MPDR MAN PORTABLE DOPPLER RADAR

Compact, Multi Function Phased Array Radar System

Applications

Weather Detection Short-range Air Surveillance (drones, etc.) Perimeter Security Electronic Warfare / Communications

System Specifications

8.5 to 10.5 GHz operating frequency range 10 MHz instantaneous operating bandwidth ± 45 azimuth/elevation scan limits Ruggedized for extreme environments

Ability to control phase/amplitude at each element (for advanced tapering) and aperture size control

Modular Tile Based Array Architecture -Allows Larger Apertures to be Created for Missions Requiring Greater Sensitivity and Range

SPECIFICATION	MPDR (Single Tile)	MPDR x4 (Four Tiles)
Frequency Range	8.5 to 10.5 GHz	8.5 to 10.5 GHz
Peak Transmit Power	40 W	160 W
Electronic Scan Volume	± 45° Azimuth and Elevation	± 45° Azimuth and Elevation
Beamwidth	6° Azimuth 6° Elevation	3° Azimuth 3° Elevation
Weather Detection (< 18 dBZ)	> 40 km	> 200 km
Target Detection (0 dBsm)	> 9 km	< 22 km
Power Consumption	< 500 W	< 1200 W





