

Radar (Back Trap [5N87]) -

Soviet Union [-1991]

Type: Building (Surface)

Commissioned: 0

Operator: Air Defence Troops [PVO]

Length: 12 m

Width: 12 m

Crew: 0



Sensors / EW:

- Back Trap [5N87] - Radar, Radar, Air Search, 3D Long-Range, Max range: 463 km

OVERVIEW: The Kabina 66/5N87 radar (NATO name: BACK TRAP) is a mobile 2-D early warning/Ground Control Intercept (GCI) radar operating in the "E/F" Band.

DETAILS: The BACK TRAP is a van-mounted mobile radar. Weapons systems associated with the BACK TRAP include the SA-5 GAMMON.

Specifications:

Frequency: 1.98-2.45 GHz (E/F Band)

Power output: 32 kW (average), 1.5 MW (peak) (some sources report up to 2.4 MW peak power)

PRF: 60-1460 Hz

Range Resolution: 1.7 km (range)/1 degree (azimuth)

On/Off time: unknown

Detection Ranges, 1 m² RCS target

200 m alt: 50 km

400 m alt: 200 km

6000m alt.: 310 km

Max range: 450 km (380 km for fighter sized target)

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NOTES: IOC 1962.

SOURCES: "Radar Basics." Grundlagen Der Radartechnik. Accessed March 15, 2015. <http://www.radartutorial.eu/19.kartei/karte901.en.html> ; <http://users.sch.gr/dlabaditis/TH/radars/index.htm> ; "S-200 (missile)." Wikipedia, the Free Encyclopedia. Accessed March 15, 2015. [http://en.wikipedia.org/wiki/S-200_\(missile\)](http://en.wikipedia.org/wiki/S-200_(missile)) ; "Die Seiten Der Funktechnischen Truppen Der NVA." Die Seiten Der Funktechnischen Truppen Der NVA. Accessed March 15, 2015. <http://www.nva-futt.de/index.html?http://www.nva-futt.de/besonderheiten/technik/tta/k-66.html>.