

Flyfire.



ENSAFE YOUR EVERY FLIGHT

Industry-Level Drone Parachute Solution

The UAV parachute has been upgraded again. OWL-M350 has a new APS 3.0 intelligent parachute deployment algorithm, which deeply integrates DJI flight platform sensor data and comprehensive three-dimensional situational awareness. It is also adapted to DJI M300 and M350 drones, allowing safe and worry-free flight. Work together to protect airspace security and promote the development of the drone industry.



Easy
Installation



PRS and Drone
interaction



32-bit
processor



-20°C~50C
Working temperature



Dual
Sensor



Firmware
Upgrade



IPX5

Parachutes Are Your Safety Equipment

OWL-M350 integrates sensor data from DJI PSDK during flight operations, and cooperates with tFlyfire dual-sensor scoring parachute opening algorithm to monitor the flight attitude of the drone in an all-round three-dimensional manner. When a crisis occurs, it will cut off the power in milliseconds - stop the propellers - and open the parachute. Protect the safety of the airspace



APS3.0 Parachute Opening Algorithm

The third-generation parachute opening algorithm is used with DJI M350 drone equipped with a parachute for actual flight testing. By continuously optimizing the degree of interaction between the algorithm logic and the parachute aircraft data, the parachute has stronger situational awareness capabilities, and the APS 3.0 parachute opening algorithm came into being. born.



Flyfire engineers perform field test flights on real aircraft to check and adjust software parameters.

APS3.0 Parachute Opening Algorithm

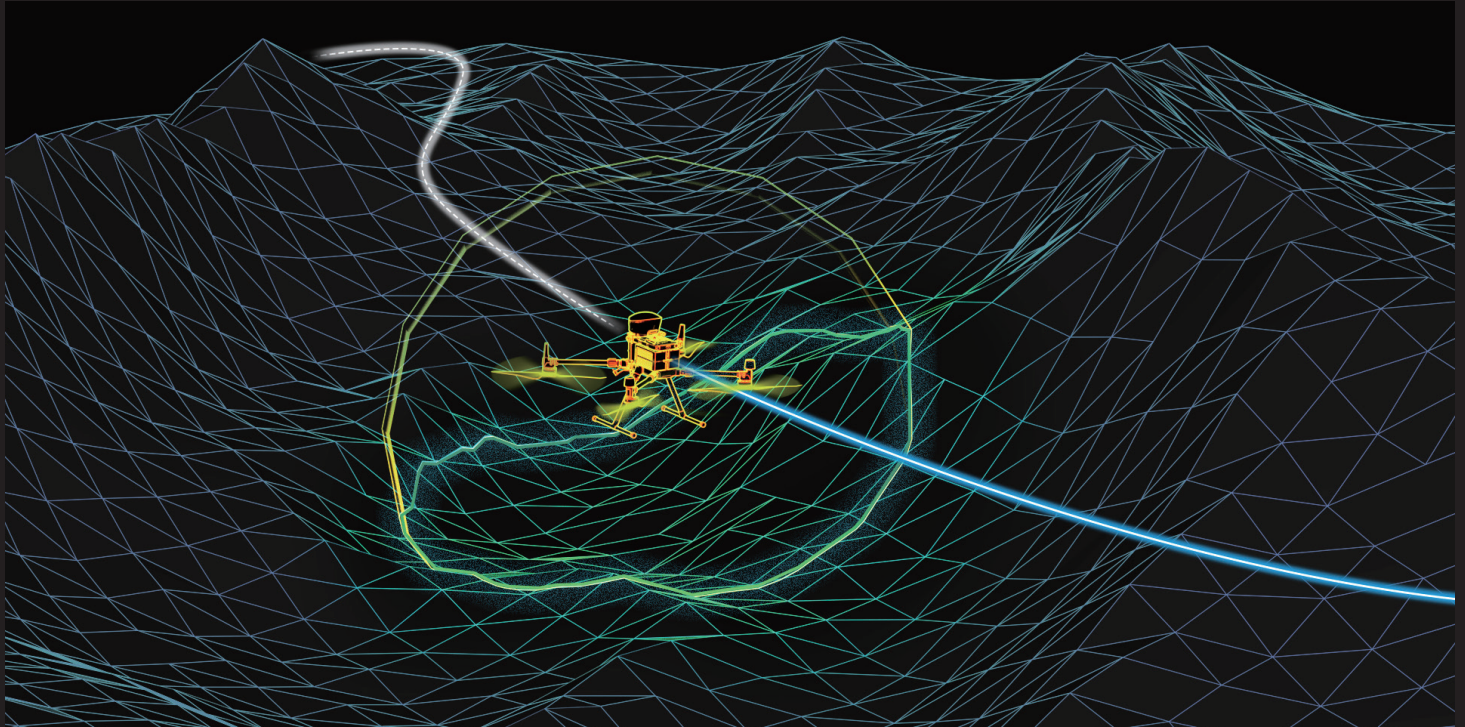
APS 3.0 obtains aircraft attitude sensor information through the DJI PSDK interface, and with the built-in parachute sensor, the parachute aircraft data is collected to comprehensively judge the flight attitude. After the optimization of the APS 3.0 opening scoring algorithm, the speed of parachute opening is increased by 20%, the calculation of free postures is added, and the comprehensive data can be used to quickly determine the timing of parachute opening. When a crisis occurs: millisecond power outage stop propeller-open parachute

