

wireless**SEISMIC**



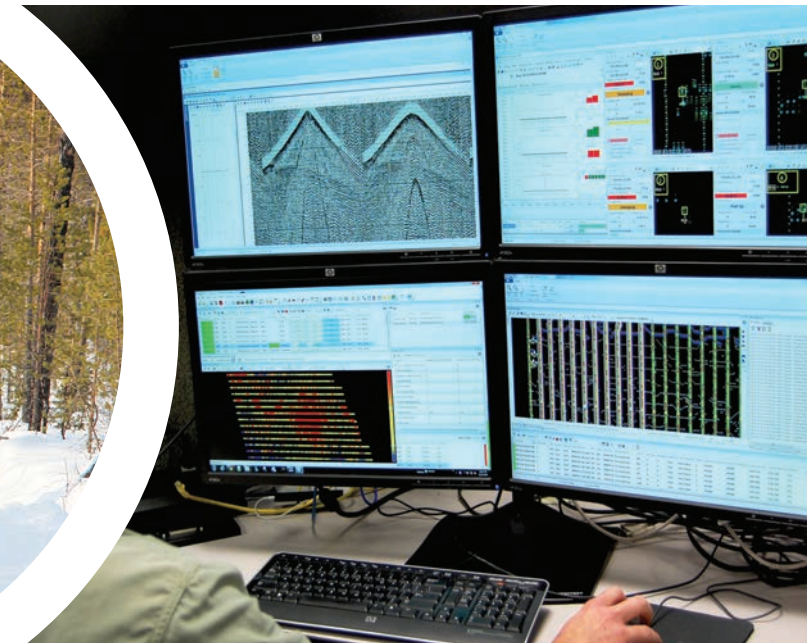
RT2

The industry's only scalable **RealTIME** and **CableFREE** seismic data acquisition system

wirelessSEISMIC.com



***RT2** significantly lowers the costs and risks of seismic surveys while maximizing productivity through increased system availability and higher operational efficiency.*



RealTIME Data Collection with CableFREE Flexibility

The advantages of cablefree seismic technology are significant in almost any kind of terrain. Until now, cablefree meant shooting blind, which made many seismic contractors and oil companies uneasy due to the lack of visibility of the data, the lack of QC, and the need to manually collect and transcribe the data. No need to compromise anymore. **RT2** allows you to collect seismic data in real time from tens of thousands of channels using wireless telemetry, while providing all of the benefits of a cablefree system.

RealTIME Data Quality Control

Literally, you can watch your data being gathered while shooting with the **RT2** and confidently verify that all units are operating and acquiring quality data. With instant confirmation of data integrity, you can securely eliminate shooting blind and the potential for loss of data.

Uninterrupted Crew Productivity with Data Assured Recording

The **RT2** features a robust Hybrid Radio Telemetry system that enables your seismic data acquisition project to continue, uninterrupted, even if radio connectivity is temporarily lost over portions of the spread. You can be confident in knowing that your seismic data are safely recorded and stored and that your crew continues to operate at maximum efficiency and productivity.

Unlimited Scalability with Operational Adaptability

The cutting-edge technology and high bandwidth telemetry of the **RT2** makes it an ideal solution for the deployment of the tens of thousands of channels required by modern 3D seismic surveys. In addition to conventional seismic surveys, it is easily configurable for the passive monitoring of hydraulic fracturing operations.

Improved Efficiency and Safety, Lower Costs

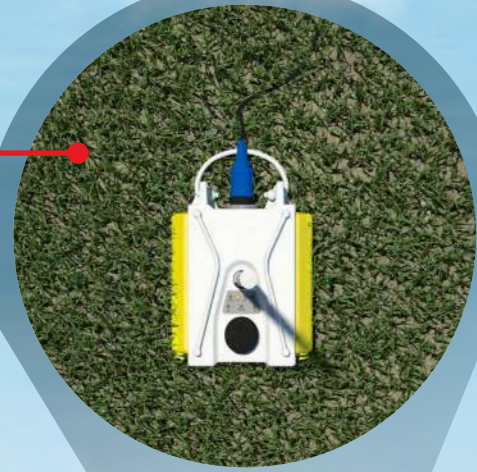
Without heavy cables to transport, crew and equipment requirements are reduced, and deployment is faster and easier—with far less chance for injury. Troubleshooting is dramatically reduced and cable repair time is eliminated.

