



S-Boom System

Key features

- Deep penetration seismic surveys with ultra-high resolution data quality, better than 0.25 m
- Three AA252 boomer plates provide a single, focused beam pattern
- Deployed with fast-charging CSP-Nv for optimum results
- Maximum energy output of 1000J per pulse, firing at 3 pulses per second
- Can be used with single and multi-channel streamer hydrophone arrays
- Perfect UHR package for research, mapping and construction geological surveys.

Applications

- High and Ultra-High Resolution coastal geophysical surveys
- Single and multi-channel acquisition
- Suitable for freshwater or low salinity surveys
- Water depths of 5 to >1000 m

S-Boom System Overview

The S-Boom system has been designed to provide a high power, high resolution, repeatable sound source, that can be operated at fast repetition rates.

The three plate (AA252) source array geometry, focuses sound energy into a directed beam pattern; resulting in a substantial improvement over traditional boomer sources.

The S-boom is capable of shot energy up to 1000 J and provides an excellent coastal/deep-water alternative for surveys where sparkers are unsuitable or undesirable.

Technical Specification

PHYSICAL

Catamaran

Dimensions	1806 (L) x 554 (H) x 650 (W) mm frame / 1467 mm (W) including floats
Weight	120.4 kg (Catamaran + 3 AA252s in air)

Boomer Plates

Boomer plates (x3)	AA252
Dimensions	380 (L) x 380 (H) mm
Weight	20.7 kg (air), 10 kg (water)
Connector type	RMK 1/0 complete with locking collar

ELECTRICAL INPUT

Typical operating energy	700 – 1000 J (maximum) per shot
Average energy	3000 J / second
Operating voltage	3600 to 4000 V DC
Power Supply	CSP-Nv1250, CSP-Nv2400, CSP-SNv1250
HV Supply Cable	HVC3000

Thermal interlock protection interfaced to energy source

SOUND OUTPUT

Source level	Typically 222 dB re 1µPa at 1 meter with 1000 J
Pulse length	300 to 500µs depending on energy applied
Reverberation	<10% of initial pulse

TYPICAL PULSE SIGNATURE AT 1000J

