APPLIED ACOUSTICS
Underwater Technology
An AAE Technologies Group Company

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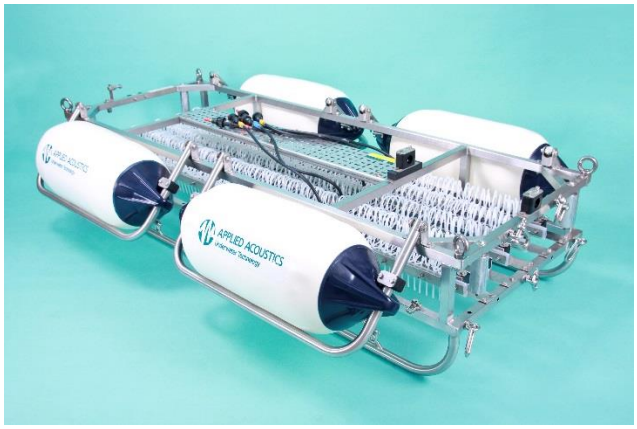
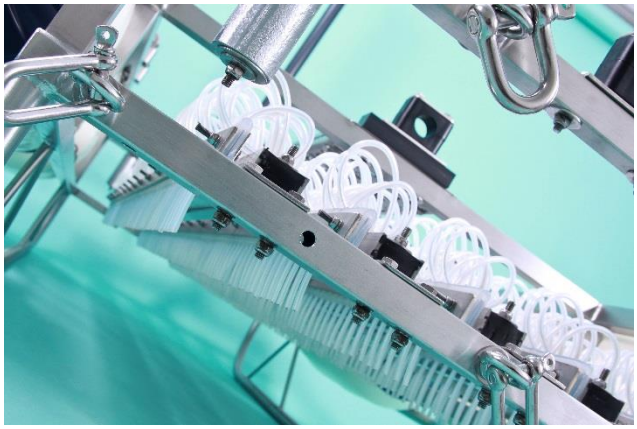
United Kingdom

Dura-Spark UHD, Seismic Sound Source





Key Features

- Long life, durable electrodes
- Pulse stability
- High resolution sub-bottom data, up to 25cms
- Tip array selection from on board junction box
- Flip-flop capability
- GNSS receiver option (101G MiniPod)

Applications

- High and Ultra-High Resolution geophysical surveys
- Single and multi-channel acquisition
- Water depths of 5 to >1000m

The Dura-Spark UHD has been designed to provide a stable, repeatable sound source for sub-bottom geophysical surveys. The long life, durable electrodes produce a consistent pulse signature and keep operational maintenance to a minimum. This provides increased survey efficiency and equipment reliability as the sparker tips rarely need replacement.

The Dura-Spark UHD consists of either 5 or 3 arrays of 80 tips that allow the operator to tune the source from the vessel to its application. This flexibility, together with selectable source depth, allows the sound source to be used in both shallow and deep waters.

The typical operational bandwidth of the Dura-Spark UHD is 300Hz to 1.2kHz. When coupled with the CSP-Nv Seismic Power Supply the system offers 2000J/s peak discharge rate, as well as industry leading design and safety standards.

Dura-Spark UHD Technical Specification

PHYSICAL

Dimensions	Length 1893mm Height 372mm frame, 622mm including floatation Width 650mm frame, 1280mm including floatation
Weight	130kg (max)
Connector	RMK 1/0 complete with locking collar

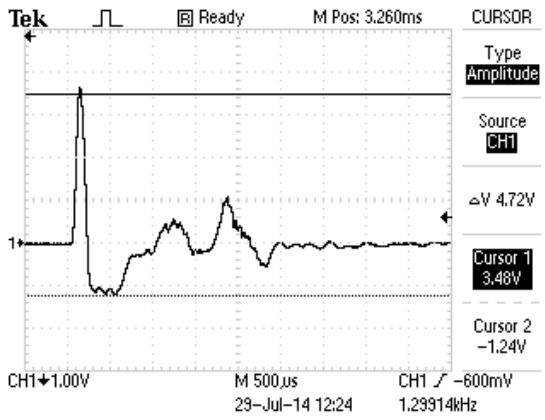
ELECTRICAL

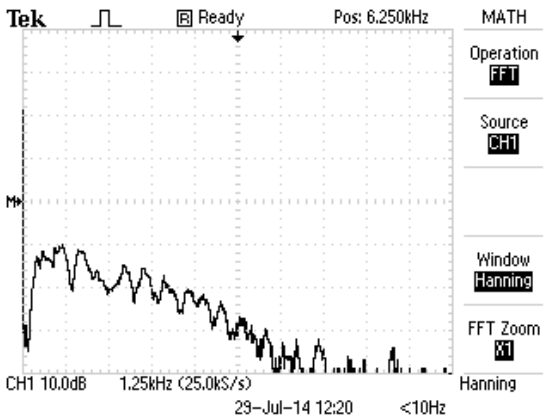
400 tip	2000J, 5J per tip to minimise bubble collapse component, 2400J maximum
240 tip	1000J, 5J per tip to minimise bubble collapse component, 1250J Maximum
Operating voltage	3000-4000V
Maximum number of tips	400 (5 x 80), 240 (3 x 80)
Power supply	CSP-Nv1200, CSP-Nv2400, CSP-SNv1250

SOUND OUTPUT

Source level	226dB re 1µPa at 1m (typical)
Pulse length	0.5 to 1.5ms Dependent on power applied

TYPICAL PULSE SIGNATURES AT 2000J





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