

REAL-TIME QC
HAS NEVER BEEN SO
COST-EFFICIENT



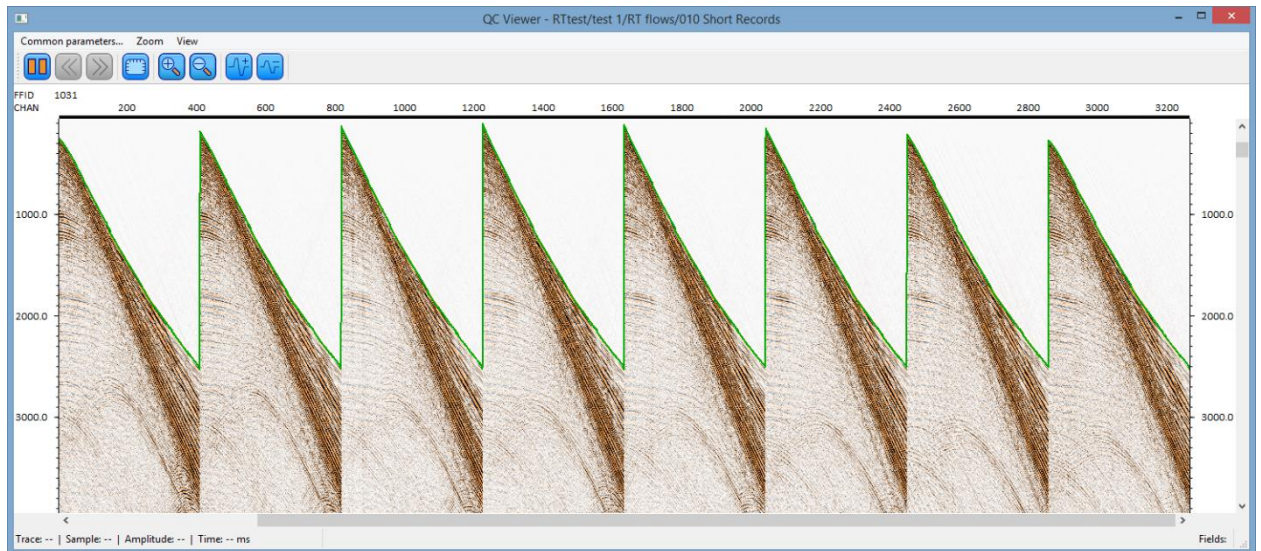
RadExPro
seismic software

REAL-TIME

REAL-TIME ON-LINE SEISMIC QC FOR MARINE OPERATIONS

Based on the well-developed onboard QC and processing facilities of the *RadExPro Professional* software, the *RadExPro Real-Time* is a brand-new software configuration dedicated to providing all these advantages and flexibility in the real time.

All QC functions are performed in parallel with the 2D or 3D seismic data acquisition, providing instant confirmation of the data quality without slowing down seismic crew operations.

