# Radar (Flat Face B [P-19]) -

## **Germany [DDR, -1990]**

Type: Building (Surface)

Commissioned: 0
Operator: Air Force

Length: 12 m Width: 12 m

Crew: 0



#### Sensors / EW:

- Flat Face B [P-19] - (1RL134, Danube) Radar, Radar, Air Search, 2D Medium-Range, Max range: 250 km

OVERVIEW: The P-19 radar (NATO name: FLAT FACE B) is an mobile, 2-D early warning radar operating in the "C" Band.

DETAILS: The FLAT FACE B is a mobile early warning radar. The P-19 can likely shift between possibly three pre-set frequencies to avoid active interference, and may incorporate doppler filtering to discriminate chaff returns. It also incorporates an IFF. Weapon systems associated with the P-19 include the SA-2 GUIDELINE, SA-3 GOA, SA-6 GAINFUL and SA-8 GEKO, as well as the SA-60 57mm AAA gun.

### Specifications:

Frequency: 825-890 Mhz (C-Band)

Power output:

PRF:

Range Resolution: 2.5 km/2 degrees azimuth

Runup time: up to 3.3 minutes Set up time: up to 20 minutes

Detection Ranges (2.5 m2 RCS, 14m tower height, 50% chance of detection)

100 m altitude: 32 km 1000 m altitude: 80 km 4000 m alt.: 140 km

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NOTES: IOC 1974. The P-19 system is mounted in two vehicles: an antenna mounted on a single truck and the electronic equipment contained in a second truck. The system is reportedly easy to maintain and highly reliable, with a high level of resistance to countermeasures and good low altitude detection characteristics. Because of their low power-aperture ratings this family of radars is not regarded as being very effective against low-observable aircraft and drones.

SOURCES: Jane's Radar and Electronic Warfare Systems, "P-15/P-19 series early-warning radars", 22 October 2004; W"Radar Basics." Grundlagen Der Radartechnik. Accessed March 8, 2015; "P-19 Radar." Wikipedia, the Free Encyclopedia. Accessed March 8, 2015. http://en.wikipedia.org/wiki/P-19\_radar; "P-19MA/P-190U | Www.litak-tak.eu." Home | Www.litak-tak.eu. Accessed March 8, 2015.

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