

## Radar (Sponge Cake HF [PRV-10M]) -

### Soviet Union [-1991]

Type: Building (Surface)

Commissioned: 0

Operator: Air Defence Troops [PVO]

Length: 12 m

Width: 12 m

Crew: 0



### Sensors / EW:

- Sponge Cake HF [PRV-10] - (1958) Radar, Radar, Height-Finder, Long-Range, Max range: 296.3 km

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**OVERVIEW:** The PRV-10M radar (NATO name: SPONGE CAKE) is a nodding height finding radar operating in the "E" Band.

**DETAILS:** The SPONGE CAKE is a fixed version of the PRV-10M PATTY CAKE mobile radar. Weapon systems associated with the PRV-9 include the SA-2 GUIDELINE. The PRV-10M radar is also associated with GCI systems.

### Specifications:

Frequency: 2 Ghz (E-Band)

Power output: 2 MW (peak)

PRF:

Range Resolution: 3 km, 500 m height

On/Off time: unknown

Detection Ranges

Fighter size aircraft

500 m altitude: unknown

10000m alt.: 300 km

**NOTES:** IOC 1960-61 (approx).

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SOURCES: Jane's Radar and Electronic Warfare Systems, 1998-99 "Cake series height-finder radars", 22 October 2004; Radar Basics. (n.d.). "Radar Basics." Grundlagen Der Radartechnik. Accessed March 8, 2015. <http://www.radartutorial.eu/19.kartei/karte914.en.html>.