

RQ-11A Raven



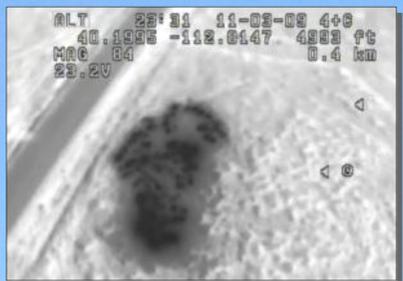
Raven EO Imagery



Raven EO Imagery



Raven IR (Black is Hot) Imagery



Raven IR (White is Hot) Imagery



The Raven small unmanned aerial vehicle (SUAV) is a hand-launched reconnaissance and surveillance tool. The system transmits live airborne video images, compass headings and location information to a ground control unit (GCU) and remote video terminal (RVT). The Raven aircraft is hand launched without the need of special equipment or landing area required. The system employs a self-stabilizing aircraft configuration with stability augmentation avionics and provides ease of control and steady video imagery. The optics package includes an electro-optical (EO) color camera nose payload (side and forward look on the same payload) and two infrared (IR) thermal nose payloads (a side look payload or a forward look payload). The Raven system is typically operated by a two person team consisting of a Pilot and Mission Controller.



Raven Hand Launch



Raven Characteristics

Wingspan	55in.
Length	36in.
Structure	Modular, Kevlar composite
Weight	4.2 lb
Payload Nose Weight	6.5 oz
Operating Altitude	150 to 1,000 ft. AGL
Nominal Low Altitude	100 ft
Cruise Speed	30 mph (13.5 m/s)
Range	10 km (LOS)
Climb Rate	800 ft/min at 2,000 ft AGL
Turn Rate	360 in 24 seconds
Motor	Direct drive electric
Aircraft Batteries	LiSO2 (single-use) Li-Ion (rechargeable)
Flight Duration	60-90 min rechargeable
Launch	Hand Launch
Landing	Commanded auto land deep stall
Navigation	P(y)-code GPS (WGS84) and electronic compass
Flight Control	Manual or autonomous



Raven Mission Ops Set Up

