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 empowers the operator with an operational flexibility never before available in the small UAS class including upgrades for secondary payloads and third party applications. Equipped with the all new Mantis™ i45 Gimbal, the aircraft system provides high resolution imagery 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 ground control system.
KEY FEATURES

- Gimbaled EO, IR, Low Light, and Illuminator payload
- Increased payload capacity with optional under wing transit bay and reinforced airframe
- Powerful and efficient propulsion system
- Precision navigation system
- Enhanced Digital Data Link covering more frequencies & supporting AES-256 bit encryption
- Reinforced fuselage & center wing accommodates heavier configurations
- Upgraded GCS laptop (CF-33) with larger screen, removable keyboard & Windows 10 support
- Reduced packaging fits a flyable configuration in a single case

PAYLOADS

- Mantis i45 Gimbaled Payload with Dual 15 MP EO cameras, 50x zoom, IR camera and Low Light camera for night operations, and High Power Laser Illuminator

TOTAL PAYLOAD CAPACITY
4 lb (1.8 kg)

LINK RANGE
20 km standard antenna, 60 km with LRTA

ENDURANCE
2.5 hr flight endurance with Mantis i45 payload

SPEED
- Cruise: 47 km/hr (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

WINGSPAN
9.2 ft (2.8 m)

LENGTH
4.6 ft (1.4 m)

WEIGHT
15.4 lb (7 kg)

GCS
Common GCS with Raven®, Wasp® AE, and Puma LE

LAUNCH METHOD
Hand-launched, optional rail or bungee launch

RECOVERY METHOD
Autonomous or manual precision deep-stall landing

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