show the level of charge: 25%, 50%, 75%, and 100%. When all 4 lights are solid ON, the battery is fully charged.



Note: If the four indicators flash at the same time, the charger or battery is faulty. Stop charging and check all connections.

Battery Installation

- a) Twist open the battery hatch lock. Grasp the forward end of the battery cover with the provided tool and pull the battery cover up.
- b) Insert the battery vertically into the drone with the contacts towards the back of the drone and press down until it is properly seated.

c) Check that the seals on the cover are clean and lightly lubricated. Insert the back of the cover first and then press down on the cover to seal the battery compartment. Twist the battery hatch lock to secure the cover.



Low Battery Alarm

When the drone battery voltage drops to a low level (10.9V), the Drone Nose Lights will fast-flash red. The pilot will simultaneously receive warnings from the remote controller. The screen will display "Aircraft Low Battery" and the controller will beep and vibrate. Find a suitable place to land as soon as possible. If the aircraft voltage drops to 10.7V, the aircraft will slowly and automatically land in place.

During auto-landing, the pilot can use the remote controller to alter the landing site, but this should be done within one minute or the battery will be over-discharged and the drone may crash.

Note: During flight when the voltage warning appears on the remote controller screen, prepare to return and land the drone as soon as possible.

Low temperature precautions

- 1. In low temperature environments (-10C degrees to 5C degrees), flight time will be reduced. Ensure batteries are fully charged and kept warm (20~30C) before use.
- 2. Also be aware that the low battery warnings will provide less warning time, so land the drone as soon as the first battery warning appears.

Camera

This section introduces camera parameters and use.

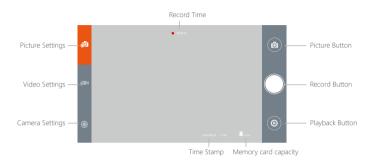
Check swellpro.com for updates to your camera's firmware.

Camera

Spry's built-in camera can capture 4K videos and 12 megapixel still images. With its inbuilt 5.8G function you can also use a mobile app to change settings and download videos and photos.

Camera Settings and Use

APP installation: The SwellCam2 app is available for iOS and Andoid devices. Android systems can download the APK from either the Android market or our website www.swelloro.com.



 \triangle When the camera is recording video, turning off the drone without first stopping the video will cause corruption of the video file. Always stop video recording before powering off the drone.

Photo Settings	
Picture Size	12M 16:9 12M 4:3
Burst Speed	OFF 3P/S 5P/S 10P/S
Interval Shooting	OFF 3s 5s 10s 30s 60s
Selfie-Timer	OFF 2s 10s

Video Settings	
Resolution	3840x2160 30P 2704x1524 30P 1920x1080 120P/60P/30P 1280x720 240P
Electronic Stabilization	ON OFF
Record Format	MP4 MOV
Video Format	PAL NTSC



When electronic stabilization is on, distortion correction will also be turned on.

Camera Settings	
EV	+2.0 +1.7 +1.3 +1.0 +0.7 +0.3 0.0 -0.3 -0.7 -1.0 -1.3 -1.7 -2.0
White Balance	AUTO, cloudy, sunny, Incandescent lamp, Fluorescent lamp
Distortion Correction	ON OFF
Metering	Global metering, Center-weighted, spot
Format	Confirm Cancel
About this device	firmware details
Restore Settings	Confirm Cancel

Camera Indicator

•	Green slow flash	Camera recording
• •	Alternating Green-Red fast flash	5.8G ON
•	Green ON	Camera in preview mode

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This section describes flight considerations, flight restrictions, and drone care.

Introducing you to Flying a Drone

If this is your first time flying a drone, please read this manual thoroughly and watch the instructional videos on our YouTube channel. We recommend taking professional training and guidance. When flying, select an environment appropriate to your skills.

It is advisable for all drone pilots to become familiar with flying in ATTI mode in case of GPS or magnetic interference which can interfere with drone controls.

