

A white, vertical-axis, fixed-wing unmanned aircraft system (UAS) is shown against a blue background. The aircraft has a central fuselage with a sensor pod at the top, a horizontal wing, and a four-bladed propeller at the bottom. A fuel tank is visible on the side of the fuselage. The aircraft is positioned vertically, with its wings spread out horizontally.

HELICOPTERS

FLEXROTOR

Expeditionary VTOL UAS for Land
and Maritime Operations

AIRBUS



FLEXROTOR is a highly expeditionary Vertical Takeoff and Landing (VTOL) UAS designed for land- and sea-based operations.

Engineered for a wide range of demanding missions, FLEXROTOR combines advanced intelligence, surveillance, target acquisition and reconnaissance (ISTAR) capabilities with unmatched endurance, making it the go-to solution for both military and commercial applications. Whether you're looking to provide intelligence, secure borders, map fires, or find threats, this agile Group 2 UAS delivers.

Key Features:

Expeditionary:

airborne in under 30 minutes, including fueling and ground control setup

Transportability:

compact, modular design allows for easy transport and rapid deployment on boats, pickups and special operations aerial insertions

Autonomous:

fully autonomous during VTOL (no human-assistance) and wing-borne phases of flight

Typical Endurance:

12-14 hours of continuous flight delivers superior ISR performance, without break in contact

Confined Space:

VTOL operations, requiring Zero Launch and Recovery Equipment (LRE), from confined spaces no larger than 3.7m x 3.7m

Uptime:

take off and landing in wind and gust conditions up to 27 knots invariant to wind direction

Engine Options:

available gasoline and heavy-fuel engine configurations support operational flexibility

Proven Operations:

mission-proven in extreme land and maritime conditions, including high-temperature, high-altitude launch and six hours in a -40°C cold chamber

Upgradeable Architecture:

sizable space, weight, and power enable integration of current and emerging sensor technologies

Payload Versatility:

supports interchangeable EO/IR and radar payloads (up to 8 kg / 18 lb) customizable to mission requirements

ITAR-Free Configuration:

commercial system in standard configuration, supporting streamlined procurement and deployment



Applications

FLEXROTOR's adaptability and performance make it ideal for a variety of mission-critical applications:



ISTAR Land

Flexrotor's advanced ISTAR capabilities provide a tactical advantage for land operations, delivering persistent intelligence to support military missions including special operations, force protection, and battlefield surveillance. High-endurance coverage enhances situational awareness and mission effectiveness in complex and contested environments.



ISTAR Maritime

Flexrotor delivers persistent ISR in support of naval and expeditionary operations, enabling wide-area surveillance, surface tracking, and situational awareness across littoral and open-ocean environments. Its endurance supports continuous mission coverage for fleet protection and tactical reconnaissance.



PAYLOAD CAPABILITIES:

Hood Tech Alticam 06EOIR2

EO/IR imaging for persistent ISR, target detection, and day or night operations across land and maritime environments.

Hood Tech Alticam 09EO3 or 09EOIR3

High-resolution EO and EO/IR imaging for long-range identification and standoff reconnaissance.

IMSAR NSP-3*

Wide-area terrain and surface mapping with surveillance capability in degraded visibility conditions.

Overwatch PT-6 (EO/IR + AI)*

Wide-area EO/IR monitoring with automated detection supporting land and maritime ISR operations.

PERFORMANCE

10 kg / 22 lbs
useful load (payload + fuel)

25 kg / 55 lb
MTOW



12 to 14 hours
typical endurance

78 km/h / 42 kt
minimum cruise speed

2.2 m / 7.2 ft
rotor diameter

2 m / 6.6 ft
length

3 m / 9.8 ft
wingspan



77 kts (140km/h)
dash speed

2.05 m x 0.57 m, x 0.38 m / 50 kg
case



> 5000 m / > 16400 ft
ceiling

15 kg / 33 lbs
empty weight

1300 m / 4300 ft
hover ceiling OGE (at 25 kg & without boost)

28 cc 2 stroke; gasoline or heavy fuel options
engine

30 min (if previously flown from location)
box to flight

3.7 m x 3.7 m (12 ft x 12 ft)
landing zone

inaudible at 900 m
auditory



*Full integration coming soon

Field Proven

With thousands of flight hours under its wings and multiple deployments around the world, FLEXROTOR has been field-proven in the most challenging environments. Its reliable performance and unmatched endurance have made it the preferred choice for mission success. Trust in a UAS that consistently delivers results, mission after mission: FLEXROTOR.



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