DroneWatcher™

200 C-UAS System

DeTect’s radar processing technology developed specifically for detection and tracking of small, low radar–cross section, non-linearly moving, low altitude targets in high clutter environments make it one of the most sensitive, affordable Counter Unmanned Aerial System (C-UAS) technologies on the market.

DroneWatcher™ provides full surveillance coverage from ground level with UAS detection ranges out to 10+ miles

Model: DSR-200d

Application:
C–UAS cooperative and non–cooperative drone and small unmanned aerial vehicle/system (UAV/UAS) detection, tracking, identification and intrusion alerting for military installations, airports, power plants, industrial facilities, stadiums, public events and other sites that require airspace intrusion control for security and public safety.

Configuration:
Fully self–contained mobile, portable and fixed systems with DeTect's Intelligent Radar™ technology and full system remote control and information display Sensors: solid state S– or X–band Doppler open array radar sensors with optional integrated, radar–directed EOIR (Electro–optic, Infrared) and RF (radio–frequency) scanner

Options:
Integrates and controls DeTect proprietary and third party UAS interdiction and cyber systems

Architecture:
open software SQL for real–time target analysis, data storage and queries and using AMRDEC MAFIA Tactical Counter–UAS Technologies (TCUT), XML, BC3 and US Army Composite Tracker and Classifier Sensor Report messages (CTC)

Configuration Options:
fully self–contained and self supporting standard and custom mobile tactical, trailered and fixed designs with optional hardened design.

Operating Characteristics:
360–degree coverage with range dependent drone/UAS TOI detection:
• Large (Global Hawk class) to 10 nm (18 km)
• Medium (Raven class) to 6 nm (11 km)
• Micro UAVs (DJI Phantom class) to 2 nm (4 km)
Includes user programmable alert perimeters and zones and automatic target type classification (requires calibration)

Power:
110/220 VAC, 60/30 amps service with UPS back-up & power conditioning (30 minutes) and optional auto–start single or dual 4 kW diesel generator and double–walled fuel tank to support 10–20 days 24–7 operation

Comms & Interfaces:
web–based remote real–time system display, control & data access via fiber optic, wireless or cellular; SQL architecture for data storage and exchange supporting TCP/IP, AMRDEC MAFIA Tactical Counter–UAS Technologies (TCUT), XML and US Army Composite Tracker and Classifier Sensor Report messages (CTC).

Available in a variety of fixed and mobile configurations.