Acquisition Flexibility with Minimal Environmental Impact

As a drop-in replacement for a conventional cabled system, the **RT2** will lower the costs and risks of any seismic survey. Crews can work efficiently and easily through agricultural areas with minimal crop damage, operate across wetlands, and traverse environmentally sensitive areas, including urban and non-permitted zones.

RT2 in the field

1 The Wireless Remote Unit (WRU) is deployed by simply connecting the geophone string, tilting to activate the power, and placing the unit flat on the ground. The WRU performs a series of self-tests verifying functionality, enabling maximum layout efficiency across large surveys.



4 Because the RT2 operates and collects the seismic data in real time, the survey operator can quickly verify the system status and also view the recorded seismic data at the recording cabin within seconds of the shot being fired.



Maximum productivity

Operationally robust, reliable, and efficient, increasing system availability and maximizing daily production.

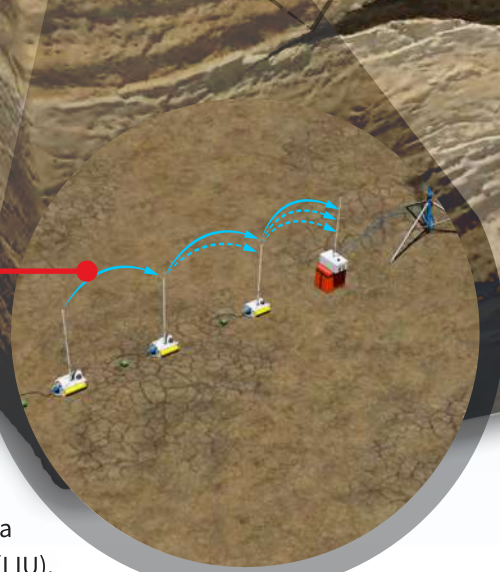
Unlimited scalability

Tens of thousands of channels can be deployed to meet the requirements of the largest 3D surveys.

Operational adaptability

Immediately configurable for conventional 2D and 3D surveys and for the passive monitoring of hydraulic fracturing operations.

2 The WRUs digitize the signals from the external analog geophones and transmit the recorded data down the line of WRUs in a “bucket brigade” fashion until the data reaches a Line Interface Unit (LIU). The proprietary telemetry data are converted to Ethernet packets that can be connected to a computer, or more commonly to a backhaul system, which transports the data from the LIUs to the Central recorder.



All images are representations that are not to scale.



3 Farther down the backhaul line, there is another LIU with its two segments of WRUs, and the layout continues until you have a series of parallel in-lines and a centralized backhaul cross-line.





RT2

Advantages that matter most



RealTIME

- Secures all data in real time
- Instant confirmation of data quality enabling informed decisions
- No costly and time-consuming data collection or transcription



CableFREE

- Flexibility to deploy across roads, rivers, no-permit zones, and other demanding terrains and environments, including urban areas
- Higher productivity with no downtime for cable repairs
- Reduced crew and transportation costs
- Improved safety and reduced risk of injury



UserFRIENDLY

- Compact, durable recording units designed for quick deployment
- Deployable by non-skilled workers without hand-held computers
- Central recording system—intuitive and easy-to-learn—with a full set of real-time features



BatteryLIFE

- Light-weight, lithium-ion batteries proven to last 30 days per battery (assuming a 12-hour workday), even in the harshest weather conditions
- “Hot swappable” in the field to maximize crew efficiency



ScaleABILITY

- Scales to tens of thousands of channels for large-scale 2D or 3D surveys
- Instant user feedback optimizes layout & pickup
- Integrated batteries & compact design minimize both crew personnel & transportation equipment



DataVISIBILITY

- Live data transmission enables real-time QC monitoring
- Eliminates blind shooting and data loss
- No physical collection of data reduces overall manpower & under-utilized assets
- Eliminates complex, time-consuming data transcription



HSEADVANTAGED

- Unobtrusive and lightweight recording units reduce risk of injury
- Safely work across non-permitted zones and sensitive areas with minimal environmental impact
- Small footprint and rapid deployment reduces complexity of acquiring permits



DataSECURITY

- Highly efficient hybrid radio technologies enable instantaneous data QC, collection, transcription, and overall data security
- Embedded features secures data collection & eliminates threats of data loss