

COMPLETE SOLUTION FOR NEAR-SURFACE SEISMIC PROCESSING



RadExPro
seismic software

Complete Solution for Near-Surface Seismic Processing

RadExPro provides a complete data processing solution for all near-surface seismic methods: reflection, refraction, tomography and MASW in one comprehensive package.

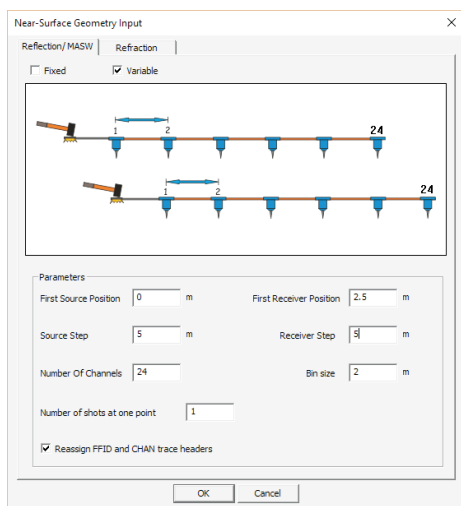
- > No limitation on trace/sample count
- > Flexible data input and intuitive geometry assignment
- > Powerful algorithms and ultimate flexibility
- > Easy to learn - easy to use

Seismic Reflection

Are you looking for in-depth processing of the near-surface seismic reflection data?

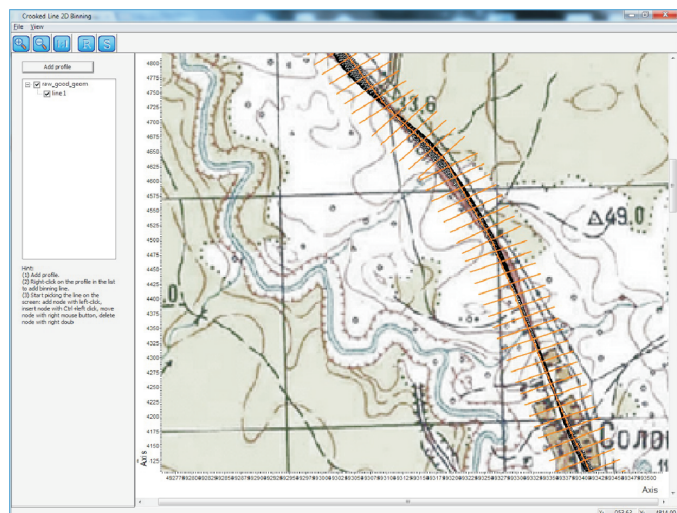
RadExPro is a capable and affordable solution for either impulsive or vibroseis data processing, P or S-waves, 2D or 3D.

Use intuitive geometry assignment tools for basic straight-line acquisition settings.

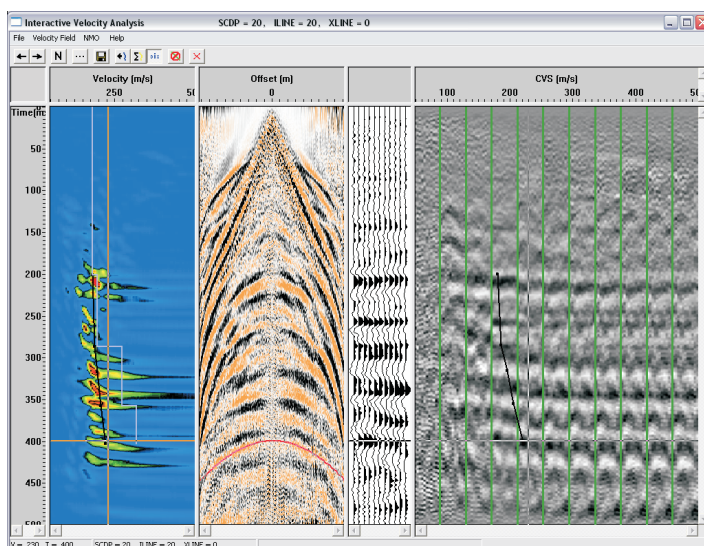


For more complicated survey designs you can load true positioning from SPS-files or ASCII tables.

