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## Ranzhir-M1

### Mission:

The Ranzhir-M1 mobile unified battery command post is designed to provide automated operations control of air defence units, including mixed AD units, both at-the-halt and on-the-move, in a variety of geographic areas, climatic and weather conditions.

The Ranzhir-M1 CP can be used as:

- battery command post;
- SAM regiment (battalion) command post;
- mixed AD unit CP.

### Components:

- Automation equipment package is a computer system comprising:
  - four workstations;
  - printer;
  - satellite navigation receiver;
  - digital recorder.
- Communications and data transfer system consisting of:
  - HF/VHF/UHF radios;
  - data security and transfer equipment;
  - voice data encryption equipment;
  - intercom and voice/data switching equipment;
  - wire line protection equipment.
- Power supply system consisting of:
  - two diesel generating sets with a capacity exceeding 8 kW each;
  - a generating set (with a capacity of at least 16 kW) driven by the main engine (PTO generator);
  - rectifying device for converting three-phase 380 VAC power supply to 27 VDC;
  - separate battery pack;
  - primary power supply entry, switching and circuit protection devices, secondary power distribution facilities.
- Life support equipment (air conditioner, heating/ventilation unit, lighting, etc.).
- Set of operational documentation
- Single SPTA set for maintenance and running repair.

For solving tactical problems, preparing and planning engagement operations of a SAM regiment (battalion), MP02RPM command post vehicle with a power plant can additionally be supplied.



## Main characteristics:

- Number of data links:
  - digital real-time radar data: 9
  - operational/tactical information: 4
- Total air targets tracked: up to 255
- Airspace and ground surveillance zone, km: up to 800
- Communication range, km:
  - via radio link during communications with higher CP, BCP, radar: up to 40
  - via field cable during communications with higher CP, BCP, radar: up to 15
  - via radio link during communications with CV: up to 5
  - via field cable during communications with CV: up to 0,5
- Number of workstations,: 4
- including remote ones: 1
- Continuous operation time, h: not less than 48
- Emplacement time, min : up to 5
- Weight (operational condition), kg: up to 14000







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