



## Overview

ParaZero offers a smart and intuitive solution to address the industry's safety challenges by designing the best-in-class autonomous drone safety system to secure the drone and payload.

ParaZero's drone safety system is an end to end solution that is designed for DJI's Mavic and Mavic Pro series.

The lightweight safety system 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:

- > Audio buzzer is activated to warn bystanders to move out of harm's way.
- > The parachute deployment mechanism launches the parachute in a fraction of a second, controls the descent and enables safe flight over people even at low altitudes.
- > The drone is brought safely to the ground, minimizing the impact energy.

## Solution Benefits

- > **Autonomous Triggering** - The autonomous system capabilities identify loss of control and decide on the recovery.
- > **Low Altitude Capabilities** - The combination of autonomous triggering capabilities along with SafeAir's ballistic parachute enable safe emergency recovery even at very low altitudes.
- > **Mechanical Flight Termination System** - The system stops the rotors, prevents parachute entanglement and mitigates the risk of laceration injuries.
- > **Black Box** - Collected data is stored and can be used for post deployment analysis.
- > **Easy to Repack and Reuse**
- > **Lightweight, Sleek and Smart Design**
- > **Reduced Insurance Costs**

## Technical Information

Total weight: **110g**

Altitude loss until full deployment (hover): **3m**

Vertical speed of descent (with maximum load of 1.43Kg): **5 m/s**

Approx. impact energy: **< 12 J**

Independent GPS

Compatible with DJI **Mavic** and **Mavic Pro** configurations



**PARAZERO**  
DRONE SAFETY SYSTEMS

