

ScanEagle[®]



ScanEagle is a long-endurance, autonomous unmanned aircraft system (UAS) that provides persistent daytime and nighttime intelligence, surveillance and reconnaissance (ISR) for civilian and defense operations.

ADVANTAGES

- Covert and on station for 24+ hours
- Quick field reconfiguration
- Laser, electronic signals collection and intelligence, comms and comms relay, mapping, radar and other payload options
- Withstands extreme environments
- Small-footprint, cost-effective system
- Runway-independent launch and recovery systems

ENHANCEMENTS

New technologies and continuous capability improvements better serve civilian and defense operations:

- New Orbital propulsion system enhances reliability and capability and reduces life-cycle costs
- EO900 high-definition imager provides simultaneous surveillance area views
- Compact Mark 4 Launcher extends maritime capabilities

KEY FEATURES

Performance

- Endurance: 24+ hours
- Ceiling: 19,500 ft / 5,944 m
- Service ceiling: 15,000 ft / 4,572 m
- Max horizontal speed: 80 knots / 41 m/s
- Cruise speed: 50-60 knots / 25.7-30.9 m/s

System

- Engine: gasoline or heavy fuel (JP-5 or JP-8)
- Power: 60W available for payloads
- Navigation: autonomous GPS
- Launch: pneumatic catapult
- Recovery: SkyHook wing tip capture

Dimensions

- Wingspan: 10.2 ft / 3.11 m
- Length: 5.1-5.6 ft / 1.55-1.71 m

Weights

- Empty structure weight: 30.9-39.68 lb / 14-18 kg
- Max takeoff weight: 48.5 lb / 22 kg

PROGRAM MILESTONES

2015	New Orbital propulsion system achieves first flight
2014	Announced ScanEagle 2, the next generation of the ScanEagle platform
	Announced partnership with Australia-based Orbital Corporation Ltd. In development of next-generation propulsion system
	Delivered 2,000th ScanEagle
2013	Received restricted category type certification for commercial operations from FAA, becoming first unmanned aircraft certified for commercial beyond-line-of-site operations and marking significant milestone in integrating unmanned aircraft systems into national airspace by 2015
2011	Achieved 500,000 combat flight hours, reaching this milestone faster than any small tactical UAS
2010	Accounted for 22 percent of 550,000 UAS hours the Office of the Secretary of Defense estimates fly annually in support U.S. Armed Forces missions

	Selected by U.S. Air Force Academy for cadet training
2009	Contributed to the rescue of Somali pirate hostage Captain Richard Phillips, and performed anti-piracy patrol that resulted in capture of nine suspected pirates
	Received emergency certificate of authority (COA) from FAA to fly in civil airspace, the first entity to do so other than NASA or DoD
	Delivered 1,000th ScanEagle
2008	Boeing awarded \$14 million interim contract by Canada for ScanEagle services
2007	Became first unmanned aircraft to operate from U.S. Navy Destroyer
	Achieved compliance with NATO UAV Interoperability Standard (STANAG 4586)
2006	Logged longest continuous, heavy fuel engine flight to date of 28 hours, 44 minutes, and 4-hour fuel reserve
2005	Boeing received \$14.5 million U.S. Navy contract for UAS services in support of Operation Iraqi Freedom
	Boeing awarded U.S. Navy \$13 million contract modification to support high-speed vessels and floating staging base
2004	SeaScan completed first autonomous flight on a moving ship with perfect launch and recovery
2003	Participated in U.S. Navy's Giant Shadow exercise, using ScanEagle to test how a network of forces working with UAV collect and implement ISR
2002	Partnered with Boeing to begin ScanEagle development
2001	SeaScan prototype developed for commercial fishing industry

CONTACT

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