RAVEN RQ-11B

The Raven B Unmanned Aircraft System (UAS) is a lightweight solution designed for rapid deployment and high mobility for both military and Homeland Security Applications, requiring low altitude surveillance and reconnaissance intelligence.

The most advanced small UAS deployed with the U.S. Armed Forces, the Raven can be operated manually or programmed for autonomous operation, utilizing the system's advanced avionics and precise GPS navigation.

With a wingspan of 4.5 feet and a weight of 4.2 pounds, the hand-launched Raven provides aerial observation, day or night, at line-of-sight ranges up to 10 kilometers. The Raven delivers real-time color or infrared imagery to the ground control and remote viewing stations.

TECHNICAL SPECIFICATIONS

Mission Descriptions - Remote Reconnaissance and Surveillance, Target Acquisiton, Force Protection and Convoy Security, Battle Damage Assessment, for Light Infantry, Dismounted Warfighter and Military Operations in Urban Terrain (MOUT).

Features - Simple Operation, Lightweight, Small Size, Hand- Launched, Autonomous Navigation, Autoland, Interoperable System Interface.

Payloads - Dual Forward and Side-Look EO Camera Nose, Electronic Pan-tilt-zoom with Stabilization, Forward and Side-Look IR Camera Nose (6.5 oz payloads).

GCS - Lightweight, Modual Components, Waterproof Softcase, Many Advanced Features Without Laptop, Optional FalconView Moving Map and Mission Planning Laptop Interface, Digital Video Recorder and Frame Capture.

Range - 10 km

Endurance - 60–90 minutes (Rechargeable Battery), 80–110 Minutes (Single Use Battery)

Speed - 32-81 km/h, 17-44 knots

Operating Altitude (Typ.) - 100-500 ft (30-152 m) AGL, 14,000 ft MSL max launch altitude

Wing Span - 4.5 ft (1.4 m)

Length - 3.0 ft (0.9 m)

Weight - 4.2 lbs (1.9 kg)

Launch Method - Hand-launched

Recovery Method - Deep-stall landing

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