



Vostok

solid-state 2D VHF-band radar

Designation

Detection, tracking, measurement of azimuth and range of aerial platforms (AP), transmission of radar information to an automated control system.

Capabilities

- detection and tracking of up to 250 APs (including stealthy ones) over up to 360 km ranges, in automatic, automated and manual modes;
- automatic measurement of AP primary coordinates and classification of the tracked object;
- automatic detection and tracking of up to 10 jammer (J) bearings;
- built-in multichannel automatic jamming canceler, highly efficient clutter rejection system, controllable echo signal integrator, intelligent anti-spot jammer system;
- digital signal shaping and processing using state-of-the-art highly effective algorithms;
- continuous functional check of all devices of the radar with identification of faults down to standard replaceable element;
- highly automated travel-to-combat and combat-to-travel transfer procedure performed by the organic 3-man crew within not more than 6 minutes.



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Specifications

Frequency band	VHF
Maximum operation range	360 km
Primary coordinates and parameters measured:	azimuth, range
Resolution:	
range	200 m
azimuth	5.5°
Root mean square error of single measurement (single scan):	
range	25 m
azimuth	0.8°
Probing signal types	8
Jamming rejection factor	≥30 dB
Clutter rejection factor	≥50 dB
Automatic AP tracking system throughput capacity, tracks	minimum 250
Automatic J tracking system throughput capacity, tracks	minimum 10
AP classification	5 classes
Setup (teardown) time	6 min



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