1: The power-off function is to cut off the connection between the motor and the power supply through the DJI flight control software to achieve the purpose of stopping the propeller.



Parachute-Drone Sensor To Determine Flight Attitude

OWL-M350 parachute uses its own sensor and the drone's sensor to comprehensively determine the attitude of the drone, react instantly in sudden flight accidents, and open the parachute to rescue the aircraft to avoid greater losses.



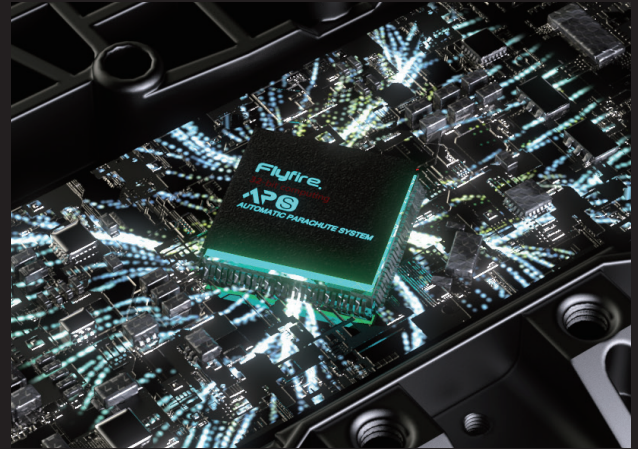
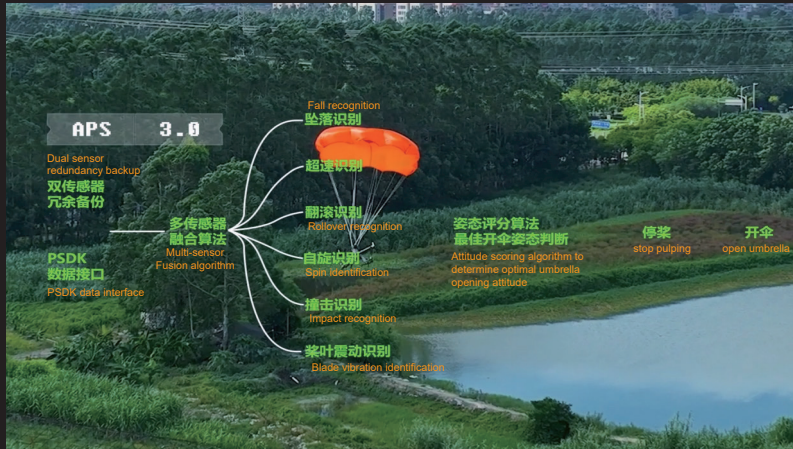
Never-Ending Data Collection

OWL-M350 parachute sensor adopts a geometric design to cope with various complex operating environments. When one set of sensors fails, another set of sensors can seamlessly replace the failed data link, allowing the parachute to continue to accurately identify the flight status of the drone and ensure flight safety.



