

SUNDORI Drone User Manual "Hexa granular/control spraying [H-1]"

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Inspection

Pre-flight check

Be prepared to safely check the place you want to fly and remove any obstacles or hazards.

Check for various obstacles and dangers.

Flight approval check before training in no-fly zones, restricted areas and other places.

Check areas where accidents may occur due to obstacles during flight.

Check electric pole wires, holding lines, fences, buildings, and mobile communication base stations.

Check for areas that are obstructed by buildings or obstruct your view while flying.

Check areas where communication (or GPS satellites) may be disrupted due to high-voltage lines/transmission towers, etc.

Exclude areas where serious situations like the above may occur from the training area, and ensure the safety of the unmanned multicopter instructor, trainees, and other people.

Low voltage alarm

Ι

To prevent damage from crashes or other harmful consequences caused by low battery voltage, the SUNDORI Drone uses two levels of undervoltage protection. A low voltage warning light indicates that the battery cannot provide enough power to the aircraft, warning you to land the aircraft as soon as possible.

1

voltage warning (low battery)	Drone LED light alarm	When the battery is not enough, there is a primary alarm and a secondary alarm. The primary alarm is a yellow light that blinks 3 times. As for the secondary alarm, many lights such as red, yellow, and green come on, and the yellow light keeps blinking and it immediately lands on the spot. (It is out of battery.)
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Appendix 1. Pre-flight checklist

			Resno	onses	
No	Part	Description	Pre-fl	After	Abnor
110	Tare	Description	ight	flight	mality
	Remote	1) Cheek the status and valtage of the	Ignt	Illgiit	
1	1 controll	 Check the status and voltage of the remote controller switch and control 		ok 🗆	
1			ok 🗆	OK	
	er	stick.			
2	Battery	Check the voltage of the two main	ok 🗆	ok 🗆	
		batteries (check if 25V or higher).			
		Check the fixation of 4~6 propellers, check	ok 🗌	ok 🗆	
		the left and right propeller levels.			
	Wing	Check the top, bottom, left and right	ok 🗆	ok 🗆	
		clearance between propeller and motor.			
		Check for any cracks, warping, torque	ok 🗆	ok 🗆	
		seal breakage, and paint condition.			
		Check for foreign substances in the	ok □ ok □	ok 🗆	
		motor or friction on the front body.			
3	Motor	Check for friction by turning the	ok 🗆	ok 🗆	
	1.10101	propeller.	оп <u>п</u>	011 [
		Check whether the motor is overloaded.	ok 🗆	ok 🗆	
		(burning smell, heat, etc.)	OII I		
		Check whether there are any foreign			
		substances on the heat sink of the	ok 🗌	ok 🗌	
	Gear	transmission and whether it is fixed.			
		Check whether the transmission is	ok 🗆	ok 🗆	
		overloaded. (burning smell, heat, etc.)	OK []	OK []	
		① Check if the main frame has any			
		cracks or damage, or bolts are not	ok □ ok □		
		loosened.			
		② Check the fixation of the main	alr 🖂	alt \square	
	Ainfrom	hatch.	ok 🗆	ok 🗆	
4	Airfram	3 Check if the LED warning light is	olr 🗆	olr 🗆	
	е	attached.	ok 🗆	ok 🗆	
		Check the receiver antenna status.	ok □ ok □	alt \square	
		(broken, fixed)		ok 📙	ок Ц
		Check the fixing and wiring of the main	-1- 🗆	-1	
		hatch and cooling fan.	ok 🗆	ok 🗆	
		① Check the status of installation,	.1 🖂	.1 🖂	
	Inside	cracks, damage, or wear on the aircraft	ok 🗆	ok 🗆	
5	aircraft	FC fixation check.	ok 🗆	ok 🗆	
	an or are	Mainframe fixation check.	ok 🗆	ok 🗆	
	Landin	Check for airframe installation status.			
6		cracks, damage, and wear.	ok 🗆	ok 🗆	
	g gear	Cracks, damage, and wear.			





