



Overview

ParaZero's SafeAir M350 Pro is an end-to-end safety solution designed for the DJI M350 RTK & M300 RTK (ASTM F3322-18 compliant)

The SafeAir M350 Pro independently monitors key flight parameters of the drone's avionic systems. The drone flight profile is collected and monitored for anomalies. When critical failures are identified, the flight termination system cuts power to the rotors and a set of actions is triggered:

- > The patented parachute deployment mechanism opens the parachute to full canopy in fractions of a second, controlling the descent
- > Audio buzzer is activated, warning bystanders
- > The drone is brought slowly to the ground, in a safe, controlled descent, minimizing impact energy
- > SmartAir Pro on-board computer includes integrated IMU to monitor flight in real-time (*gyro, accelerometer, magnetometer, barometer, temperature, humidity*)
- > Easy plug-and-play installation and integration within 10 minutes
- > Reusable & repackable parachute system rated for multiple deployments

Solution Benefits

- > **Autonomous Triggering System (ATS)** - The SafeAir system identifies loss of control and autonomously triggers parachute deployment
- > **Flight Termination System (FTS)** - The FTS system shuts down the rotor power, prevents parachute entanglement, and mitigates risk of laceration injuries
- > **Low Altitude Capability** - The combination of autonomous triggering capability combined with SafeAir's ballistic parachute enables safe emergency recovery, particularly at very low altitudes
- > **Manual Deployment Capability** - Manual parachute deployment capability via ParaZero remote control
- > **Black Box** - Collected data is stored and can be analyzed for post incident analysis
- > **SORA Approvals** - Relevant for CAA applications for SORA M2 mitigation and MOC 2511 regulatory compliance

Technical Information:

Total weight: **900 grams**

Minimum safe effective altitude: **30.39 meters**

Average descent rate: **4.41 m/s**

Operating temperature range: **-10C to +60C**

<https://parazero.com/>