



ARIES II

ARIES II is the newest member of ION's "right tool" family. The ARIES II is a cable-based land acquisition system that maximizes crew productivity by providing a simple, rock-solid platform that boasts near-zero system downtime and the industry's most durable and reliable ground electronics. ARIES II utilizes three separate tools to ensure error-free data recording, and superior telemetry performance in extremely adverse conditions.

[The Right Tool] for:

Increased Equipment Utilization

- Accommodates source-driven surveys with vibroseis, dynamite or mixed mode operations.
- Cost-effectively manages efficient 2D, high-density 3D and time-lapse 4D survey designs with excellent performance in all terrains and climates including arctic, desert, rainforest, mountainous, marsh and transition zone environments up to 75-meters.
- Operational flexibility and scalability are enhanced with access to the industry's only manufacturer-supported Rental & Lease pool, with convenient global locations boasting large inventories of ARAM maintained and supported equipment.

Improved Field Productivity and Quality Control

- ARIES II graphical user interface, widely heralded as the most powerful and easiest to use in the industry, provides superior control and support to the observer; enabling faster and more efficient decision making in the field.
- ARIES "Patch-view" software provides the Land Seismic Industry with an exclusive platform for real-time, attribute-based visual quality control of mega-channel (10,000+) receiver spreads.
- Efficiency and safety are enhanced by way of intuitive, spatially-correct displays incorporating areal photo, geographical mapping, cultural displays and real-time GPS asset tracking.



ARIES II delivers new advanced vibroseis capabilities to support source-driven, high-productivity operations utilizing HFVS, flip-flop, multiple source and VSR.

"With over 10,000 live channels, the ARIES II acquisition system we used demonstrated superior performance in extremely windy conditions. Our crew was able to easily understand the new and highly intuitive system software, while the Patch-View quality control application allowed us to monitor thousands of channels of data in real time. ARIES II was critical to the success of our project."

Milt Tetzlaff
Chief Operating Officer
Conquest Seismic





ARIES II System Components

ARIES II ground electronics are designed to withstand the most careless handling; T6061 aluminum, stainless steel, bullet-proof polycarbonates and robust circuitry result in a product that is capable of absorbing shocks in excess of a thousand G's. The central system is based on enterprise-quality PC componentry and proprietary circuit-boards engineered to thrive in the harsh conditions that seismic use promises.

- **Central Recorder** - A climate controlled environment for the operator to manage field production and operations. Houses the ARIES II Central System (ACS), ruggedized computer mounted in a shock protected chassis. The Central Recorder provides an interface for the operator with the ground electronics, source electronics and data quality control.
- **RAM** – The "Remote Acquisition Module" provides ground electronics that supports eight individual analog sensors or sensor arrays. Robust static and lightning protection, on-board memory and automatic error checking and retransmission ensure total reliability and error-free data recovery.
- **Line Tap Unit (LTU)** - Intelligent ground electronics component that provides a high speed connection between seismic receiver lines and the Central System
- **Netlink** - Optional obstacle avoidance equipment that can provide a wireless communication path between any two ground electronics devices (RAM-to-RAM, RAM-to-LTU, LTU-to-LTU).

Transition zone operations are easy and cost-effective to accommodate with the ARIES II TZ Casing which provides an air-tight chamber for ground electronics to be utilized in up to 75m of salt water.



ARIES II is a rugged, reliable, cable-based, 24-bit land seismic acquisition system utilizing analog geophones. The new system architecture delivers the scalability and capabilities needed for both high channel-count acquisition programs and advanced Vibroseis operations.