

ABSTRACT

The present invention provides a search and rescue terminal device based on Beidou, AIS and underwater acoustic technology, which comprises: a satellite positioning communication module based on a Beidou satellite positioning system; an AIS module; an underwater acoustic transduction module; a pressure sensor; a microprocessor and a power module, wherein the microprocessor is used for forming a distress message according to a satellite positioning signal and transmitting the distress message through the satellite positioning communication module or the AIS module; and the microprocessor is further used for, when it is judged that the current water depth of the search and rescue terminal device reaches a predetermined water depth according to a pressure collection signal, controlling the satellite positioning communication module and the AIS module to be in a non-working state and controlling the underwater acoustic transduction module to generate an acoustic signal, or otherwise, controlling the underwater acoustic transduction module to be in the non-working state and controlling the satellite positioning communication module or the AIS module to be in a working state. The present invention enables rescue workers to know the specific location of the search and rescue terminal device through multiple channels as soon as possible, and further improves the search and rescue terminal device, so as to increase the rescue efficiency and the rescue success rate.

Figure. 1