



UUV CONTROL

COMPLEX OF RADIO-ELECTRONIC ONBOARD SYSTEMS AND EQUIPMENT

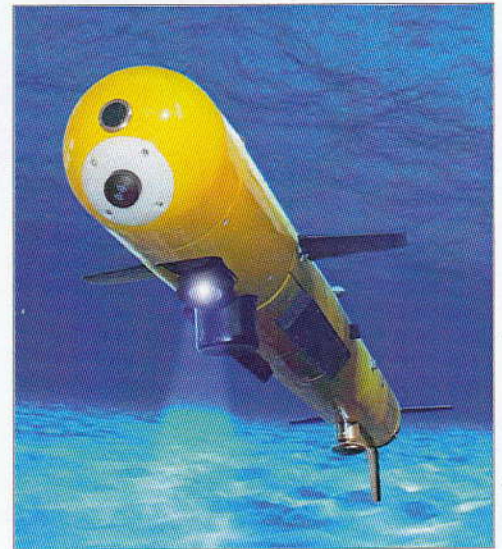
It is intended for equipment of typical unmanned and remote-controlled underwater vehicles (UUV and RCUV) of different purpose with displacement up to 1000 kg, providing underwater technical and research operations on depths up to 1000 m. The complex includes system of UUV spatial motion control, onboard navigation system, system of radio communication and several replaceable functional modules of payload for search and inspection, oceanographic, geological and other operations.

TASKS TO BE PERFORMED

- control of UUV spatial motion;
- UUV information management, processing and displaying;
- determination of UUV coordinates, speed and angles of orientation;
- information exchange between UUV and vessel-carrier over radio channel;
- search and detection of objects on bottom surface, inspection of detected objects;
- bathymetric survey of underwater relief;
- determination of water temperature, salinity, density and sound speed in water.

STRUCTURE

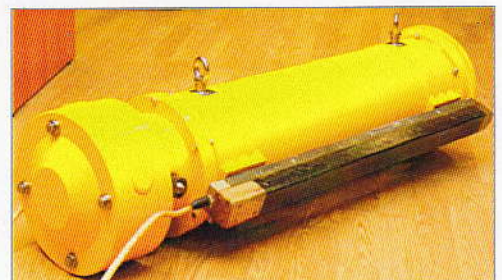
- system of UUV spatial motion control (CS);
- ship system of information management, processing and displaying (SSIMPD);
- onboard navigation system (ONS), which provides determination of UUV coordinates, speed and angles of orientation;
- radio communication system (RCS), providing information exchange between UUV and vessel-carrier (VC);
- replaceable functional module of payload (FMP) for search and detection of objects on bottom surface, inspection of detected objects;
- replaceable FMP for underwater environment mapping, oceanographic research, providing bathymetric survey of underwater relief, determination of water temperature, salinity, density and sound speed in water;
- replaceable FMP for inspection of underwater infrastructure objects.



UUV Concept (Russia)



UUV Concept



Appearance of replaceable functional module of payload