

SMALL UNMANNED AIRCRAFT SYSTEMS

PUMA

UAS

Unmanned Aircraft Systems



Puma is a hand launched Small Unmanned Aircraft System designed to directly support organic reconnaissance requirements of battalion and below maneuver elements. The system is man-portable and is operated by 2 trained operators. The Puma provides the ability to automatically track moving targets and to operate in a “follow-me” mode relative to the operator, thus allowing for mobile operations. The sensor is fully gimballed and simultaneously provides EO, IR, and illuminator capabilities. Puma can operate in a wide range of environments, including rain and salt water conditions.

The Puma All Environment Capable Variant (AECV) is designed for land based and maritime operations. It is capable of landing in fresh or salt water and on land and provides the operator with the flexibility to tailor missions to the specific needs of forward deployed tactical units. The Puma AECV is designed for use in rugged and austere environments, providing a highly reliable, man portable reconnaissance system requiring no auxiliary equipment for launch or recovery operations. The electrically powered system operates autonomously and carries a fully gimballed sensor system incorporating electro-optical and infrared sensors and an IR Illuminator in one modular, gimballed payload allowing the operator to keep “eyes on target”.



Wing Span	Air Vehicle Weight	Range	Airspeed	Operational Altitude	Max Altitude	Endurance	Payload	GCS/RVT	System Design	Data Link	Flight Modes
9.2 ft	13 lbs	15 km (LOS)	23-52 mph	500 ft AGL	10,500 ft MSL	120 Min	Gimballed EO (2592x1944), IR (640x480) and Laser Illuminator (25 ft spot at 500ft AGL) and IR camera plus an IR illuminator	Handheld (GCS & RVT are interchangeable) Combined Weight- 9 lbs (13.9 lbs w/mission planning/ RSTA Laptop)	Modular, Kevlar composite, direct-drive electric motor, Li-Ion rechargeable batteries	Digital Data Link (DDL) using IP based protocol with 95 selectable channels-of which 16 may be used in an ops area-locked to specific air vehicle	Manual, Autonomous, Follow-Me





EO & IR Payloads Noses



**PUMA
Air Vehicles**



FRK



RSTA Kit



**Ground Control Station/
Remote Video Terminal
w/Battery & Case**



**The system provides day/night
reconnaissance and surveillance
capabilities to maneuver
battalions, significantly
enhancing force protection.**



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