

SigmaWave Specifications

Parameter	Feature	Value
Environment	Operational Temperature	+5 to +40°C (41 to 104°F)
	Humidity	80% RH for temperatures up to 31°C (87.8°F) non-condensing
Mechanical Hardware	Size without brackets and rear guards (H x W x L)	222 mm (8.75 in) x 540 mm (21.25 in) x 483 mm (19 in) Weight 27.4 kg (57 lbs)
Interfaces	Data Storage	eSATAp Option to install RAID card and connect to a RAID Array
	Storage Volume	Up to 3TB (internal)
	Communications	Ethernet—minimum 1Mbps required for upstream for data view 4 x USB3 ports (including 2 x USB2 ports on front panel) , 1 x DVI-I port 1 x TIA-232 or RS-232 port 1 x 1 Gigabit Ethernet port (optional 10GigE card for data streaming)
Sensing Cable Length	Maximum length of each interrogated fiber	40km*
Optical	Fiber Type	Single mode / Multi Mode / Enhanced Backscatter (option)
	Tri-Mode Operation (fiber interrogation modes)	Intensity. Bandwidth. Fidelity
	Pulse lengths	4, 5, 10, 20, 50m
	Gauge Length	User Selectable in software
	Spatial sampling	0.67 m
	Rate Interface	1 x E2000 APC optical connector
Energy Consumption	Voltage, frequency	115-230 VAC 50-60 Hz
	Power	480 W (Max.) 330 W (Typical)
Frequency Information	Minimum Frequency	1 Hz*
	Maximum Frequency response	20 km cable = 2.5 kHz 40 km cable = 1.25 kHz
	Acoustic Bandwidth	Intensity Mode: $PRF/2$; Bandwidth Mode: $PRF/2$ Fidelity Mode: $PRF/6$ (PRF - Pulse Repetition Frequency)
	Harmonic Distortion (Typical level of harmonics present in addition to the fundamental frequency)	Intensity Mode: Helios Standard Bandwidth Mode: Reduced Level Fidelity Mode: Minimal Level

* Frequencies lower than 1Hz can be acquired when the Helios Theta is supported by a post-acquisition processing module.

IEC60825-1, UL60950-1, CDRH-21CFR1040, FCC, RoHS certified

Parameter	Feature
Acquisition Panel	WaveLab II Acquisition PC for Standalone and Hybrid Acquisition SCIP for Standalone Source Controlled Acquisition SCIP + SCPP for Hybrid Acquisition
Downhole Array Compatibility	GeoWave II, MaxiWave, SlimWave, GeoWaves, Analog
Quality Control Features	Traces Visualisation and Advanced Quality Control Vibroseis Real-Time Correlation and Quality Control Final Plot Generation and Corridor Stack
Data Output	SEG-Y, Real Time, GPS Time Stamp and Synchronisation
Recording	Standard and Continuous
Microseismic Event Detection	Threshold or ratios function methods
Source Control Interface	Fully Integrated Source Management, compatible with any source type
Supply and Voltage & Frequency	85-264 VAC / 110-330VDC, 47-63 Hz
Dimensions (Units can be either packaged in transportation cases or racked)	
SCIP	1 rack 19" 3U 31 kg (68 lbs)
SCPP	1 rack 19" 5U 28 kg (62 lbs)
PC Station and Additional Memory	1 rack 19" 3U 43 kg (95 lbs)

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Ahead of the CurveSM