

Radar (AR-320) - 4x

Philippines

Type: Building (Surface)

Commissioned: 0

Operator: Air Force

Length: 12 m

Width: 12 m

Crew: 0



Sensors / EW:

- AR-320 - Radar, Radar, Air Search, 3D Long-Range, Max range: 555.6 km

OVERVIEW: The ITT Gilfillan Series 320 is a fixed or mobile, long range, 3-D air defense radar operating in the E/F Band.

DETAILS: The Series 320 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 agility, jammer frequency analysis, jam-strobe reports and silent sector operations, low sidelobe and Constant False Alarm Rate (CFAR). Remote monitoring is possible.

Specifications:

Frequency: 2.9-3.1 GHz (E/F Band (NATO), S Band (IEEE))

Power output: 20 kW(average); 1.1 MW (peak)

PRF: variable

Range Accuracy: 18 m (range), 0.16 degrees azimuth

On/Off time: unknown

Deploy/Stow Time 360 minutes/ minutes

Detection Range (Pd<50%, 2m2 target): 556 km

NOTES: The Series 320 is based on the Plessey AR-3D. A reduced 370 km range version using a peak power of only

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150 kW is also available.

SOURCES: Jane's Radar and Electronic Warfare Systems, 2001-2002, 10 November 2000, pg. 3569,
<http://librarun.org/book/30265/3570> ; <http://www.docstoc.com/docs/41653896/AR-320325---Archived-598> ;
<http://woottonbridgeiow.org.uk/decca-legacy/chapter7.php#7.5>