RQ-16A T-Hawk

T-Hawk EO Imagery

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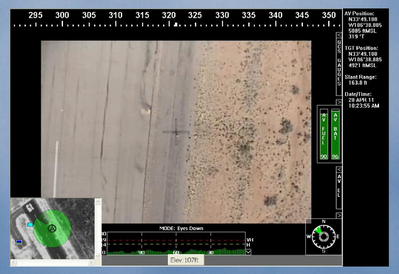
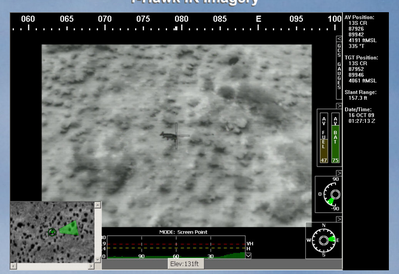
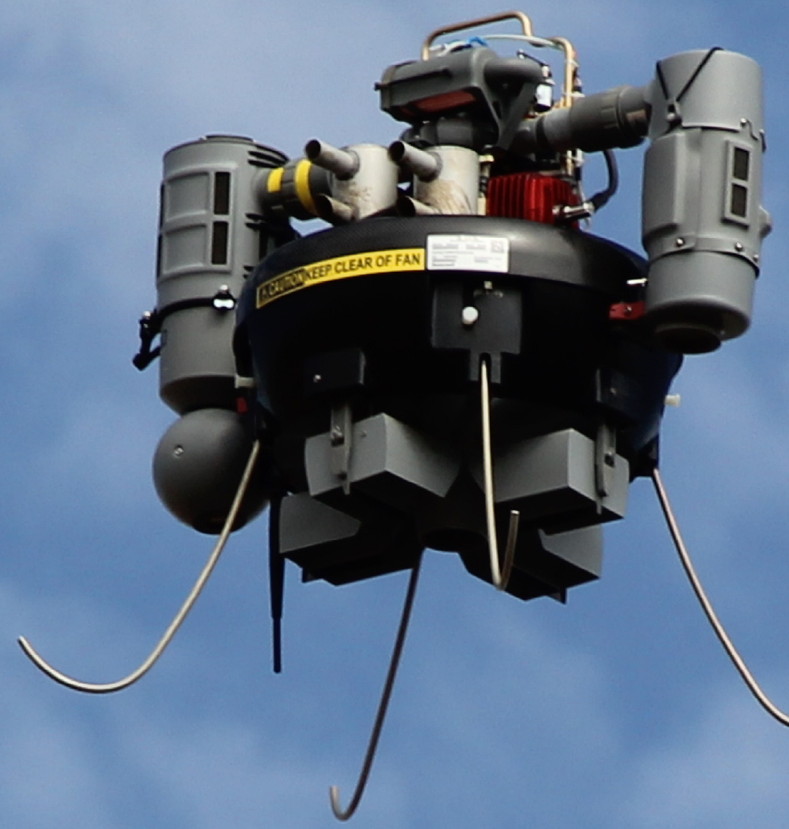


T-Hawk EO Imagery

T-Hawk IR Imagery



T-Hawk IR Imagery



The Honeywell RQ-16A T-Hawk (Tarantula Hawk) is a ducted fan, vertical take off and landing (VTOL) micro unmanned aerial vehicle (UAV). The RQ-16A system is suitable for backpack deployment and single-person operation. The gasoline engine powered RQ-16 weighs 8.4 kilograms (20 lb), has an endurance of around 40 minutes, 9600-foot (3,000 m) ceiling and an operating radius of about 1.2 miles (2 km). Forward speeds up to 70 knots (130 km/h) have been achieved, but the vehicle is operationally restricted to 50 knots (93 km/h) by software. VTOL operation is subject to a maximum wind speed of 15 knots (28 km/h). Sensors include one gimbaled electro optical camera or one gimbaled infrared camera.

T-Hawk hovers in flight after vertical take off

T-Hawk at take off

T-Hawk system is suitable for backpack deployment

T- Hawk Characteristics

Diameter	23.5" w/ pods (14.5" w/o)
Height	23" w landing gear (18" w/o)
Weight (dry)	17.2 lbs (w/ EO camera) 17.5 lbs (w/ IR camera)
Fuel Capacity	2.2 lbs
Flight Duration	40 minutes @ 7700 ft density altitude
Operating Ceiling	7700 ft density altitude (full fuel load), 9600 ft density altitude (reduced fuel load)
Flight Altitude	50 ft autonomous at low speed, 5ft (manuel)
Air Speed (max)	45 mph (72 kph)
Descent Rate (max)	5 ft/s (1.5 m/s)
Climb Rate (max)	10 ft/s (3.0 m/s)
Range (max)	5-6 miles (8-10 km)
Winds (max)	15 knots (take off / landings) 20 knots (aloft)
Battery	60 minutes rechargeable
Navigation	SAASM GPS, IMU pressure altimeter, magnetometer
Communication	DDL radio
Communication Channels	up to 97 selectable channels
EO Camera Resolution	768 x 494
IR Camera Resolution	324 x 256
EO Camera FOV	46° to 5° (10x optical zoom)
IR Camera FOV	36° (2x digital zoom)
Operating Temp	20° F to 120° F (-6° C to 49° C)
Storage Temp	0° F to 160° F (-18° C to 71° C)