

Sub Bottom Profiler

Merk	:	GeoMarineSurveySystems Geospark 1000Plus
Kelengkapan	:	<ul style="list-style-type: none">- Energy Source Geo-Spark 1000Plus- Source Geo-Boomer 300-500- Receiver Geo-Sense Mini-Streamers- Acquisition system Mini-Trace II
Fungsi	:	Survei seismik dangkal di perairan

Spesifikasi

Geo-Spark 1000Plus

Input Power	:	220 – 230 V / 50 – 60 Hz, single phase (can be operated with generator 230 V / 5 kVA or mains socket 230 V / 16 A)
Output Power	:	Selectable ~2000 V to ~ 5600 V
Energy Output	:	100 to 1000 Joule (in steps 100 J)
Triggering	:	5 V TTL pulse of 1ms
Safety	:	Power lock limits the output to Geo-Boomer to 400J
Dimension	:	
Weight	:	75 Kg

Geo-Boomer 300 - 500

Maximum input energy	:	2 pops of 500 Joules/sec, or 4 pops of 250 Joules/sec
Maximum input voltage	:	~5600 V
Accuracy	:	±0.1°C
Signature	:	Single acoustic pulse of 0.25 – 0.50 ms
Dominant frequency	:	Bandwidth 2000 – 4000 Hz, depending on the selected energy level
Transducer depth	:	Adjustable from 10 cm to 20 cm below surface
Dimension	:	Transducer plate 40x40x8 cm

		Baffle 50x50x10 cm Catamaran frame 55x75x105 cm
Weight	:	Plate plus baffle 24.5 kg/39.5 kg Catamaran frame 30 kg
HV Power /tow cable	:	<ul style="list-style-type: none"> - Coaxial HV cable, double insulated, with material High quality polyurethane, Kevlar – reinforced - Outer diameter 18 mm - Bending radius minimum 280 mm - Weight 0.47 kg/m - Inner leads 4x10 mm² PE insulated - Outer braiding 1x40 mm² PU insulated - Wet termination 2 special HV connectors, each rated 6kV pulses of 5kA

Receiver Geo-Sense Mini-Streamers

Number of elements	:	24
Spacing of elements	:	0.3 m standard
Length of active section	:	7.2 m
Jacket of active section	:	Length 11.2 m (approx.) Inner diameter 20.5 mm Outer diameter 26.5 mm Material unreinforced polyurethane Buoyancy slightly positive Array fluid shell Sol T or Parafin oil
Tow cable	:	Length 100 m Diameter 11 m Type 3x2x24 AWG screened twisted pair Insulation polyurethane Strain member double reverse spiral kevlar
Hydrophone element	:	AQ-2000

Performance hydrophone	:	<ul style="list-style-type: none"> • -201 dB re 1 V/μPa +/- 1.5 dB (Sensitivity @100Hz) • +/-0.25 dB from 1 Hz to 1kHz, +/- 2.0 dB from 1kHz to 10 kHz (sensitivity change versus frequency) • <0.5 dB to 1000 m (sensitivity change versus depth) • <0.03 dB per 1°C change (versus temperature)
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Acquisition System Mini-Trace II

System A/D converter	:	24-bit sigma-delta, input range -5V to +5V
Trigger inputs	:	Standard TTL via BNC connector, trigger pulse 4V to 12 V, 10mA with pulse length 1 ms
Trigger outputs	:	Standard TTL via BNC connector
System trigger	:	Programmable trigger include all options to set delays, time-breaks, differential triggering and custom triggering patterns
Navigation	:	Input available via pc serial ports or Mini-Trace II dedicated serial port. Nmea data format or any other proprietary format navigation, fix and annotation strings
Connect to pc	:	With USB cable
software	:	<ul style="list-style-type: none"> • GeoSuite Acquisition for online processing (online processing never affects the raw data and is for QC purposes only) • GeoSuite AllWorks for offline processing • All software use usb dongle

GeoSpark 1000Plus



Geo-Boomer



Geo-Sense Mini-Streamer



Mini-Trace II Acquisition system

