## Raven Small Unmanned Aircraft System (SUAS)

### Mission

**Provides reconnaissance, surveillance, target acquisition (RSTA), and force protection for the battalion commander and below during day/night operations.**

### Description

The RQ-11B Raven Small Unmanned Aircraft System (SUAS) is a hand-launched, unmanned aircraft system capable of 90 minutes of flight time with an operational range of approximately ten kilometers. Normal operational altitude is 500 feet or lower. The system, aircraft, and ground control station are assembled by operators in approximately five minutes. The aircraft, which has a wingspan of 4.5 feet, weighs 4.2 pounds. Day and night operations are possible using interchangeable modular payloads. Both color electro-optical (EO) sensors and infrared (IR) sensors are fielded with each system. A hand controller displays live video and aircraft status. Mission planning is performed on the hand controller or ruggedized laptop running PFPS/Falcon View flight planning software. Aircraft flight modes include fully autonomous navigation, altitude hold, loiter, and return home. In-flight re-tasking and auto-loiter at sensor payload point of interest are also available. Raven incorporates secure global positioning system navigation. The Raven system is comprised of three air vehicles, a ground control station (GCS), a remote video terminal (identical to GCS), EO/IR payloads, aircraft and GCS batteries, a field repair kit, and a spares package. The digital data link incorporates encryption, improves spectrum management allowing more air vehicles to be flown in an operational area, and provides range extension via data relay between two Raven aircraft.

The Raven is operated by two Soldiers and has a rucksack-portable design. No specific military occupational specialty is required. Operator training is ten days.

### System Interdependencies

None

### Program Status

- **Current**: In production and deployment
- **Current**: Operational in both Operation Iraqi Freedom and Operation Enduring Freedom

### Projected Activities

- **FY11–12**: Continue full-rate production and product improvements
Raven Small Unmanned Aircraft System (SUAS)

FOREIGN MILITARY SALES
Estonia, Lebanon

CONTRACTORS
Aerovironment, Inc. (Simi Valley, CA)
Indigo System Corp. (Goleta, CA)
All American Racers, Inc. (Santa Ana, CA)
L-3 Communications (San Diego, CA)
Bren-Tronics (Commack, NY)