

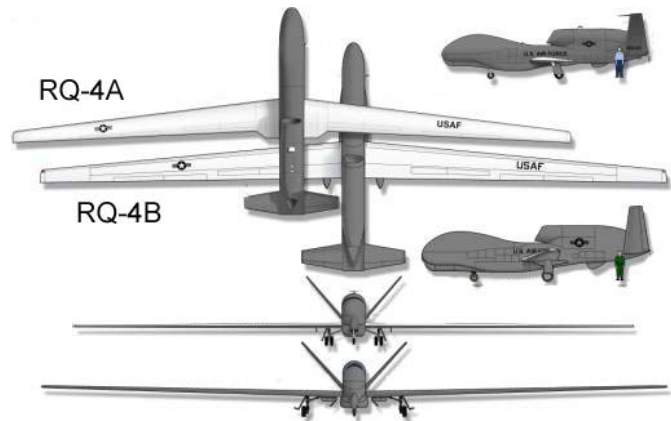
RQ-4 Global Hawk (Eurohawk)

Users: U.S. Air Force, Navy, German Air Force, NATO

Manufacturer: Northrop Grumman

Inventory: 16 Delivered/72 Planned (7 ACTD + 54 production UA for USAF) (2006)

Background: The RQ-4 Global Hawk is a high altitude, long endurance UA designed to provide wide area coverage of up to 40,000 nm² per day. The size differences between the RQ-4A (Block 10) and RQ-4B (Blocks 20, 30, 40) models are shown in the figure and table below. Global Hawk made its first flight on 28 February 1998 and transitioned from an ACTD into its EMD phase in March 2001. It carries both an EO/IR sensor and a Synthetic Aperture Radar (SAR) with moving target indicator (MTI) capability, allowing day/night, all-weather reconnaissance. It has been deployed to the CENTCOM theater since Nov 2001. The U.S. Navy acquired two RQ-4As (see GHMD) in 2004-5, Germany five RQ-4Bs (Eurohawks) in 2010-2012, and NATO four RQ-4Bs in 2012-2016 for its Alliance Ground Surveillance (AGS) system.



<http://www.af.mil/factsheets/factsheet.asp?fsID=175>

Characteristics:

	RQ-4A (Block 10)	RQ-4B (Block 20, 30, 40)		RQ-4A (Block 10)	RQ-4B (Block 20, 30, 40)
Length	44.4 ft	47.6 ft	Wing Span	116.2 ft	130.9 ft
Gross Weight	26,750 lb	32,250 lb	Payload Capacity	1,950 lb	3,000 lb
Fuel Capacity	14,700 lb	16,320 lb	Fuel Type	JP-8	JP-8
Engine Make	Rolls Royce AE-3007H	Rolls Royce AE-3007H	Power	7,600 lb (SLS)	7,600 lb (SLS)
Data Link(s)	LOS	LOS	Frequency	UHF	UHF
	LOS	LOS		X-band	X-band
	BLOS (SATCOM)	BLOS (SATCOM)		Ku-band INMARSAT	Ku-band INMARSAT

Performance:

Endurance	32 hr	28 hr	Max/Loiter Speeds	350/340 kt	340/310 kt
Ceiling	65,000 ft	60,000 ft	Radius	5,400 nm	5,400 nm
Takeoff Means	Runway	Runway	Landing Means	Runway	Runway
Sensor	EO/IR	EO/IR and SIGINT	Sensor Make	Raytheon	Raytheon

	SAR/MTI	SAR/MTI		Raytheon	Raytheon
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RQ-4 Global Hawk Maritime Demonstration (GHMD)

Users: U.S. Navy

Manufacturer: Northrop Grumman

Inventory: 2 Delivered/2 In Service (2006)

Background: The GHMD program is a non-acquisition demonstration program. Its purpose is to provide the Navy a multi-INT, high altitude, persistent, ISR demonstration capability for doctrine; CONOPS; tactics, techniques, and procedures development; and participation in naval, joint, and homeland defense exercises. In FY03, the Navy contracted with Northrop Grumman through the Air Force Global Hawk program office for the purchase of:

- Two RQ-4A (Block10) Global Hawks (2,000 pound payload) with EO/IR and SAR sensors
- Ground control/support equipment
- Engineering to include Navy changes for:
 - Maritime sensor modes software (maritime surveillance, target acquisition, inverse SAR)
 - 360-degree field-of-regard electronic support measures capability
 - Satellite and direct data link upgrades

These two UA with sensors and ground control/support equipment are based at the Navy's GHMD main operating base at Patuxent River, MD. <http://uav.navair.navy.mil>.