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## Livadiya-ME

### Destination:

The Livadiya-ME sonar station is designed to search and liquidation support of anchored, seabed, and bottom mines.

### Missions:

- mines detection, classification and designation;
- mines automatically localization and output data to the shipborne mine warfare management system.

### Composition:

#### Antenna systems:

- low-frequency underhull-mounted antenna (in a blister) for searching;
- dual-frequency telescoping antenna for final classification;
- hydraulic-operated and rotating machinery;
- antenna on a self-propelled remotely controlled vehicle.

#### Shipborne control and data processing equipment:

- workstation of searching operator;
- workstation of vehicle control operator;
- signal transmitters, receivers, and processors, control hardware, data displays;
- integrated generator;
- electric power units.

### Main characteristics:

- Search by hull-mounted antennas:
  - Maximum detection range (detection probability 0.9), m:
  - anchored mines and objects: 800
  - seabed, and bottom mines: 560
- Range of classification by low-frequency detection array, as well as dual-frequency classification array (low-frequency mode),m:
  - anchored mines and objects: 640
  - seabed, and bottom mines: 450
- Range of classification by dual-frequency classification array (high-frequency mode),m: 100
- Horizontal plane surveillance zones, deg:
  - blistered bottom low-frequency detection array: 60
  - classification array (low-frequency mode): 90



- classification array (high-frequency mode): 20
- Overall horizontal surveillance sector, deg: 180
- Average squared error:
  - to distance, scale %: 1
  - to course bearing, deg: 1
- Searching depths, m: 3-300
- Maximum mine searching speed of the ship, knots: 8
- Minehunting by self-propelled remotely controlled vehicle:
  - Maximum detection range (detection probability 0.9, m:
    - anchored mines and objects, seabed, and bottom mines: 560
- Range of classification, m: 100
- Maximum mine searching speed of the ship, knots: 6
- Searching depths, m: 300







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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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