

Vostok-3D

solid-state combination VHF- and S-band 3D radar



Designation

Detection, determination of azimuth, range, flight altitude and speed, tracking and classification of aerial platforms (AP), transmission of radar information to an automated control system.

Capabilities

- detection and tracking of APs over up to 360 km ranges, within 360 degrees in azimuth and from minus 3 to 45 degrees in elevation;
- automatic measurement of primary coordinates — range, azimuth and range rate by the VHF-band channel; and azimuth, range and elevation by the S-band channel;
- automatic classification of the tracked APs;
- three-channel automatic jamming cancelers suppressing the VHF- and S-band antenna system sidelobes, clutter rejection and anti-spot jammer systems;
- 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;
- automated radar travel-to-combat and combat-to-travel transfer procedure;
- all radar hardware including autonomous power supply equipment is mounted on a single self-propelled high cross-country capacity chassis.



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Specifications

| | |
|---|---------------------------------------|
| Working frequency bands | VHF, S |
| Maximum operation range | 360 km |
| Primary coordinates and parameters measured | azimuth, range, elevation, range rate |
| Resolution: | |
| range | 200 m |
| azimuth | 5.5° |
| elevation | 1.2° |
| range rate | 10 m/s |
| Root mean square error of single measurement (single scan): | |
| range | 25 m |
| azimuth | 0.8° |
| elevation | 0.1° |
| Probing signal types | 8 |
| Jamming rejection factor | ≥30 dB |
| Clutter rejection factor | ≥50 dB |
| Target info update rate (for fixed antenna system rotation rate in azimuth) | 10 s for 3 rpm 5 s for 6 rpm |
| 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 | maximum 8 min |



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