



The Fortem SkyDome® System

Layered Airspace
Monitoring &
Defeat Solutions



Fortem's SkyDome System is a highly integrated end-to-end modular system designed to provide airspace awareness and Counter-UAS solutions for modern critical infrastructure, airport, public event, prison and national defense needs. The Fortem SkyDome System is a complete end-to-end solution that is made up of one or more stations along with the appropriate deployment package. A station is a set of sensors and/or mitigation products deployed at a given location. A deployment package includes the tools, training and consulting necessary to deploy and configure the system.

We offer **Airspace Monitoring** stations configured using short- or mid- to long-range sensors and **Counter-UAS (C-UAS)** stations that include a combination of airspace monitoring components and C-UAS technology used for tracking and mitigating drone threats. Our station configurations offer:

Modular System Architecture

Modular, scalable station configurations provide short-and mid- to long-range airspace monitoring (and perimeter security) and Counter-UAS solutions in both fixed or portable deployments options.

Small to Large Scale

Scale from short range portable sensors at a single location to mid and long range sensors at multiple simultaneous locations.

Portable or 24x7 Fixed Mitigation

UAV (Group 1 to low-end group 3) mitigation designed for quick setup or 24x7 readiness.

Multi-Layer Detection

Radar-based detection tracks moving objects in a protected area. Supplemental optical, thermal camera system and RF detectors add validation and insights.

End-to-End System or Sub-System

SkyDome Stations can be integrated into an end-to-end system using SkyDome Manager (C2) or can be used as sub-systems to larger system-of system platforms.

For more information email us at sales@fortemtech.com.

Airspace Monitoring Stations

Fortem Technologies' airspace monitoring stations are designed to provide comprehensive airspace monitoring capabilities for intrusion detection and optional ground monitoring for perimeter security needs. The highly reliable TrueView Family of radars and cameras can be enhanced by integrated RF technology options.

Our radar and camera systems detect drones and other targets day or night, in fog, smoke, or snow, if they emit an RF signal or attempt to hide as a way-point-driven RF Dark Drone (non-RF emitting).

The airspace monitoring stations are organized into **Single-Layer (SL)**, **Dual-Layer (DL)**, or a **Multi-Layer (ML)** detection series. This layered approach to threat detection creates scalable situational awareness, available with short- or mid- to long-range sensors (multi-kilometer) in both 180-degree (two radar) and 360-degree (four radar) configurations.



Counter-UAS Stations

Fortem Technologies' Counter-UAS Stations build upon the Airspace Monitoring Station configuration (**SL, DL, or ML Series**) by adding the industry's lowest collateral long-distance mitigation capabilities.

Our mitigation solution uses the DroneHunter®, a long-range drone interceptor. Receiving an initial cue from the ground radar, the DroneHunter is sent to intercept its target. It uses its on-board radar to pursue autonomously and capture the offending threat. Because of the DroneHunter's unique kinetic defeat capabilities, it can mitigate drones that are RF guided as well as those that are shielded from electronic countermeasures. DroneHunter intercepts the target far from the protected area and hauls away the captured UAV. This proven method of capture protects against dangerous payloads from reaching their target and preserves the maximum evidence for future diagnosis.

Additional custom options exist to add electronic jamming to the system to provide kinetic and electronic mitigation methods in an integrated system.





SL Series (Single-Layer Detection): The SL Series stations are built upon our highly reliable TrueView radar and serve as the foundation for detecting drones and other targets in nearly any condition and is designed to perform well in high clutter environments.

DL Series (Dual-Layer Detection): The DL Series stations include the SL Series radar sensors and add integrated day and night time camera systems (optical and optionally thermal) which are radar-cued to targets of interest to collect evidence and allow operators to validate the threat of targets of interest. The mid- to long-range camera system also adds radar-driven zoom and focus as well as optical classification of targets, to further aid threat validation.

ML Series (Multi-Layer Detection): The ML Series stations include the DL Series radar and camera sensors combined with integrated RF detection systems to collect and correlate additional classification and identification of threats. With the added RF detection, an operator can leverage up to three factor object classification to achieve high confidence in their threat assessment and to more rapidly implement response procedures and mitigation.

Depending on the integrated RF package, this can also include pilot location (Geo-location or line of bearing), category, make or model of the drone, home location and other identifying information.

Table 1. Fortem SkyDome Station Configurations, available in 180-degree and 360-degree configurations.

	Airspace Monitoring Stations		Counter UAS-Stations	
	Short-range	Mid- to Long-range	Portable	Fixed
SL Series Radar Foundation				
DL Series Adds Camera System				
ML Series Adds RF Systems	Built on the DL Series configuration with an RF detection system for additional identification and classification capabilities.			



Airspace Monitoring and C-UAS Deployment Options

We offer our customers portable and fixed station deployment options for both the airspace monitoring and C-UAS station configurations.

The **portable deployment model** includes:

- A tripod-based Airspace Monitoring Station (SL, DL, or ML Series).
- The DroneHunter with a hardened carrying case (two-man carry).
- The Edge Fusion System (EFS) for edge computing, communications, and power distribution, providing a single source for command and control (C2).

The **fixed deployment model** includes:

- A permanent installation of one of the Airspace Monitoring Station options (SL, DL, or ML Series)
- The DroneHunter with a hardened carrying case.
- The DroneHangar™, a climate-controlled, sealed exterior protecting the DroneHunter from harsh outdoor conditions while also keeping the DroneHunter batteries charged for 24x7 readiness.
- The Edge Fusion System (EFS) for edge computing, communications, and power distribution, providing a single source for command and control (C2).

Deployment Package Options

Both our **Airspace Monitoring** and **Counter-UAS** stations are paired with an associated deployment package* that provides the necessary tools and training to help aid in the successful implementation of SkyDome System.

**Only one deployment package is needed per integrated SkyDome System.*

		Airspace Monitoring	Counter-UAS
Deployment Consultation	Experts review the requested implementation objectives and then gather the details necessary to provide a formal deployment recommendation.	●	●
Solution Training	Multi-day training on system set-up and operation of the detection system.	● 3-day	● 7-day
Fortem Hardened Laptop	Configured to allow in-field use of SkyDome Manager command and control operations.	●	●
Calibration Device	Used to calibrate radar and camera systems for precise GPS location and heading accuracy.	●	●
SkyDome Deployment Toolkit	Tools used for deployment and take-down of Fortem SkyDome Station and/or System.	●	●
C-UAS Operational Support Kit	An operational and maintenance kit which includes spare nets, batteries, replacement propellers, landing gear and other items.		●