MID-RANGE 360˚ 3D RADAR SYSTEM

OWL GroundAware GA3360 3D digital multibeamforming radar system is the ideal solution for drone detection and counter UAS applications, as well as mid-range ground solutions. The GA3360 combines advanced digital beamforming radar technology, classification intelligence, reconfigurability, and easy integration with other security systems to bring 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, GA3360 enables automated detection, tracking, deterrence, and response to intrusions, including drones, within 3 km and 360˚ field of view of critical sites. GA3360 is a fully hemispheric system, enabling ground and air surveillance simultaneously.

**TECH SPECS**

- **Architecture:** Simultaneous multiple beams
- **Processing Type:** Pulsed Doppler
- **Frequency Band:** S (3.0 to 3.3 GHz)
- **Range Resolution:** 10 or 20 m (adjustable)
- **Selectable Frequency Bands:** 6 calibrated
- **Instrumented Range:** 5 km
- **Detection Ranges**:
  - Large Aircraft: 3 km
  - Vehicle: 3 km
  - Walker: 2 km
  - Drone (DJI Phantom IV): 1.5 km
- **Azimuth FOV:** 360˚
- **Elevation FOV:** 100˚
- **Software Defined Update Rate:** 1-5 Hz
- **Minimum Detectable Velocity:** 0.25 - 1 mph
- **Weight:** 22.7 kg
  - 50 lbs.
- **Dimensions:** 57.2 cm x 57.2 cm x 54.1 cm
  - 22.5” x 22.5” x 21.3”
- **Power Draw:** 50W
- **Operating Temperature:** -20°C to +50°C
  - -4°F to +122°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
• Target classification to distinguish among humans, animals, vehicles, aircraft, and drones for alarming on targets of concern, avoiding nuisances
• 3D antenna to measure elevations of targets for effective detection and classification of Group 1 and larger drones
• Seamless integration with cameras, VMS, success control, audible alarms, security lights, drones, command-and-control systems, and kinetic and electronic counter-measure systems
• 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

GA3360 is the ideal solution for simultaneous drone detection/counter-UAS and ground/perimeter surveillance of mid-sized critical sites or areas of larger sites. Real-world applications include:

• Logistics facilities
• Correctional facilities
• Airports
• Oil and gas sites
• Natural gas transport, storage, and distribution sites
• Renewable energy sites
• Electric utility transmission substations
• Water reservoirs and treatment plants
• Campuses

GA3360 can be mounted on the top of poles, buildings, or mobile platforms.