OWL

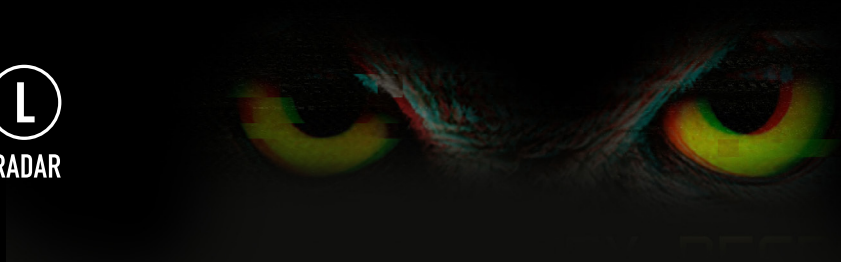
LONG-RANGE EARLY WARNING

2D & 3D DIGITAL RADAR

PERIMETER INTRUSION
DRONE/AIRCRAFT/BIRD DETECTION
BVLOS/DAA/DFR OPERATIONS

O W L

2D & 3D DIGITAL RADAR



AWARENESS. READINESS. RESILIENCE.

Observation Without Limits isn't just a name, it's our mission to enhance the security, safety, efficiency, and business resilience of our customers. We take this role seriously as we work with end users, system integrators, integrated solution providers, and consultants in a range of critical infrastructure and government sectors.

We are best known for our GroundAware® 2D and 3D digital radar solutions used to protect perimeters and other areas of concern on and around land and water surfaces, as well as in low-altitude airspace. Of course, we also offer the specialized integration, installation, training, and support services needed for successful deployment of O.W.L. systems.

Now in place at 400 locations worldwide, GroundAware radars provide the long-range, all-weather situational awareness needed to detect, track, classify, deter, and respond to physical security threats—humans, ground and water vehicles, aircraft, drones, and animals—as quickly and efficiently as possible. O.W.L. systems deliver these capabilities with minimal human involvement and overall reduced costs from systems that surveil more area with less investment in sensors and infrastructure.

Of course, integrated, layered security environments are where users and integrators operate. When integrated with third-party systems, including ONVIF cameras, VMS systems, access control systems, counter-drone C2 systems, alarms, and lights, O.W.L. radars serve as the users' long-range layer of situational awareness and real-time trigger of integrated capabilities.

What's the result? O.W.L. systems provide the longest lead times for assessing, deterring, and responding to threats.

After all, security isn't about detection. It's about protection.

2,000
ACRES COVERED WITH 1 RADAR

500
RADARS DEPLOYED

50+
YEARS EXPERTISE AND EXPERIENCE

20+
INTEGRATION PARTNERS

Half-Century Legacy of Expertise and Experience

O.W.L.'s roots go back to 1974 when a group of entrepreneurial engineers established Dynetics, our parent company, as a "radar house" to which government agencies and contractors turned to technical expertise on radar, other sensors, and systems integration.

Dynetics (which became a Leidos company in 2020) has evolved its business over the decades into weapons, aviation, space, cyber, and other areas in which the company and its 3,000 staff members deliver an array of complex systems and services. Yet, radar remains a core capability in which Dynetics—and by extension O.W.L.—continues to innovate and excel for both military and civilian applications.

Dynetics introduced the GroundAware® radar technology for commercial/civilian markets in 2012. Only five years later, Dynetics established O.W.L. as a separate business to take GroundAware® radar technology to critical infrastructure and government markets around the globe.

Still part of the Dynetics family, O.W.L. is unique among security technology manufacturers thanks to our engineering, manufacturing, integration, installation, and support capabilities, plus a half-century's experience working with complex customers and user requirements.

The Dynetics/O.W.L. 75-acre R&D and manufacturing campus in Huntsville, Alabama USA.