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Precautions before take-off

NO	Description	Chec k	Not es
1	Have you received flight approval (local aviation authority) for the current flight area?	ok 🗆	
2	Do you have a license?	ok 🗌	
3	Are the pilots and co-pilots in good health?	ok 🗌	
4	Have you checked the weather conditions?	ok 🗌	
5	Are you wearing a protective hat and remote controller strap belt?	ok 🗆	
6	Are you wearing safe clothing such as safety glasses (sunglasses) and a mask?	ok 🗆	
7	Are the main battery and remote controller battery charged?	ok 🗌	
8	Is the location suitable for take-off now?	ok 🗌	
9	Did you check the surrounding obstacles and secure a safe distance (15m)?	ok 🗆	

LED light status indicator

	GPS status signal
	Primary low voltage
	Secondary low voltage (automatic landing at the spot)
	A/P (A-B automatic control) status signal
<u></u>	A-point status signal during A-B automatic control
	B-point status signal during A-B automatic control
	Error state



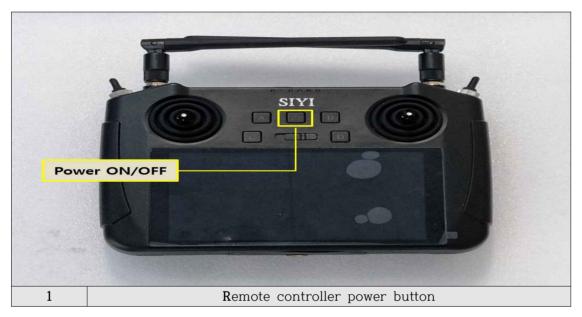


Hexa Granular/Control spraying Drone User Manual_how to operate

I .Preparation before takeoff

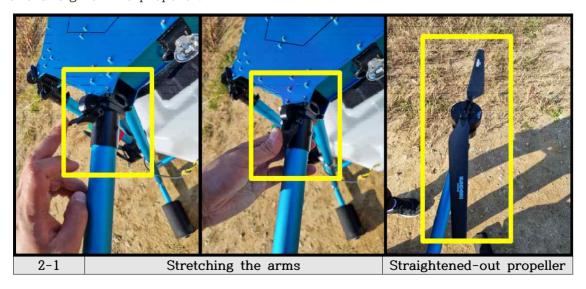
1. Remote Controller Power ON

Briefly press the power button short once and immediately press it again for a longer time to turn on the controller.



2. Drone preparation 1

After unfolding the six arms of the drone, take off the velcro on each propeller and straighten the propeller.







Drone preparation 2

The picture(2-2) below is the unfolded view. The six arms of drone are straightened, the velcro is taken off, and the propeller is straightened out.



3. Drone Preparation 3

Straighten the nozzle spray pipe.

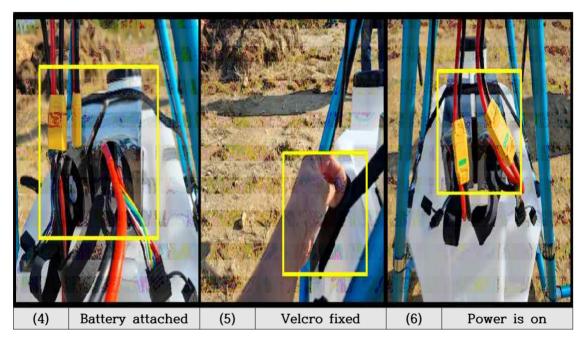






4. LED lights

When the battery is connected to the drone, various lights flash quickly in red, yellow, orange, white, and green. If the GPS signal is detected, then a green light on, that indicates the normal light. (Preparations for takeoff are completed.)



5. Spraying preparation









6. Start-up and take-off

If you operate the stick as shown below(picture 6), the drone starts up immediately.

After confirming that the engine starts, release the stick lightly.

Raise the left stick throttle to rise(in mode 2).

Gently check the throttle (up, down), rudder (turning left and right), aileron (left and right), and elevator (forward, reverse).



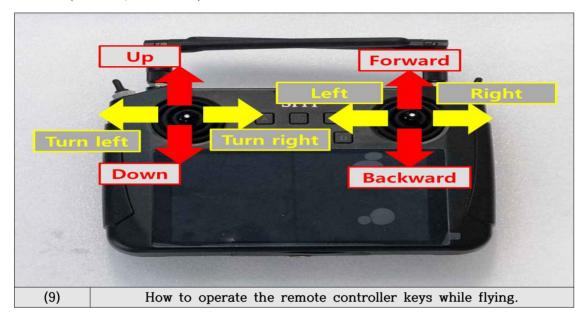




II. How to operate a controller.

1. Controller key.

- Throttle (up, down), rudder (turning left and right), aileron (left and right), elevator (forward, backward)



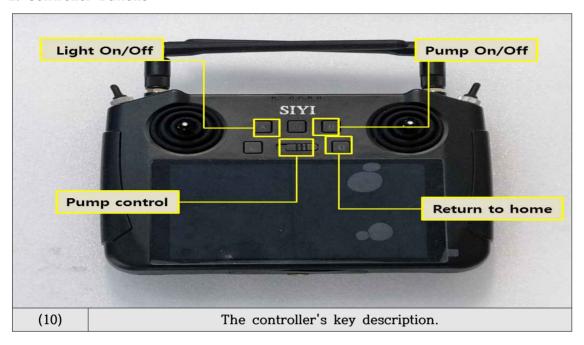
If there is no problem, please follow the safe flight rules.

