Equipment Specifications

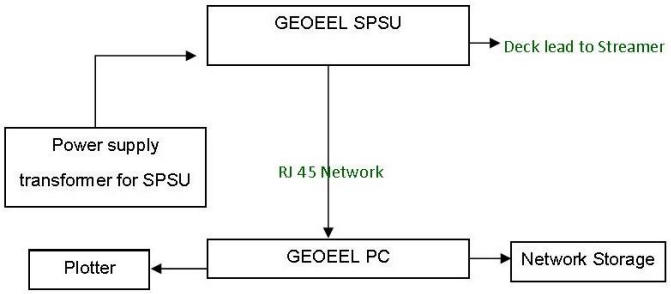
For further information: Email: ttsoffice@aol.com
www.ttsurveys.com

Geometrics CNT-2 Seismic Recording System

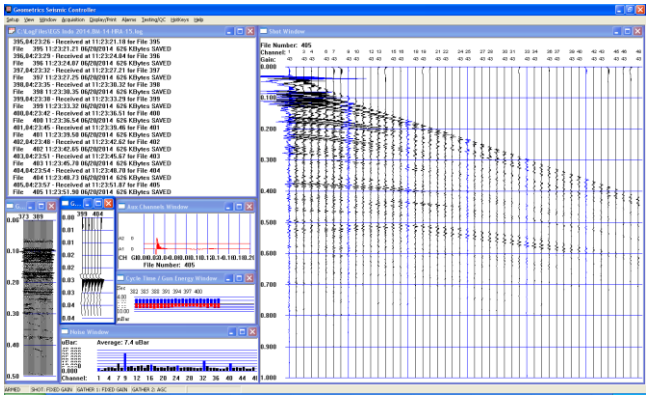
The Geometrics CNT-2 is a Seismic recording system comprised of a Streamer Power supply unit (SPSU) and Digitiser modules connected at the head of streamer sections.

Streamer Power Supply Unit

Streamer Power Supply Unit: The control unit, also called the “deck unit” accepts inputs from a shot controller, supplies a gun control output signal, and all the necessary signals for the streamer. The SPSU is connected via a standard CAT-5 RJ-45 Ethernet cable to a PC running Windows 2000/XP or newer.
The CNT-2 Marine Controller Software is responsible for the Set up and configuring of A/D modules, data display and various QC windows, with the ability to dual write data to disk and network. It also keeps track of survey parameters, allowing previous surveys to be continued with minimal setup. CNT-2 software records and displays a log of all shots, including file number, time, tape number, operator comments and other pertinent information. It displays each shot as it is acquired and can perform a full assessment of Digitiser QC tests.



Power Requirements: 115/230 VAC, 3.0/1.5 A max, 50/60 Hz
Voltage to Streamer: 36-72 VDC
I/O Communications: 100Base TX Fast Ethernet, IEEE 802.3 compliant
Ethernet Connection: RJ-45 Trigger Connection:
BNC Trigger Requirements: Contact closure, positive or negative TTL
Auxiliary Inputs: 8 analog channels with 24-bit resolution
QC Tests: Leakage and capacitance of hydrophone elements, Ethernet for faults and collisions.
Storage Media: Up to four tape drives, RAID, USB hard drive,
Dimensions:
Rack mount: 296 mm x 304 mm x 48 mm (11.7” x 12” x 1.9”)
Portable: 406 mm x 330 mm x 178 mm (16” x 13” x 7”)
Weight:
Rack: 2.7 Kg (6 lbs)
Portable: 4.1 Kg (9 lbs)



Digitiser Modules

Channels per Module: 8 Sample Rates: 1/16 msec, 1/8 msec, ¼ msec, ½ msec, 1 msec, 2 msec, 4 msec
Programmable Gains: 0 dB, 8 dB, 18 dB, 30 dB
Record Length: Up to 16,000 samples/trace
Water-Column Delay: Up to 255 samples
I/O Communications: 100Base TX Fast Ethernet, IEEE 802.3 compliant
Dead Time Between Shots: 100 msec
Anti-alias Filter: -3 dB @ 81% of Nyquist, down 135 dB at stop band
Input Impedance: 126.8 KOhms, paralleled by 2.4 nF
Continuous Recording Mode: Available with GPS synchronization
Test Oscillator: 10 Hz to 2 KHz, 1µV to 100 mV AC rms

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QC Tests: Noise, DC offset, total harmonic distortion, gain accuracy, gain similarity, phase similarity
Bandwidth: DC to 8 KHz
Resolution: 24 bits including sign
Maximum Input Range: +2.25V
Dynamic Range: 120 dB typical @ 1 msec, 70 dB typical @ 1/16 msec
Common-mode Rejection: 90 dB @ ¼ msec, 190 Hz
Gain Accuracy: +6.25% @ ¼ msec, 30 dB, 100 Hz; +6.0% @ 2 msec, 30 dB, 25 Hz
Gain Similarity: +3% @ ¼ msec, 30 dB, 100 Hz; +3.0% @ 2 msec, 30 dB, 25 Hz
Phase Similarity: +0.1o @ ¼ msec, 30 dB, 100 Hz; +0.1o @ 2 msec, 30 dB, 25 Hz
THD: 0.007% @ ¼ msec, 30 dB, 100 Hz; 0.003% @ 2 msec, 30 dB, 25 Hz
Crosstalk: -105 dB @ 30 dB, ¼ msec, 190 Hz
Noise Floor: 1.4 µV rms @ 30 dB, ¼ ms; 0.2 µV rms @ 30 dB, 2 msec
Power Consumption: Approximately 100 mA at 48VDC (12.5 mA/channel)
Dimensions: 44 mm diameter x 330 mm long (1.75” by 11”)
Weight in air: 900 grams (2.0 lbs)
Weight in water: 520 grams (1.1 lbs)
Packaging: Titanium body
Connectors: Waterproof, high-density stainless, 41-pin