Building on a legacy of continuous improvement, the Puma™ 3 AE offers system level enhancements for use in land and maritime operations. The Puma 3 AE has operational flexibility never before available in the small unmanned aircraft systems (SUAS) class including upgrades for secondary payloads and third-party applications. The multi-mission capable system allows operators to swap between Mantis™ i45 and the enhanced Mantis i45 N nighttime payload for day, night and low-light operations in extreme environments. Operators can also manually or autonomously navigate the Puma 3 AE while gaining real-time situational awareness and actionable intelligence through AeroVironment’s common GCS. Available Puma™ VTOL Kit and Puma™ VNS (Visual Navigation System) expand the operational capabilities by providing vertical take-off and landing in urban environments and GPS-denied navigation in contested environments.
Puma™ All-Environment Family

**KEY FEATURES**

- **All-environment rated**
- **Enhanced Digital Data Link™ covering more frequencies & supporting AES-256-bit encryption**
- **Reinforced fuselage & center wing accommodates heavier configurations**
- **Reduced packaging fits a flyable configuration in a single case**
- **Upgraded motor providing up to 26% increased climb rate in heavier configurations for overall mission performance**
- **Field-swappable Mantis™ payloads for day & night operations**

**DISTINCTIONS**

- **LINK RANGE**
  - 20 km, 60 km with LRTA
- **WINGSPAN**
  - 9.2 ft (2.8 m)
- **LENGTH**
  - 4.6 ft (1.4 m)
- **WEIGHT**
  - 15.4 lb (7 kg)
- **ENDURANCE**
  - 2.5 hr with Mantis™ i45

**SPECIFICATIONS**

- **PAYLOADS**
  - Mantis™ i45: Dual 15 MP EO/IR
  - Mantis™ i45 N: Dual LWIR/5 MP Low Light
- **TOTAL PAYLOAD CAPACITY**
  - 4 lb (1.8 kg)
- **SPEED**
  - Cruise: 49 km/hr (26 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
- **GCS**
  - Crysalis™ & legacy common GCS
- **LAUNCH METHOD**
  - Hand-launched, optional bungee launch or VTOL kit
- **RECOVERY METHOD**
  - Autonomous or manual precision deep-stall landing

**PUMA™ 3 AE USES PLUG AND PLAY INTEROPERABLE COMPONENTS**

Puma™ AE users can leverage existing line-replaceable units (LRUs) to easily upgrade or repair 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 conditions.

**OPTIONAL ADD-ONS**

- **Puma™ VTOL Kit**
- **Puma™ Universal Transit Bay**
- **Puma™ Bungee Launch System**
- **Puma™ VNS (Visual Navigation System)**

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