



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:	15 km
	Detection Ranges*
	Large Aircraft: 15km
	Vehicle: 13 km
	Walker: 8 km
	Drone (DJI Phantom IV): 5 km
Azimuth FOV:	120°
Elevation FOV:	12.5°
Software Defined Update Rate:	1-5 Hz
Minimum Detectable Velocity:	0.25 - 1 mph
Weight:	90 lbs 40.8 kg
Dimensions:	91.4 cm x 53.3 cm x 22.9 cm 36" x 21" x 9"
Power Draw:	200W
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

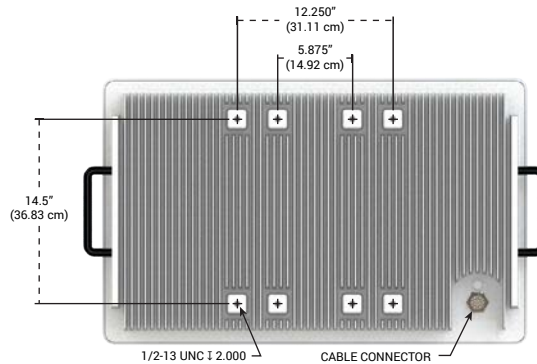
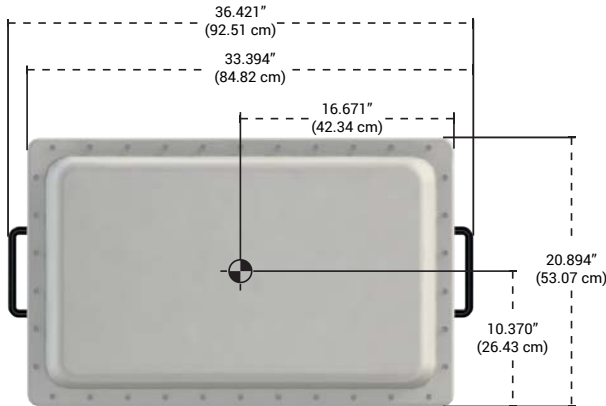
* Achieving maximum detection ranges requires sufficient mounting height and line of sight, especially for ground targets.

GROUND AWARE® GA9120

LONG-RANGE 120° - 360° 3D RADAR SYSTEM

OWL GroundAware GA9120 3D digital multibeamforming radar system is the ideal solution for long-range drone detection and counter-UAS applications, as well as long-range ground surveillance. The GA9120 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, GA9120 enables automated detection, tracking, deterrence, and response to intrusions within 15 km and 120° field of view (per panel) of critical sites.



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

GA9120 is the ideal counter-UAS and long-range ground/water surface surveillance solution for these and other real-world applications include:

- Mission-critical government facilities
- Military bases and airfields
- Border areas
- Correctional facilities
- Airports
- Seaports
- Large manufacturing plants
- Large petrochemical facilities
- Natural gas transport, storage, and distribution sites
- Renewable energy sites
- Electric utility transmission substations
- Water reservoirs and treatment plants
- Campuses

GA9120 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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