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.

**RQ-16A 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)
- **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)
- **Wind (max)**: 15 knots (take off, landing) / 20 knots (aloft)
- **Battery**: 60 minutes rechargeable
- **Navigation**: SAASM GPS, IMU pressure altimeter, magnetometer
- **Communication**: DDL radio, 97 selectable channels
- **EO Camera Resolution**: 768 x 494
- **IR Camera Resolution**: 324 x 256
- **EO Camera FOV**: 46° (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)