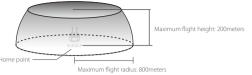
Flying the Spry

- 1. Although the Spry is waterproof, do not fly in fog or if the wind is very strong or gusting above Beufort Force 4
- Select an open place or water surface as an ideal flying site.
- Flying between or near large steel buildings could adversely affect the workings of the compass and can adversely affect or block GPS and control signals.
- 3. During flight, try to maintain line of sight with the drone, keep away from obstacles and people.
- 4. Do not fly near high voltage power lines or communication towers which may interfere with the remote controller of the drone.
- 5. When flying at altitudes above sea level, environmental factors including air density reduce the performance of aircraft and therefore also propulsion batteries.
- 6. When the environment temperature is below 15 C, the drone may not be unlocked. At this time, please power on the drone on the ground for about 5minutes to warm up, then it can be unlocked.

Flight Restrictions

According to provisions of the International Civil Aviation Organization and many national air traffic regulations, drones must be operated in specified airspaces.

The Spry is configured to not exceed an altitude of 200m and a distance of 800m from the remote controller.



The safety fence applies in all flight modes.

Preparation Before your First Flight (or in a new location)

The drone relies on very sensitive sensors to control flight positioning and stability. The gyroscope and compass sensors need to be calibrated before flying in a new location or if the drone has suffered undue shock or excessive vibration.

Gyroscope Calibration

Gyroscope calibration is necessary if:

- a. The drone is brand new.
- b. The drone has been flown extensively in in ATTI mode.
- c. When in GPS flight mode and using only the THROTTLE joystick, the drone drifts at an angle.
- d. The drone has been subjected to heavy shaking.

Remote Control Operation	Description
	1. Place the drone on a horizontal surface, power on the remote controlle and the drone. Wait for the FPV interface to finish initialization. 2. Pull the left joystick down to the lowest position and then fast flick the right joystick left and right continuously until INITIALIZING appears on the FPV screen. 3. The drone will now perform calibration adjustments. Do not move o disturb the drone during this process. When the INITIALIZING message disappears from the FPV display, the process is compete.

⚠ When doing gyroscope calibration, ensure that the aircraft is placed is not subject to any vibration or movement.

Compass Calibration

Compass calibration is necessary if:

- a. The drone is brand new
- b. The drone is more than 100km from the location of its last flight.
- c. The compass indication on the Remote Controller screen does not show the correct compass reading (North = 0° , South = 180°) $\pm 10^\circ$
- d. The drone has been subjected to strong magnetic fields
- e. The drone has been crashed or dropped accidentally
- f. The drone sways or drifts excessively during hover in GPS mode

Compass Calibration

Compass Calibration is performed with the drone outdoors and away from any sources of magnetic interference such as metal structures, radio masts or mobile phones.

Remote Control Operation	Description
(\$\frac{1}{3}\)	Place the drone on a horizontal surface. Power on the remote controller and the drone. After the drone completes initialization, rapidly switch the Flight Mode switch backwards and forwards between the three modes until the drone screen displays HORIZONTAL CALIBRATION.
	Holding the drone horizontally, rotate the drone clockwise until the green LED lights slow flash and the remote control screen displays VERTICAL CALIBRATION.
	3. Hold the drone nose vertically downward , rotate clockwise until the screen displays "INITIALIZING" indicating the calibration is finished Place the drone on a horizontal surface for 30 seconds, power off and restart the drone.

IMU Calibration

Calibration of the Inertia Management Unit (IMU) should only be necessary if:

- a. The drone has been crashed or dropped accidentally and does not fly level even after gyroscope calibration.
- b. The drone swavs or drifts excessively during hover in GPS mode

IMU Calibration

IMU Calibration is performed with the drone on a LEVEL, flat, stable surface.

Remote Control Operation	Description
	1. Push the left joystick up to the highest position and then fast flick the right joystick left and right continuously until INITIALIZING appears on the FPV screen. 2. The drone will now perform further calibration adjustments. Do not move or disturb the drone during this process. When the INITIALIZING message disappears from the FPV display, the process is compete. Power off and restart the drone.



