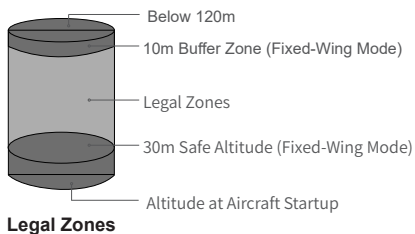# Safe Operation Guidelines

Please choose an open and unobstructed outdoor environment for flight. The aircraft's maximum flight altitude is 500m, please do not exceed the safe flight altitude. It is necessary to strictly abide by local laws and regulations. please read the "HEQ Disclaimer and Safety Guidelines" to understand safety precautions before flying.

Safety Guidelines for Flying

1.Fly in open areas without crowds, trees, airports, or buildings.

2.Stay away from wind farms, high-voltage power lines, substations, radio signal towers, tall buildings, and environments that may generate magnetic interference.

3.Fly in good weather conditions and avoid flying in rain, strong winds, or extreme weather.

4.Adhere to legal regulations and fly in authorized areas.

5.Do not fly indoors.

6.SWAN-K1 can only withstand wind speeds of up to 10.7 m/s (Force 5). Do not fly when the wind speed is equal to or greater than 10.7 m/s. In case of strong winds, land promptly.

7.Maintain visual contact during flight to keep the vertical take-off fixed-wing aircraft at a safe distance from obstacles, crowds, bodies of water, mountains, and other objects.

Below 120m
10m Buffer Zone (Fixed-Wing Mode)
Legal Zones
30m Safe Altitude (Fixed-Wing Mode)
Altitude at Aircraft Startup

Legal Zones

Pre-flight Checklist

1.Make sure the aircraft's left lever is set to position mode.

2.Ensure that the propellers are securely fastened, and the aircraft is fully assembled before flight.

3.Both the drone and remote controller should have sufficient battery power.

4.Ensure that you have connected to Wi-Fi before flight.

5.GPS signal strength should be ≥ 9 satellites.

6.After powering on, verify that the camera and gimbal are functioning correctly.

7.Ensure that the airspeed sensor inlet is free of obstructions and undamaged.

8.Ensure that there are no obstructions or blockages in the aircraft's ventilation holes.

Operating Instructions

1.Start by turning on the remote controller, then power up the VTOL aircraft. Once communication is established, the remote controller will emit a "beep" sound.

2.Before takeoff, ensure that the VTOL aircraft has acquired a sufficient number of satellites and is in a position lock state.

3.After placing the VTOL aircraft at a certain distance, unlock it. Pull the throttle on the remote controller to the lowest position and push the yaw stick to the right to start the VTOL aircraft. The motor will idle.

4.Prohibited to take off from a moving vehicle.

5.Calibrate the airspeed sensor and compass according to the prompts in the HEQ FLY APP.

6.Taking off and landing must be on flat, sand-free, open ground.

7.Do not touch the motors or propeller blades while they are running.

8.Avoid making or receiving phone calls, sending text messages, or using other devices that may interfere with your operation during flight.

9.Operating the VTOL aircraft under the influence of alcohol or drugs is prohibited.

10.During fixed-wing mode flight, if a return home is triggered (due to loss of control, geofencing, low battery, etc.), the VTOL aircraft will return to the home point and land. To cancel the return home, press the "B" (return home button).

11.When flying in rotary-wing mode and switching to fixed-wing mode, the altitude must be at least 30 meters or higher; otherwise, the switch will fail, and the SWAN-K1 will return to rotary-wing mode. The HEQ FLY APP will display "Abort: dangerous height." To switch back to fixed-wing mode, raise the VTOL aircraft higher, press the "A" button on the remote controller to reset the status, and then press the "A" button again to switch to fixed-wing mode.

12.When the low battery warning is activated, return home and land as soon as possible.

13.In the event of a loss of control or flying into a geofenced area, the VTOL aircraft will automatically return home and land.

14.When landing, please fly the vertical fixed wing above point H, circle to lower the flight altitude, and then switch to rotor mode to land manually.

15.GPS signal quality can be affected by the environment. Do not overly rely on the automatic return home function. If the VTOL aircraft deviates from the return home point during the automatic return home and landing process, please disable the automatic return home function and manually guide the aircraft to a suitable landing location.

16.After the VTOL aircraft has landed, pull the throttle to the lowest position and move the yaw stick to the leftmost position to lock it. The motor stops after locking.

17.Once the motor has stopped, disconnect the power to the VTOL aircraft before turning off the remote controller to avoid triggering the loss of control protection.

Disclaimer

Thank you for purchasing HEQ™ SWAN-K1 Vertical Takeoff and Landing Fixed-Wing (hereinafter referred to as "SWAN-K1" or "VTOL fixed-wing"). Operating the HEQ™ SWAN-K1 fixed-wing requires a certain level of risk awareness, and its use by individuals under 18 years of age is prohibited. Please keep the VTOL fixed-wing and accessories out of the reach of children.

The SWAN-K1 features vertical takeoff and landing capabilities, and, when its components are undamaged and properly installed, it can take off vertically in a horizontal plane environment. After reaching a safe altitude, it can switch to fixed-wing mode, no longer restricted by the flying field. In rotor mode, the SWAN-K1 can hover in place, and in fixed-wing mode, it will maintain straight-line flight at a constant altitude. You can change the SWAN-K1's attitude and flight altitude by manipulating the controls, and when you release the controls, the SWAN-K1 will maintain altitude and stable straight-line flight, allowing you to easily experience fixed-wing FPV flight. Visit **https://store.hequavtech.com** for the latest instructions and warnings. HEQ™ reserves the right to update this disclaimer. For the most current disclaimer, please refer to the official website at **https://store.hequavtech.com**.

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