

Aircraft Description:

Honeywell RQ – 16A Micro Air Vehicle



Air Vehicle is a packpackable ducted fan lift augmented Vertical Take Off and Landing Air Vehicle with gasoline powered engine

Diameter	23.5 in. with sensor pods
Height	23 inches
Weight (dry)	16lbs (EO) 16.3 lbs. (IR)
Fuel Capacity	2.2 lbs
Flight Duration	40 minutes
Speed	45 mph
Climb Rate (max)	10 f/s
Descent Rate (max)	5 f/s
Winds	15 knots (takeoff/landing), 20 knots (aloft)
Onboard Video	10 minutes
Battery	55 minutes (rechargeable)
Launch Capability:	Manual, Autonomous and Remote
Landing:	Manual and Autonomous
Flight Control:	Manual, Autonomous, Semi-Autonomous and Attitude Heading Reference System (AHRS)
Navigation	SAASM GPS, IMU, Pressure Altimeter and Magnetometer
Communication	C2 radio and video link radio
Lost Link Response	Ascend , Rally Point, Route Retrace, or Continue
Operating Temp.	0° to 140° F
Storage Temp	0° to 140° F

Aircraft is equipped with a C2 and video link radio. Radios can utilize up to 8 selectable channels. C2 radio is planned to be in the 920 Mhz range and video radio in the 2.4 Ghz range. Both commercial bands.

Aircraft is equipped with 2 interchangeable payload pods: a forward and downward looking EO camera or a forward and downward looking IR camera. The forward camera has a 15° downward pitch.

Electro Optical	Pixels 768H x 494V	FOV 46° to 5° (10x optical zoom)
Infra Red	Pixels 320H x 240V	FOV 40° (4x digital zoom) or 18° (4x digital zoom)