Acoustic Surveillance Unit (ASU)

Unattended Ground Sensor Features:
• Integrated acoustic sensing & signal processing
• Low Power SHARC processor for passive vehicle azimuth & elevation reporting
• Wake up subsystem for ultra low power consumption
• Contact reports via RS-232 or RS-485
• Alarms current DHS UGS upon elevated target detection
• Acoustic horn maximizes aperture & reduces wind noise
• Wind screens and camouflage available in various sizes
• Robust environmental design
• Supports ground mount or elevated hanging

Unattended Ground Sensor Benefits:
• Covert long endurance acoustic UGS
• Affordable
• Bearing & Elevation accuracy available upon request
• Compact size – 4.25” DIA X 6.5” tall
• Weight 5 lbs with 7 batteries

The versatile and affordable design of SSC’s compact acoustic sensor may be adapted to meet multiple customer specifications.

Power Budget

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>COMPONENT</th>
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<tbody>
<tr>
<td>Wake-Up</td>
<td>Microphone &amp; Amplifier</td>
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<tr>
<td>Subsystem</td>
<td>CPLD, Clock</td>
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</table>

Wake-Up Power  0.75 mW

Bearing & Elevation Subsystem

Microphones & Amplifier
Processor

Full Power  426 mW

Power Source 7 D Cell Li Batteries
Life @10% Duty Cycle 1.2 years
Life @ 1% Duty Cycle 10.6 years

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