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TECHNOLOGIES

Fortem DroneHunter™

Rogue Drone Pursuit and Capture System

DroneHunter is the world's fastest, most effective, fully autonomous drone defense solution. It is equipped with onboard Fortem TrueView™ radar, an inertial guidance system, a command and control platform, and a sophisticated AI pursue and multi-vector targeting system. DroneHunter will lock onto, pursue, intimidate, film, capture, tether and safely carry the offending drone to a designated area.

DroneHunter is an optional part of the Fortem SkyDome™ platform that provides total airspace awareness, safety and security around buildings, a campus or metro-area. SkyDome can be configured to autonomously cue DroneHunters. It also provides manual intervention override options for DroneHunter as needed to meet situational requirements. The DroneHunter system can be adapted to function on any drone platform.

Why DroneHunter?

- Effective day or night, in all weather and ground conditions including smoke, clouds, rain, snow and fog
- Tracks, pursues, videos, and captures intruding drones, including waypoint-directed, non-RF-emitting intruder drones, known as "Dark Drones"
- Fully autonomous pursue and defeat operation with optional operator intervention and override
- Stops threats at a safe distance from the protected location and delivers rogue drones to a
- secured area
- Outflies and outmaneuvers a wide range of drones
- Extends optics, IR and radar reach
- Force multiplier
- Keep personnel safe while providing situational awareness in dangerous areas
- Customizable payload platform
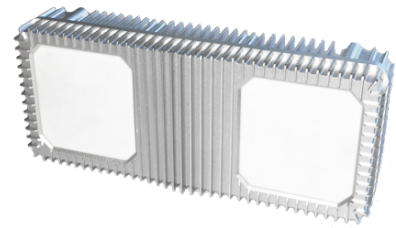
Components of the DroneHunter System

Drone Platforms

High-strength airframe with responsive motors and propellers

Brushless high torque motors

Weather hardened construction

Fortem autonomous flight computer

Flight time: configurable

Mission range: configurable

Communications lik options range: 5km (3mi) or configurable to greater distances

Temperature: -10°C to 55°C (14°F to 131°F)

Non-COTS, DoD Compliant

Payload: varies by drone platform

Capture speed: varies by drone platform

Fortem TrueView Radar: Detects and Tracks in All Conditions

Long distance detection for small drones

±2° azimuth and elevation accuracy

Integrated INS/GPS for high accuracy

Scan and patrol airspace autonomously for rogue drones

Day and night operation

Fortem Netgun™ and Other Effectors

Safely captures intruder drones with no collateral damage

Computer-optimized autonomous net launch timing

Extremely high capture rate with auto-reacquire/capture

Computer-optimized capture range

Tether target tow-away and non-tether net options

Optional electronic tether release for secondary target acquire

Nets shoot at 40m/s (80mph)

Multiple net sizes and mitigation techniques

Netheads that can be reloaded in seconds

AI algorithms adjust for wind

Custom Effectors Available

SkyDome Sends Position Cues to DroneHunter and Other Sensors

Detects intruders miles from protected area

Can provide up to networked radar hemisphere of coverage in any terrain and for configurable distances

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