The All Environment Puma LE delivers Group 2 capabilities in a Group 1 optimized, two-case mission packout. This ultra-lightweight Group 2 aircraft nearly doubles the time on station of Puma 3 AE, featuring 5.5 hr of flight endurance and a 60+ km range when used with the optional Long Range Tracking Antenna (LRTA). 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.
**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**

**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.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>LINK RANGE</strong></td>
<td>20 km standard antenna, 60 km with LRTA</td>
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<tr>
<td><strong>ENDURANCE</strong></td>
<td>5.5 hr with Mantis i45</td>
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<tr>
<td><strong>SPEED</strong></td>
<td>Cruise: 44 km/h (24 kts), Dash: 76 km/h (41 kts)</td>
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<tr>
<td><strong>OPERATING ALTITUDE</strong></td>
<td>300–500 ft (91-152 m) AGL, typical</td>
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<td></td>
<td>Max. launch 10K ft (3,048 m) MSL</td>
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<tr>
<td><strong>TOTAL PAYLOAD CAPACITY</strong></td>
<td>5.5 lb (2.5 kg)</td>
</tr>
<tr>
<td><strong>LAUNCH METHOD</strong></td>
<td>Hand-launched, bungee or vehicle launch</td>
</tr>
<tr>
<td><strong>RECOVERY METHOD</strong></td>
<td>Autonomous or manual skid landing</td>
</tr>
</tbody>
</table>

**DISTINCTIONS**

- **LINK RANGE**
  - 20 km, 60 km with LRTA

- **WINGSPAN**
  - 15 ft (4.6 m)

- **LENGTH**
  - 7.3 ft (2.2 m)

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

- **ENDURANCE**
  - 5.5 hr with Mantis i45

- **TOTAL PAYLOAD CAPACITY**
  - 5.5 lb (2.5 kg)

**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" x 18.5" x 11.2" (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" x 4.75" x 5" (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

* MGTOW - Maximum Gross Takeoff Weight