



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

