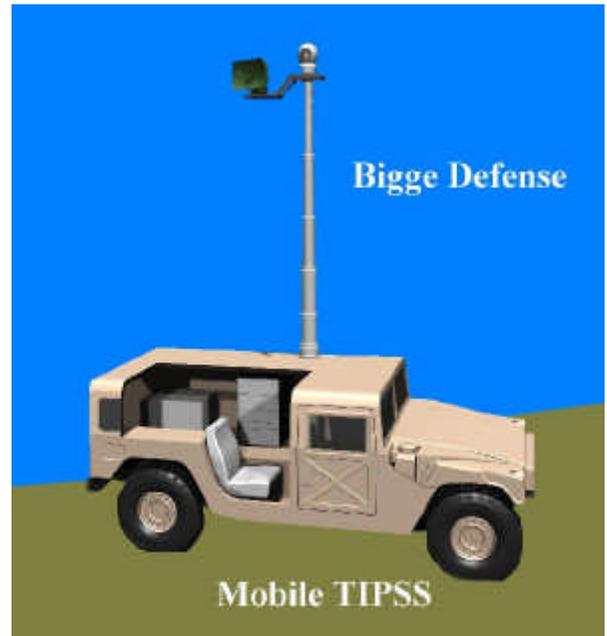


Date Revised: 3 FEB 03

VENDOR DESCRIPTION

Mobile TIPSS is a stealthy, multi-functional system that not only utilizes thermal imagery to detect targets, but also incorporates secure communications, night vision, pulse emission ground Doppler radar, and laser guidance of munitions to target. Basically, this equipment is integrated on a thirty-foot telescoping mast to achieve extended range; thus, the combination of sensors provides a heightened view of battlefield awareness. At the core of this is the patent pending "Hive Concept" of communications which minimizes the impact of any individual "node" being destroyed. By linking all the nodes together and cross-sharing the information that the hive generates, the consequences caused by the destruction of any one node minimize further loss.



Product Manager

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GBR

System Characteristics	
Technology	Ground Pulse Emission Doppler Radar (MTI Radar) LPI X-Band
Operating Frequency	X-Band, 8.75-8.95 GHz
Weight (w/batteries)	29 kg or 64 lbs
Transmit Power	Solid State/Pulse Compress. Peak power 5W width 17ms @ 50:1 – Trans 8 freq between 8.75-8.95 GHz
Temperature	Operating -30°C to +55°C Storage -40°C to +60°C
Antenna	31 dB, Planar-slotted array
Processing	Pulse Compression FFT CFAR
Data/Control Interface	RS-232/422 / Ethernet
Scan Rate	7.8, 15.6 & 22.8°/min
Coverage	Azimuth Sector Scan 0 to 359°
Target Classification	Audio Doppler Tones
Input Power	19-32 VDC, 80 watts
Continuous Operations on Single Set of Batteries	14 hours

Performance Characteristics	
Detection Range	Personnel 9 km Vehicles 30 km
Accuracy	Range ±25 m Azimuth ± 5 mils
Max. Remote Distance	130 m
Detect Artillery Round Impacts	Yes / G-155 @ 10 km & AE @ 5 km
Target Capacity	Auto Tracking & TWS on 60 targets
Minimum Detectable Radial Velocity	0.5 m/sec
Operational Availability (Ao)	99%
MTBF	2000 hrs
MTTR	1 hr
Maintainability	2 level BIT to LRM-3 levels: Operator, org. and depot
Options	
GPS and Flux Gate Compass Ethernet Remote Interface Wireless Remote Operation AC Power Adapter Networked and integrated with EO systems	