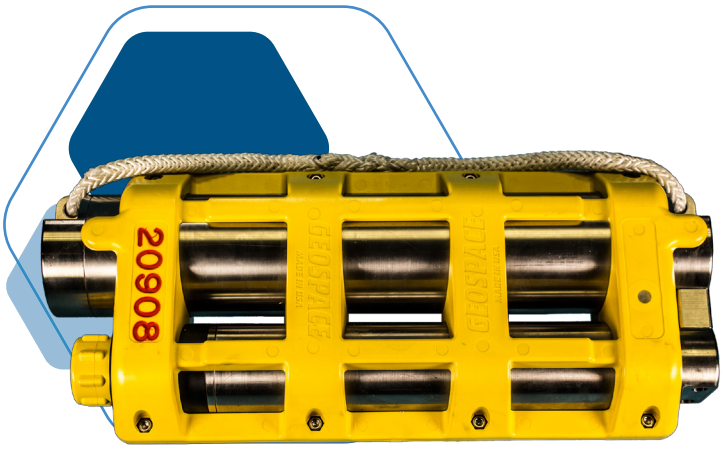
OCEAN BOTTOM RECORDER

CONTINUOUS CABLE-FREE 4C AUTONOMOUS RECORDING



PRODUCT DESCRIPTION

The OBX-90 is designed for extended-duration seabed ocean bottom seismic data acquisition. Nodes can be deployed in depths exceeding 3,400 meters with continuous recording for up to 100 days.

FEATURE HIGHLIGHTS

- Battery module: 90 days operation
- Built-in full resolution test generator
- Solid-state flash memory: 16 GB per channel
- CSAC clock

OBX-90

MECHANICAL SPECIFICATIONS

HOUSING	METRIC	US
Length	500 mm	19.7 in
Width	215 mm	8.48 in
Height	111 mm	4.38 in
Weight in Air	17.0 kg	37.5 lbs.
Weight in Seawater	9.9 kg	21.8 lbs.
Maximum Operating Pressure	34.5 MPa/345 Bar	5,000 psi
Maximum Operating Depth	3,450 M	11,316 ft
Operating Temperature Range	–5°C to +35°C	+23°F to +95°F
Storage Temperature Range	–10°C to +40°C	+14°F to +104°F

ELECTRICAL SPECIFICATIONS

Digitized 4C Recording Station	4 Channel, 24 Bit A/D Digitizer 3C Orthogonal oriented GS-One OMNI 15 Hz Geophones 1 DEEPENDER Hydrophone
Digitization	24-bit Delta-Sigma
Sample Interval	0.25, 0.5, 1, 2, 4 ms
Pre-amplifier Gains	0, 6, 12, 18, 24, 30, 36 dB
Maximum Input Signal	1.8 Vrms
Equivalent Input noise (@2ms sample interval)	0.17 µVrms
Gain Accuracy	Better than 1%
Anti-alias Filter	83% Nyquist
Instantaneous Dynamic Range	124dB @ 2 ms sample interval
THD	<0.2%
Distance Between Digitizer & Farthest Sensor	<18 cm
Distance Between All Sensors	<13 cm
Flash Memory	16 GB per channel
Frequency Response	1 Hz – 1650 Hz @ ¼ ms sample interval
Battery Module	90 days operation

SOLUTIONS FOR A SMARTER FUTURE

Specifications subject to change at sole discretion of Geospace Technologies.