

Marine sensing needs vary wildly, so we designed the AcSense electronics and software system to be flexible and extensible, for rapid and low-cost integration over a variety of applications. With the addition of AcModules, the AcPinger, and AcSample systems we have a wide base of in-house designs for faster prototyping and integration of new concepts. Below are just a few of the many semi- or fully custom sensing, logging and streaming systems we have integrated for customers since releasing the AcSense in 2023.

AcLocalize-Ropeless: AcPinger on pots and a towed tetrahedral array to deckbox containing AcSense and computer on fishing vessel for one-way travel localization of pot strings with fishing id decode.



AcSense-16CH with Acomms: 16 channel moored array systems with WHOI micromodem, Ping echosounder,



Pinger depth visualization: show user depth of towed net or system with AcPinger on the net and a 1-channel hydrophone on tow body talking to AcSense on fishing vessel.



27x DO: Subsea 27 dissolved oxygen sensor logging with camera, temperature/pressure tethered to surface bottle for iridium data summary offload.



Turtle tag systems: AcSense-mini systems with and without cameras for use in soundscape recording on turtle tags.



AUV and ASV passive localization systems: AcSense-OEM streaming using open source ROS application for multiple AUV and ASV customers.

Soundscape and surface recording systems: 6 channel soundscape recording system with pressure/temperature, up-looking camera and up-looking single-beam echosounder.