Industries Served

- Wind and solar sites
- Electrical transmission substations
- Water reservoirs
- Oil and gas sites
- Treatment plants
- Natural gas facilities

Digital radar for large-area, real-time surveillance

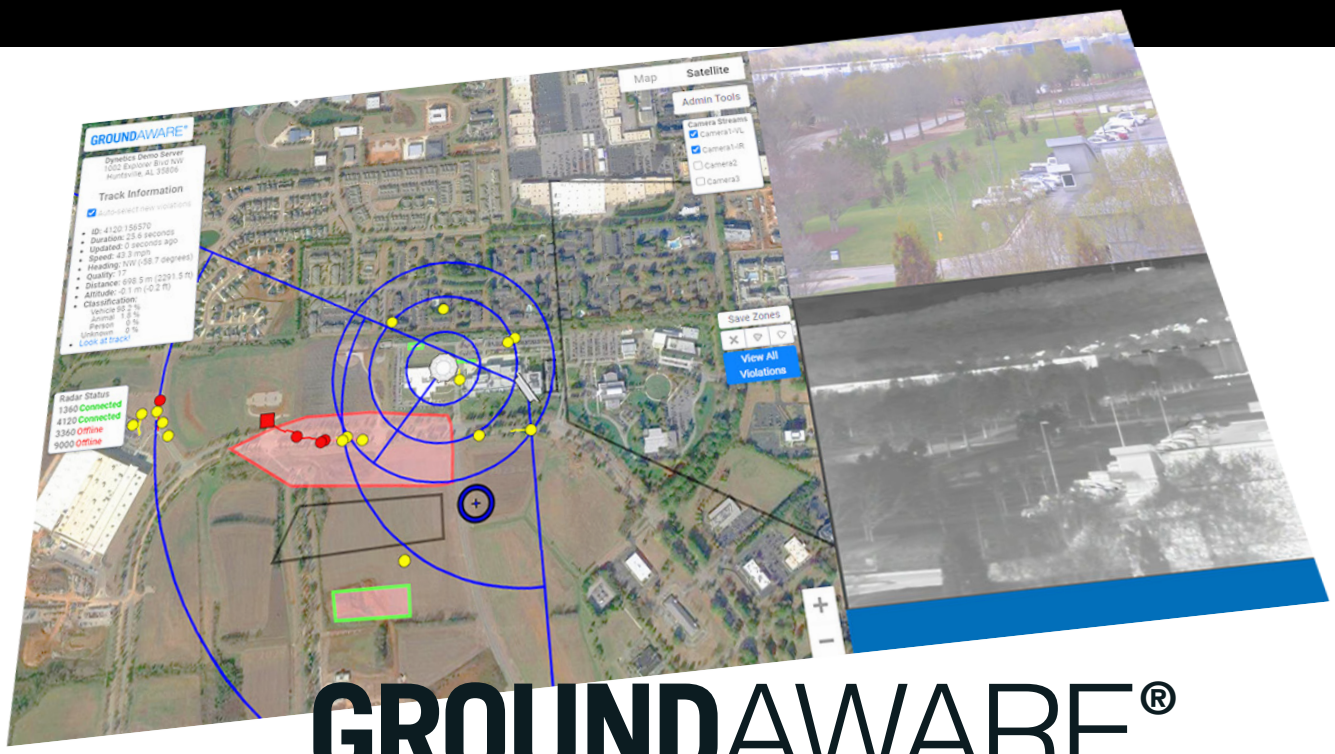
Automated 24/7 monitoring in all weather conditions

Real-time data when, where, & how needed

Easy integration with range of security systems

Target classification for focus on real threats

Lowest total cost for coverage of critical sites (<$60/acre)



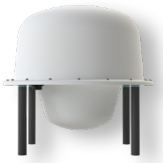
GROUNDAWARE®

2D & 3D DIGITAL RADARS

Today's critical infrastructure and government organizations are evolving their physical security operations from continuous human monitoring to a more automated, event-based approach that leverages all layers of security. At O.W.L., we're dedicated to helping customers implement this new approach with our GroundAware® family of 2D and 3D digital radar systems that provide real-time situational awareness and longest lead-time responsiveness versus threats on ground and in low-altitude airspace.

2D RADAR SYSTEMS

FOR GROUND/WATER SURFACE APPLICATIONS



GA1360LH 2D

Instrumented range: 1 km
Vehicle/human: 1 km / .5 km
Field of view: 360˚

GA4000 2D

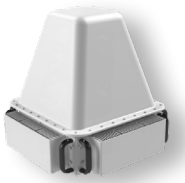
Instrumented range: 5 km
Vehicle/human: >4 km / 3 km
Field of view: 120˚/panel (240˚ & 360˚ options)

3D RADAR SYSTEMS

FOR DRONE AWARENESS, COUNTER-UAS, BVLOS, DAA, BIRD, AND DUAL GROUND/AIR APPLICATIONS

GA3360 3D

Instrumented range: 5 km
Vehicle/human/drone: >3 km / >2 km / >1.5 km
Field of view: 360°



