

# 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

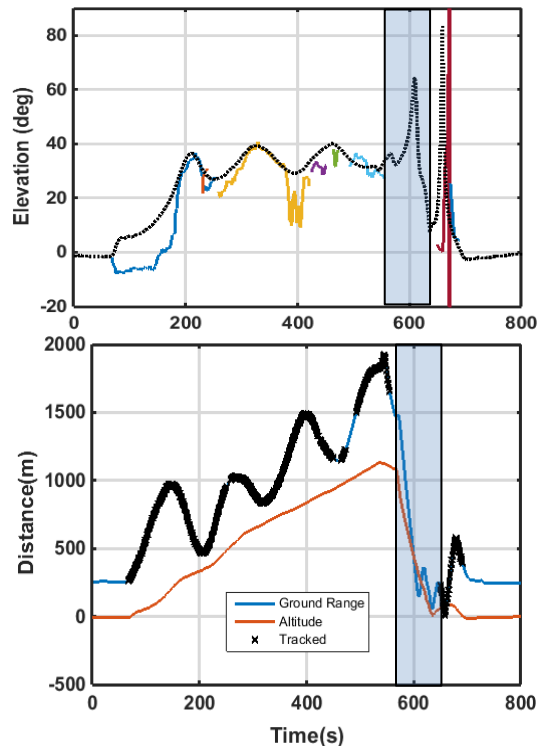
## Unattended Ground Sensor Benefits:

- 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.*

<u>Power Budget</u>	
FUNCTION	COMPONENT
Wake-Up Subsystem	Microphone & Amplifier CPLD, Clock
<b>WAKE UP POWER</b>	<b>0.75 mW</b>
Bearing & Elevation Subsystem	Microphones & Amplifier Processor
<b>FULL POWER</b>	<b>426 mW</b>
Power Source 7 D Cell Li Batteries	
Life @10% Duty Cycle 1.2 years	
Life @ 1% Duty Cycle 10.6 years	

## Ultralight Performance Engine Off



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