



Group 1 Systems Small Unit Remote Scouting System (SURSS)

Navy and Marine Corps Small Tactical Unmanned Aircraft Systems (PMA-263)
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RQ-11B Raven

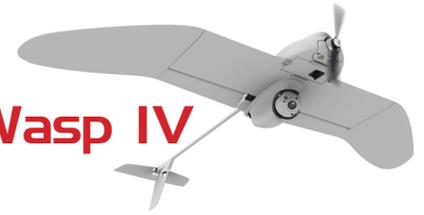


Raven is a battery-powered, hand-launched SUAS that provides over-the-hill intelligence, surveillance and reconnaissance (ISR) to Marine Corps units. The system, equipped with electro-optical and infrared (EO/IR) cameras, transmits still images and full-motion video to a ground control station (GCS) and remote video terminal. The RQ-11B flies either under manual operator or via a preprogrammed route, and each system contains two air vehicles, one GCS and one remote video terminal. Systems are being upgraded to include a digital data link (DDL) and a more advanced gimbaled EO/IR.

Specifications

Range: 5-10 km
Speed: 17-44 kts
Endurance: 60-90 minutes (rechargeable battery)
Operating Altitude: 150-1,000 ft above ground level (AGL)
Maximum Altitude: 10,000 ft mean sea level (MSL)
Wing Span: 4.5 ft
Length: 3 ft
Weight: 4.7 lbs
Launch: Hand launched
Recovery: Autonomous or manual deep stall landing
Standard Payloads: Forward/side-looking EO/IR cameras; IR marker; EO/IR Gimbal coming soon
Operators: 2

RQ-12A Wasp IV



Wasp IV is a battery-powered, hand-launched SUAS that provides near real-time ISR to Marine Corps Special Operations Command (MARSOC) units. The Wasp IV uses a DDL and dual EO/IR gimbaled cameras to transmit still images and full-motion video to the GCS and remote video terminal. The Wasp IV is an all-environment system suited for amphibious operations. The Wasp IV flies either under manual operator or via a preprogrammed route, and each system contains two air vehicles, one GCS and one remote video terminal.

Specifications

Range: 2.5-5 km
Speed: 20-45 kts
Endurance: 50 minutes
Operating Altitude: 500 ft AGL
Maximum Altitude: 10,000 ft MSL
Wing Span: 3.3 ft
Length: 2.7 ft
Weight: 2.75 lbs
Launch: Hand launched
Recovery: Autonomous or manual deep stall landing
Standard Payloads: EO/IR gimbaled cameras
Operator: 1

RQ-20A Puma AE



The RQ-20A Puma All Environment (AE) is a 13.5-pound, battery-powered, hand-launched SUAS providing near real-time, land-based and maritime ISR operations. It can scan an area 360 degrees using a lightweight, electro-optical and infrared gimbal camera. It allows small units the ability to detect Improvised Explosive Devices (IEDs) and IED-emplacement teams. Each system consists of three air vehicles, one ground control station and one remote video terminal.

Specifications

Range: 10-20 km
Speed: 20-40 kts
Endurance: 60-120 minutes
Operating Altitude: 500 ft AGL
Maximum Altitude: 10,500 ft MSL
Wing Span: 9.2 ft
Length: 4.7 ft
Weight: 13 lbs
Launch: Hand launched
Recovery: Autonomous or manual deep stall landing
Standard Payloads: Gimbal Electro-Optical EO/IR camera; IR marker
Operators: 2

Training and Logistics Support Activity (TALSA)



TALSA serves as the central location for all Marine Corps SUAS entry-level training programs and ensures Marine Expeditionary Forces (MEFs), MARSOC and Marine Corps Forces Reserve training requirements are met. Through standardized courses, the TALSA ensures Marines are properly trained to employ SUASs during contingencies/combat operations. The courses last five to 10 days, and upon graduation, students are certified as SUAS operators, fully prepared to provide their unit with boots-on-the-ground ISR capability. The TALSA also inform units on SUAS logistics and maintenance processes as well as provide fleet assistance and SME support.