Radar (AR-3D) - 1x

Chile

Type: Building (Surface)

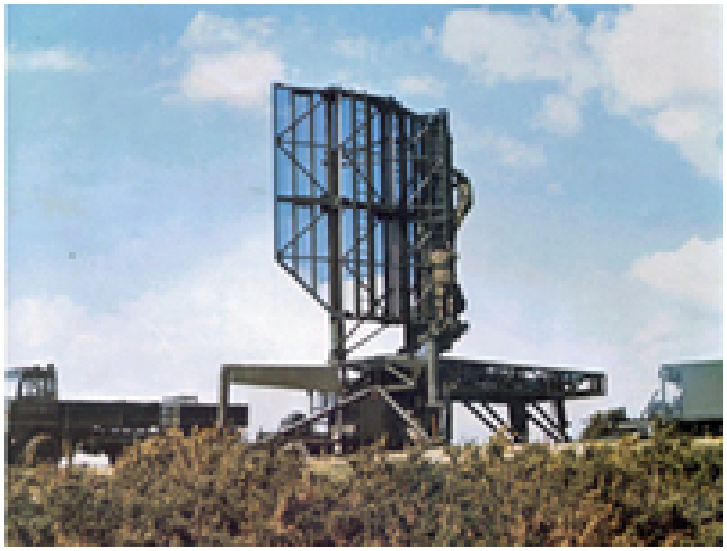
Commissioned: 0

Operator: Air Force

Length: 12 m

Width: 12 m

Crew: 0



Sensors / EW:
- AR-3D - Radar, Radar, Air Search, 3D Long-Range, Max range: 555.6 km

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OVERVIEW: The Plessey AR-3D is a transportable, long range, 3-D air defense radar operating in the E/F Band.

DETAILS: The AR-3D uses a planar-array antenna with frequency steered pencil beam groups to electronically scan in elevation. The system is highly automated. ECCM
capabilities include frequency scanning in elevation and electronic antenna-tilting. Additionally, its narrow radiated beam, low sidelobes allow it to operate effectively in an ECM environment.

Specifications:

Frequency: 2.9-3.1 GHz (E/F Band (NATO), S Band (IEEE))
Power output: 10 kW(average); 1.1 MW (peak)
PRF: variable
Range Accuracy: 18 m (range), 0.16 degrees azimuth
On/Off time: unknown
Deploy/Stow Time minutes/ minutes

Detection Range (2m2 target)(max): 556 km

NOTES: IOC 1975.Users include Egypt, South Africa, Great Britian, Quatar and Ecuador

SOURCES: http://woottonbridgeiow.org.uk/decca-legacy/chapter7.php#7.5 ; Radar Forecast International, "AR-320-325", May 1997, pg. 1-6, http://www.docstoc.com/docs/41653896/AR-320325---Archived-598 ; http://woottonbridgeiow.org.uk/decca-legacy/chapter7.php#7.5