



# 2D & 3D DIGITAL RADAR SOLUTIONS FOR PRISONS

## APPLICATIONS:

### 1. Contraband Detection, Tracking, and Response

With long-range detection and tracking, prisons know about potential contraband activities long before drones, humans, or vehicles get close to perimeters. Not only does GroundAware provide awareness of these intruders in real time, but the time for responding to them is increased exponentially – without the need for more involvement by prison staff.

### 2. Sensitive Area Detection, Tracking, and Notification

With GroundAware, prison staff can create alarm zones to detect and deter against threats in the form of humans, animals, vehicles, and aircraft up to 15 kilometers away. These configurable zones may be updated as often as needed, allowing flexibility as areas change. These zones may be designed to detect a range of movement in a particular direction, time, or speed to meet the needs of each sensitive area.

### 3. Incident Management

GroundAware provides monitoring, tracking, and response for other events such as inmate escapes. When escapees enter an “alarm zone,” officers are alerted before the situation escalates or time has elapsed. These zones can be configured inside prison perimeter fences, as well as outside, with alarms and alerts configured to respond accordingly to each type of event.

## REAL-TIME SURVEILLANCE FOR AUTOMATED MONITORING OF GROUND AND AIR INTRUDERS THAT THREATEN PRISON PERIMETERS

GroundAware® 2D and 3D Digital Radar Systems make it easy for correctional facilities to automate monitoring, deterrence, and response to perimeter intrusions, whether on the ground or in the air, as they occur across wide areas or in focused zones.

GroundAware gives corrections facility staff the comprehensive, actionable information to know when, where, and how people, vehicles, or drones threaten prison sites. Then, in real time, GroundAware instantaneously triggers alarms, notifications, and other response and deterrence actions versus those threats. And with built-in classification intelligence, GroundAware will focus only on areas and threats of actual concern.

This is true event-based layered security, thanks to GroundAware and its integration with other systems and assets, such as cameras, video management systems, and access control systems.

While technology cannot solve all problems, GroundAware’s radar-based surveillance capabilities provide new levels of visibility, longer lead times for reaction to intrusions (including drones), and significant cost savings versus more manual approaches.



Shown is a US-based correctional facility, covering 1,600 acres and with 2,100-inmate capacity. To left is an illustration of how one GroundAware radar system provides automated detection of humans at .31 mile and vehicles at .67 mile – that's more than 300 acres covered with one sensor. 3D radar options are available to provide coverage of drones, beginning at nearly 1 mile.

## FEATURES

GroundAware product line provides a range of coverage options to meet diverse security needs for critical sites of all types and sizes.

The GroundAware product line offers:

- Digital radar for real-time, wide-area detection, tracking, and alarming in all-weather/lighting conditions
- Coverage ranges from .62 to 9.3 miles with single sensor for longer response times to threats
- Live monitoring without humans in the loop until events occur requiring human involvement
- 3D tracking of ground and drone threats simultaneously
- Intelligence to distinguish among humans, animals, vehicles, and drones for alarming only on actual targets of interest
- User-defined “alarm zones” to focus real-time monitoring and response on specific areas and threats
- Intuitive, easy-to-use Google® Maps-based web interface
- Automatic logging of alarm data for after-action review and analysis
- Easy integration with other security assets to provide automatic triggering of other security assets that benefit from long-range notification of threats (for example, automatic slewing of cameras to targets)
- Minimal investment in infrastructure required (GroundAware easily mounts on existing structures, requires only 120V power, and works on existing network)

**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.

[www.owlknows.com](http://www.owlknows.com) | 888-297-9559 | +1 (256) 713-5021

