

A decorative graphic element consisting of a white circle with a smaller white circle inside, connected by a white line to the left.

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 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.

DISTINCTIONS



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



»» **WINGSPAN** | »» **LENGTH**
9.2 ft (2.8 m) | 4.6 ft (1.4 m)



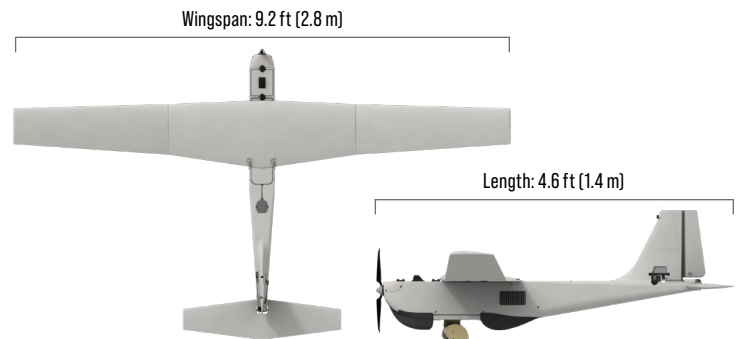
»» **WEIGHT**
15.4 lb (7 kg)



»» **ENDURANCE**
2.5 hr with Mantis i45

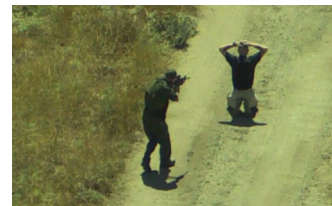
SPECIFICATIONS

PAYLOADS	Mantis i45 Gimbale 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: 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
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



KEY FEATURES

- »» *Gimbale 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*



Downlink imagery from EO camera



Downlink imagery from low light camera