



Data Sheet

seaCHIRP3D (Multi Beam)

*Two Projector versions are available: Standard and Power+
(where not specified, features are identical for either projector)*

Technical Specifications

	Signal / Frequency Range	Duration	Shot Interval	Sampling
Projector: Standard	CHIRP / 0.4 - 8 kHz	5 - 50 ms	75 - 200 ms	32 kHz
Projector: Power+	CHIRP / 0.5 - 10 kHz	5 - 50 ms	75 - 200 ms	32 kHz

	Electric Power	Amplifier
	100/240 V	water resistant / shock & vibration resistant
Projector: Standard	2 kW	2 kW
Projector: Power+	2.5 kW	2.5 kW

Acquisition System	Operating System	Format of Output Data	I/O
2 core processor 16 bits CAN/NA 96 dB dynamic shock & vibration resistant	Real-Time OS	SEG-Y rev1 (modified) Text files	Ethernet RS232 2 USB

Operating Specifications & Performances

	Vertical Resolution (full frequency range)	Transversal Resolution (central beam)	seaCHIRP Beamwidth (central)	Max. Angular Aperture
Projector: Standard	9 cm @ 1 500 m/s	0.26 x target depth	15°	80°
Projector: Power+	7 cm @ 1 500 m/s	0.16 x target depth	10°	80°

Max. Longitudinal Resolution (after SAS processing)	Penetration (full frequency range, central beam)
50 cm	15 m in sand*

*Indicative detection limit of a rocky basement under a homogeneous layer of sand (1 dB/λ attenuation).

Water Column	Max. Survey Operating Speed (instantaneous speed)	Max. Speed not to be exceeded in Water (equipment mechanical limit)
3 - 50 m	5 knots	7 knots

Equipment Specifications

	Caged Projector Size (LxWxH in mm)	seaWING Antenna (L in mm)	Frame Dimensions (LxWxH in mm)
Projector: Standard	420 x 420 x 420	1 950	1 400 x 1 100 x 1 400
Projector: Power+	580 x 400 x 400	1 950	1 400 x 1 100 x 1 400

Weight in air of subsea equipment (acoustic transmitter, hydrophone array, frame)	Weight in air of surface equipment (power amplifier, acquisition box)
≈ 105 kg with Standard projector	≈ 45 kg
≈ 115 kg with Power+ projector	≈ 45 kg

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