



5P-10E

Mission

The 5P-10E universal radar control system (RCS) is designed for fire control of naval artillery against air targets, including sea-skimming anti-ship missiles, sea and shore targets in all engagement envelopes of naval artillery.

Tasks

- reception of targeting data from the ship's sensors, independent detection in a circular scan and tracking of up to 8 targets;
- automatic acquisition in a sector scan and tracking of up to 4 air, surface and radar-observed shore targets;
- automatic simultaneous control of several guns, including guns of two different calibers, firing at one or two targets;
- feeding the current position and the required motion parameters of the tracked targets to a fire direction system for use by other kinds of shipborne weapons;
- automatic closed-loop fire adjustment;
- automatic miss distance measuring and sea target correction input;
- meteorological and ballistic preparation, measurement of and allowance for meteorological and ballistic data;
- display and recording of current symbolic and video information;
- crew training against simulated targets with a possibility of firing at a simulator;
- automated performance monitoring and troubleshooting.

The 5P-10E RCS can be used to equip new-build ships as well as replace overage fire control systems for naval artillery of all types previously delivered to the customer.

Lightweight versions of the RCS, 5P-10-02E and 5P-10-03E, have been developed. They offer the basic set of features and significantly reduced weight and dimension characteristics.

Main characteristics:

- Information channels: radar and electro-optical
- Radar channel bandwidth, cm: 3
- RCS coverage:
 - a) circular scan mode:
 - azimuth, deg: 360
 - elevation, deg: - 5 to + 40
 - range, km: < 30
 - b) tracking mode:
 - azimuth, deg: ± 200
 - elevation, deg: - 5 to + 85



- range, km: < 60
- Max number of simultaneously tracked targets: 8
- Detection time (scan period), s: 1,5-10
- Time to make ready for use:
 - from “Off” condition, min: < 3
 - from boost mode, s: 60
 - from “High Voltage Off” condition, s.: 2
- Continuous operation time, hours: 8
- Response time, s:
 - when firing at an air target: < 5
 - when firing at a sea target: < 10
- Time to transfer fire to another target in a 6x3° tracking sector, s: 1

АО «Рособоронэкспорт» – единственная в России государственная организация по экспорту всего спектра продукции, 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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