

I. Account Registration and Activation

1. Register an Account Visit

Visit <https://us.vectoragr.com/> and complete the registration using your email address as prompted. This website is used to query drone operation records.

2. Device Activation

- Connect the remote controller to the network and log in to your account;
- Install the battery and turn on the drone's power;
- Pair the remote controller with the drone, click "Drone Connected" to enter the intelligent detection interface;
- Click "Flight Permission" > "Activation", enter the activation code HD7D7B3F to complete the activation.

II. Pre - use Inspection

1. Check Versions Remote controller version: 2.31.0.10, drone version: 3.34.0.0. If they are inconsistent, it is recommended to upgrade to the latest versions.

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2. Empty Tank Calibration Keep the medicine tank empty and perform the following operations in sequence: Remote controller homepage right side > Settings > Operation System Settings > Empty Tank Weight Calibration > Start Calibration, and follow the prompts to complete.

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3. Flow Meter Calibration It is necessary to perform flow calibration before operation to ensure spraying accuracy:

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- Add >5.5 gal (or >20L) of clean water;
- Remote controller homepage right side > Settings > Spraying Settings > One - click Exhaust > Flow Meter Calibration > Calibration, and follow the prompts to complete.

⚠ If abnormal weight or flow is found, please repeat steps 2 and 3.


III. Pre - takeoff Inspection

1. Be sure to release the latches before unfolding the arms, otherwise damage may occur; unfold in the following order:
 - First unfold the upper 3 and 4 arms,
 - Then unfold the 1 and 2 arms,
 - Lock the joints and make sure you hear a "click" sound.
1. Unfold the propellers and check that they are properly tightened; if they are too tight, adjust them appropriately;
2. Insert the battery that is not turned on;
3. The takeoff position must be at least 10 meters (\approx 33 feet) away from the crowd;
4. Check after the drone is turned on:
 - Takeoff/return speed and height settings;
 - Whether all radar modules are turned on.

IV. Daily Maintenance

After daily operations, it is recommended to perform the following maintenance operations:

1. Propellers: Check the tightness, whether there is damage, and wipe them clean;
2. Operation system: Add 20L of clean water to the medicine tank and complete an in - place spraying;
3. Arm latches: Check whether the latches and inner joints are loose;
4. Motors: Confirm that they rotate smoothly without abnormalities;
5. Battery plug board: Wipe the battery socket with 75% alcohol;
6. Battery safety: Check whether the appearance and interface are damaged/leaking/oxidized. It is strictly forbidden to expose to high temperature (such as in a car); ensure safety during transportation.

 If the operation area exceeds 2000 acres, all the above inspections must be carried out; If the operation in rapid mode (>30 mph) exceeds 1000 acres, a comprehensive inspection is also required to prevent risks caused by component aging.

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V. Operation Recommendations

1. Recommended operation volume: It is recommended to be ≥ 2.5 gal/acre; if it is 2gal/acre, the liquid volume is recommended to be ≤ 15 gal (<60 L) for the best efficiency;
2. Risk tips for rapid mode (>30 mph):

- The aging of the aircraft is accelerated, and the component life is approximately halved; the obstacle avoidance system may fail, so use it with caution;
 - In rapid mode, the plot requires a flat surface without obstacles higher than the flight height. If there are obstacles, they need to be surveyed and mapped before the flight operation.
 - The plot should be at a distance of more than 20 meters from the high - voltage line.
1. Takeoff and landing precautions: There are no obstacles within 10 meters around the takeoff and landing point. There should be no wires above or near the takeoff and landing point, and it should be more than 20 meters away from the high - voltage line. There should be no obstacles between the takeoff and landing point and the plot, or a transfer point needs to be added.

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2. Operation area marking: It is strongly recommended to mark all obstacles in the plot and try to set transfer points before the task is executed.