

## CONNECTORLESS LAND RECORDER

### 64 GB OF SOLID-STATE DATA STORAGE



#### PRODUCT DESCRIPTION

The GCL-3 is a self-contained, three-component, autonomous land wireless seismic data acquisition solution. Three internal geophones, battery, charger, 24-bit digitizer, GPS receiver, and GLONASS receiver are enclosed in its sealed case. A built-in test signal generator and up to 64 GB of non-volatile, solid-state data storage allow for quality and reliable data. Faster and more efficient operations can be achieved with the use of the GCL-3 by eliminating the process of engaging connectors for power and data transfer.

#### FEATURE HIGHLIGHTS

- No connectors
- Continuous cable-free autonomous 3-component recording
- 24-bit resolution and 124 dB instantaneous dynamic range
- GS-SMG (10 Hz) vertical and horizontal geophones
- Battery life: 40 days @ 24 hrs/day operation
- Built-in full resolution test generator
- Solid-state flash memory: 32 or 64 GB

### MECHANICAL SPECIFICATIONS

	METRIC	US
Length x Width	14.0 x 11.1 cm	5.5 x 4.375 in.
Height	17.81 cm	7.01 in.
Weight	1.26 kg	2.77 lbs.
Operating Temperature Range	-40°C to +60°C	-40°F to +140°F

### ELECTRICAL SPECIFICATIONS

Digitized Recording Station:	3 Channel, 24-bit A/D Digitizer GS-SMG (10 Hz) Vertical/Horizontal Geophones
Digitization	24-bit Delta-Sigma
Sample Interval	0.25, 0.5, 1, 2, 4 ms
Pre-amplifier Gains	0, 6, 12, 18, 24, 30, 36dB
Maximum Input Signal	1.77 Vrms
Equivalent Input Noise (@2ms sample interval)	0.17 $\mu$ Vrms
Gain Accuracy	Better than 1%
Anti-alias Filter	83% Nyquist
Instantaneous Dynamic Range	124 dB @2ms sample interval
THD (Instrument)	0.00%
THD (Geophone)	< 0.15%
Flash Memory	10 or 20 GB per channel
Frequency Response	1 Hz – 1650 Hz @ ¼ ms sample interval
Battery Module	40 days operation
Geophone Sensitivity	GS-SMG (10 Hz) 2 V/in/sec
Frequency	10 Hz

## SOLUTIONS FOR A SMARTER FUTURE

Specifications subject to change at sole discretion of Geospace Technologies.