Intelligent Parachute Deployment Algorithm

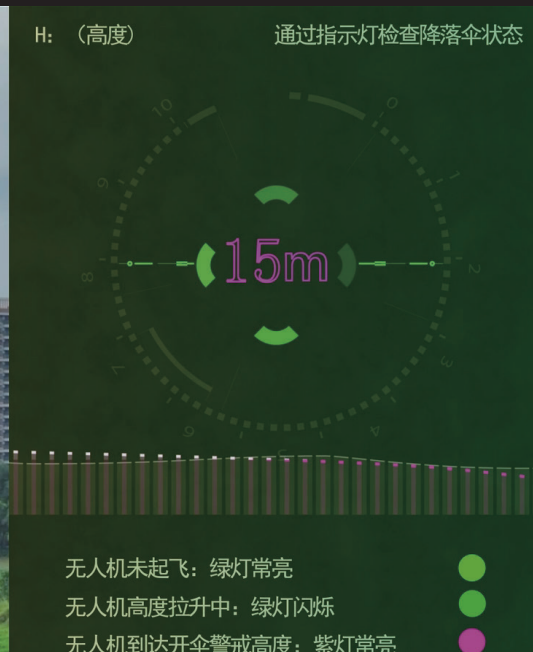
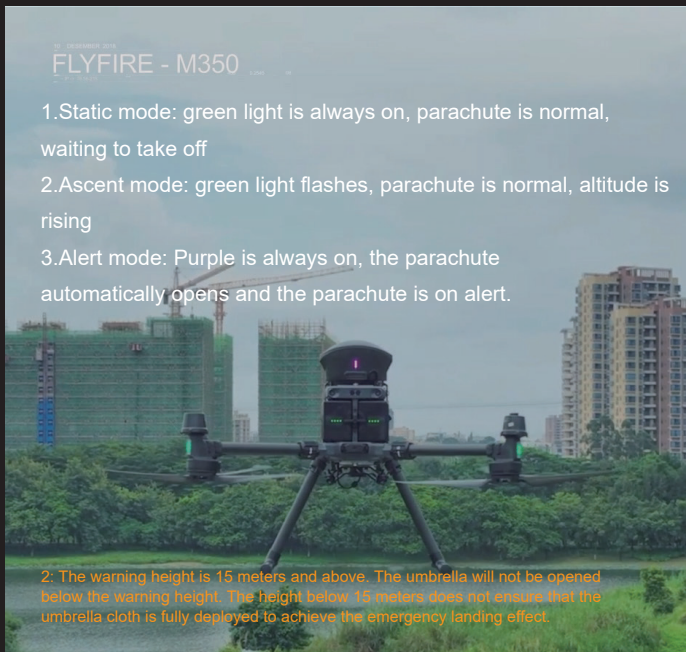
OWL-M350 parachute upgrades to the APS 3.0 algorithm, which integrates DJI drone flight sensor data to accurately identify abnormal situations such as falling, speeding, rolling, spinning, impact, and blade vibration. Depending on the posture of the man and machine, choose the best time to stop the propellers and open the umbrella to protect personnel and property.



The flyfire central processor adopts industrial-grade chips, which is stable and reliable.

