

AN/APS-144 Radar

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VENDOR DESCRIPTION

This dual-function radar is easily installed in helicopters, light aircraft, and unmanned aerial vehicles (UAVs) or in an external pod mounting. The SAR function in the AN/APS-144(V) complements the MTI function with its ability to image fixed targets in a spot or strip mode. The spot SAR mode provides very high-resolution images of fixed targets from an airborne platform, while the strip mode provides wide-area fixed target imagery. In the MTI function the AN/APS-144(V) provides wide-area surveillance of moving targets, and cueing of optical or IR sensors for a variety of needs such as battlefield surveillance, tactical border patrol, and drug interdiction applications. The AN/APS-144 has a number of features that provide size, weight, and installation advantages.



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SARMTI

Hardware

Power: 407.2 watts

Weight: 31.5 kg or 69.1 lbs

Dimensions: 610mm x 610mm x 160mm

Internal Volume: 0.057 m³ or 2 ft³

SAR Spot Mode	MTI Mode
Max image range: 20 km	Range: 3 - 20km
Size/Resolution: 500m x 500m / 0.3m	MDV: 3 m/s radial velocity, 1.5 m/s zoom mode
Angular Coverage: ±60° wrt UAV broadside	Pd 10 ² m target: Less than 0.9 @ 20km
View Size: 1024 x 1024	Refresh Rate: 18°/sec
	Angular Coverage: 360° AZ; +5° to -25° depression
	Field of View: 360° @ 20km
	Minimum Detectable Velocity: 3 m/s
	UAV ground speed: 40 to 120kts