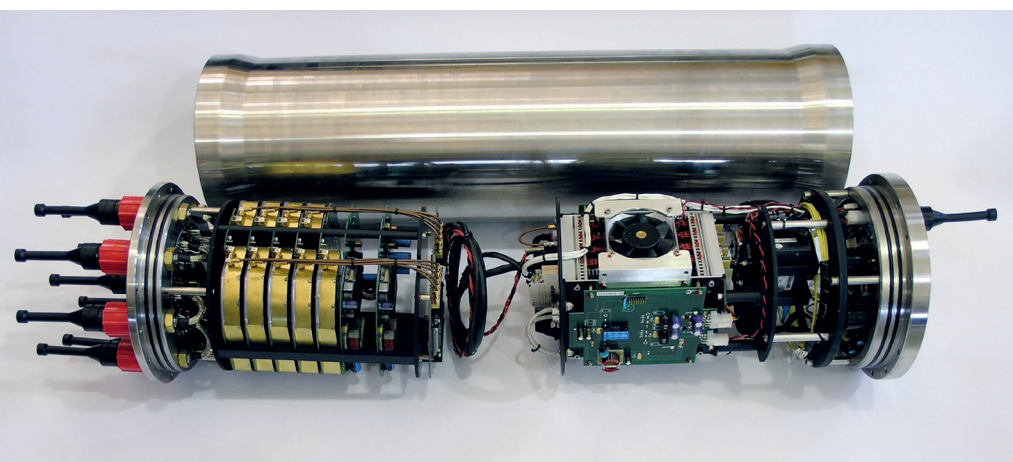
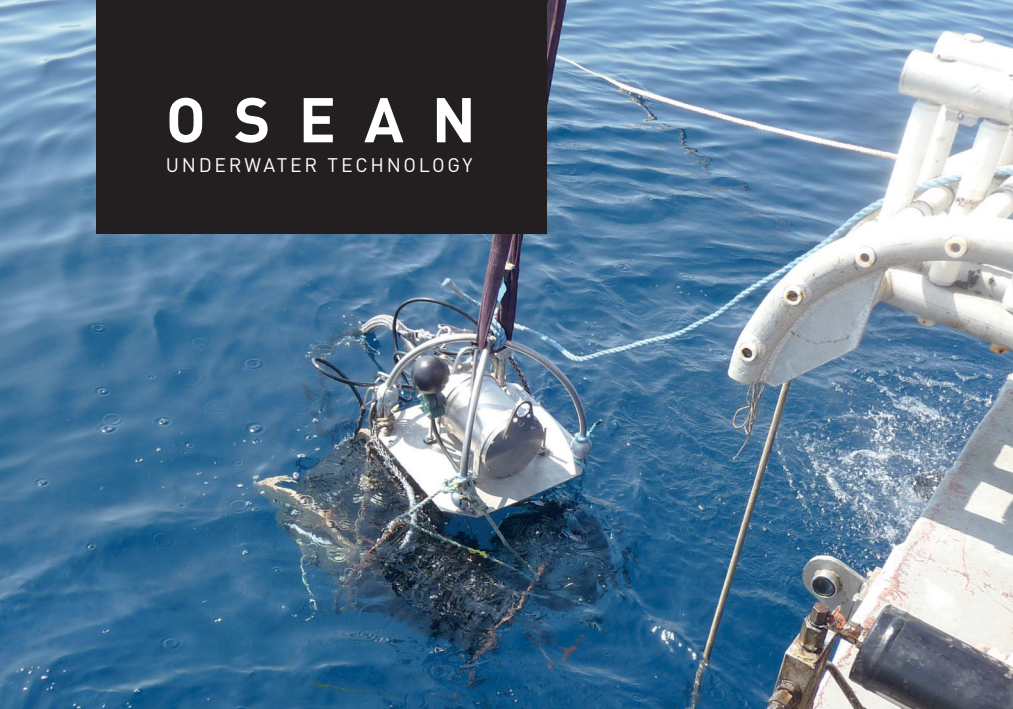


# OSEAN

UNDERWATER TECHNOLOGY



## MEASUREMENT STATIONS

Underwater Acoustic Measurements Station,  
Underwater Magnetic Measurements Station,  
Multi-Sensors Ocean Observatories

### DOMAINS

- Defence Underwater Signature Measurements
- Defence Underwater Tracking
- Oceanographic Research

### FEATURES

- Continuous Streams of Data
- High Rate Data Transfer
- High Quality Measurements
- Fully Operational to 2500m deep
- Advanced Communications Network: Scientific Instruments with Power Supplies, Storage capabilities, Ethernet connections.

OSEAN SAS - ZAE La Bayette - 83220 Le Pradet - France  
Tel: +33 (0)4 94 03 65 84 - Fax: +33 (0)4 94 66 62 32 - [www.osean.fr](http://www.osean.fr) - [info@osean.fr](mailto:info@osean.fr)

Simplified joint stock company with registered capital of 77000€  
451 128 755 R.C.S. TOULON - SIRET 451 128 755 00035 - APE 2612Z - TVA CEE FR 82 451 128 755

# TECHNICAL SPECIFICATIONS

## UNDERWATER DATA ACQUISITION SYSTEM

9 Hydrophone Channels.

Programmable gain control and filter.

9 synchronous ADC 16bit /  $F_s=200\text{kHz}$ .

Irig-B time sync, Fiber Optic Data transmission.

Maximum Depth 100m (6000m Optional).

Applications: monitoring, surveillance, tracking, metrology.

## UNDERWATER LISTENING AND MEASUREMENT STATION

1 vertical line hydrophones array, 5 hydrophones (MF and HF).

1 underwater acquisition hydrophones unit.

Underwater electrical/optical cable.

Maximum depth 1000m (6000m Optional).

Applications: ships and submarines acoustic noise measurements.

## UNDERWATER FULL ANALOG LISTENING STATION

6 Hydrophone Channels.

2 underwater acquisition hydrophones units.

2 underwater electrical cables.

On shore control, display Rack unit and power supply.

Maximum Depth 100m (6000m Optional).

Applications: Navy ships acoustic noise measurements even levels below "zero Sea State".

## UNDERWATER MAGNETIC AND ELECTRICAL FIELDS MEASUREMENT STATION

Magnetic Field: 3 sensors 3 axes,  $\pm 70\mu\text{T}$ , 0 to 3kHz.

Electrical Field: 5 sensors 3 axes,  $\pm 10\text{mV/m}/\sqrt{\text{Hz}}$ , 0 to 3kHz.

Underwater electro-optical cable, up to 10Km long.

Maximum depth 100m.

On shore control, display rack unit and power supply.

Applications: Navy ships Magnetic and Electrical Fields signature measurements.