

# MINOTAUR MISSION SYSTEM



## Acquisition Directorate

This view from the mission system operator workstation shows an airdrop of food supplies for a large vessel in distress, from an HC-130J's Enhanced Optics camera, overlaid with other mission data. The vessel became disabled and notified the Coast Guard that they had diminished food supplies on hand. ▶



## FEATURES

- Commonality of command, control, communications, computers, cyber, intelligence, surveillance and reconnaissance components and capabilities across all new Coast Guard fixed-wing surveillance aircraft
- Real-time tracking and Rescue 21 integration to enhance common operating picture and maritime domain awareness
- Automatic Dependent Surveillance – Broadcast technology to receive traffic and weather broadcasts and information about other aircraft, including identification, position and altitude
- Tactical screen replay to review a target's entire flight in seconds and track the target via its trajectory, even if the target stops broadcasting information or otherwise evades the sensors

For updates on **Minotaur**, visit the program's website at <http://www.dcms.uscg.mil/Our-Organization/Assistant-Commandant-for-Acquisitions-CG-9/Programs/Air-Programs/Minotaur-Mission-System/>

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## PROGRAM DESCRIPTION

The Coast Guard is outfitting its fixed-wing surveillance aircraft with Minotaur mission system architecture. Minotaur incorporates sensors; radar; and command, control, communications, computers, cyber, intelligence, surveillance and reconnaissance equipment and enables aircrews to gather and process surveillance information that can be transmitted to other platforms and units during flight. The system, originally developed by the

Navy, is government-owned and -operated across multiple Defense and Homeland Security department platforms.

The Coast Guard has worked with Naval Air Systems Command to develop Minotaur to meet Coast Guard mission requirements. Prototype installations for all aircraft began at Naval Air Station Patuxent River, Maryland.

## AIRCRAFT STATUS

**HC-130J Super Hercules long range surveillance aircraft:** The first aircraft in the Coast Guard fleet outfitted with Minotaur, CGNR 2003, was delivered to the fleet in June 2017. Since then, Minotaur has been installed on 12 other HC-130Js. Air stations Elizabeth City, North Carolina, and Kodiak, Alaska, have their full complement of HC-130J's equipped with Minotaur, while Air Station Barbers Point, Hawaii, is set to begin transition during the summer of 2021. The Coast Guard oversees the integration of Minotaur on the aircraft at L3Harris ISR Systems in Waco, Texas.

**HC-144 Ocean Sentry medium range surveillance aircraft:** HC-144 Minotaur production is underway at the Aviation Logistics Center in Elizabeth City, North Carolina, and the first Minotaur HC-144, CGNR 2307, was delivered to the fleet in July 2017; it is now located at Air Station Miami as the first Minotaur-equipped aircraft at that unit. Both the Aviation Training Center in Mobile, Alabama, and Air Station Corpus Christi, Texas, have their full complement of HC-144B's equipped with Minotaur. To date, nine HC-144 aircraft have undergone Minotaur integration and received Ocean Sentry Refresh upgrades, which update the aircraft's avionics.

**C-27J Spartan medium range surveillance aircraft:** The service is also basing the C-27J missionization package on the Minotaur mission system. The first Spartan entered the missionization process at Naval Air Station Patuxent River, Maryland, in September 2017; completion on the prototype is anticipated by mid-2021.

Mission execution begins *here*.