

Counter-Unmanned Aerial System (C-UAS) Expeditionary Kit

Highly Mobile C-UAS Coverage for Remote Security Requirements



Ruggedized, Mobile C-UAS Solution

Market Leading C-UAS Technologies and Analytics

Powerful C2 Platform Providing Key Situational Awareness

Fully Modular Design Approach for Maximum Flexibility

Interoperable with Fielded Tactical Network Routing
and Management

Overview

The Counter-Unmanned Aerial System (C-UAS) Expeditionary Kit was developed in response to a mission need to have a mobile and expeditionary C-UAS kit capability. This allows users to rapidly deploy and setup C-UAS detection to assess UAS threats within a mission Area of Responsibility (AOR) in less than an hour with no tools required. The full kit consists of an Operational Node, Hub Node, and Remote Nodes. The Operational and Hub Node provide the core system capability while the Remote Nodes are used to build out the system.

General Dynamics Mission Systems' modular solution, in partnership with Dedrone Defense, leverages transit cases containing DedroneTracker Command and Control (C2) software platform, ruggedized sensor technology, and networking radios to provide the Detect, Track and ID kill chain functions between dispersed system nodes. Its modular design allows the system to be easily tailored to meet a variety of operational needs and mission profiles utilizing different detect modalities, alternate radios, modifying cable lengths and hardware components.

Key Features

- Complete mobile C-UAS networking solution in a modular package
- Ruggedized radio frequency sensors (DedroneSensor RF-300R) (7.2 lbs.)
 - MIL-STD-810G RF classification sensor with direction finding
 - Omni-directional, passive, network-attached radio sensor for detection, classification and direction finding of drones and their remote controls
 - LOS Range is up to 1 km and up to 1.5 km in ideal conditions
- Open systems DedroneTracker C2 software
 - Autonomous operation - no operator in the loop required
 - Combines multiple sensor inputs to provide a correlated C-UAS detection, identification, and tracking solution
 - Provides operator with a high probability of detection for tracking sUAS while reducing false alarms
 - Uses DedroneDNA, a cutting-edge classification engine which recognizes and classifies commercial, consumer and hobbyist drones
- Operates on standard 2590 batteries
- MPU5 Wave Relay Radio
- 10M telescopic mast with tripod base included
- PoE switch & server
- Operational and Hub Node fits in 6 cases (234 lbs.)
- Remote Node fits in 4 cases (183 lbs.)
- Requires no tools for installation

Counter-Unmanned Aerial System (C-UAS) Expeditionary Kit



Hub Node



BA-2590 Batteries



Ruggedized RF-300R Sensor



Operational Node in Case



Winch for 10M Telescopic Mast



Hub Node in Case



MPU-5 Radio & POE Switch

GENERAL DYNAMICS
Mission Systems

US & Canada: 1-877-449-0600 • Global: Your AT&T Country Code + 877-466-9467

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