FORTEM TECHNOLOGIES

unival group — Security made in Germany

SkyDome®

Airspace Awareness, Safety and Security Platform

Elevating Existing Security Above and Beyond Fencelines

- Simple setup of geofences, zones, corridors and rules engine
- Detects, classifies and tracks drones, vehicles, planes, birds and people at metro-scale
- AI driven ThreatAware™ threat assessment engine
- Measure intention and pattern of life
- Initiate an integrated response
- Recover and report
- SkyDome leverages a network of Fortem TrueView® radar to cover any terrain
- Fortem DroneHunter®, an optional component of SkyDome, is an autonomous drone designed to quickly detect, classify, and provide physical removal of rogue drones
- Digitize the airspace for rich data collection, enabling analysis and business intelligence

Why SkyDome?

Drones provide us many benefits, but they can also be a threat to manned aircraft, borders, commercial buildings, stadiums, prisons, data centers, power plants and other outdoor venues. SkyDome is an AI-enabled airspace awareness, safety and security platform that detects, classifies and determines the intention of drones at configured checkpoints in the sky and provides an integrated response as necessary. One optional response is the DroneHunter.

SkyDome is a proven solution, able to monitor and protect an airspace day or night and in all weather conditions. SkyDome consists of a network mesh of integrated TrueView sensors, providing total airspace awareness at metro-scale. Utilizing AI-enabled analytics, SkyDome digitizes your airspace and measures intention and pattern of life allowing rapid decision making. SkyDome can cue optics, IR, and RF sensors. SkyDome has a robust, automated rules engine for integrated response, recovery and reporting for safe and secure operations.

Key Components of SkyDome Include

TrueView Radar

TrueView radar technology detects and calculates the location and trajectory of hundreds of airborne objects quickly and accurately. Radars are distributed providing redundant coverage of the entire airspace. These radars are fix-mounted to tripods, vehicles, buildings, towers or airborne drones to provide optimal coverage in topology-challenged areas, unlike traditional long range radar. TrueView includes AI-enabled detection and classification services. TrueView radar is safe, efficient, compact and requires less power than an LED light.

DroneHunter

DroneHunter is an autonomous drone created for the surveillance and physical interception of airborne intruders. Multiple DroneHunters can be deployed to simultaneously operate in the same area.

Many drones fly autonomously on GPS waypoints or via terrain mapping, leaving no signal for traditional RF mitigation solutions to "hear" or "jam". These are known as "Dark Drones". DroneHunter is capable of intercepting these "Dark Drones" because of its advanced radar detection technology coupled with proprietary AI. DroneHunter provides autonomous perimeter protection, and is designed to lock onto, pursue and capture rogue drones. When an aerial intruder is discovered, SkyDome provides threat levels, drone classification, and an integrated response that can include DroneHunter. Once deployed, the DroneHunter will observe and safely intercept the threat day or night.

System Management and Configuration

SkyDome features an easy-to-use interface to setup rules for zones and corridors. Configuration of multi-integrated recover and reporting activities is simple to implement. The system is powerful enough to monitor your airspace from anywhere in the world in real-time. SkyDome can be configured and scales to protect any zone, corridor, building, event, border, customer infrastructure or even an entire metro region. Fortem's software platform provides real-time awareness, notifications, alerts, and classification while also collecting data for forensic and analytical purposes.

Summary

Fortem SkyDome is a system of TrueView radars integrated real-time into a network mesh of total airspace awareness at metro-scale. AI enabled analytics of the digitized airspace measures intention and pattern of life for rapid decision making. SkyDome includes an automated rules engine for integrated response, recovery and reporting for safe and secure ops. DroneHunter is an optional component designed to quickly detect, classify and physically remove rogue drones within the airspace.

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