

Fortem DroneHunter™

Perimeter Intrusion Protection Solution



MODERN AIR DEFENSE

Safe drone mitigation
in all environments

- Effective day and night, and in all ground and weather conditions including smoke, clouds, and fog
- Stops threats at a safe distance from the protected location
- Effective against GPS and inertial guidance directed intruders
- Full autonomy with optional human approval and override capability

Fortem DroneHunter™ is a fully autonomous UAS air defense solution. Equipped with TrueView radar, DroneHunter™ includes an inertial guidance system, and an open command and control platform to detect, monitor and autonomously defend against hostile drones. DroneHunter™ detects, classifies, and captures intruder drones at a safe distance from a designated geo-fenced area.

DroneHunter™ is the world's first UAS perimeter intrusion detection and protection solution. DroneHunter uses AI-enabled algorithms and software to provide detection, monitoring and autonomous capture of rogue drones and UAS. Once captured, DroneHunter can be instructed to tether and return or to safely discard the captured drone at a safe zone or bomb-disposal container.

DroneHunter™ notifies all authorized personnel of potential aerial threats in real-time. The command ground station provides monitoring and manual intervention override options as needed to meet situational requirements.

Components of the DroneHunter™ System

Fortem TrueView Radar

Detect, Classify, and Monitor

- Radar seeker for tracking target
- 500 meter range for detecting sUAS
- Azimuth and Elevation accuracy $\pm 2^\circ$
- $120^\circ \times 40^\circ$ FOV
- Integrated INS
 - Heading accuracy 0.5°
 - Update rate 500 Hz
- Ethernet and serial ports
- Health check LEDs



UAV

- Unmanned aircraft with onboard autopilot and navigation system, and optional 4K camera
- Multiple platforms available ranging in speed and endurance
- Small UAV platform weighs only 16 lbs. and is compact for easy transportation
- Various tow levels available depending on UAV platform capabilities
- Wireless link to ground station
 - Radar tracks
 - Video feed

Fortem Airborne Net Gun

Safely Captures Drone With No Collateral Damage

- High-powered net launcher at 80 mph
- Able to effectively hit a target up to 25 ft. away
- Net has 8 ft. radius for easy capture
- Delivers captures drone by tether or parachute
- Multi-shot net gun with optional human intervention and override



Fortem Ground Station

Command and Control Center

- Offers remote situational awareness of multiple threats in the air
- Enables optional operator intervention
- Integrated with ground-based radarm airborne radar, and other sensors with first person view from onboard selected DroneHunter™



Integrates with

Fortem Long-Range Radar

Various Ground-Based Radar Options

- Stationary or mobile
- Detects objects miles from protected area
- 360° hemisphere coverage / Elevation 120°
- Onboard communication link to ground station to cue DroneHunter™