ALTO Mooring System

Acoustic Long Term Observatory



Product code: ALTO

The ALTO mooring system is a self-contained bottom lander for autonomous multisensor ocean observing. The robust polyethylene lander has three deep sea glass sphere floats and redundant acoustic releases that attach it to a sacrificial anchor for easy recovery. Along with an AMAR G4 Ultra Deep and external battery pack, there's ample space to add as many off-the-shelf sensors as you need for multivariable data collection.

The ALTO has been tested and refined over numerous deployments. With a single lift point it's simple and safe to deploy, just lift and drop and the ALTO lands upright on the seabed.

BENEFITS

- Large sensor payload
- Directional acoustics
- Freefall deployment
- Stable in high flow

APPLICATIONS

- Population density estimation
- Ecosystem studies
- Long term ocean observing
- Deep sea acoustic and biologic measurements





Ask us about the ALTO that was dragged 2.5 km and kept collecting data

SPECIFICATIONS

Depth: 3500 m

Standard equipment payload: AMAR G4 Ultra Deep w/ 128 D cells

AMAR UD Battery Sphere w/ 208 D cells

2 × PORT LF Acoustic Release Apollo Iridium beacon

Omnidirectional hydrophones Acoustic sensor options:

50 cm tetrahedral hydrophone array

Directional hydrophones

Additional sensor options:

Fish tag loggers, dissolved oxygen, CTD,

ADCP, AZFP, acidity/pH, others upon

WLL: 775 kg (5:1 safety factor)

360 kg Max. anchor weight:

Simple deployments

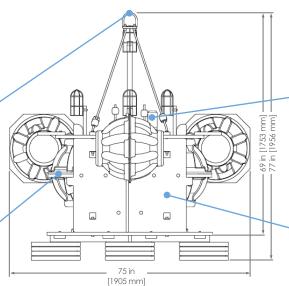
Single lifting point

Just lift and drop and the ALTO lands

upright on the seabed

Long term

AMAR G4 with 10 TB memory and powered by 336 D-cell batteries for year long deployments



Complete ecosystem data

Houses as many sensors as you need High-bandwidth directional acoustic data

Rugged and ultra deep

High-density polyethylene frame protects the sensor payload within

Protective cages surround the hydrophones

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