Starting / Stopping the Motors

Precautions before unlocking the motors:

- Place the drone in an open area at least 3 meters away from you or others.
- ⚠ When the drone is powered on, the drone will do a self-check. When it's done, there will be a "DI" sound. Keep the drone stationary during initialization.
- ⚠ If ATTI mode is selected, there is no need to wait, you can unlock the motors and proceed to takeoff and fly immediately. We recommend new pilots unlock the motors in GPS mode. The motors can't be unlocked in circle mode.
- ⚠ In GPS mode, if the number of satellites is insufficient, the remote control will vibrate when unlocking the motors, and will display "WARNING NO GPS" and the motors will not unlock.

Unlocking (starting) the Motors	
Remote Control Operation	Description
	Pull both the left and right joysticks simultaneously towards either the
	lower inside or lower outside points. Maintain this position for 3
OR	seconds to unlock the motors.

Locking (stopping) the Motors (operate cautiously)

Remote Control Operation	Description
OR	Pull both the left and right joysticks simultaneously towards either the lower inside or lower outside points. Maintain this position for 3 seconds to lock the motors. Never lock the motors in flight unless there is an emergency as the drone will crash to the ground and may injure somebody.
	Alternatively, once the drone has landed smoothly, pull the throttle stick to the lowest position for 5 seconds to stop the motors.

- ↑ In GPS mode, if the number of satellites is insufficient, the motors will not unlock and the FPV screen will display a warning message.
- Motors cannot be unlocked in Circle mode.
- ↑ The motors can be unlocked in ATTI mode even if there is no GPS fix and therefore no Home Point recorded

Basic Flight Steps

- 1. Check that the drone is correctly assembled, propellers are tight and the main hatch is sealed.
- 2. Power on the remote control, followed by the drone.
- 3. Place the drone on a flat open surface or on the surface of the water.
- 4. Wait for the FPV screen to display the camera's live video and the OSD flight data. Check that the flight display is normal.
- 5. Check the following flight data: Battery voltage > 12.5volts, Satellites > 9, Compass indicates the drone's current compass direction.
- 6. For safety, you should stand upwind and to the side of the drone and at least 3 metres distant.
- 7. Arm the motors in GPS mode.
- 8. Push the THROTTLE joystick up slowly, allowing the drone to take off smoothly. Release the throttle when the drone is approximatley 1.5m high. Allow the drone to hover for a moment to ensure flight stability. Always use gradual, smooth joystick movements.
- 10. When you need to descend, slowly pull down the throttle joystick allowing the drone to descend and land on a flat surface or on the water.
- 11. After safely landing, keep the throttle down in its lowest position for at least 5 seconds until the motors have stopped or use the disarm joystick command.
- 12. Stop recording video before powering off the drone, followed by its remote controller.

Water Take-offs and Landings

1. When taking off from choppy water, ascend quickly from the surface to prevent the drone being affected by a passing wave.

2. When landing on water, descend vertically to the surface. If the drone lands with horizontal speed, it is possible the drone can flip and be inverted. The flight controller will shut down the motors if the drone becomes inverted.



♠ Do not leave the drone floating inverted for more than a few minutes.

Flip the drone using the Power-Flip command or recover the drone as soon as possible to avoid water entering the drone.

Power-Flip

If the drone becomes inverted on the surface of the water, using the Power-Flip feature, the drone can be flipped so that it is right-side up.

With the drone floating upside-down, arm (unlock) the Spry and it will perform a powerflip and right itself on the water.

Take-offs and Landings from a Boat

When taking off from a boat there needs to be sufficient space, otherwise the drone should be placed on the water for take-off. Likewise, it is safer and easier to land the Spry on the water beside the boat rather than landing on a rocking boat or where there is insufficient space for a safe landing.

If the boat is rocking, the Spry may not arm its motors in GPS mode. In this case, carefully take-off in ATTI mode and then switch to GPS mode if there are sufficient satellites.



For safety, it is not recommended to launch or land your SplashDrone from your hands.

Be aware of the direction of the wind relative to the boat. Even when at anchor, it is possible that the wind will not be at the nose of the boat.

Always try and take off with the wind so that the drone will be taken away from the boat.

