

## Radar (Box Spring [1L13-3 Nebo SV]) - SA-12?

### Soviet Union [-1991]

Type: Mobile Vehicle(s)

Commissioned: 1989

Operator: Red Army

Length: 6 m

Width: 60 m

Crew: 0



### Sensors / EW:

- Box Spring [1L13-3 Nebo SV] - (SA-12?) Radar, Radar, Air Search, 2D Long-Range, Max range: 361.1 km

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**OVERVIEW:** The 1L13-3 Nebo radar (NATO name: BOX SPRING) is a mobile, 2-D early warning radar operating in the A/B Band.

**DETAILS:** The 1L13-3 Nebo radar ECCM features include pulse to pulse frequency agility. It is designed to reject chaff automatically.

### Specifications:

Frequency: 30-300 MHz (approx)(NATO A/B Band)(IEEE: VHF Band)

Power output: 120-140 kW (peak)

PRF: 300 Hz

Accuracy: 400 m/ 0.67 degrees azimuth

Runup time: Unknown

Set up/Stow time: 45 minutes / 45 minutes

### Detection Ranges (Fighter-size aircraft)

500 m altitude: 60 km

10,000 m altitude: 250 km

27,000 m altitude: 350 km

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NOTES: IOC 1986. Capable of being used as part of a radar system to provide a valuable early warning capability against low observable aircraft. As part of an IADS system, the 1L13 Nebo would be used to cue the high power aperture X-band systems to a small acquisition box in which the VLO aircraft can be found.

SOURCES: "Russian / PLA Low Band Surveillance Radar Systems (Counter LowObservable Technology Radars)." Air Power Australia. Accessed April 4, 2015.

<http://www.ausairpower.net/APA-Rus-Low-Band-Radars.html#mozTocId481197> ; "NNIIRT Nebo SVU / RLM-M Nebo M / Assessing Russia's FirstMobile VHF AESAs." Air Power Australia. Accessed April 4, 2015.

<http://www.ausairpower.net/APA-Nebo-SVU-Analysis.html>.