Powering Event-Based Layered Security
Looking for next-generation situational awareness to protect your critical sites? GroundAware® Surveillance Sensor Systems, built on state-of-the-art digital multi-beamforming radar technology, **make it easy** to monitor, deter, and respond to security events as they occur across wide areas or in focused zones. And thanks to easy integration with other security assets, GroundAware gives operators the comprehensive, actionable information to **know when, where, and how** intruders threaten, along with the automation to react to those threats instantaneously. GroundAware is the versatile platform for true event-based layered security.

GroundAware installation is quick and straightforward. And OWL makes it easy for customers to try out GroundAware before making decisions to buy.

**GroundAware Family of Surveillance Sensor Systems**

**GA9000 Series**
- Instrumented range: 15 km
- Vehicle/human/drone: >13 km / >8 km / >5 km
- Field of view: 120˚/panel (240˚ & 360˚ options)

**GA4000 Series**
- Instrumented range: 5 km
- Vehicle/human/drone: >4 km / 2 km / 1.5 km
- Field of view: 120˚/panel (240˚ & 360˚ options)

**GA1360**
- Instrumented range: 1 km
- Vehicle/human/drone: 1 km / .5 km / .25 km
- Field of view: 360˚

**GA3360**
- Instrumented range: 5 km
- Vehicle/human/drone: >3 km / >2 km / >1.5 km
- Field of view: 360°

GroundAware's intuitive, web-based dashboard enables easy management and viewing of real-time detection, tracking, alarming, classification, and related information from GroundAware sensors and other layers of security (such as HD and infrared cameras shown here) used by critical infrastructure owners.
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

- Layered architecture enables integrated use of complementary security assets
- Slew-to-cue video tracking & verification
- Automated deterrence using lights, sirens, and two-way voice communication
- Monitoring and procedural information provided in real time to coordinate response

easy TO INSTALL & INTEGRATE

- Installs like cameras, with only standard power and network requirements
- Standards-based, open architecture simplifies integration with other systems
- HD and infrared cameras, video management, access control, PSIM/event management, and other security systems

easy TO TRY & BUY

- Sold directly to customers and through value-added resellers, per customer preference
- Try GroundAware at customer sites before buying
- No ongoing licensing or fees
- FCC-certified, fully warranted
<table>
<thead>
<tr>
<th>Parameter</th>
<th>GA9000</th>
<th>GA4120</th>
<th>GA3360</th>
<th>GA1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Size</td>
<td>33&quot; x 20&quot; x 12&quot; per face</td>
<td>30&quot; x 17&quot; x 7&quot; per face</td>
<td>22.5&quot; x 22.5&quot; x 21.3&quot;</td>
<td>18&quot; x 18&quot; x 18&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>75 lbs.</td>
<td>45 lbs.</td>
<td>40 lbs.</td>
<td>25 lbs.</td>
</tr>
<tr>
<td>Power Draw</td>
<td>300 W per face</td>
<td>75 W per face</td>
<td>&lt;100 W</td>
<td>35 W</td>
</tr>
<tr>
<td>Instrumented Range</td>
<td>100 m to 15 km</td>
<td>100 m to 5 km</td>
<td>50 m to 5 km</td>
<td>10 m to 1 km</td>
</tr>
<tr>
<td>Azimuth FOV</td>
<td>120 degrees per face</td>
<td>120 degrees per face</td>
<td>360 degrees</td>
<td>360 degrees</td>
</tr>
<tr>
<td>Elevation FOV</td>
<td>Selectable from 12 degrees to 90 degrees at manufacture time</td>
<td>20 Degrees</td>
<td>100 degrees</td>
<td>40 degrees</td>
</tr>
<tr>
<td>Azimuth Accuracy</td>
<td>0.25 degrees</td>
<td>0.5 degrees</td>
<td>1.5 degrees</td>
<td>2 degrees</td>
</tr>
<tr>
<td>Elevation Accuracy</td>
<td>0.5-2 degrees (depends on elevation FOV)</td>
<td>N/A 2D measurements</td>
<td>2 degrees</td>
<td>N/A, 2D measurements</td>
</tr>
<tr>
<td>Vehicle Detection Range</td>
<td>&gt;13 km, given radar height and line of sight (LOS)</td>
<td>&gt;4 km, given radar height and line of sight (LOS)</td>
<td>3 km, given radar height and LOS</td>
<td>1 km, given radar height and LOS</td>
</tr>
<tr>
<td>Walker Detection Range</td>
<td>&gt;8 km, given radar height and LOS</td>
<td>2 km, given mounting height and LOS</td>
<td>2 km, given radar height and LOS</td>
<td>0.5 km, given radar height and LOS</td>
</tr>
<tr>
<td>Class 1-2 Drone Detection Range</td>
<td>&gt;5 km, given radar height and LOS (15 degree Elevation FOV)</td>
<td>1.5 km, given radar height and LOS</td>
<td>1.5 km, given radar height and LOS</td>
<td>0.25 km, given radar height and LOS</td>
</tr>
</tbody>
</table>

To see demo or try out GroundAware at your site:
+1 (256) 713-5021 or 888-297-9559
www.owlknows.com