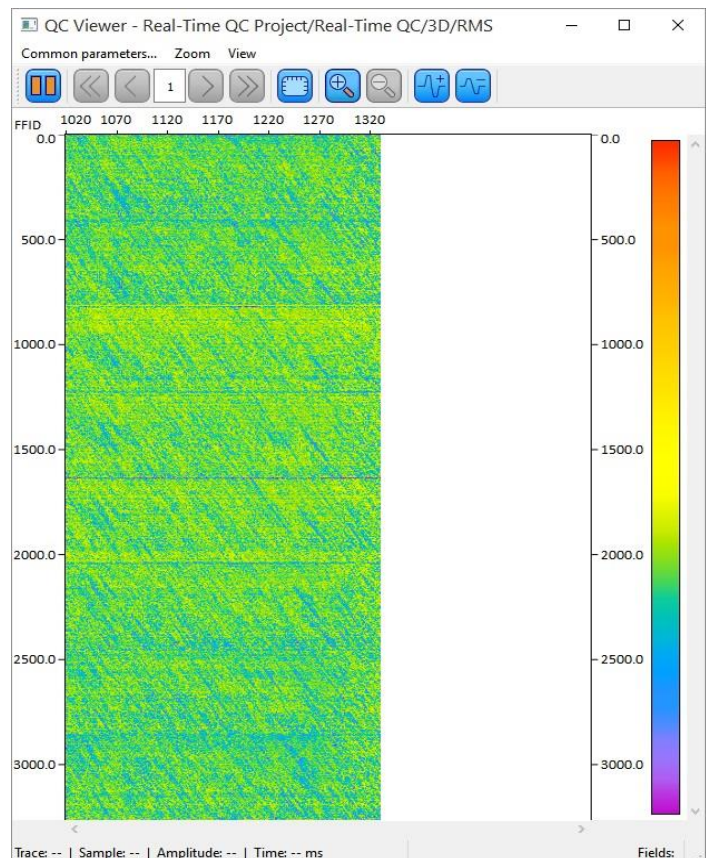


HIGH PERFORMANCE – LOW OVERHEADS

The software connects to the data storage and input a shot record as soon as it is written. Each shot is read only once, to avoid network overload.

After a shot is loaded into RAM of the local PC, it is input to a number of QC processing flows that all run in parallel locally. All real-time displays run and update locally as well, without slowing down the network.

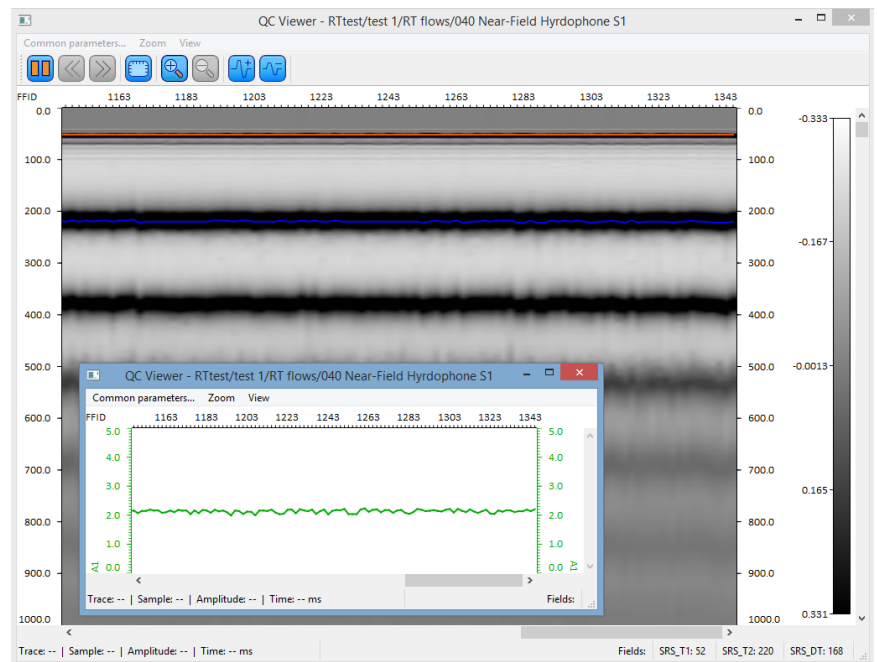
This, along with optimized processing algorithms, allow real-time QC of the data from thousands of channels using just an average good modern PC with a multi-core CPU and 64-bit Windows Operating



System. Making it multi-monitor is not a problem nowadays, with motherboards supporting up to 4 graphic cards with at least 2 (and up to 4) monitor connections each.

