

Radar (China JY-14 Great Wall) -

China

Type: Building (Surface)

Commissioned: 0

Operator: Air Force

Length: 12 m

Width: 12 m

Crew: 0



Sensors / EW:

- China JY-14 Great Wall - Radar, Radar, Air Search, 3D Long-Range, Max range: 592.6 km

OVERVIEW: The JY-14 GREAT WALL Radar is a long-range, 3-D surveillance and interceptor control radar operating in the E/F Band.

DETAILS: The JY-14 is primarily used in national air defense system. It is capable of tracking over 72 contacts. The JY-14 is reported to have a range of anti-jamming facilities, to ensure normal operation in the most severe of electronic warfare (EW) environments. It has 8 RF feeds, six in E/F-band and two in D-band, the latter two giving good height cover where the lowest may also be used for an IFF facility. This radar employs a number of modern technologies including a low-sidelobe antenna, pulse compression, self-adaptive moving target indication (AMTI).

Specifications:

Frequency: 1.5-2.1 GHz (E/F Band (NATO), S Band (IEEE)))

Power output: 10 kW(average); 1.0 MW (peak)

PRF: unknown

Range Resolution: 90 m (range), 0.2 degrees azimuth

On/Off time: unknown

Deploy/Stow Time unknown min

Detection Range:

90% Pd, 3 m² RCS target:

tgt alt. 100m: km

tgt alt. 18000m: km

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Max Range: 450 km

NOTES: IOC 1998. The JY-14 is expected to be deployed in regional air defense networks.

Source: Air Power Australia. "PLA Air Defence Radars." Accessed December 1, 2013.

<http://www.ausairpower.net/APA-PLA-IADS-Radars.html#mozTocId756208> ; Jane's Radar and Electronic Warfare Systems, 2002-03, "JY-13 3-D surveillance radar," 25 March 2003 ; "JY-14 Radar." Wikipedia, the Free Encyclopedia. Accessed March 28, 2015. http://en.wikipedia.org/wiki/JY-14_Radar.