

Seismic Data Channel

4C

ADC Resolution

24 bit Delta Sigma

Sample Interval

0.5ms, 0.25ms, 1ms, 2ms, 4ms

Preamplifier Gain

Programmable 0dB to 42dB in 6dB steps

Low Cut Filter

None

Anti-alias Filter

- 206.5Hz @2ms, 413Hz @1ms
- Linear Phase or Minimum Phase

Operating Temperature Range

-10°C to +45°C

Operational Autonomy

120 Days @ 24 Hrs/day

Weight

15.85Kgs

Dimensions

494 mm x 312 mm

110 - Thickness

Battery

- 55.8 Ah 3-Series Li-ion (602Wh)
- Charge Temperature Range:
0°C ~ +45°C
- Cycle Life: > 300 cycles to 70%

Acquisition Channel

@2ms sample interval, 25°C, 31.25 Hz

- Maximum input signal: 1768 mVrms @0dB
- Total Harmonic Distortion: 0.0001% @31.25Hz
- Instantaneous Dynamic Range: 127dB @2ms
- System Dynamic Range: 148dB
- Equivalent Input Noise:
 - 1500 nV @0dB
 - 400 nV @12dB
 - 160 nV @24dB
- Gain Accuracy: 0.25% unit to unit
- Input Impedance: 100k Ohm
- Timing Accuracy: +/- 1 milli-second @30 days

Instrument Test

Internal Noise, Total Harmonic Distortion, Impulse Response

Sensor Test

Resistance, Impedance, Noise, Damping
Natural Frequency

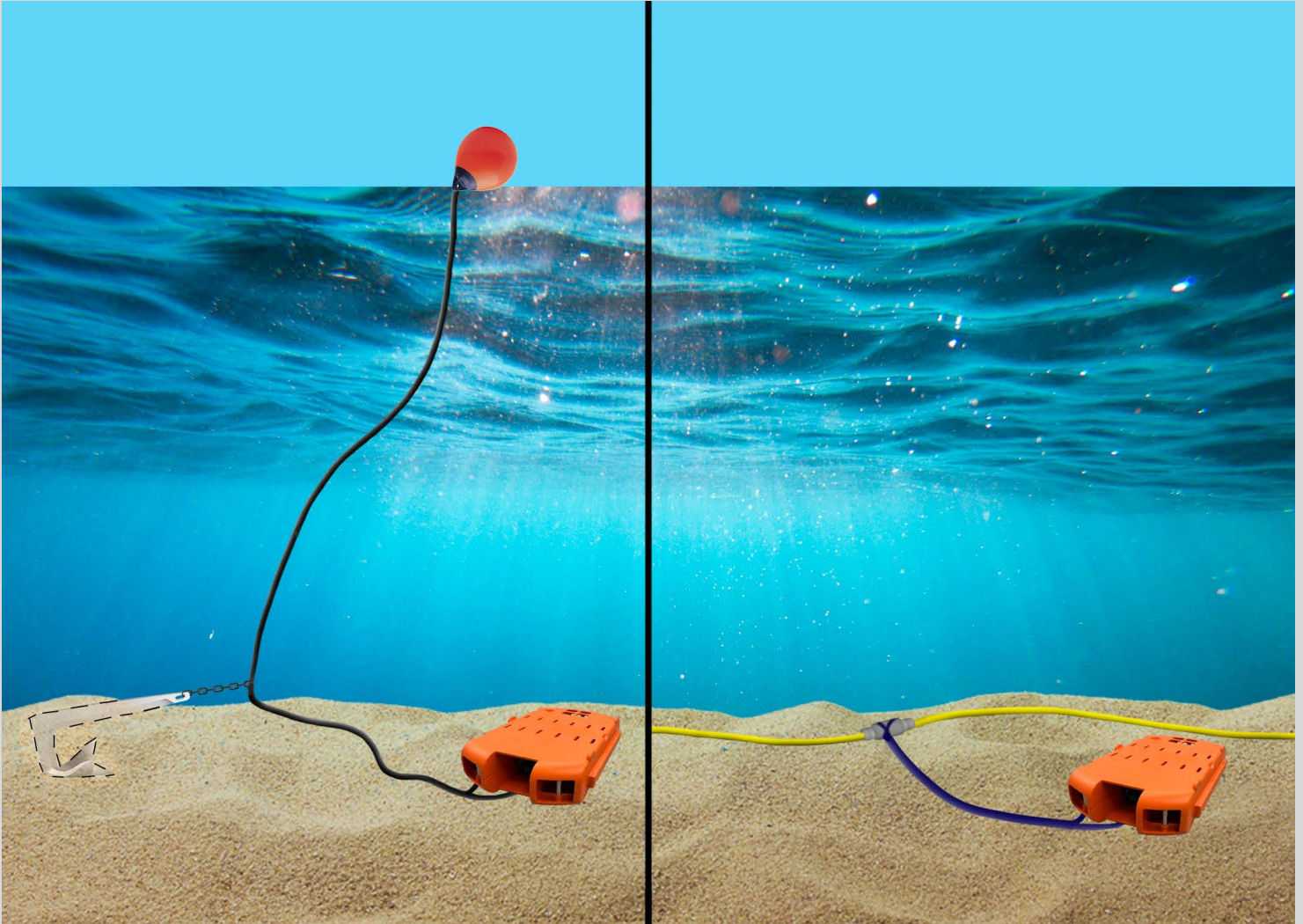
Sensors (Internal)

- 3 Orthogonal Geophones, 1 Hydrophone
- 14 Hz (-7%/+13%) / 10 Hz (+/-10%)
- 39 V/m/s (-14%/+6%) / 14V/bar (+/-15%)
- Other geophones available upon request

Memory

64 GB or 128 GB

NuSeis™ NRU OB4C™ Deployment



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