



3TS-25E

The 3TS-25E target designation radar is designed to provide surveillance surface using active and passive channels in interest strike missile designation.

The radar is intended to perform the following missions:

- acquisition, automatic tracking and determination of their coordinates of surface targets by active channels;
- detection, classification and determination of their coordinates of surface targets based on their radars emissions using passive channels;
- identification nationality targets and IFF by means of coupled interrogators equipment;
- generation and transmitting target designation data to missile weapons control system, and combat information management system;
- interaction with external data sources (e.g. Task Force ships, air remote surveillance posts etc.);
- tactical and navigation manoeuvring safety providing.

Composition:

- active radar channel;
- passive radar channel;
- joined multiband antenna and data processing equipment.

Features

The integrated sea situation surveillance is based on use of active and passive channels for acquire and target designation.

It boasts increased operational range and security thanks to employment of high-energy and complex modulated signals, coupled with passive channel in severe ECM and sea conditions.

The active channel uses a multiprocessor system to generate probing signals and radar data. It is integrated with a multi-computer secondary data processing and network.

The passive channel performs hard ware/software-based analysis and classification of incoming radar signals by comparing their parameters with those available in the database (up to 1,000 entries)

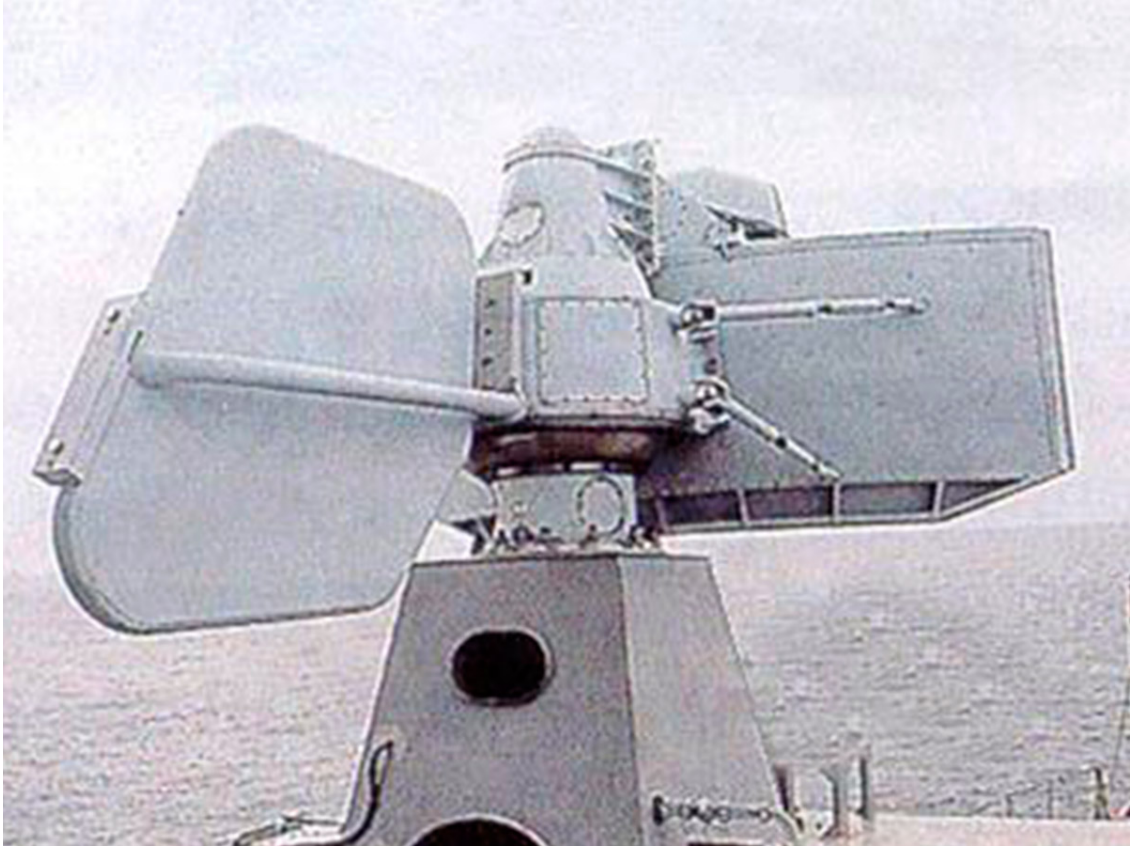
Main characteristics:

- Active channel:



- Carrier frequency band: I (NATO band)
- Probing signal types: pulse, complex with intrapulse phase manipulation
- Scan modes: circular, sector
- Target detection range (target RCS - 1,000 m²), km (depending on the area covered):
 - normal radar visibility: 35-45
 - high radar visibility: up to 90
 - super-refraction: up to 250
- Resolution in active mode (depending on range scale):
 - range, m: 40-960
 - elevation, deg: 1,5
- Passive channel:
 - Sensed signal at frequency band (complete waveband coverage): centimetric-wave, decimetric-wave
 - Sensed signal types: pulse, continuous with random polarisation
 - Surface target detection range, km: 50-500*(depending on signal potential and frequency band of radar emissions)
 - Root-mean-square range error, %: 5-20
 - Root-mean-square bearing error, deg: 0,5-2
 - Target classification: probabilistic classification sensed coastal radars using customer war models







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