508\textsuperscript{XT} is Sercel’s new cross-technology (X-Tech) powered land seismic acquisition system, driving productivity, data quality and adaptability to a new level.

With a 1 million channel real-time recording capability 508\textsuperscript{XT} offers unparalleled image resolution. The 508\textsuperscript{XT} platform also introduces QuietSeis\textsuperscript{TM}, a new, high performance digital sensor based on next generation MEMS, allowing seismic signals to be recorded with instrument noise levels three times lower than before.

The 508\textsuperscript{XT}'s new X-Tech architecture is composed of XT-nodes that can consist of as few as 1 or up to as many as 100 or more analog or digital channels connected to a CX-508 concentrator. This new X-Tech architecture combines the best of cabled and wireless system technologies by allowing XT-nodes to be run autonomously with local storage and system QC or connected to the spread with full real-time data transmission to the central recorder.

With a reduced weight, up to 25% fewer people per crew and up to 100 times less batteries than competing systems, 508\textsuperscript{XT} increases productivity and significantly reduces acquisition costs.
The X-Tech architecture allows all data handling elements to communicate with each other to transmit data seamlessly, at high speeds and without interruption. 508XT ensures non-stop production by featuring local data storage, automatic rerouting, and new levels of redundancy.

Thanks to the new X-Tech intelligent network, 508XT allows troubleshooting and testing of the line to be carried out during production to minimize downtime. In addition, the programmable wake-up feature and the low-power mode for standby units guarantee your spread is ready for shooting when required.
// UNEQUALLED DATA AVAILABILITY & INTEGRITY

100% QUALITY CONTROL
508XT ensures continuous realtime system QC (Battery Status, GPS, Memory...), whether through the line or via 2.4GHz radio communication.

RAPID DATA DELIVERY
508XT guarantees fast data delivery by featuring a high speed line network and advanced harvesting capabilities on autonomous segments.

// COMPLETE ADAPTABILITY
For any survey size, any source and sensor type, any condition and any terrain, 508XT will meet your need in a single versatile system.
QuietSeis™ is the new high-performance digital sensor based on next-generation MEMS. With a noise floor as low as 15ng/√Hz and below the ambient noise in any part of the world, it can record seismic signals three times lower than the previous generation. This broadband sensor offers a linear & flat amplitude and phase response over a large bandwidth (from DC to 800Hz), superior to any other type of sensor. It is fully calibrated with respect to gravity and insensitive to external perturbations. Its distortion (-90dB) is about 30dB less than single geophone based sensors.

FULLY INTEGRATED WITH THE 508XT, WHICH OFFERS MEGA-CREWS THE ABILITY TO RECORD UP TO ONE MILLION CHANNELS IN REAL TIME, QUIETSEIS PROVIDES THE MOST ACCURATE DATA FOR ANY TYPE OF SURVEY.

BEST DATA QUALITY

Optimized for HSE & SD

By reducing the human and carbon footprint through better built-in fault tolerance, lower power consumption and optimized system weight, we are staying true to our fundamental values by delivering an innovative high-quality system that is both sustainable and safe.

RECYCLING
- Up to 100 times less batteries to recycle.
- RoHS Lead free electronics.

REDUCED CARBON FOOTPRINT
- The lightest system ever.
- Low power consumption.

OPPORTUNISTIC TROUBLESHOOTING
Ability to postpone any repairs to when it best fits your schedule.
DSU1-508
• 1-C Digital Sensor Unit
• QuietSeis MEMS Sensors

FDU-508
• 1-C Field Digitizing Unit
• Compatible with any geophone type

CX-508
• Data Flow management
• Data Storage capacity
• Integrated GPS

TFOI-508
• Fiber Optic transverse
• 2 Km max length
• 1 Gb/s

DEPLOYMENT TOOL
• Assigns stake numbers to channels in autonomous mode
• Pre-program setup during deployment

GEOPHONES
• Full Sercel range available

HARVESTING TOOL
• Data retrieval & QC checks

FIELD TESTER
• Line test function when connected to CX-508
• Troubleshoot field units in base camp
SCI-508
- System Control Interface
- Source management
- Auxiliary channel management
- Network addressing of concentrators

GPS
- GPS time synchronization

SERVER
- Red Hat Linux OS
- Seismic data retrieval
- Seismic data processing

CLIENT
- User Interface
- Multi-Client configurations (local & remote)

VE464 DPG
- Vibrator / Recorder interface
- Advanced vibroseis strategies

NAS 4000
- Network Attached Storage
- Up to 2TB disk capacity
- Raid 1 Disk feature
Software

Built-in spread, source and data management

Simplified setup

Integrated data QC capabilities

Native interface with VE464

All types of sensors (analog, digital 1C, 3C) and all types of operations (impulsive, vibroseis) supported

Full graphic adaptive & intuitive interface: SOB software adapts to the type of acquisition required
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