



Subsea Battery Pack

Battery Packs Made Simple

The Ocean Sonics Subsea Battery Pack is easy and safe to use thanks to its new smart design. It is perfect for a wide range of ocean instruments.

The Ocean Sonics battery pack is unique in the way it is serviced. Safely remove the endcap, even if it has set into place from high water pressure. Two levers in the end cap swing out activating a cam that pushes the end cap away from the battery body. The operator stands in a safe position while releasing the end cap, even on a small vessel.

Standard depth ratings are 200, 900, and 3500 m.
Standard connectors are MCBH-8F.

Key Features

- Safe and easy to use
- Field changeable 'D' size batteries
- Battery configuration easily changed from alkaline to lithium
- Power any 24 V instrument
- 30 to 90 day endurance

Options

Digital Hydrophone Recorder with 2 GB SSD
Multi ports (up to 5)
Autonomous Array recorder

How to Open the Battery Pack



Step One
Stand upright



Step Two
Swing handles to release endcap



Step Three
Pull up on the guard to remove electronics



THREE DEPTH OPTIONS



200 m

Engineered Plastic & Glass Fibre

900 m

Anodized Aluminum & Glass Fibre



3500 m

Titanium and Glass Fibre

OceanSonics.com



Safety Features
(applies to the -B3 configuration)

1. Lithium models equipped with pressure release valve to protect against accidental overpressure from battery venting.
2. Reverse bias protection to prevent accidental charging of batteries
3. Each cell stack individually protected against reverse bias or population with cells at different charge states.
4. Undervoltage and overvoltage detection and lockout ensures series connection for Alkaline cells and parallel connection for Lithium cells.
5. User-selectable switch for series / parallel connection.
6. Overcurrent / Short circuit protection



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Autonomous Array Recorder

Create an autonomous array using multi-port battery packs. The icListen Smart Hydrophones self-synchronize when connected together. Packs for 30 or 90 days for single channel units are available. See chart below for endurance with arrays. Note that these are typical endurance.

Specifications

	Alkaline	Lithium Primary
Nominal Voltage (range)	28 V (15 to 29)	22 V (18 to 25)
Battery Capacity	1500 Wh	4500 Wh
Depth Rating (extended)	200 m, 900 m, 3500 m	900 m, 3500 m
Number of Connectors	1 to 4	1 to 4
Weight Empty	16 kg	16 kg
Weight Full	26 kg appr.	23 kg appr.
Weight Full in Seawater	9 kgf appr.	7 kgf appr.
Overall Length	70 cm	70 cm
Outside Diameter	18 cm	18 cm
Number of Batteries	72 'D' cells	72 'D' Cells



Tripod Mount
up to 4 hydrophones
with battery pack

Battery Pack Endurance (days)

Channels	Alkaline	Lithium
1	30	90
2	15	42
3	10	26
4	7.5	19

Notes:

1. Do not mix battery types, for example from different manufacturers, or different chemistries.
2. The pack should be vented before opening to ensure excess pressure does not cause injuries. This is done by turning the vent plug.
3. Replacement O rings, and foam cell battery guides are available.

