

The present invention can be used in oceanographic research. The proposed side-scan sonar device provides the processing of acoustic signals that are reflected from the seabed. According the invention, short sounding pulses are used for sonar within the near-field zone of the device, and main sounding pulses are used for sonar within the whole distance range of the device. From the results of the processing of the acoustic signals reflected from the seabed in reverberation, two data sets are produced - the data set corresponding to the short sounding pulses for sonar within the near-field zone and the data set corresponding to the main sounding pulses. The said data sets are combined by superimposing the data set corresponding to the short sounding pulses for sonar within the near-field zone on the area where the reflected acoustic signals that correspond to the main sounding pulses are suppressed by the automatic gain control system of the sonar device. The present invention provides the possibility to improve the resolution of the side-scan sonar device in sonar within the near-field zone of the device.