When landing the drone onto a boat, if possible land against the wind so that the drone will be held away from the boat.

FLIGHT BATTERY -Safety Guideline



Warning:

Please read the ENTIRE user manual to familiarize yourself with the features of this product before use. Failure to use this product in a safe and responsible manner could result in fire, serious injury or damage to the product, or other property, please observe the following safety guidelines when using, charging, or storing the batteries.

1. Battery Use

- DO NOT allow the batteries to come into contact with any kind of liquid.
- DO NOT drop the battery into water.
- DO NOT leave batteries out in the rain, or near a source of moisture. If the inside of the battery comes into contact with water, chemical decomposition may occur, potentially resulting the battery catching on fire, and may even lead to an explosion.
- NEVER use non-SwellPro batteries. New batteries can be purchased by going to www.swellpro.com, or through your local Swellpro dealer. SwellPro takes no responsibility for any damage or injury caused by using non-SwellPro batteries.
- NEVER use or charge swollen, leaky or damaged batteries. If your batteries are abnormal, please contact SwellPro, or a SwellPro authorized dealer for further assistance.
- -The battery can be used in the temperatures ranging from -10°C to 40°C. Use of the battery in environments above 50°C can lead to a fire or explosion. Use of the battery below -10°C can lead to permanent damage.
- NEVER disassemble, or penetrate the batteries with sharp tools, otherwise, this may result in the battery catching fire, or even lead to an explosion.
- Electrolytes in the battery are highly corrosive. If any electrolytes make contact with your skin or eyes, immediately wash the affected area with fresh running water for at least 15 minutes, and then see a doctor immediately.
- If the battery falls into water, pick it up immediately and put it in a safe and open area. Maintain a safe distance from the battery until it is completely dry. Never use the battery again, and dispose of the battery properly as described in the Battery Disposal section below.
- DO NOT heat batteries. A battery fire can be extinguished using sand, or a dry powder fire extinauisher.
- DO NOT put batteries in a microwave oven, or in a pressurized container.

- DO NOT put the loose battery cells onto any conductive surface, such as a metal table.
- DO NOT put any conductive cables or metal objects together with batteries, where they may short-circuit against each other.
- DO NOT drop or strike batteries. DO NOT place heavy objects on the batteries or the battery charger.
- Clean battery terminals with a clean, dry cloth. Failure to do so may result in poor electrical contact, which could reduce the battery capacity, or damage the charger.



DO NOT continue to fly the drone after the low battery alarm has been activated, this will result in over-discharging the battery, and potentially could damage the battery cells.

2. Battery Charging

Attention:

- Always use a SwellPro approved charger to charge the battery of the drone, and the radio controller. SwellPro takes no responsibility if the battery is charged using a non-SwellPro charger.
- In order to avoid any potential accidents happening, please do not leave the battery charging unattended.
- DO NOT charge the battery near flammable materials, or on flammable surfaces, such as carpet or wood.
- DO NOT charge battery immediately after flight, because the battery temperature may be too high.
- DO NOT charge the battery until it cools down to near room temperature. The ideal charging temperature range is 4°C ~ 40°C.
- Disconnect the charger when not in use. Examine and maintain the charger regularly.
- DO NOT clean the charger with denatured alcohol or other flammable solvents.
- NEVER use a damaged charger.

3. Battery Storage and Transportation

- Keep batteries out of the reach of children and pets.
- DO NOT leave the battery near heat sources, such as a furnace, heater, or exposure to strong direct sunshine, for example: in cars.
- The ideal storage temperature is 22°C ~ 28°C.
- Keep the battery in a dry and ventilated environment
- NEVER drop the battery into water, or store it in places where there is a possibility of water leakage.
- DO NOT drop, strike, impale, pierce, or manually short-circuit the battery.
- Keep the battery away from metal objects, such as watches, jewelry, and hairpins.
- NEVER transport a damaged battery, or a battery with power level higher than 50%. DO discharge the power to 50% or less before transportation.(The suggested battery voltage level of the drone is around 12.1V, and the radio controller is 7.9V).
- If the battery won't be used within 10 days, please discharge the power level to 50% for storage.

