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 is a Small Unmanned Aircraft System (SUAS). It is a hand-launched, unmanned aircraft system capable of 90 minutes of flight time with an operational range of approximately 10 kilometers. 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. 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 has a wingspan of 4.5 feet and weighs 4.2 pounds. Both color electro-optical (EO) sensors and infrared (IR) sensors are fielded for day and night capabilities 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 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 10 days.

SYSTEM INTERDEPENDENCIES
None

PROGRAM STATUS
• Current: In production and deployment
• Current: Operational in both Operation New Dawn and Operation Enduring Freedom

PROJECTED ACTIVITIES
• FY11-12: Continue Full-Rate Production and product improvements; integrate and field gimbaled payload (combined EO/IR/ Laser Illuminator)
RQ-11B Raven Small Unmanned Aircraft System (SUAS)

FOREIGN MILITARY SALES
Denmark, Estonia, Lebanon, Uganda

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)