

Radar (AR-1) - 5x, Airfield Approach Radar

Libya

Type: Mobile Vehicle(s)

Commissioned: 0

Operator: Air Force

Length: 4 m

Width: 6 m

Crew: 0



Sensors / EW:

- AR-1 - Radar, Radar, Air Search, 2D Short-Range, Max range: 74.1 km

OVERVIEW: The Plessey AR-1 is a mobile, short-range 2-D approach radar operating in the E/F-Band.

DETAILS: The AR-1 was designed to meet both military and civil airfield approach control requirements.

Specifications:

Frequency: 2.75-3.05 GHz (E/F Band (NATO), S Band (IEEE))

Power output: unknown kW (average); 650 kW (peak)

PRF: 700 Hz

Range Accuracy: unknown m (range), unknown degrees azimuth

On/Off time: unknown

Deploy/Stow Time N/A

Detection Range

tgt alt. 100m: unknown km

tgt alt. 18000m: unknown km

Max Range: 70+ km

NOTES: IOC: 1959 (approx.). The AR-1 was designed to meet both military and civil airfield approach control

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requirements with many different display configurations, utilising the new Mk.5 Fixed Coil Display. The AR- 1 radar became an international success with sales reaching 108 systems, of which 32 were to the U.K. MOD for use on RAF and Royal Naval stations in the UK and overseas.

SOURCES: "The Decca Legacy - Chapter 6." Wootton Bridge Historical - Historical Information for Wootton Bridge and the Isle of Wight. Accessed March 28, 2015. <http://woottonbridgeiow.org.uk/decca-legacy/chapter6.php#6.6.htm>.