4. Battery Maintenance

- NEVER use the battery when the temperature is too high or too low.
- Never store the battery in environments with a temperature higher than 60°C.
- If the battery won't be used for a long period, please fully charge it, and then discharge its power level to 50% to maintain its effectiveness.
- NEVER store the battery for a long time after use, it will become over-discharged, and definitely ruin the battery.
- NEVER over charge the battery, or the battery cells will be damaged.

5. Battery Disposal

- Dispose of the battery in specific recycling boxes only after a complete discharge.
- DO NOT place the battery in regular trash containers. Strictly follow your local regulations regarding the disposal and recycling of batteries.

Safety Operation Guideline & Disclaimer and Warning

Safe Operation Guidelines

1. Flying Conditions and Environmental Considerations

- Fly in open spaces or above the water surface that is far away from crowds.
- The operating temperature range of the Spry is -10°C to 40°C.
- Observe local regulations and flight restrictions of your Aviation Authority.

2. Pre-Flight Inspection and Checks

- Make sure all batteries are fully charged.
- Check all propellers are in good condition and correctly fastened. The edges of the propeller blades must be smooth and undamaged.
- Manually rotate the 4 motors to ensure they can spin smoothly.
- -Ensure the sealing surfaces of the cover are clean, free of dirt, sand, or any other contaminants
- Make sure the drone fuselage is sealed and that the membrane on the top of the battery cover hatch is in good condition.

3.Flying Guide

- Many regulations require the pilot to fly a drone within line of sight. Take particular care when flying a drone out of sight.
- Unless it is an emergency, NEVER Lock or STOP the motors in flight as this will cause the drone to fall to the ground and crash.
- When the low battery level warning is activated, plan to return the drone and land safely before the battery reaches a critical level.
- The Return Home function can be used to reorient the drone towards the Home Point. By activating the Return Home function, the drone will rise to the the return altitude (20m) and then turn towards the Home Point before starting its return.
- If any obstacles are in the flight path of the drone during a Return Home process, control should be regained by turning off the Return Home function.
- If you inadvertently crash your drone, lock the motors to prevent damage to the motors and propellers.

- Do not attempt to touch the motors, until the motors have stopped rotating.
- When taking-off & landing from water, avoid high-speed or abusive landings to avoid damaging the drone.
- When flying over water, avoid allowing the drope to drop or crash into the water from a high altitude as this could cause major damage to the drone.
- Don't expose the drone & battery to direct sunlight for sustained periods of time as this can raise the internal temperature of the drone to well above the operating temperature range.
- If the drone does not appear to be responding to the Remote Controller as usual, switch the Drone to ATTI flight mode and fly the drone to a safe landing location.

The possible causes for the instability or loss of control of the drone could be:

- The drone has been subjected to unstable GPS signal/s or spurious interference/effects on the Compass module during flight.
- The calibration of the drone (compass and/gyroscope) was incorrectly carried out.

Steps that can be taken to resolve the issues:

- Re-calibrate both the compass and gyroscope on the Sprv.
- After completing the calibration, arm the drone motors to fly in GPS mode to verify whether this phenomenon has been eliminated.
- If the abnormality remains the same, please re-locate to another place at least 5KM away and re-calibrate the Spry. Following the re-calibration, please test the drone again.
- If the problem persists, please contact SwellPro or your local dealer for further trouble-shooting and solutions.

4. Maintenance

- Please make sure to double check the propellers after flight. Distorted or damaged propellers should be replaced immediately.
- After flying over the sea, sand or water, the Spry drone and remote controller must be thoroughly washed with fresh water within 2 hours and dried - especially the motors.
- It's strongly advised to rinse the drone before the salt crystalizes.
- Motors are best rinsed by removing the propellers and immersing the motors one at a time into a bucket of warm water and arming the drone so the motors spin.
- In the event of the Spry not being used for a long time, please store the drone and the batteries in a dry, and ventilated environment at 20°C~28°C.
- Please refer to <Safety guideline with batteries> for further details on maintaining the hatteries