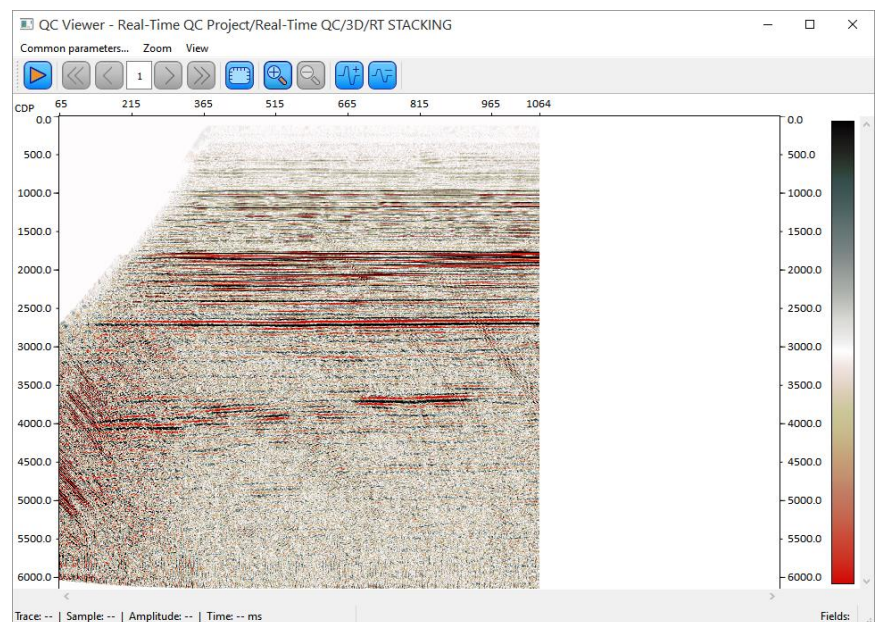
CUSTOMIZABLE QC DISPLAY

Interactive QC displays may include seismic data (color-coded or VT/WA), first-break picks, attribute maps, spectrums and attribute graphs. Each display can operate in either continuous or shot-by-shot mode. You can display and control shot records, near-trace gathers, real time stacks, near-field hydrophone records with source signature, bubble time/amplitude maps, RMS amplitudes, frequencies, signal-to-noise ratio and much more. The list of displays, maps and attributes to be updated in the real time for every shot record is defined by the operator.



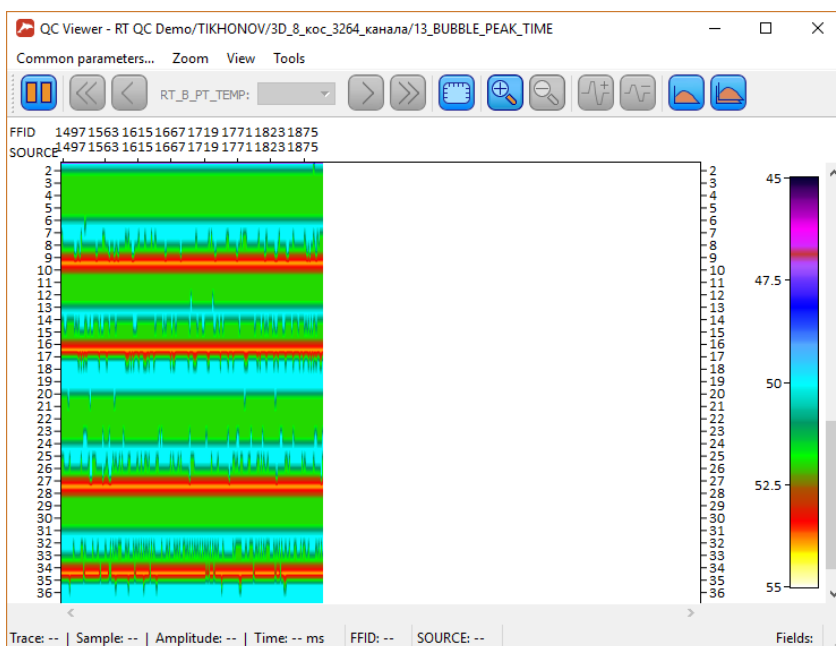
FLEXIBILITY AND POWER IN REAL TIME

The flows that every shot record pass through in the real time are fully customizable and completely defined by the operator. Nearly any processing and analysis available in the RadExPro Professional can now be performed in the real time. This includes (but is not limited by) AGC and other amplitude corrections, frequency and FK filtering, predictive and spiking deconvolutions, statics, auto-correlation and cross-correlation functions, automatic first-break picking, calculation of a number of amplitude and frequency attributes for different time-windows and their derivatives, etc. You can select the data from some particular channels or from one particular airgun group and process them separately, select the traces that exceed a given level of energy only, etc.



SAVING AND EXPORTING RESULTS

The operator can set up the real-time flows to save raw records, processed/edited traces, maps, picks, calculated attribute values and any other QC results to the processing project database. Then in the playback mode, the data can be exported to SEG-Y files, calculated attributes can be exported to ASCII.



RECOMMENDED MINIMUM SYSTEM REQUIREMENTS

Intel Core i5, 4-core CPU

RAM 16 Gb

Multiple monitors support

Windows 7/8/8.1/10 64-bit OS



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