

STTW/MTI Radar Remote Sensor



Date Revised: 30 JAN 04

VENDOR DESCRIPTION

The Remote STTW (Sense Through The Wall) sensor uses a 920 MHz CW radar to detect motion through walls. Detections are reported via a wireless link to a pager or PDA. The STTW can penetrate 1-foot-thick concrete walls. It can be placed on a UGV that can drive up to a building, aim the antenna, and detect motion behind walls.

The STTW sensors can be used with different antenna configurations. The illustration shows the sensor (current version 5" x 5" x 1.5") with two different antennas. The Yagi is recommended for STTW applications. A small 5" whip can be used for a "leave behind" UMASS sensor. In this case, the unit would be used as a remote sentry to alert the user if an intrusion occurs. The unit sends a digital "detection" message to a pager or PDA.



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Business Category: Large Business

Misc

Hardware	
Power: 12 volt battery at 100 milliamperes	Operating Altitude: 0 to 30000 feet MSL
Weight: 0.2 kg (Prototype - final version can be made smaller)	Operating Speed: N/A (must be fixed)
Dimensions: 5" x 5" x 1.5" plus antenna	Operating Temp.: TBD
Internal Volume: 120 cu in	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