APPLIED ACOUSTICS
Underwater Technology

Applied Acoustic Engineering Ltd
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Delta Sparker Seismic Sound Source

The Delta Sparker is the most powerful sparker available in the Applied Acoustics' range and is intended for deeper penetration sub-bottom profiling.

As a multi-tip sparker array, the Delta can be used in UHR multi-channel seismic surveys utilising 24 or 48 channel streamers such as during geohazard assessment, construction projects or shallow target 2D exploration.

Different sparker tips, single or multiple arrangements, can be used to increase resolution or penetration as required.

Key Features

- Powerful sparker for deep penetration surveys
- 1000-12000J, compatible with CSP-D2400 and CSP-S
- 2.5m triangular tow frame, supplied with buoys
- Tow depth can be adjusted
- Replaceable electrodes for easy field maintenance

Technical Specification

PHYSICAL

Dimensions	2550mm (L) x 350mm (W) x 250mm (H) (can be split in two for ease of shipping)
Weight	50kg approx
Frame material	Stainless steel
Buoyancy	FA6 floats x 2
Depth of tow	Adjustable
Connector	RMK 1/0 complete with locking collar

ELECTRICAL INPUT

Recommended energy	1500 – 12,000J/shot
Maximum energy	12,000J/shot
Operating voltage	3000-4000V

Delta Sparker, Technical Specification continued…

Number of tip locations	3 (yellow, blue, red) Operator selectable
Maximum number of tips	9 single: 3(3 x 1) 135 multi-tip: 3(3 x 15)

SOUND OUTPUT

Source level	Typically 226dB re 1µPa at 1 metre with 6000J
Frequency range	300Hz – 5kHz
Pulse length	0.3 – 5.0ms Dependent on tips and power applied
Penetration	800ms achieved

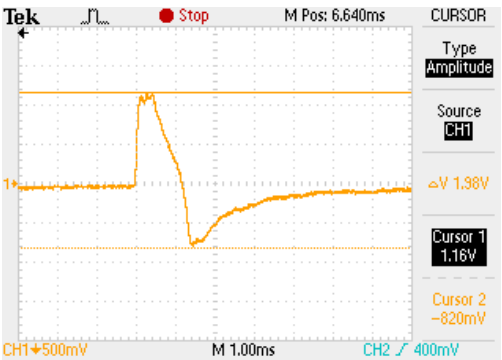
COMPATIBLE ENERGY SOURCES

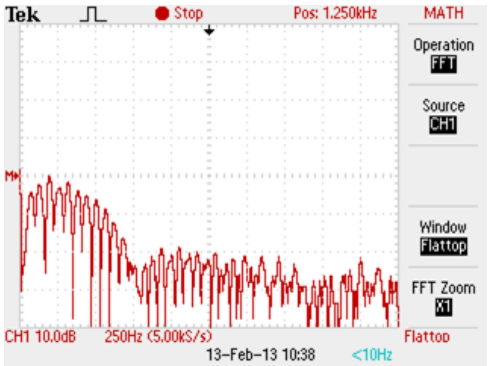
Delta Sparker	CSP-D to 2400J CSP-S to 12000J

COMPATIBLE HV CABLE

Delta Sparker	HVC 3500 Standard length 75m RMK 1/0 connectors complete with locking collars

TYPICAL PULSE SIGNATURE AT 12000J





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Due to continual product improvement, specification information may be subject to change without notice.
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