



Pozitiv-ME1

Pozitiv-ME and Pozitiv-ME1.2 3D active shipborne radars are designed to search, detect and track air and surface targets. Radars are mounted at small- and medium-displacement ships and are an integral self-contained part of multi-purpose electronic system.

Pozitiv-ME family radars perform the following tasks:

- air/surface sea-situation surveillance;
- search, detection and tracking of surface and air targets, including small-size, low-flying, and dive ones;
- target detection and tracking in preselected sectors with automated mode selection depending on the ECM environment;
- state identification of detected targets ("friend-or-foe") by IFF equipment and built-in antennas;
- target coordinates and motion parameters determination;
- target classification according to trajectory parameters;
- target threat prioritisation;
- automatic target distribution and plan display with on-line correction possibility;
- targeting data feed to weapons and other cooperating systems;
- automatic operational modes selection and operability control and trouble-shooting;
- recording of target data processing output, worked-out solutions, and interfaced system status;
- staff training in simulated radar environment.

Thanks to use high-speed rotation of antenna with electronic elevation scanning, special search/lock-on/tracking/prioritisation modes and other positive features of radars provides short reaction time, high throughput capacity and target designation accuracy.

Características básicas:

- Operational frequency band: X (3 cm)
- Target coordinates determined simultaneously: 3 (bearing, range, elevation)
- Antenna:
 - type: flat phased array
 - directional diagram: multi-beam
 - directional diagram elevation control: phase-frequency manipulation
 - rotation period, s: 2; 5; 10; 20
- Coverage zones:
 - in range, km: ≤ 150
 - in altitude, km: ≤ 30
 - in elevation, deg: ≤ 85



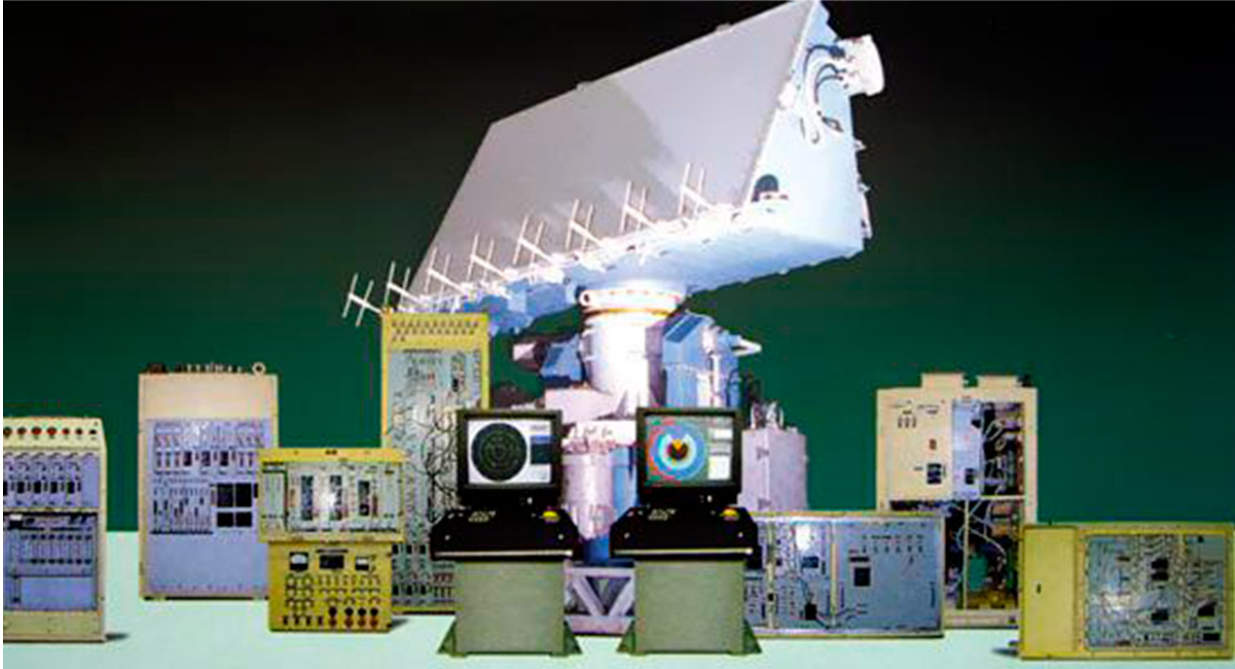
- in azimuth, deg: 360
- Max target detection range, km:
 - air target (RCS> 1 m², flight altitude 1,000 m): 110
 - anti-ship missile (RCS> 0.03 m², flight altitude 15 m): 15
 - surface target (RCS=10,000 m²): 0.9-0.95 radio horizon range
- Min detection range, m: 1000
- Coordinates calculation root-mean-square error:
 - in range, m: 20
 - in azimuth, mil: 3-4
 - in elevation, mil: 3-4
- Lock on-to-designate reaction time, s: 3-5
- Simultaneously tracked targets: 3-5
- Weight, kg:
 - antenna: 1460
 - interior equipment: 1740
- Power consumption, kW: ≤45
- Into-action time, min: 3 мин





РОСОБОРОНЭКСПОРТ

Акционерное общество



АО «Рособоронэкспорт» – единственная в России государственная организация по экспорту всего спектра продукции, услуг и технологий военного и двойного назначения. Входит в Госкорпорацию Ростех. «Рособоронэкспорт» образован 4 ноября 2000 года и является одним из лидеров мирового рынка вооружений. На долю компании приходится более 85% экспорта российских вооружения и военной техники. «Рособоронэкспорт» взаимодействует с более чем 700 предприятиями и организациями оборонно-промышленного комплекса России. География военно-технического сотрудничества России – более 70 стран.

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