SHORT-RANGE 360˚ 2D RADAR SYSTEM

OWL GroundAware GA1360 2D digital multibeamforming radar system combines advanced digital beamforming radar technology, classification intelligence, reconfigurability, and easy integration with other security systems (such as video management and access control systems) to bring 360˚ of real-time, all-weather situational awareness for the physical security of perimeters and other sensitive areas of critical sites.

As the foundation for event-based layered security, GA1360 enables automated detection, tracking, deterrence, and response to intrusions within a 1 km radius of critical sites – that’s up to 750 acres or 300 hectares covered by a single radar.

TECH SPECS

Architecture: Simultaneous multiple beams
Processing Type: Pulsed Doppler
Frequency Band: S (3.0 to 3.3 GHz)
Range Resolution: 5 or 10 m (adjustable)
Selectable Frequency Bands: 6 calibrated
Instrumented Range: 1.25 km
Detection Ranges*
Large Aircraft: 1 km
Vehicle: 1 km
Walker: 500 m
Azimuth FOV: 360˚
Elevation FOV: 40˚
Software Defined Update Rate: 1 Hz - 5 Hz
Minimum Detectable Velocity: 0.25-1 mph
Weight: 30 lbs
13.6 kg
Dimensions: 45.7cm x 45.7cm x 40.6cm
18” x 18” x 16”
Power Draw: 35W
Operating Temperature: −20°C to +60°C
−4°F to +140°F
Component Temperature: −40°C to +85°C
−40°F to +185°F
Heating/Cooling: Passive

* Achieving maximum detection ranges requires sufficient mounting height and line of sight, especially for ground targets.
FEATURES

- Digital beamforming radar technology for highly reliable all-weather detection and tracking of all target types
- Seamless integration with cameras, VMS, success control, audible alarms, security lights, drones, and more
- Target classification to distinguish among humans, animals, vehicles, aircraft, and drones for alarming on targets of concern, avoiding nuisances
- Customizable alarm zones with automatic response triggers
- Wide-area coverage minimizes infrastructure costs
- Solid State system with no moving parts
- Backed by full warranty

APPLICATIONS

GA1360 is the ideal solution for smaller critical sites or larger sites where focused surveillance is required. Real-world applications include:

- Electric utility transmission substations
- Water reservoirs and treatment plants
- Natural gas transport, storage, and distribution
- Wind and solar sites
- Oil and gas sites
- Logistics facilities
- Manufacturing facilities
- Airports, seaports, and rail facilities
- Correctional facilities
- Campuses – corporate, hospital, financial, education

GA1360 can be mounted on towers, poles, buildings, and mobile platforms.