Zarya-ME

The Zarya-ME surface ship sonar system is designed for undersea and surface targets detection to enable underwater weapon application and navigation security.

Missions:

- submarines and surface ships detection in hydrolocation mode by hall-mounted, towed and dipping antenna arrays;
- detection of torpedoes, submarines and surface ships in the listening mode by hall-mounted, towed and dipping antenna arrays;
- automatic target tracking, localization and motion parameters determination, and targeting to underwater weapons;
- objects classification into submarine, surface ship, torpedo and decoy classes;
- torpedoes detection in the active mode;
- hydroacoustic communications with submarines and surface ships, and identification "friend-or-foe";
- monitoring of sonar background noise;
- continuous automatic system’s functional testing and location.

Zarya-ME family sonars share a typical structure, differing only in array dimensions and number of hardware components on a particular ship project. Such unification is obtained thanks to the use of multiprocessor computers, standard color displays, as well as sonar management assets.

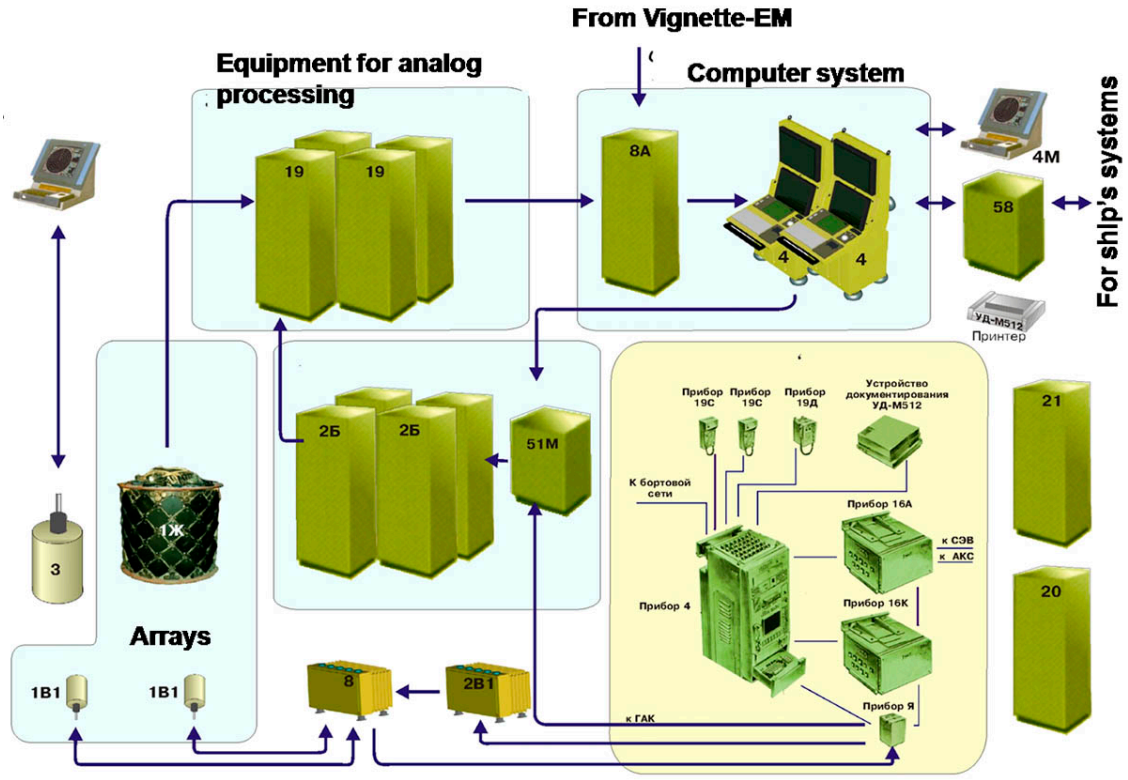
Zarya-ME sonar modifications are installed on ships of small, medium and large displacement.

Características básicas:

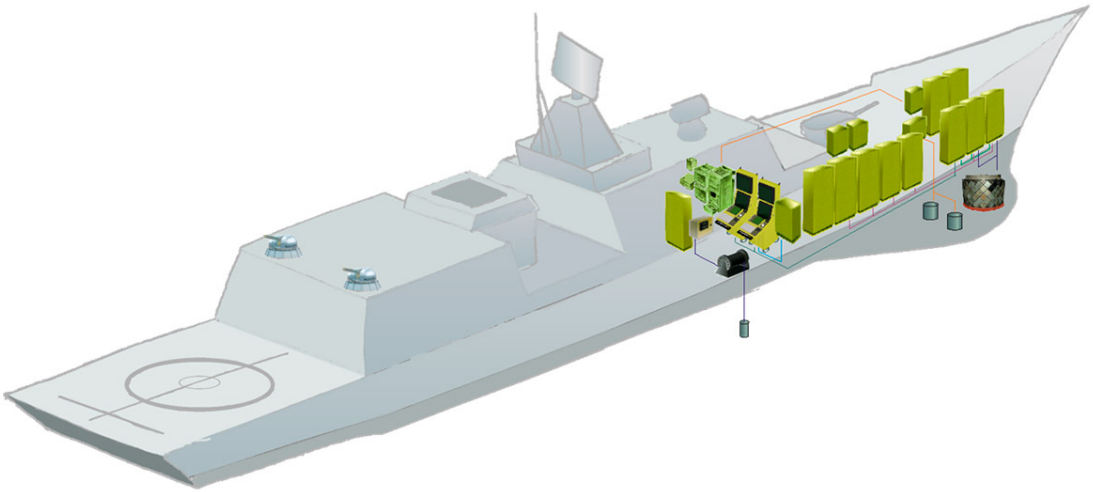
- Hall-mounted array:
  - Energy-linked detection range (directed emission mode, 10-m equivalent radius target), km: up to 35
  - Range scales (depending on the modification), km: 2,5; 5; 10; 20; 40; 80; 160
- Median coordinate-measuring error:
  - range, % of scale: 1,1
  - bearing, deg: 0,7-1,2
- Electronic stabilisation angle limits of array pitching (for a range of 160 km), deg: ± 10
- Hydrolocation scan sector, deg:
  - directional emission (in 30/60-deg sector): from ±135 to ±150
  - non-directional emission: from ±135 to ±150
- Towed array:
  - Energy-linked detection range (directed emission mode, 10-m

equivalent radius target), km: 14-15

- Median coordinate-measuring error:
  - range, % of scale: 1,1
  - bearing, deg: 1,3
- Hydrolocation scan sector, deg:
  - directional emission (in 30/60-deg sector): ±160
  - non-directional emission: ±160
- Max tow speed, knots: 18
- Dipping array:
  - Energy-linked detection range (directed emission mode, 10-m equivalent radius target), km: 16
- Median coordinate-measuring error:
  - range, % of scale: 1,1
  - bearing, deg: 1,3
- Hydrolocation scan sector, deg:
  - directional emission (in 30/60-deg sector): ±180
  - non-directional emission: ±180



РОСОБОРОНЭКСПОРТ
Акционерное общество



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