** If there are any abnormalities, you must set the upper left stick [F-A-P] to A and must return manually.





2. Controller Buttons



- · Button A on the remote controller is the front search light ON/OFF function.
- · Button B on the remote controller is the water pump ON/OFF function.
- · The center space bar [left center right] on the remote controller controls the amount of water pump.
- (Left: Pump off/ Center: Pump injection stage 1/ Right: Pump injection stage 2)
- · Button C on the remote controller has no function.
- \cdot Button D on the remote controller is an automatic return function (return to home) .
- When the drone is within 10m from the first take-off point, the drone automatically lands at the location and turns off.
- When the drone is more than 10m from the first take-off point, it rises 15m in altitude and then returns to the first point and turns off.





III. Automatic spray flight

1. A-B point Flight



How to start Automatic spray

- · While in flight, go to the place where you want to take point A, stop there, then lower the short stick in the upper right corner to A among OFF, B, or A. At this time, the yellow light on the drone is fixed.
- \cdot Go to the place where you want to take the point B, and raise the stick that you lowered to A to B by one space.

At this time, the green light on the drone is fixed.

- · Lower the left stick of the remote controller to P among F, A, and P.
- · In the direction you want to go, gently push the stick either left or right in that direction.

Automatic spraying of A-B point flight starts.

How to end Automatic spray

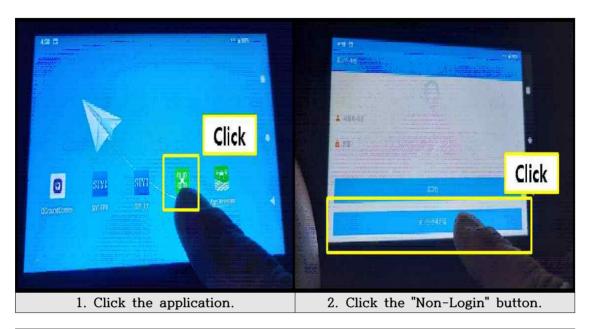
- ** To end automatic spray, raise the stick that went down to P to F among F, A, and P in the upper left.**
- ** Automatic spray system remembers the time when the drone last made an end point flight.

Even if you raise the stick from P to F and end automatic spray, it starts when you lower the stick to F, the drone automatically go back to the place where it ended before. Therefore, if you want to erase the memory, you can move the [OFF, A, B] stick up and down quickly, and the drone will blink many lights such as red, yellow, and green to erase the memory.**





2. Multi-point routing autopilot

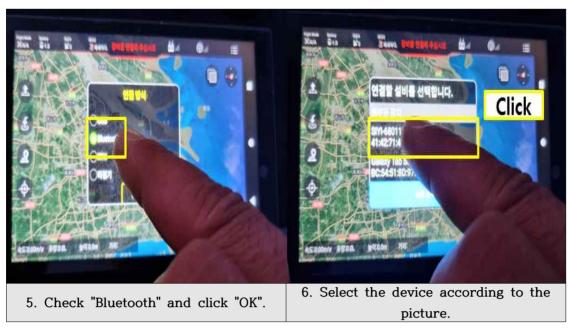




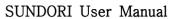






















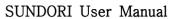




17. Click according to the picture.

18. After setting the interval to 5M, click the buttons according to the numbers.









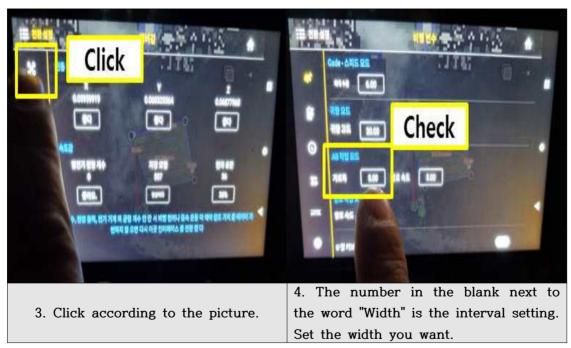






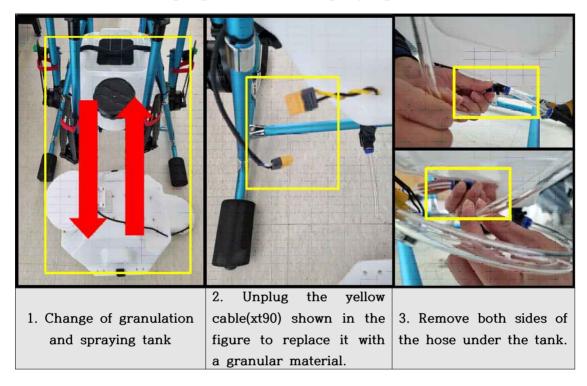
3. Precautions when setting the multi-point routing auto flight

