

Radar (AN/MPQ-64 Sentinel) -

United States

Type: Mobile Vehicle(s)

Commissioned: 1994

Operator: Army

Length: 4 m

Width: 6 m

Crew: 0



Sensors / EW:

- AN/MPQ-64 Sentinel - (1994) Radar, Radar, Air Search, 3D-Short-Range, Max range: 74.4 km

OVERVIEW: The AN/MPQ-64 Sentinel is a mobile, low-altitude, short-to-medium-range 3-D air surveillance and target acquisition/tracking radar system operating in the X-band.

DETAILS: The AN/MPQ-64 Sentinel is designed to alert and queue Short Range Air Defense (SHORAD) weapons to the locations of hostile aircraft, UAVs or cruise missiles approaching front line forces. It uses an X-band range-gated, pulse-doppler system. The radar automatically acquires, tracks, classifies, identifies and reports targets, including cruise missiles, unmanned aerial vehicles, rotary and fixed-wing aircraft. Weapon systems associated with the AN/MPQ-64 include STINGER, AMRAAM and AAA.

Specifications:

Frequency: MHz (X Band (NATO), Band (IEEE))

Power output: kW(average); kW (peak)

PRF: Hz

Range Accuracy: m (range), degrees azimuth

On/Off time: unknown

Deploy/Stow Time 15 minutes/ unknown minutes

Detection Range

tgt alt. 100m: unknown km

Radar (AN/MPQ-64 Sentinel) -

tgt alt. 18000m: unknown km

Max Range: 40 km

NOTES: The AN/MPQ-64 is truck, C-130 and helo transportable.

SOURCES: "AN/MPQ-64 Sentinel." Wikipedia, the Free Encyclopedia. Accessed March 28, 2015.

http://en.wikipedia.org/wiki/AN/MPQ-64_Sentinel ; "AN/MPQ-64 Sentinel." Guide to Military Equipment and Civil Aviation. Accessed March 28, 2015. http://www.deagel.com/Ground-Sensors/ANMPQ-64-Sentinel_a001633001.aspx. ; <http://fas.org/man/dod-101/sys/land/sentinel.html>