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AcoRe 8-16k

Acoustic Release System

Description

The AcoRe 8-16k is an acoustic release system developed by Ocean Physics. It can work with rangefinders, ultra-short baselines or other acoustic systems to achieve positioning, communication and release functions. Adopting advanced broadband signal technology and low power consumption design, it features long operation range, long battery time and heavy working load.

AcoRe consists of acoustic transducer, deck topside and release beacon, adopts advanced broadband signal processing technology, and integrates release, positioning and navigation, communication and other functions, and can work with other positioning system. It can be used in the fields of energy, security and scientific research for anchoring mooring system, underwater sensors, underwater structures, etc. It has low power consumption, heavy working load and easy integration, which provides a solid guarantee for subsea operations.

Application

- Subsea Structure Installation
- Deepwater Sensor Mooring
- Subsea Positioning
- Subsea Communications

Features

- **Response Function**

  AcoRe receives interrogation signals from the ship's deck topside and transmits a reply signal to assist the ship's deck unit to measure the range between them.

- **Release Function**

  AcoRe receives the release command from the shipboard deck topside, performs decoupling release, and gives feedback on the success or failure of the release.

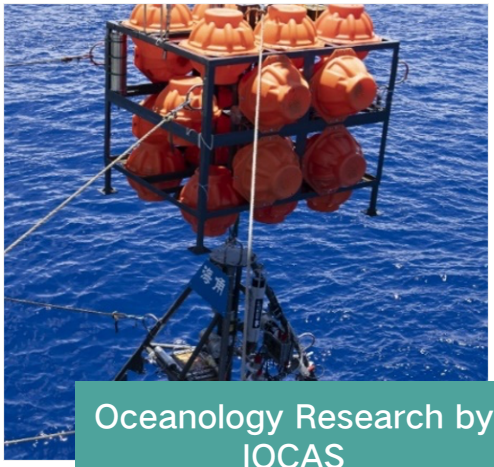
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Datasheet of AcoRe 8-16k

Technical Specifications	
Transmit Source Level	185 ± 3dB
Operation Range	8000 m
Transducer Beam Shape	Hemispherical
Depth Rating	6000 m
Power Supply	Built-in Battery
Battery Life	No less than 24 months
Mechanical Specifications	
Dimension	Φ14 cm x 110 cm
Weight	40kg in air, 33kg in seawater
Working Load limit	No Less than 2000kg



Oceanology Research by IOCAS



Wanquan Full-ocean-depth Lander



Recovery of Seabed Mine Detection system



Recovery of one O&G subsea equipment

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