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AUTONOMOUS HYDROACOUSTIC RECORDER

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The use of cable communication lines in a hydroacoustic experiment is associated with large labor costs, and is often impossible for technical or methodological reasons. In addition, in the tasks of controlling the noise emission of a moving test object, the acoustic environment in its near field usually remains unknown. This problem can be solved by using autonomous receiving systems in a natural experiment, a number of which are on the market. The article discusses the possibilities of application and characteristics of the hydroacoustic recorder developed by the authors based on a digital voice recorder as a functionally complete element of the acoustic path. The recorder in stereo mode provides long-term recording of signals from two hydrophones and is additionally equipped with an immersion depth sensor with separate recording on SD - carrier. The use of digital voice recorders in the implementation of a series of autonomous hydroacoustic recorders makes it possible to simplify the technology and reduce the cost of their manufacturing process, as well as to ensure the identity of the technical characteristics within the manufactured batch.

Key words: acoustic recorder, hydrophone, digital voice recorder.

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