

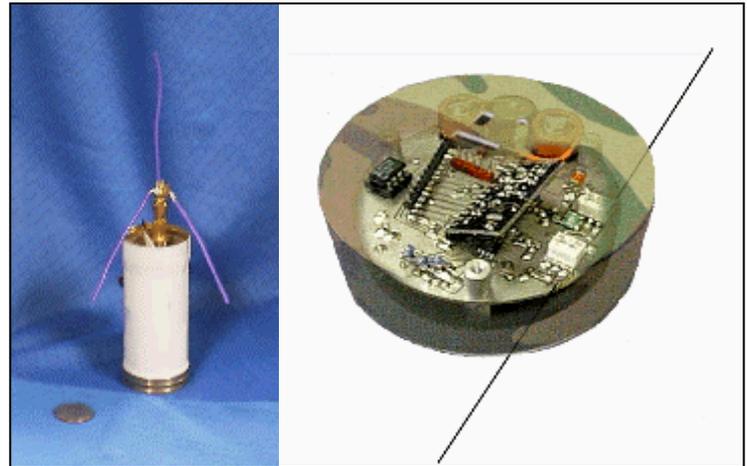
Remote UMASS Tripwire Sensors



Date Revised: 30 JAN 04

VENDOR DESCRIPTION

A collection of four types of sensors (MTI Radar, Magnetic, Seismic, and Single Pixel IR) was developed. These sensors can be placed in a building by users or by robotic vehicles. The sensors will monitor the local area and will send reports to the user's pager, PDA, or laptop PC. Different sensor types were selected because no one sensor type is able to operate in all the required conditions. For instance, radar is blocked by metal siding, but seismic and magnetic are not blocked. Seismic is very sensitive to footsteps in a wood frame building. Single pixel IR can localize the direction of a human if there is no blockage. By deploying different types of sensors, a more complete coverage is obtained. The units shown in the illustration are prototypes. Future units will be smaller as well as more rugged.



Product Manager Robotic & Unmanned Sensors
 Telephone: (732) 427-5827 / DSN 987
 Fax: (732) 427-5072 / DSN 987
 e-mail: SFAE-IEWS-NV-RUS@IEWS.monmouth.army.mil



Business Category: Large Business

Misc

Hardware	
Power: 9 volt battery at 100 milliamperes	Operating Altitude: 0 to 30000 feet MSL
Weight: 0.1 kg (Prototype – final version can be made smaller)	Operating Speed: N/A (must be fixed)
Dimensions: 1" diameter by 3" long; also "hockey puck" size	Operating Temp.: TBD
	Storage Temp.: TBD
	Interface: User pocket pager or PDA (RS-232)
	Bandwidth Required: CW radar, data sent at 19.2 KB/sec
	TCDL Compatibility: TBD
	MTBF: TBD
	MTTR: TBD
	Maintainability: TBD