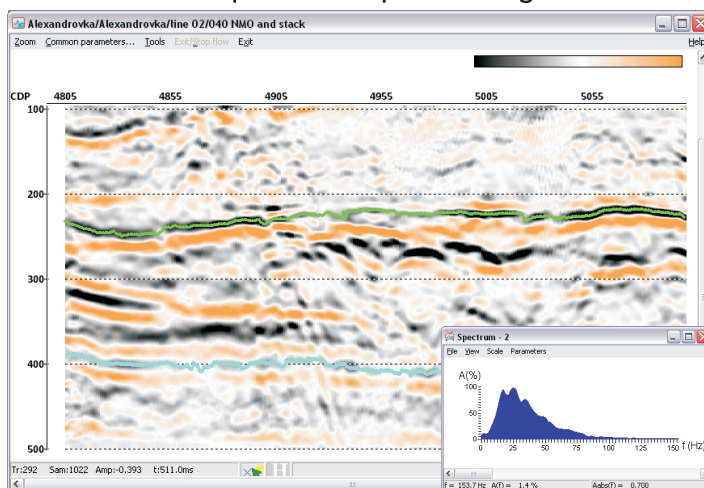
Correctly process the data acquired along arbitrary-shaped lines using interactive crooked-line CDP binning:



The software includes a comprehensive set of processing algorithms, including various frequency and 2D filters, amplitude corrections, deconvolutions and spectrum whitening, FX and FXY predictive denoising, static corrections, interactive velocity analysis, NMO-correction, DMO, pre-stack and post-stack migrations and much more...

