



## TECH SPECS

<b>Architecture:</b>	Simultaneous multiple beams
<b>Processing Type:</b>	Pulsed Doppler
<b>Frequency Band:</b>	S (3.0 to 3.3 GHz)
<b>Range Resolution:</b>	5 or 10 m (adjustable)
<b>Selectable Frequency Bands:</b>	6 calibrated
<b>Instrumented Range:</b>	5 km
	<b>Detection Ranges*</b>
	Large Aircraft: 5 km
	Vehicle: 4 km
	Walker: 3 km
<b>Azimuth FOV:</b>	120°
<b>Elevation FOV:</b>	25°
<b>Software Defined Update Rate:</b>	1-5 Hz
<b>Minimum Detectable Velocity:</b>	0.25 - 1 mph
<b>Weight:</b>	25.4 kg 56 lbs.
<b>Dimensions:</b>	76.2 cm x 43.2 cm x 17.2 cm 30" x 17" x 7"
<b>Power Draw:</b>	75W
<b>Operating Temperature:</b>	-20°C to +60°C -4°F to +140°F
<b>Component Temperature:</b>	-40°C to +85°C -40°F to +185°F
<b>Heating/Cooling:</b>	Passive

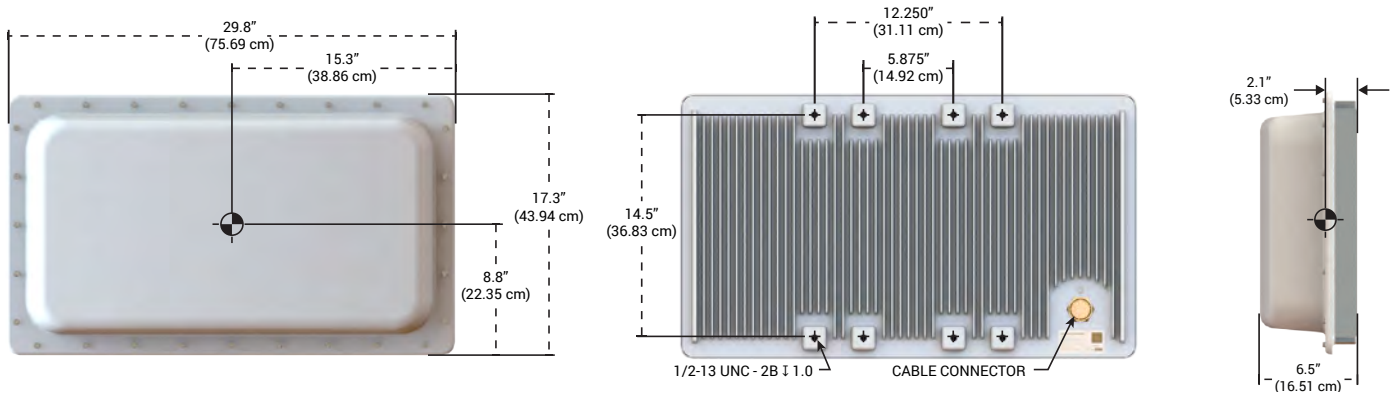
\* Achieving maximum detection ranges requires sufficient mounting height and line of sight, especially for ground targets.

# GROUND AWARE® GA4120

## 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.



## 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.

**Observation Without Limits (OWL)**, a Dynetics business, leverages more than 45 years of radar expertise to develop, manufacture, and support the OWL GroundAware family of 2D and 3D digital beamforming radar solutions. Critical infrastructure and government sectors around the world use OWL solutions for ground, water surface, and low-altitude airspace surveillance as the foundation for their event-based layered security plans.

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