MID-RANGE 120˚ - 360˚ 2D RADAR SYSTEM

OWL GroundAware GA4120

2D digital multibeamforming radar system 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, GA4120 enables automated detection, tracking, deterrence, and response to intrusions within 4 km and 120˚ field of view (per panel) of critical sites – up to 2,000 acres with 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:**
- Detection Ranges*
  - Large Aircraft: 5 km
  - Vehicle: 4 km
  - Walker: 3 km

**Azimuth FOV:** 120˚

**Elevation FOV:** 25˚

**Software Defined Update Rate:** 1-5 Hz

**Minimum Detectable Velocity:** 0.25 - 1 mph

**Weight:** 25.4 kg

**Dimensions:** 76.2 cm x 43.2 cm x 17.2 cm
30” x 17” x 7”

**Power Draw:** 75W

**Operating Temperature:**
- Component: –40°C to +85°C
- Temperature: –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, and vehicles 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

GA4120 is the ideal solution for mid-sized critical sites or areas of larger sites where focused surveillance is required. Real-world applications include:

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

GA4120 can be mounted on the side of poles, buildings, or mobile platforms.