

A circular logo consisting of a solid outer ring and a smaller solid inner circle, with a thin line connecting the two.

PUMA™ 3 AE ALL ENVIRONMENT

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 (UAS) 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.

Puma All Environment Family

PUMA™ 3 AE

DISTINCTIONS



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



» **WINGSPAN** | » **LENGTH**
9.2 ft (2.8 m) | 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™ and legacy common GCS
LAUNCH METHOD	Hand-launched, optional rail or bungee launch
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.



Mantis
i25/i45/i45 N



Motor/Props



Avionics



GPS/INS



DDL Radio



GCS



Servo



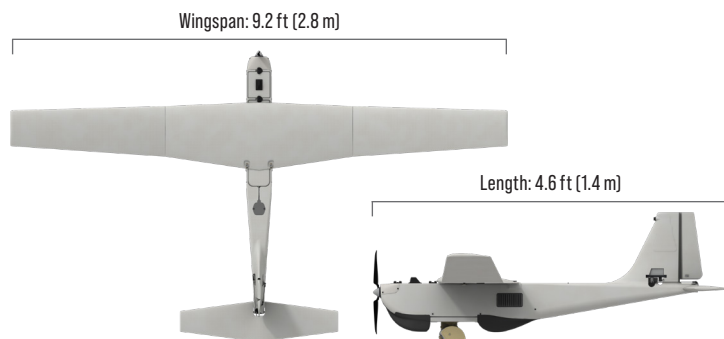
Batteries



UBC

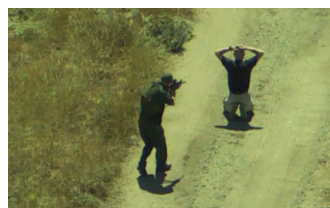


Laptop



KEY FEATURES

- » All-environment capability
- » Field-swappable Mantis payloads for day and night operations
- » Increased payload capacity with optional under wing transit bay and reinforced airframe
- » Enhanced Digital Data Link™ covering more frequencies and supporting AES-256 bit encryption
- » Reinforced fuselage and center wing accommodates heavier configurations
- » Shares Mantis payloads and common LRUs with Puma LE
- » Reduced packaging fits a flyable configuration in a single case



Downlink imagery from Mantis i45



Downlink imagery from Mantis i45 N