IVA TECHNOLOGIES

Mobile underwater radio complex IVA S/W

Mobile underwater radio complex IVA S/W was developed for voice and data transmission in the sea and fresh water, as well as through the boundary of media (air and water).

Main modules of the IVAS / W mobile underwater radio station are digital transceivers sonar and electromagnetic mustache. Additionally, an underwater communication headset embedded in a full-face mask and communication control controllers are used.

Receive / transmit modes are switched by the PTT on button, on the communication headset.
Connecting wires and overall dimensions of the system make it possible to conveniently place radio station modules in scuba gear.

Additionally, a version of the above-water communication headset is used to accompany
a group of divers from the surface.

Major advantages

- Voice and data transmission over a distance of up to 500 meters;
- Data transmission over a distance of up to 60 m across the media interface (water-ice-air);
- Organization of communication in intermediate layers of water as well as in the coastal zone in the conditions of external disturbance and noise;
- Independence of the communication range from hydrological inhomogeneities (waves, temperature changes, underwater currents);
- Ability to bypass obstacles to the signal propagation (algae, natural and synthetic barriers).

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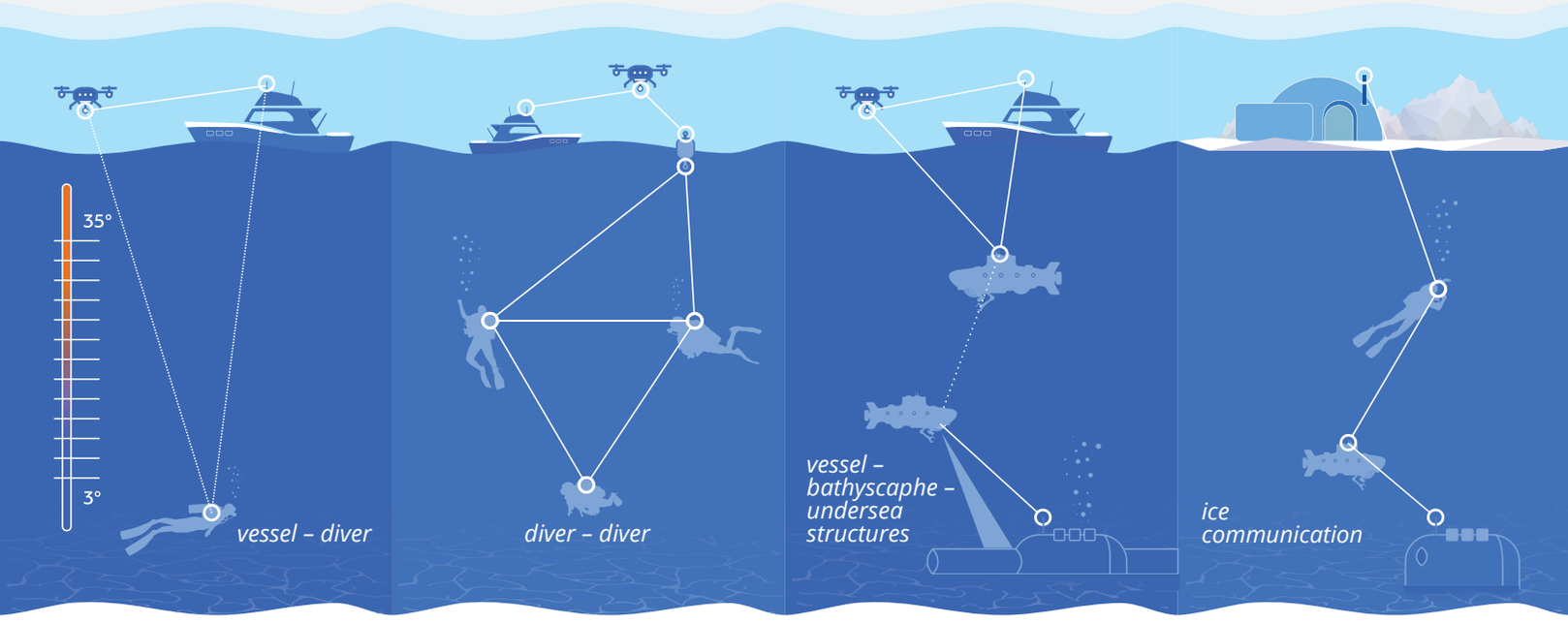
Application diagram



Characteristics

Up 500 m
General Distance

Up to 100 m
Immersion depth

Up to 60 m
Distance with interference and between medias

500x500x100 мм
Size

8 h
Battery run time

4 kg
Weight

The set

- The transceiver unit with 2 different types of antenna;
- Battery charger;
- Full-face mask with a communication typeface;
- Documentation (passport, operation manual).
- Additionally, it can be completed with a standard headset.

Possible applications

- Shelf research and investigation of new under water mineral deposits;
- Arctic development;
- Monitoring of the situation in coastal zones;
- Repair, technical. maintenance and modernization of stationary underwater structures;
- Prophylaxis and prevention of emergencies in the oil/gas production areas;
- Development of underwater unmanned vehicles;
- Protection of the water-naval bases;
- Communication in the reconnaissance group of combat swimmers.