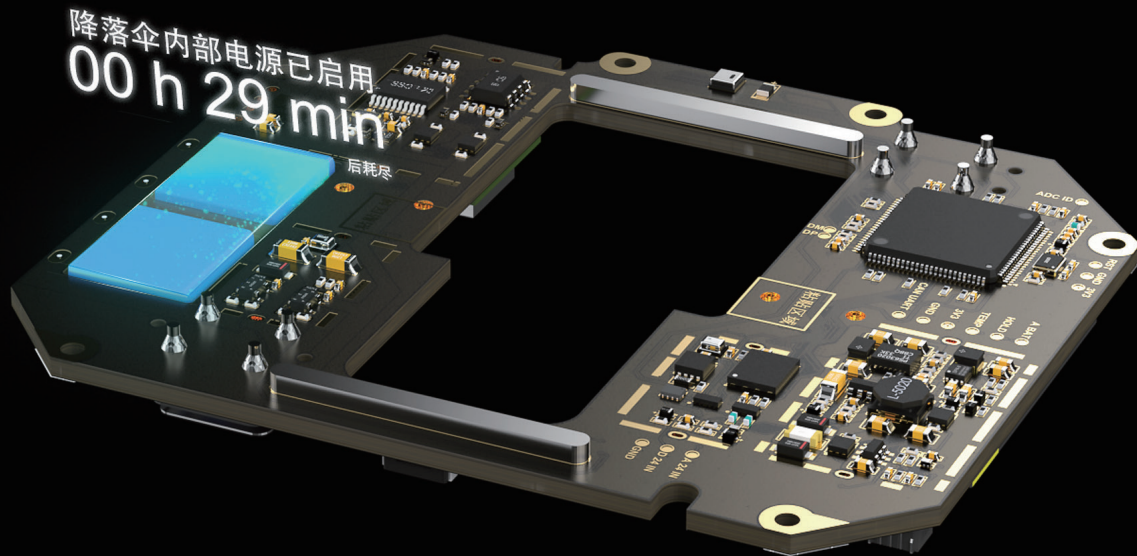
Know Your Work Status At Any Time

OWL-M350 parachute is equipped with power-on self-check, status display and other functions. The pilot can directly know the current working status of the parachute by observing the parachute indicator light. The status is divided into ground stationary mode, ascending mode and alert mode.



Parachute Independently Powered

OWL-M350 parachute has a built-in battery. If the PSDK data cable is accidentally disconnected during flight and the main power supply of the parachute fails, the OWL-M350 will immediately switch to the backup power supply to ensure that the parachute can still meet the 30-minute battery life after losing connection with the drone, giving you uninterrupted safety.



Parachute internal power supply is enabled

Landing Speed 3.5m/s

The emergency landing speed of OWL-M350 is 3.5m/s, and the ground kinetic energy is converted to 55 joules, which is equivalent to the DJI M350 free falling from a height of 0.7 meters.



