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# Float Collar User Guide

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Version 1.0



# Float Collar

The icListen Float Collar was created by Ocean Sonics to deploy icListen hydrophones with ease. The mid water float can provide protection for the icListen as well as positioning the hydrophone a set distance above the seafloor with the use of a 10 kg anchor. If the float collar is bumped, it will sway and then return to a resting position. The float collar is designed to be quiet, preventing undesired noise.

## To Use –

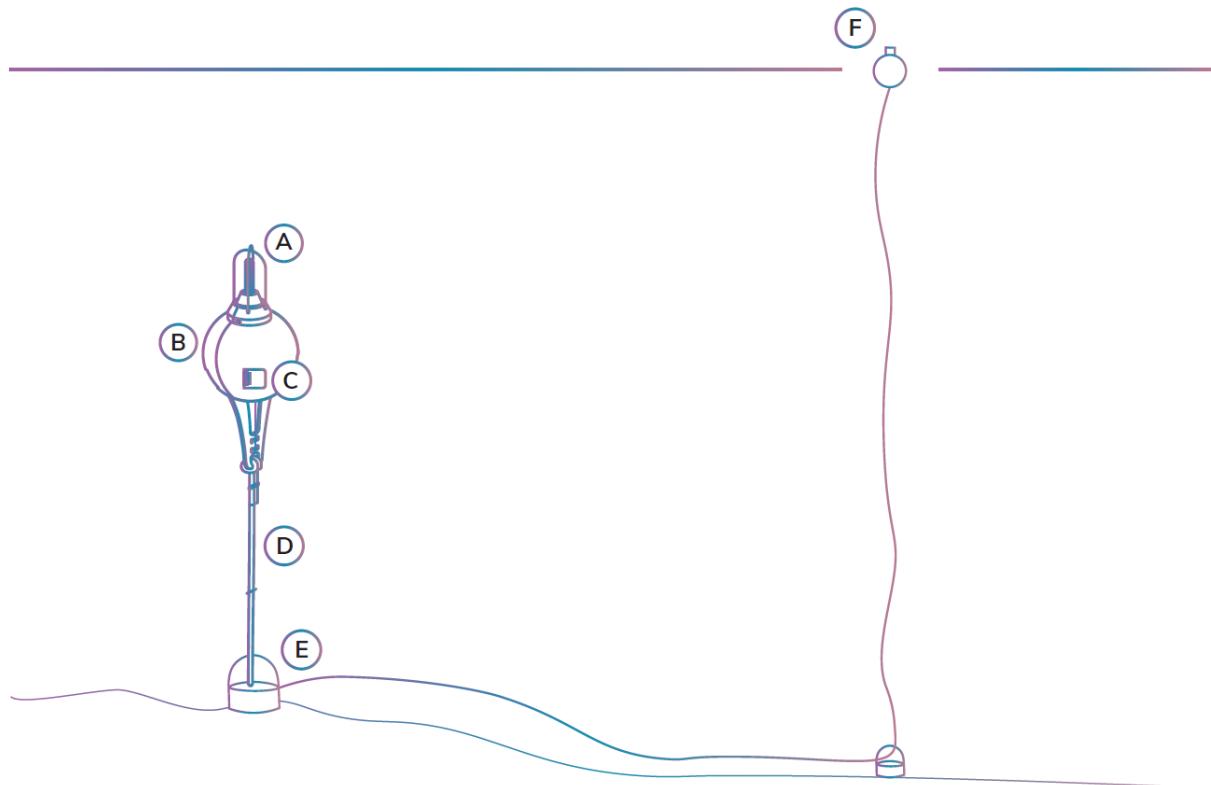
1. Place the float collar on a flat surface.
2. Unscrew nuts and bolts using a 6-point socket or wrench. [3/8 bolt]
3. Remove the nut and bolt from both sides.
4. Separate the two halves of the float collar and place the side with the metal on the flat surface.
5. Place the icListen [with guard] in the float collar with the metal surface.
  - a. If a guard is being used, place it on the icListen at this time and ensure it has a good fit with the float collar.
  - b. Attach cable or shorting (dummy) plug for deployment.
  - c. Line up the grooves in the body of the icListen with the float collar.

