

Features & Specifications

The PRS-M4S has been designed to easily integrate with the DJI Matrice 4 Enterprise and DJI Matrice 4 Thermal. The PRS mounting holes and screws secure the PRS-M4S without interfering with onboard sensors. The system includes an integrated EM to power the PRS. The FTS is initiated when either the pilot instigates a deployment through the MTD or when the ATS, using the onboard sensors located in the EM, determines that the Drone has breached the safe flying parameters. Once the FTS is initiated and stops the motors from spinning, the Parachute Pod™ is deployed and will result in the Drone descending under an inflated parachute.

Features

Mounting Bracket	The custom base of the PRS-M4S has an integrated mounting bracket that allows the PRS to be easily installed with minimal effort.
Independent Power Source	The PRS-M4S is equipped with an independent power source that allows the system to deploy if the Drone loses power.
Automatic Triggering System (ATS)	The ATS automatically detects failures and triggers the parachute release.
Manual Triggering Device (MTD)	The MTD can initiate deployment of the parachute recovery system at the discretion of the remote pilot in command.
Flight Termination System (FTS)	The plug-and-play FTS stops power to the motors in the event of a failure and reduces the likelihood of entanglement in the Drone's propellers.
Flight Data Logging	Flight data logging to a dedicated internal storage device that is integrated in the PRS-M4S.

Specifications

Maximum Takeoff Weight	1.37 kg (3.02 lbs)
Average Descent Rate (1.37 kg)*	3.80 m/s (12.47 ft/s)
Minimum Flyable Altitude Rating At 1.37 kg (Hover Flight)*	40.0 m (131.2 ft)
Minimum Flyable Altitude Rating At 1.37 kg (Full Forward Flight)*	40.0 m (131.2 ft)
Deployment Technology	Energetic Charge
Deployment Trigger	Manual and/or Autonomous
Average Kinetic Energy (1.37 kg)	9.88 J (7.29 ft-lb)
CAT 2 Wind Limit (FAA)	13.4 mph (11.6 knots)

Parachute Recovery System

Main System Weight	149 g (5.26 oz) [+/- 5 g]
Deployment Release Time	<100ms
ATS Arming Height	35 m (115 ft)
Operating Temperature	-10°C to +40°C (14°F to 104°F)*
Ingress Protection (IP) Rating	Not rated

Flight Termination System (FTS)

FTS Method	PSDK
Integration Process	PSDK Port

Manual Triggering Device (MTD)**

Range	< 8 km (<4.97 mi)
Arming Height	≥ 5 m (≥ 16.4 ft)
Type	Drone Transmitter PSDK Interface

*Per ASTM F3322-22.

**Note that the MTD may be unavailable to use if signal degradation or communications interruptions occur prior to or during a flight.