

# Acoustic Deterrent Device

Seiche provides the Lofitech Acoustic Deterrent Device (ADD), a highly effective system that can be employed to discourage marine mammals from approaching an area where man-made sound such as construction or exploration may cause impacts to marine mammals.



Warning away seals, porpoises and dolphins ensures the animals' wellbeing and enables commercial operations to continue. The system consists of a simple to install and operate control unit and transducer which can be conducted by on-site employees with full support and guidance from our experts. The ADD includes remote activation capabilities.

The control unit contains a pulse generator and an amplifier to transmit random bursts of audio frequency signals to the transducer – this is then converted into sound. The ADD transmits 191 dB/ $\mu$ Pa/m at an optimal frequency – between

10 and 20 kHz – for deterring marine mammals. Output can be calibrated to deter specific mammals, and also meet the appropriate government or authority regulations. The ADD operates on a rechargeable battery system, lasting 3-4 days between charges.

In some areas, the use of ADDs is now mandatory during marine construction, and Seiche will be able to advise you when discussing your project.

## Applications

- + Aquaculture
- + Fisheries catch projection
- + Marine mammal mitigation applications;
  - UXO clearance
  - Offshore renewables
  - Oil and Gas
  - Marine construction
  - Dredging operations

## Specification

Range: 300m radius from source

Transducer cable length: 100m

Battery: auto-marine 12V with 90-120Ah

Power consumption: approx. 0.4A/12V

Waterproof self-contained unit: 60cm x 30cm x 40cm