Nanometrics introduces the **Centaur** digital recorder: combining ease of use with industry leading performance

Centaur

Portable Seismic Acquisition System



MA Nanometrics



Centaur simplifies high performance seismic deployments in both remote and networked environments



Deployments and Data Returns have never been easier

- Intuitive web interface accessible via WiFi or Ethernet connection.
 - Easily accessible with standard tablets, smartphones, laptops
 - > User interface supports multiple languages
- Integrated LEDs provide comprehensive overview of instrument status
- > Direct write of data to MiniSEED or SEGY archive
- > Removable media (SD card, USB)
- Comprehensive real-time communications options including SEEDLink support

Exceptional Performance

- > Sample rates of up to 5000sps to support geothermal and/or passive seismic data acquisition
- Ultra-low noise floor for use with high performance broadband seismometers
- > True 24-bit performance available in 3 or 6 channel configurations
- Rugged field enclosure rated for continuous submersion

Onboard Data Processing

- Advanced bandpassed triggering
- Derived data products, including: PGA, PGV, PGD
- Acquisition and data management of high precision GPS data (BINEX)





Centaur

Specifications subject to change without notice.

Channels 3 or 6, internal Sampling Simultaneous Resolution 24-bits per channel nput voltage range 40V, 20V, 10V, 4V, 2V, 1V, 0.5V peak-to-peak differential SENSOR COMPATIBILITY Sensor Types Broadband active and short period passive Seismometers and/or geophones Control Lines 6 per connector – typically used for Cal enable, mass centre, mass lock/unlock, and XYZ/UVW select Sensor Power Supply power pass-through to sensor (9-36 VDC, 1 A) Over-current and surge protected Serial Interface Supports digital management of Nanometrics sensors DIGITIZER PERFORMANCE Type 24-bit ADC per channel Digital Filter 140 dB attenuation at output Nyquist Linear phase (other options available upon request) Dynamic Range Sinewave amplitude to RMS shorted-input noise Sample Rates 10, 20, 40, 50, 80, 100, 200, 250, 500, 1000, 2000, 500, 100, 200, 250 Dual Sample Rate 10, 20, 40, 50, 80, 100, 200, 250, 500, 1000, 2000, 500, 100, 200, 250 Hardware Gain Nominal gain accuracy within ± 0.5% User configurable in mHz EALIBRATION 16-bit DAC with 30 ksps output Variable Output attenuation: 1, 10, 100, 1000 Playback standard .wav files (step & sine wave provided) Custom waveforms may be used RECORDING Modes Continuous Formats MiniSEED, SEGY, Nanometrics NP, ASCII REMOVABLE	SENSOR INPUTS	
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Data Products Peak Ground Motion (i.e. PGA, PGV, PGD)	Methods	Media Exchange: SD card field-swappable with
	Data Products	Peak Ground Motion (i.e. PGA, PGV, PGD)
	Dool time Data	Time series data (continuous or triaggrand)

TIMING	
Timing System	Internal DCXO clock disciplined to GPS
Timing Accuracy	<100 µsec
	(with GPS duty cycle mode set to Automatic)
	<5µsec
	(with GPS duty cycle mode set to Always On)
GPS Receiver	Internal 12 channel receiver
Duty cyle selectable	
	Automatic (power save option): GPS only turned
	on when necessary, will maintain timing
/	accuracy to within 100 µsec
GPS (standard)	Internal GPS receiver via external antenna
PTP (optional)	High precision network timing via PTP
	Master on same LAN (available option)
COMMUNICATION	S
Web-based UI	Supports standard PC, tablet and mobile
	platforms
Interfaces	10/100 Base-T Ethernet, WiFi
Optional Interfaces	
	Internal WiFi (see also Centaur XT)
IP Addressing	Static, dynamic (DHCP) or link-local IP
	address
Protocols	UDP/IP unicast/multicast, HTTP data streaming
	(inbound or outbound)
EVENTS	
Triggers	Bandpassed STA/LTA, Threshold
Captured Data	MiniSEED, SEGY, ASCII
Data Products	Peak Ground Motion (i.e. PGA, PGV, PGD)
	statistics calculated on the instrument
CONNECTORS	
Power	3-pin mil-circular
Ethernet	Watertight RJ-45 connector
USB	2.0 Type A receptacle behind media bay door
GPS Antenna	TNC Connector with 3.3 V supply for active
	antenna receiver
Sensor	26-pin, shell size 16, Mil Circ, female
	MIL-C-26482 Series 1
	Mates to MS3116J16-26P
POWER CONSUMP	TION
	Ethernet Active: <1.4 W*
	Ethernet Inactive: <1 W*
	*3 channel continuous data acquisition
PHYSICAL CHARA	CTERISTICS
Housing	Aluminum
Westless Desisters	D-tIt- ID /0

Weather Resistance Rated to IP-68

0-100%

-20°C to +70°C

-40°C to +70°C

196 mm (L) x 137 mm (W) x 88 mm (H)

2.0 kg (4.4 lb)

Humidity

Weight

Size

Operating Temp.

Storage Temp.

For more information, please email us at sales@osop.com.pa www.osop.com.pa

Time series data (continuous or triggered)

Nanometrics NP or SEEDLink (optional)

State-of-health information Ground Motion Data Products



Real-time Data Products

Data Formats