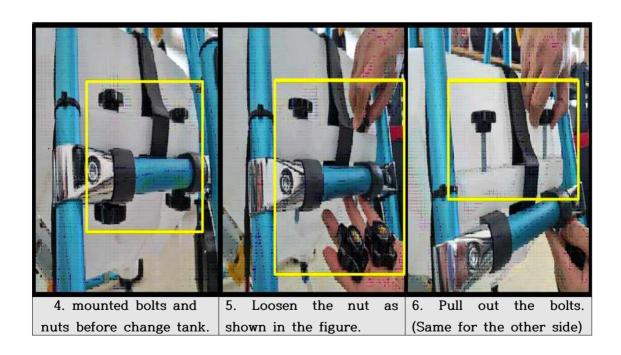






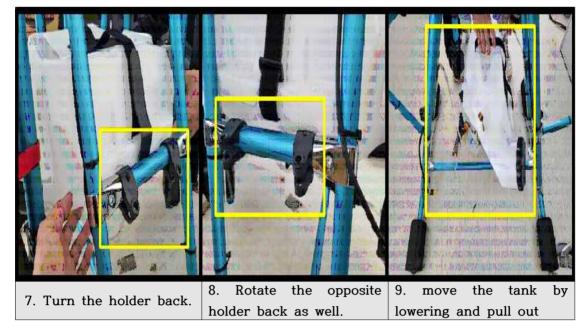
IV. How to exchange granules and spraying tank











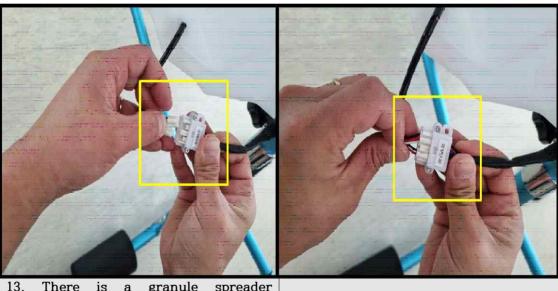


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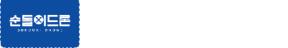




13. There is a granule spreader connector plug socket on the right. (2-pin, 3-pin)

14. Connect as shown in the picture.





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15. (Finish) Arrange the removed hose under the 20L spray tank as shown in the picture.





V. How to charge

1. How to charge the remote controller

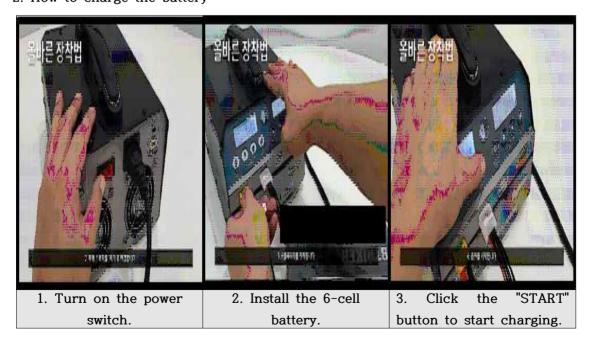


1. Be sure to turn off the power before connecting the Type-C cable. It cannot charge while the power is on.



2. If the red light is on, it is charging. When finished, the green light turns on.

2. How to charge the battery



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VI. Precautions for taking off and landing

Caution

You must take off on a level terrain.

Do not take off or land on sloped terrain.

This may cause the aircraft to roll over or interfere with control.

Take off and land where there is no movement of people or vehicles.

Select a location where dust is not generated by downwind.

Make sure there are no obstacles around your path.

Take a good look at the surroundings of your landing site.

Make sure the aircraft's landing gear is on the ground.

Make sure nothing is blown away by the wind (downwind).

Check if the location can receive GPS signals well.

VII. Troubleshooting

Problems that can be handled by users during operation of SUNDORI Drone are included. It does not include issues or causes addressed by the seller. If any of these problems occur, cancel the flight and have the aircraft inspected and repaired by the seller.



Inquiries for technical support

If there is an abnormality in the aircraft status or an abnormal signal such as LED, do not fly, contact the manufacturer immediately and respond according to the instructions.

□ web site : www.sundori.net

☐ TEL: (+82)2-408-2777 (+82)70-7733-0568 (Technical Contact)

□ Add : C-1202, (Hanam TechnoVallyU1 Center)947 HanamDearo, Hanam city, Gyung-gi do,Korea

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