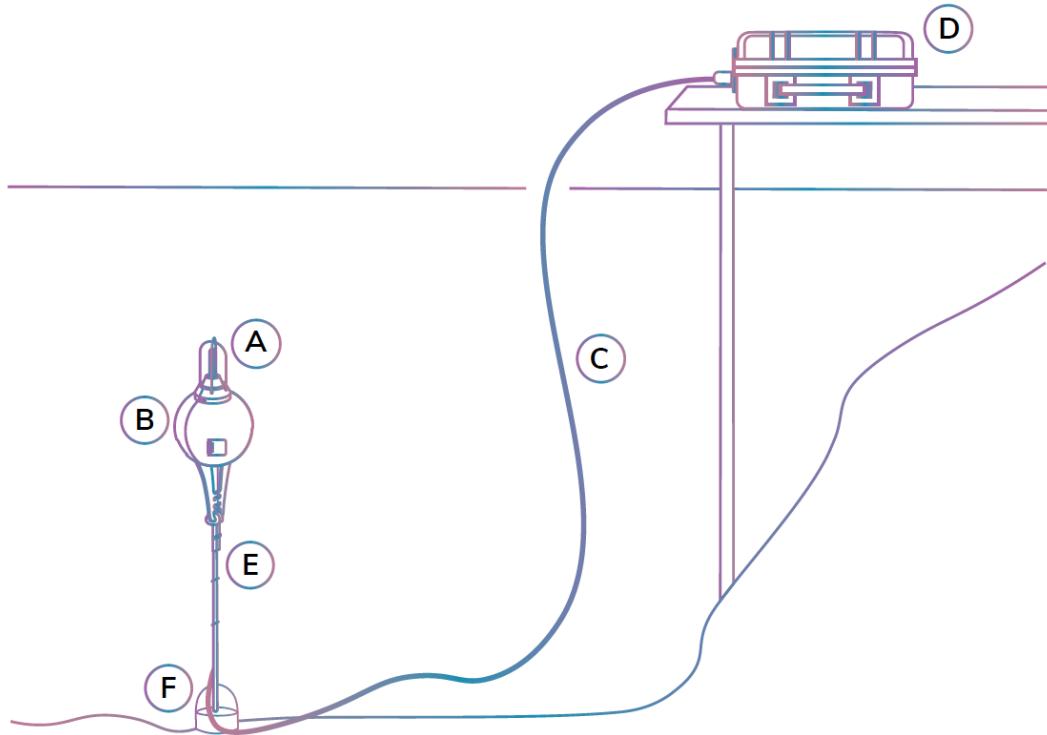


6. Return the other half of the float collar, placing it on top of the icListen.
7. Screw the nuts and bolts back into place to secure the icListen for deployment.

### Deployment Notes

- For best sound data, do not connect the surface float directly to the hydrophone, this causes noise and movement from the surface to be recorded by the icListen.
- Use a second weight and a surface float to decouple the noise from the surface. Increase the length of the rope to add a second weight at least 1 meter from the first weight and attach the surface float to the secondary weight.
- Ensure the hydrophone's battery is at 100% before deployment.
- Attach the shorting plug to protect the icListen connector.
- The rope length from the second weight to the surface float must be greater than the depth of the deployment location.





#### Equipment Required

A. icListen with guard	D. Launch Box or Test Cable
B. Float Collar	E. Rope
C. Extension Cable (at least 2x water depth)	F. Weight / Anchor (5-10 kg kettlebells)

#### Setup

1. Insert the icListen into the float collar with the cable attached.
2. Close and secure the float collar for deployment.
3. Use a cable tie to secure the cable to the float collar. Tape can be used around the metal of the float collar or the cable itself to reduce possible damage to the cable.
4. Tie off the end of the rope to the float collar.
5. Run the rope from the float collar to the anchor and tie off the rope at the required height above the sea floor.
6. Use cable ties to attach cable to rope between float collar and weight.
7. Deploy equipment and collect real-time data.