

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES
SYSTEM SPECIFICATIONS

The Raven B Air Vehicle can be launched and recovered in minutes without special equipment on unprepared terrain. The system employs a self-stabilizing air vehicle configuration with stability augmentation avionics, and provides ease of control and steady video imagery. Air and ground components are lightweight and easily configured for rucksack transport. The Raven B Air Vehicle is battery-powered and has low visual, acoustic, and thermal signatures. The system includes two nose cones. One houses two color electro-optical (EO) cameras (front- and side-look); one houses a side-look infrared (IR) camera with laser illuminator. The Raven B Air Vehicle flies for 60-90 minutes on rechargeable Lithium Ion (Li-ion) battery packs. The Raven B system is typically operated by a two-person team consisting of a Vehicle Operator (VO) and a Mission Operator (MO).

The components listed in system_components_tableSystem Components Table are part of the Raven B SUAS system.

TABLE 1. SYSTEM COMPONENTS

COMPONENT	QUANTITY
Air Vehicle	3
EO Payload Nose, Forward- and Side-look	1
IR Payload Nose, Side-look	1
Ground Control Station (GCS)	1
Remote Video Terminal (RVT)	1
RSTA Kit (separate Government Furnished Equipment (GFE)	1
Field Repair Kit (FRK)	1

LOCATION AND DESCRIPTIONS OF MAJOR COMPONENTS
AIR VEHICLE

The Raven B Air Vehicle is assembled from eight components. It is broken down for storage and transportation into the Air Vehicle Soft Pack. A foam liner supports and protects the air vehicle and accessories from damage, and the waterproof “dry bag” keeps the system dry when submersed up to two meters for up to two hours. The Air Vehicle Soft Pack carries one air vehicle, one air vehicle battery, two payload noses, and a Field Repair Kit (FRK). The assembled Raven B air vehicle is shown in raven_aircraft_figureRaven B Air Vehicle.

