



PUMA™ LE LONG ENDURANCE

The All Environment Puma LE delivers Group 2 capabilities in a Group 1 optimized, two-case mission packout. This ultra-lightweight Group 2 aircraft more than doubles the time on station of Puma 3 AE, featuring 6.5 hr of flight endurance and a 60 km range when used with the optional Long Range Tracking Antenna (LRTA) and Puma Smart 2500 Battery. Puma LE comes equipped with AeroVironment's Mantis™ i45 gimbaled payload featuring dual Electro-Optical (EO) cameras, an Infrared (IR) camera, a low-light camera, and an NVG-visible laser illuminator. The aircraft is multi-mission capable, with a total payload capacity of 5.5 lb and a secondary payload bay with dedicated power supply and Ethernet. The system was built for the integration of multi-mission payloads such as Electronic Warfare, RF Geolocation or Communications Relay. Puma LE is hand or bungee launchable and utilizes a precise, waypoint-controlled skid landing and does not require additional equipment for recovery.

Group 2 Capabilities Group 1 Footprint

PUMA™ LE

DISTINCTIONS



»» LINK RANGE
20 km, 60 km with LRTA



»» WINGSPAN | »» LENGTH
15 ft (4.6 m) | 7.3 ft (2.2 m)



»» WEIGHT
23.5 lb with Mantis i45 (10.7 kg)
27 lb MGTOW* (12.2 kg)



»» ENDURANCE
6.5 hr with Puma Smart 2500 Battery**



»» TOTAL PAYLOAD CAPACITY
5.5 lb (2.5 kg)

SPECIFICATIONS

| | |
|------------------------|---|
| LINK RANGE | 20 km standard antenna, 60 km with LRTA |
| ENDURANCE | 5.5 hr with Mantis i45 6.5 hr with Mantis i45 and optional Puma Smart 2500 Battery** |
| SPEED | Cruise: 47 km/h (25 kts), Dash: 76 km/h (41 kts) |
| OPERATING ALTITUDE | 300-500 ft (91-152 m) AGL, typical Max. launch 10K ft (3,048 m) MSL |
| TOTAL PAYLOAD CAPACITY | 5.5 lb (2.5 kg)** |
| LAUNCH METHOD | Hand-launched, bungee or vehicle launch |
| RECOVERY METHOD | Autonomous or manual skid landing |

PUMA LE USES PLUG AND PLAY INTEROPERABLE COMPONENTS

By leveraging the existing Puma RQ-20B and Puma 3 AE Line Replaceable Units (LRUs), Puma LE allows any current Puma AE user to easily upgrade fielded systems. This interoperability builds on a legacy of Puma baselines with hundreds of thousands of operational flight hours. The Puma AE product line provides the warfighter with Intelligence, Surveillance and Reconnaissance (ISR) during day and night operations in All Environment (AE) conditions.



i25/i45



Motor/Props



Avionics



GPS/INS



DDL Radio



GCS



Servo



Batteries



UBC

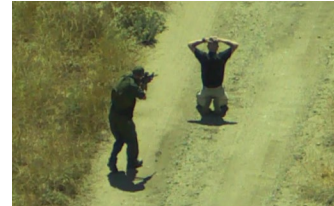


Laptop

KEY FEATURES

- » All Environment capability
- » Common GCS with Puma™ 3, Raven®, Wasp® AE
- » Dedicated secondary payload bay with power supply and Ethernet
- » Puma AE LRU component interoperability
- » Enhanced Digital Data Link, more frequencies, AES-256 bit encryption support
- » Inaudible at 500 feet

EO imagery



IR imagery



BATTLE-PROVEN MANTIS i45 GIMBALED PAYLOAD

Puma LE comes standard with the Mantis i45 Gimbaled Payload featuring Dual 15 MP EO cameras, 50x zoom, IR camera and Low Light camera for night operations, and a High Power Laser Illuminator.



OPTIMIZED PACKOUT FOR MISSION FLEXIBILITY

2 CASES/2 MISSIONS: Support two full endurance flights with a simple two-case packout. Puma LE uses the same cases as Puma 3 AE with custom foam inserts.
57.4 in x 18.5 in x 11.2 in (145.8 cm x 47 cm x 28 cm)

DEDICATED INTERNAL SECONDARY PAYLOAD BAY

Every Puma LE features an internal secondary payload bay with a dedicated power supply and an Ethernet communication port. This provides 3.4 lb of secondary payload capacity for expanded mission capability.

12.25 in x 4.75 in x 5 in (31.1 cm x 12.1 cm x 12.7 cm) approximate dimensions
18-24 V at up to 5 A (90 W) for full flight duration

PUMA SMART 2500 BATTERY***

This optional battery extends Puma LE's flight time up to 6.5 hours, providing greater time on station and maximizing Puma LE's multi-mission capabilities. The high density, lithium-ion battery pack features an improved 24.5 Ah (amp-hours) capacity.

Total Incremental Weight (2 Battery Packs): 0.3 lb (140 g)**

* MGTOW - Maximum Gross Takeoff Weight

** Payload capacity is reduced by 0.3 lb (140 g) with Puma Smart 2500 Battery

*** Puma Smart 2500 Battery is not compatible with other Puma AE aircraft