EURO HAWK®

High-Altitude Long-Endurance Unmanned Aircraft System for Standoff Wide-Area Surveillance and Reconnaissance 99米0

The EURO HAWK® Concept



After involvement in recent conflicts, the European armed forces' need for unrestricted and immediate access to intelligence, surveillance and reconnaissance information has become even more urgent.

This sensitive, unfiltered and secure information is essential for the political and military decision-makers to manage crises, prevent conflicts, and command forces.

EADS Deutschland GmbH (Cassidian) and Northrop Grumman have developed a system solution tailored to fit these needs.

With the state-of-the-art EURO HAWK® unmanned aircraft system (UAS), the manufacturers combined an already proven platform based on Northrop Grumman's Global Hawk with Cassidian's highly sophisticated payload technology.

EuroHawk GmbH, a joint venture formed by Northrop Grumman and Cassidian, was awarded a contract from the German Ministry of Defence to develop the EURO HAWK® signals intelligence (SIGINT) system. The first EURO HAWK® aircraft was rolled out in October 2009. It successfully flew its first flight in June 2010 and completed its ferry flight to Manching, Germany in July 2011 for mission system integration and testing.

The development of EURO HAWK® has ushered in a new era for unmanned standoff, wide-area surveillance in Europe. With a flight altitude up to 60,000 feet and a total endurance of 30 hours, EURO HAWK® will serve as an innovative high-altitude, long-endurance UAS capability.

EURO HAWK® will provide an interoperable, modular and cost-effective European information superiority solution for future engagements, including support of NATO, UN and EU operations.

The EURO HAWK® Mission Equipment

(Intelligent System Integration)

With its specially defined mission system integration, EURO HAWK® is one example of the flexible, customer-tailored products made by Cassidian and Northrop Grumman. Initially designed to fulfill SIGINT missions, EURO HAWK® can extend its capabilities to include imagery intelligence (IMINT) and other missions.

Integrated SIGINT (ELINT / COMINT)

A surveillance and reconnaissance system for detection, identification, processing and evaluation of electronic intelligence (ELINT) and communications intelligence (COMINT).

Through the EURO HAWK® mission system, Cassidian is leading SIGINT technology with key characteristics:

- Frequency detection over a wide frequency range
- Very high bandwidth
- Man-in-the-loop concept with high degree of automation
- Real-time situation display
- Correlation of ELINT and COMINT results
- Interface for integration in network-enhanced capabilities environments
- Full ground support for sensor mission planning, online sensor control, monitoring and post-evaluation



Wide-area surveillance and reconnaissance with standoff capabilities. Detection and evaluation of radar emitters (ELINT) and communications emitters (COMINT)



EURO HAWK® within the Network-Centric Environment

The modern architecture of warfare demands that EURO HAWK® will be an integrated part of the network-centric environment.

In this environment, EURO HAWK® can play a decisive role by providing real-time, crucial intelligence information. EURO HAWK® enables its user to take the appropriate steps within a short period of time.

This enables optimum strategies in areas of engagement.













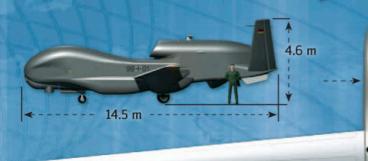
Teaming to Provide the EURO HAWK® System





NORTHROP GRUMMAN

39.9 m



1.45 m width

RQ-4E EURO HAWK® Specifications

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