

Radar (RAC-3D) - Mistral, 16x

Austria

Type: Mobile Vehicle(s)

Commissioned: 2000

Operator: Army

Length: 4 m

Width: 6 m

Crew: 0



Sensors / EW:

- RAC-3D - (DEHAWK) Radar, Radar, Air Search, 3D Short-Range, Max range: 100 km

OVERVIEW: The RAC-3D is a self-propelled, planar phased-array, medium range air surveillance radar operating in the G/H-band.

DETAILS: The RAC-3D is intended as a gap-filling and warning radar for air defense units. It is optimized for detecting low observable targets. To maximize low altitude capabilities, the radar is attached to a 13 m hydraulic mast, giving it a good capability against medium to very low-altitude targets. It can be unattended, as well as operated as either a stand-alone or networked with other radars.

Specifications:

Frequency: 4-8 GHz (G/H Band (NATO), C Band (IEEE))

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

PRF: Hz

Range Accuracy: 20 m (range), 0.4 degrees azimuth

On/Off time: unknown

Deploy/Stow Time 15 minutes/ 15 minutes

Detection Range

tgt alt. 100m: unknown km

tgt alt. 18000m: unknown km

Radar (RAC-3D) - Mistral, 16x

Max Range: 80 km, instrumented to 100 km

NOTES: The RAC-3D is aircraft transportable.

SOURCES: "Radar Basics." Grundlagen Der Radartechnik. Accessed March 29, 2015.

<http://www.radartutorial.eu/19.kartei/karte413.en.html> ; ThalesRaytheon Systems, "RAC-3D intermediate Range Tactical 3-D surveillance radar," www.mobileradar.org/Documents/RAC_3D.pdf