5. Flight Safety

- Please make sure you have a comprehensive understanding of the Sprv and all the necessary measures required to implement a successful return home function in the event of an emergency.
- Please be well prepared before each flight, avoid any violent or excessive operations.
- Please maintain strict compliance with the local laws, any flying in NO-FLY ZONEs is prohibited.
- Any illegal & improper use or operation of this product is prohibited.
- Any invasion & violation against another person/s right of privacy is not allowed. Before using this product, it remains the duty of the drone pilot to comply with the local laws regarding privacy protection.
- Any invasion or flying over another person/s property is not allowed, please agree with any person/s regarding any potential breach of privacy before the proposed flight.
- Avoid flights in or around the strong magnetic fields. This includes wireless electricity emission towers, high-voltage transmission lines, transformer substations, radar towers and other magnetic sources or metal objects.
- DO NOT fly the Spry under the influence of alcohol, drugs or any other physical or mental impediment.
- Please don't fly the drone with a malfunctioning radio controller Please fly the drone away from crowds

Restricted Area



Airport

Threats to Flight Safety Scenarios







Radar



High voltage power lines





Tall buildings

Disclaimer and Warning



This product is not a toy, and should only be operated by persons over the age of 15. Please keep it out of reach of children, and pay particular attention to the possible scenarios of children's unexpected appearance during flight operation.

Be sure to read this document carefully before using the product, to fully understand your legal rights, responsibilities and safety instructions. Failure to do so, may cause property damage, safety accidents and personal safety risks. Once this product is used, it is deemed that you have understood, recognized and have accepted all the terms and conditions of this statement. The user is responsible for all the consequences of his actions and consequences. The user agrees to use the product for his sole & legal purpose, and agrees with the terms & conditions of this agreement, and other relevant policies & guidelines that may be specified by SwellPro.

Under the maximum permission by law and approved circumstances, SwellPro is exempt of liability for any indirect, punitive, consequential, special or criminal damages, including the purchase cost, or for loss of income due to the loss of use of the drone.

SwellPro is exempt from the user's liabilities for damage(s) to person/s or property, or injuries incurred directly or indirectly from the use of this product in the following conditions:

- Damage or injuries incurred when the user/s are under the influence of alcohol, drugs or medication.
- Any malfunction caused by operators' failure to follow the guidance of the manual to assemble and set up or operate the drone as described and designed.
- Damage or injuries that may occur due to failure to study the tutorial videos and the user manual before flying the drone.
- Damage or injuries caused to a person/s or property due to failure in correctly calibrating the drone as outlined in the manual prior to flight.
- Damage or injuries incurred as a result of the use or installation of any unauthorized third party accessories or counterfeit parts which were not provided and approved of by SwellPro

- Damage or injuries as a result of flying the drone out of eyesight range, or more than 300m away from the controller.
- Damage or injuries caused by flying the drone in areas of magnetic fields & radio interference
- Damage or injuries caused by flying in a NO-FLY ZONE that is regulated by local laws & rules.
- Damage or injuries including crashes, loss of control or water ingress caused by abusing or modifying the original drone structure.
- Damage or injuries caused by using broken & ageing components.
- Damage or injuries caused by continuing to fly the drone even if the low battery alarm is activated.
- Damage or injuries caused by failure to wash the components with fresh water after flying over or near the sea & corrosive waters.
- Damage or injuries that have occurred when the drone has been subjected to the following conditions or situations: collision, fire, explosion, floods, tsunamis, ice, snow, avalanche, flooding, landslide, earthquake, etc.
- Damage or injuries incurred by intentionally dropping or crashing the SplashDrone into the water from a high altitude, especially water ingress into the drone fuselage and gimbal malfunction.
- Damage or injuries incurred by intentionally dropping or crashing the SplashDrone to the ground or water from a high altitude, especially water leakage into the drone fuselage and gimbal frame as a result of this collision.
- Other Damage(s) or injuries that are not SwellPro's liability.

FCC Warning

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 interferenceto 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.

Radiation Exposure Statement

This equipment complies with PCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.