RQ-21A Blackjack

Program of Record for the U.S. Navy and U.S. Marine Corps

UNMANNED AIRCRAFT SYSTEMS

KEY BENEFITS & FEATURES

Modularity
Modular design supports a wide range of missions and payloads including electronic warfare, ISR and communications relay.

Persistence
Range and endurance enable persistent detection, classification and tracking.

Interoperability
Compliant with relevant NATO and industry standards to allow interoperability across joint, coalition and allied forces.

Customizable payload suite
Blackjack’s open payload architecture can be customized with imagers, communication systems, electronic warfare payloads, signals intelligence capabilities and other tools to give the warfighter a look ahead in operational environments.

Proven experience
Our systems are backed by more than 1.3 million operational hours and deployed worldwide with international defense, government and commercial customers with the most demanding mission requirements.

Persistence
Range and endurance enable persistent detection, classification and tracking.

Modularity
Modular design supports a wide range of missions and payloads including electronic warfare, ISR and communications relay.

Communication
Encrypted command and control data link enables a line-of-sight operating radius beyond 50 nm / 92.6 kms, with electromagnetic shielding to support customized communications and radio frequency sensor payloads.

Mobility
The system is transportable via ship, cargo aircraft (V-22, C-130 or larger), cargo helicopters (CH-47, CH-53) and vehicles such as HMMWVs or JLTVs.

Expeditionary, payload flexible and the most versatile UAS in its class. In partnership with the U.S. Department of the Navy, Insitu developed the RQ-21A Blackjack program to fill the requirement for a small tactical unmanned aircraft system capable of operating from land and sea.

1.3 MILLION FLIGHT HOURS
50 GLOBAL SITES OF OPERATION
MODULAR FAMILY OF SYSTEMS
SERVICES, ACQUISITION AND FMS

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**RQ-21A Blackjack**

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**SPECIFICATIONS**

**STANDARD PAYLOAD CONFIGURATION**
- Electro-optic imager: -1.1°–25° optical field of view; 4x digital zoom
- Mid-wave infrared imager: -2°–25° field of view
- Laser rangefinder
- IR marker
- Communications relay and AIS

**PERFORMANCE**
- Endurance: up to 16 hours
- Ceiling: up to 20,000 ft
- Max horizontal speed: 90+ knots / 46.3 m/s
- Cruise speed: 60 knots
- Engine: 8 HP reciprocating engine with EFI; JP-5, JP-8

**SIZE, WEIGHT AND POWER**
- Max takeoff weight: 135 lb / 61 kg
- Max payload weight: 39* lb / 17.7 kg (*Reduces endurance)
- Length: 8.2 ft / 2.5 m
- Wingspan: 15.7 ft / 4.8 m

**PROGRAM STATUS**
- 17,000+ flight hours
- 14 deployments completed
- 8 maritime MEU deployments
- 6 land-based deployments
- 31 systems delivered to the U.S. Navy & Marine Corps
- 4 international customers through NAVAIR’s FMS program

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