

PRODUCT CATALOG

HEIGHTTECHNOLOGIES.COM





The Martlet Family of Systems consists of tactical micro and mini SRR/ISTAR drones designed to deliver an extended flight time and a minimal acoustic signature for covert day & night observation and monitoring. These systems are quickly deployed from a backpack or transport case and provide real-time aerial intelligence, enabling swift and informed decision-making in critical situations.

SHORT RANGE RECONNAISSANCE (SRR) MICRO UAS

The Martlet MI-1 provides 40 minutes of flight time, a radio range of more than 5 kilometers, unparalleled EO-IR camera performance, and an acoustic signature that enables it to be silent from a 120-meter ground distance at 120 meters altitude AGL.



SPECIFICATIONS

Max Takeoff Weight	1.6 kg
Flight Time	40 min
Max Speed	18 m/s
Max Wind	25 knots
Acoustic Covert Distance (At 120m AGL)	120 meter
Frame Size (LxWxH)	40 x 40 x 15 cm
Frame Size Folded (LxWxH)	28 x 20 x 15 cm
Deployment Time	< 1 min
Radio Range LoS	5 km
Precipitation	IP54
Operational Temperature	-20 - +50 °C

Modules Object Tracking, Target Acquisition (Sensor to Shooter)

MI The Martlet MI-1 is the most silent, compact, and easily portable UAV within the Martlet Family of Systems. The MI-1 is quickly deployed for swift and covert observation and situational awareness.

MI-2760

The Martlet MI-2 is a lightweight, rugged, and long endurance UAV designed for rapid deployment and to provide actionable aerial intelligence in high-risk environments.

LONG ENDURANCE MINI UAS FOR ISTAR

The Martlet MI-2 and MI-2S offer 80/50 minutes of flight time, a radio range of 20 kilometers, exceptional EO/IR camera capabilities, and an acoustic signature that keeps it silent from a distance of 150/200 meters at an altitude of 120 meters AGL.



MULTI-MISSION MINI UAS FOR ISTAR

The Martlet MI-3 offers 90 to 50 minutes of flight time depending on the amount of equipped payload, a range of 20 kilometers, exceptional EO/IR camera capabilities, and an acoustic signature that keeps it silent from a distance of 250 meters at an altitude of 120 meters AGL.



Max Takeoff Weight	11 kg
Max Payload Weight	3 kg
Flight Time With Max Payload	90/110* min 50/60* min
Max Speed	65 km/h
Max Wind	25 knots
Acoustic Covert Distance (At 120m AGL)	250 meter
Frame Size (LxWxH)	80 x 80 x 43 cm
Frame Size Folded (LxWxH)	55 x 55 x 40 cm
Deployment Time	< 3 min
Radio Range LoS	20 km
Precipitation	IP54
Operational Temperature	-20 - +50 °C

Modules

Object Tracking, Recognition & Classification, Target Acquisition (Sensor to Shooter)

MI-3B-6 The Martlet MI-3 is a portable tactical multi-mission UAV within the Martlet Family of Systems. It is designed for extended missions and can carry multiple payloads that are easily interchanged.

MI-Z The MI-4 is a multi-mission hexacopter within the Martlet Family of Systems. It is designed to carry

and/or drop larger payloads in combination with

carrying out ISR or Target Acquisition operations.

HEAVY PAYLOAD MINI UAS FOR ISTAR

The Martlet MI-4 offers 120 to 50 minutes of flight time depending on the amount of equipped payload, a range of 30 kilometers, exceptional EO/IR camera capabilities, and an acoustic signature that keeps it silent from a distance of 300 meters at an altitude of 120m AGL.



MARTLET GROUND CONTROL STATION

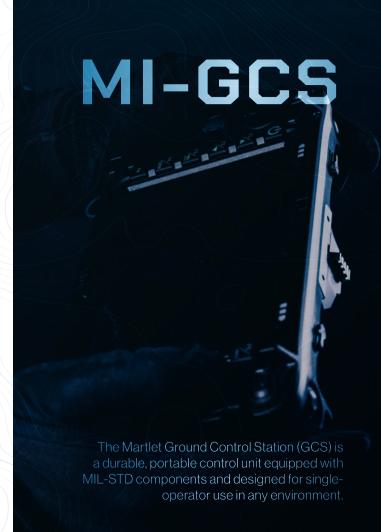
With Nett Warrior compatibility and Swappable Radio Modules (SRM), this tactical controller provides exceptional interoperability and radio-agnostic capabilities. In addition to its internal battery, two swappable batteries enable continuous operation.





SPECIFICATIONS

Weight	927 grams	
Dimensions (LxWxH)	25.6 x 14 x 6.8 cm	
Connections	USB-C 3.0, Nett Warrior EUD compatible	
Radio Options	Silvus, Microhard, Doodle Labs, and more	
Operating Software	Android 11 (Windows 11 on request)	
CPU	Qualcomm® SDM660 2.2/1.843GHz	
Memory	4GB (LPDDR4)	
Display	7" WXGA 1280 x800 px, 750nit	
Certification	MIL-STD-810-H	
Compliance	CE, ROHS compliant IP65 -20 - +50 °C	
Precipitation		
Operational Temperature		





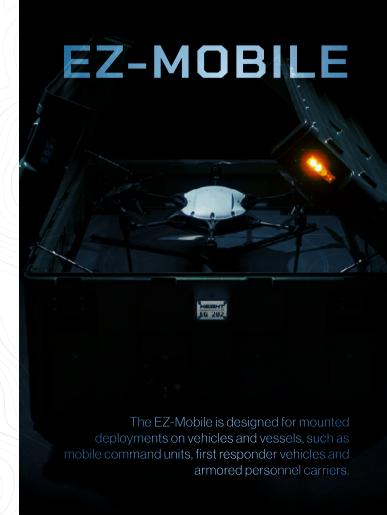
The EZ Systems provide advanced drone-in-a-box solutions designed for various operations, offering mobile and static options. Deployed on vehicles, vessels, or remote sites, EZ Systems deliver reliable, persistent aerial surveillance with minimal intervention. They are enabling continuous monitoring and situational awareness for security and defense applications.

