



3D RADAR

PODBEREZOVIK-ET1

SOLID-STATE
LONG RANGE RADAR



“Podberezovik-ET1” radar is intended for aerial and surface targets detection and designation for fire means. The radars are deployed both on medium and large displacement warships and coastal warning stations.

“Podberezovik-ET1” radars are designed and manufactured by FSUE “SMP “Salyut”.

«Podberezovik-ET1» radars allow the following tasks solution:

- Monitoring of air and surface situation at a distance of up to 500 km;
- Detection of air targets, including point and low-flying ones; Detection of surface targets;
- Surface targets detection;
- IFF of detected targets;
- Output of primary radar data to fire means, ECM equipment and data processing system;
- Tracking of detected targets and output of secondary radar data to control systems when completed with data processing devices.

High efficiency and jamming immunity of radars are provided by:

- Adaptive space power distribution; Electronic frequency re-tuning in a wide band;
- Wide-band electronic frequency tuning; Complex signals with high resolution ability;
- High space resolution and low side-lobe level; Logical processing of signals after detection;
- Complex high-resolution signals;
- Nonlinear signal processing;
- Post-detection logical signal processing;
- Double adaptive moving target selection with pulse-repetition frequency wobbling.

The radar is characterized by a built-in test system capable to detect faults and failures up to LRU.

“Podberezovik-ET1” radars are produced since 1982. They are constantly updated, the latest modernization was provided in 2005.

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PODBEREZOVIK-ET1

SPECIFICATIONS

RANGE OF AERIAL TARGET DETECTION

Fighter	300 km
Bomber	500 km
Passenger aircraft	500 km
Missile	55 km

RANGE OF SURFACE TARGETS DETECTION

Deployment altitude	20		100	
	Normal	Tropospheric duct	Normal	Tropospheric duct
Ship 1000 t	40 km	500 km	60 km	500 km
Ship 5000 t	50 km	500 km	75 km	500 km

