

# RQ-4A Global Hawk Autonomous Aerial Vehicle System

**Physical Specifications**

Weight.....11500lbs Empty / 26500 MGTW  
Wingspan .....116 Ft  
Length .....44 Ft  
Height.....15 ft

**Powerplant**

Single Rolls/Royce/Allicon 3007H Turbofan  
7000lbs Seal Level Static Thrust

**Fuel System**

Capacity 2,500 Gallons / 14,500 lbs  
Six Tanks – Wet Wing

**Communications System**

Ku Satcom Datalink.....(b) (3), (b) (4)  
Dual Band CDL LOS (X, Ku) .....(b) (3), (b) (4)  
UHF Band Satcom & LOS .....C2 Only  
INMARSAT.....C2 Only  
ATC Voice Relay via wideband datalinks

**Electrical System**

Dual Generators (DC & AC)  
DC Gen .....12KW  
AC Gen .....10KVA  
Dual DC Flight Critical Bus  
Three NiCd backup batteries, 45 minute reserve

**Payloads**

2000 lb payload weight  
EO/IR Optical Sensor & SAR Radar Sensor

**Ground Control Shelters**

LRE .....Takeoff, Landing, and Terminal Airspace  
MCE.....Mission Operations / Sensor Ops

**Airspace Operations**

Limited See & Detect capability via nose camera  
IFF Modes 1,2,3,C & 4

**Flight Control System / Computers**

Dual Redundant Flight Control Surfaces  
(Inner/Outer)  
Electric Control Actuators / Fly-By-Wire  
Dual Mission Management Flight Control  
Computers W/ Full Auto Failover

Dual Redundant Primary GPS/INS Navs  
Dual Redundant Payload Support GPS/INS Navs  
Dual 1553 Avionics Comm Busses

**Mission Profile / Capabilities**

Takeoff & Landing Runway < 8000 Ft  
Initial ROC .....> 3200FPM  
Descent Rate .....Up To 5000FPM  
(b) (3), (b) (4)

Max Altitude .....65,000 Ft  
Max Endurance .....35 Hrs  
Max Range .....10,000 nm  
Cruise TAS.....343 Kts / FL600  
Approach Speed .....100 to 140kts (Varies w/ wt.)

**Environmental Control System**

Pressurized Avionics/Payload Compartments  
Fuel System Thermal and Pressurization Control  
(b) (3), (b) (4)