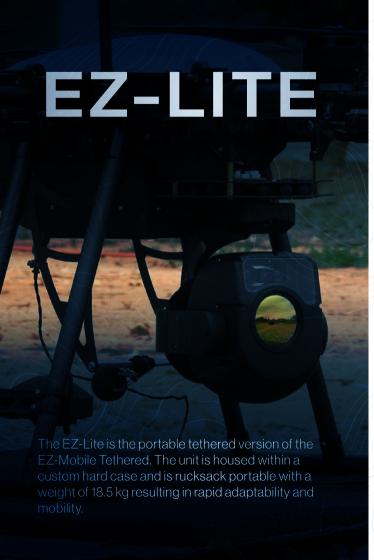
TETHERED / FREE FLIGHT DRONE-IN-A-BOX

Developed and built by former military personnel and aerospace, robotics and software engineers. The EZ-Mobile is a military-grade & weather-resistand autonomous drone-in-a box, designed to be a portable, fully-autonomous and versatile ISTAR and TCR system.



SPECIFICATIONS	TETHERED	FREE FLIGHT	
Max Takeoff Weight	6.5 kg	8.3 kg	
Max Payload Weight	2 kg	2.3 kg	
Max Operating Altitude	60 m or 100 m	900 m	
Max Flight Time	Persistent Flight	45 – 30 min	
Max Speed	56 km/h	100 km/h	
Radio Range	Data over Power	5 km (LoS)	
Total System Weight	68 kg		
Dimensions (LxWxH)	90 x 90 x 55 cm AC: 90-240V, 2000W DC: 28V, 1500W		
Power			
Max Wind	22 knots		
Precipitation	IP54		
Operational Temperature	-20 - +50 °C		





COMPACT HEAVY PAYLOAD TETHERED UAS

The EZ-Lite can be deployed as a resilient "network in the sky," providing continuous aerial connectivity and coverage through a secure tethered solution. This setup enables sustained, stable, high-bandwidth communication and long-duration network support.



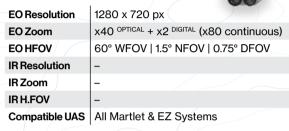
SPECIFICATIONS

	Weight w/o UAV	18.5 kg
	Max Payload Weight	6.8 kg
1	Max Operating Altitude	60 or 100 m DoP cable
	Max Flight Time	Persistent Tethered Flight
	Dimensions (LxWxH)	61 x 41 x 26 cm
	Power	100-240V AC (up to 3000W)
	Radio Range	Data over Power (DoP)
	Max Wind	22 knots
	Precipitation	IP54
	Operational Temperature	-20 - +50 °C

FO-IR PAYLOAD OPTIONS



X80





DRAGONEYE

1280 x 720 px x20 OPTICAL + x2 DIGITAL (x40 continuous) 60° WFOV | 3° NFOV | 1.5° DFOV 640 x 480 px x4 DIGITAL continuous 32° WFOV | 8° DFOV All Martlet & EZ Systems



STARLING

1280 x 720 px x20 OPTICAL + x2 DIGITAL (x40 continuous) 60° WFOV | 3° NFOV | 1.5° DFOV 640 x 480 px x4 DIGITAL continuous 18° WFOV | 4.5° DFOV MI-2, MI-3, MI-4, EZ-Mobile, EZ-Lite



NIGHTHAWK-UZ

EO Resolution 1280 x 720 px **EO Zoom** x20 OPTICAL + x2 DIGITAL (x40 continuous) **EO HFOV** 60° WFOV | 3° NFOV | 1.5° DFOV IR Resolution 1280 x 720 px IR Zoom x4 DIGITAL continuous IR H.FOV 25° WFOV I 6° DFOV Optional 850nm Illuminator (1cm spot at 1km) Compatible UAS | MI-2, MI-3, MI-4, EZ-Mobile, EZ-Lite



RAPTOR

1280 x 720 px x40 OPTICAL + x2 DIGITAL (x80 continuous) 60° WFOV | 1.5° NFOV | 0.75° DFOV 1280 x 720 px x8 DIGITAL continuous 17.5° WFOV | 2.2° DFOV 850nm Illuminator (1m spot at 1km) MI-2S, MI-3, MI-4, EZ-Mobile, EZ-Lite



RAVEN

1280 x 720 px x40 OPTICAL + x2 DIGITAL (x80 continuous) 60° WFOV | 1.5° NFOV | 0.75° DFOV 1280 x 720 px x11 OPTICAL + x2 DIGITAL (x22 continuous) 25° WFOV | 6° DFOV Range Finder (≥1 km cange) MI-4. EZ-Lite





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