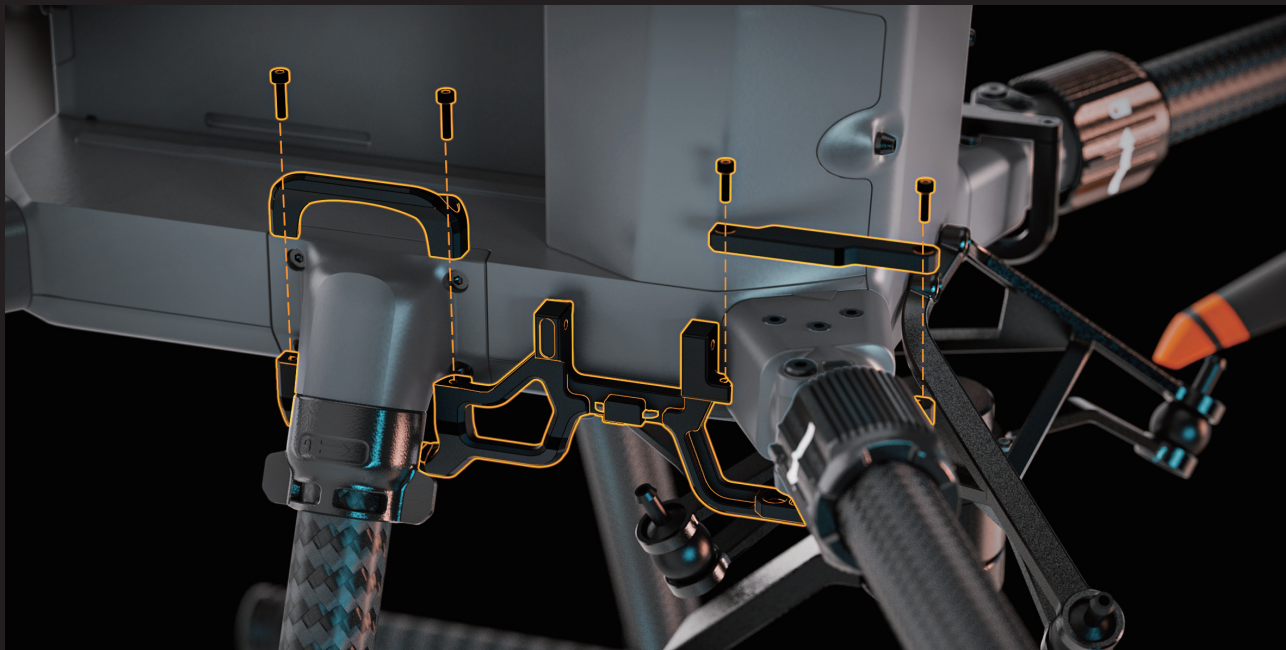
Sound And Light Warning System

The parachute is designed in accordance with international standards and is equipped with protection by stopping the parachute before opening. After the parachute is opened, two high-power buzzers at the tail will sound immediately, and the red indicator light will stay on to warn pedestrians on the ground to avoid the parachute.



New Racking System

The new generation parachute adopts a newly designed aluminum alloy pylon, which eliminates the need to disassemble the drone arm screws. The structure is stronger and the original shape of the drone is not damaged to the maximum extent, allowing you to equip the parachute efficiently and conveniently.



Maintenance-Free For Up To Two Years

The parachute adopts a fully enclosed parachute cabin, which isolates the complex external environment from interference. It can fight with you regardless of wind, rain, sand or dust. The umbrella cloth is coated, the umbrella is small in weight and size, has good mildew resistance and moisture resistance, and can be maintenance-free for 2 years under normal use.



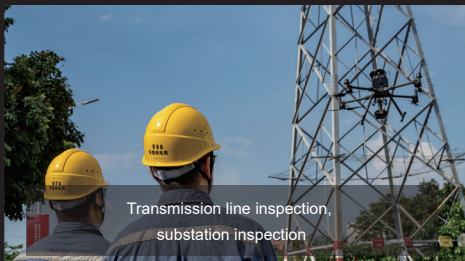
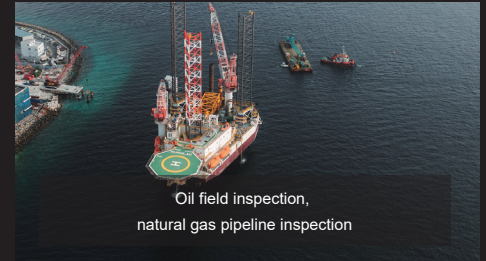
APS Updates

FLYFIRE will provide continuous after-sales maintenance and technical support for consumers. Software upgrades will bring users the latest APS parachute opening software version, allowing parachutes and drones to achieve higher data integration and protect every takeoff.



Application Areas

FLYFIRE provides safety protection systems for drones in various fields, such as parachutes, lost aircraft locators, water flotation, etc. Safe accompanying flight, worry-free operation reduces safety risks and economic losses.



Specifications

Compatible models	Matrice 300、Matrice 350
Net weight	800g
Volume	2.4 dm ³
Umbrella cloth area	7.29m ²
Minimum parachute opening height	20m
Standard load	9KG
Maximum load	9KG
Waterproof level	IP45
Operating temperature	-20°C ~ 50°C
Working altitude	≤3500m
Reaction time	500ms~700ms
Wind resistance level	7
Landing Speed	3m/s~4.5m/s

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