GA7360LR 3D

Instrumented range: 8 km
Cessna & vehicle/human/drone: 7 km / 3 km / 2.25 km
Field of view: 360°

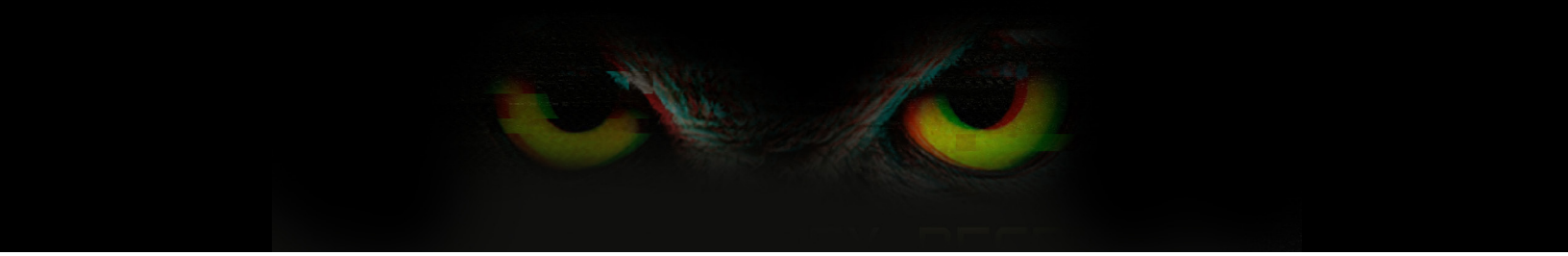
GA9000 3D

Instrumented range: 15 km
Vehicle/human/drone: >13 km / >8 km / >6 km
Field of view: 120˚/panel (240˚ & 360˚ options)

OWL ATHENA-MDR DRONE VERIFICATION RADAR

In real time and at long ranges, O.W.L.'s Athena-MDR Drone Verification Radar detects and collects data on suspected drones when cued and slewed by O.W.L.'s long-range 3D radars, then provides real-time tracking and classification of drones, maintaining tracks on drones in hover mode, and otherwise supporting drone security operations.

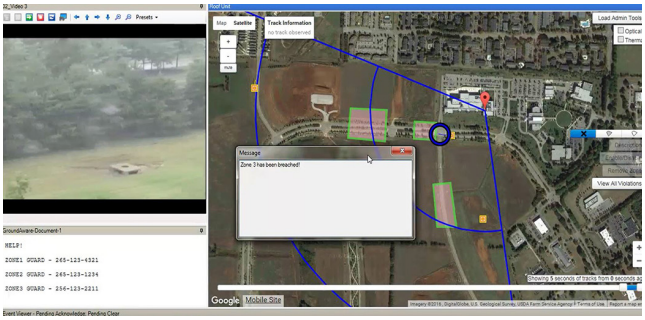
- Logistics facilities
- Manufacturing plants
- Airports and seaports
- Correctional facilities
- School campuses
- Corporate Campuses



WHY CHOOSE O.W.L.?

EASY TO MONITOR

- Respond in **real time** to real security events – no more manual monitoring required!
- Eliminate false alarms, reduce nuisances by alarming only on targets of actual concern
- **Easy-to-use** web interface
- Point-and-click map-based alert zones



EASY TO DETER & RESPOND

- Long-range/wide-area **surveillance layer**, providing longest lead times for awareness, deterrence, and response to threats
- Slew-to-cue **video tracking** & verification
- **Automated deterrence** using lights, sirens, and two-way voice communication
- Multiple options for mid- to long-range **drone detection**

EASY TO INSTALL & INTEGRATE

- Installs like cameras, with only **standard power** and network requirements
- Open architecture **simplifies** integration with other systems
- **ONVIF cameras**, VMS, access control, PSIM, and other systems
- Optimized for drone awareness, counter-UAS, BVLOS, DAA, bird, and dual ground/air applications

EASY TO INVEST IN

- Overall surveillance costs **reduced** with fewer sensors and less infrastructure thanks to our radars' long-range/wide-area coverage
- No ongoing licensing or fees required
- **FCC-certified** and **fully warranted**
- Sold directly and through integrators, per customer preferences

To see demo or try out GroundAware at your site:

+1 (256) 268-5239 • www.owlknows.com • sales@owlknows.com

O W L

2D & 3D DIGITAL RADAR

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