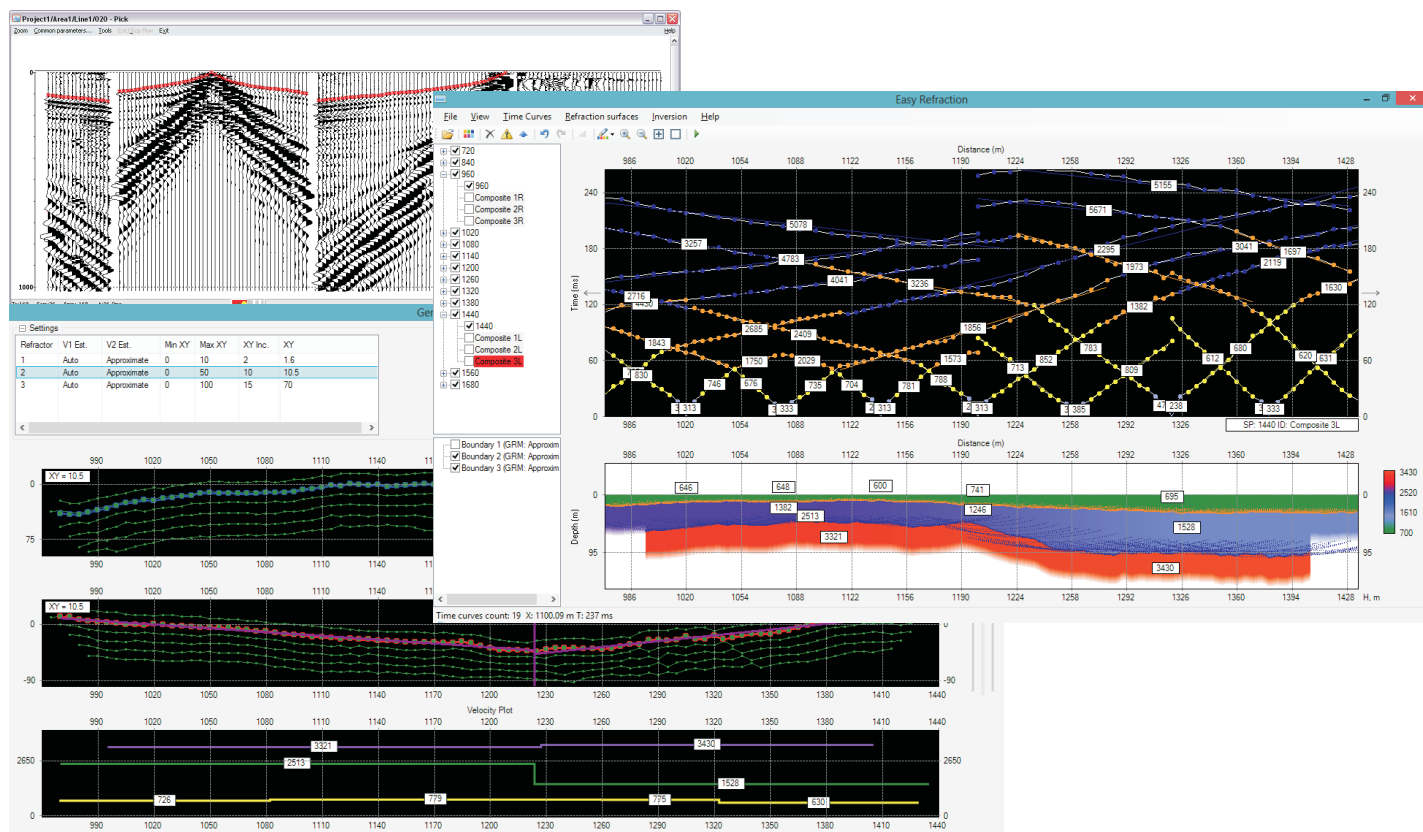


The data display module supports all types of display and easily synchronizes scale, position, and gain between several windows for convenient comparison of processing results.



Pick first breaks for all shots in one panel and load them at once to the Easy Refraction module for quick and easy refraction processing.

The module implements automated plus/minus (also known as CRM) and GRM inversions. The resulting layered model can be exported in ASCII or DXF.

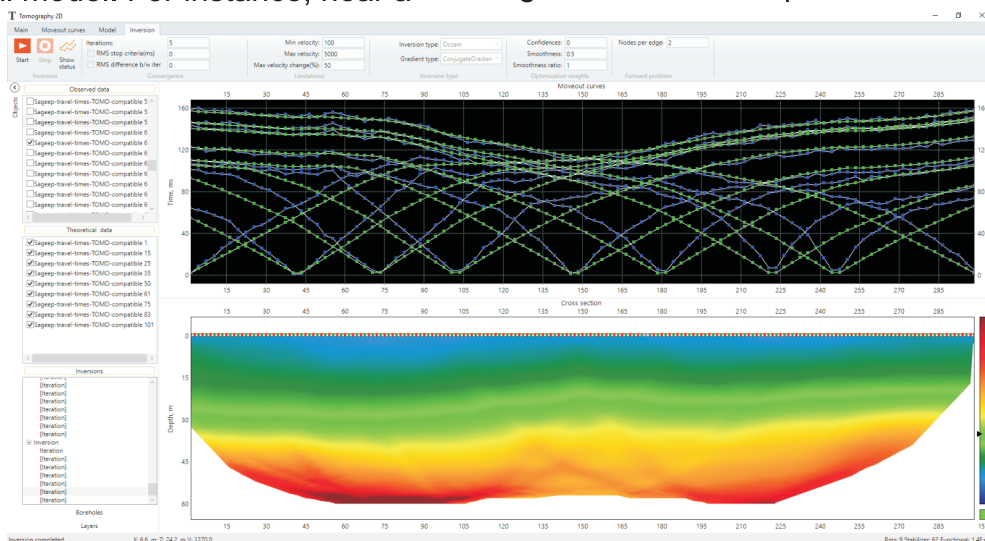


Travel-Time Tomography module provides an intuitive interactive tool for recovering of 2D velocity model from the first-arrival travel-time curves.

borehole you are pretty sure about velocities – why not to tell the software explicitly that you don't want the inversion to change them too much?

The algorithm is based on the known Occam inversion, however with some important modification. Beside velocity, each cell of the grid has *confidence*. Use this parameter to specify how confident you are in any particular part of the initial model. For instance, near a

You can pause the calculation at any iteration, change any parameters (even the current model!) and continue. You can also scroll back through the iterations, use the result of any of them as a new initial model and start the whole process again with modified parameters.

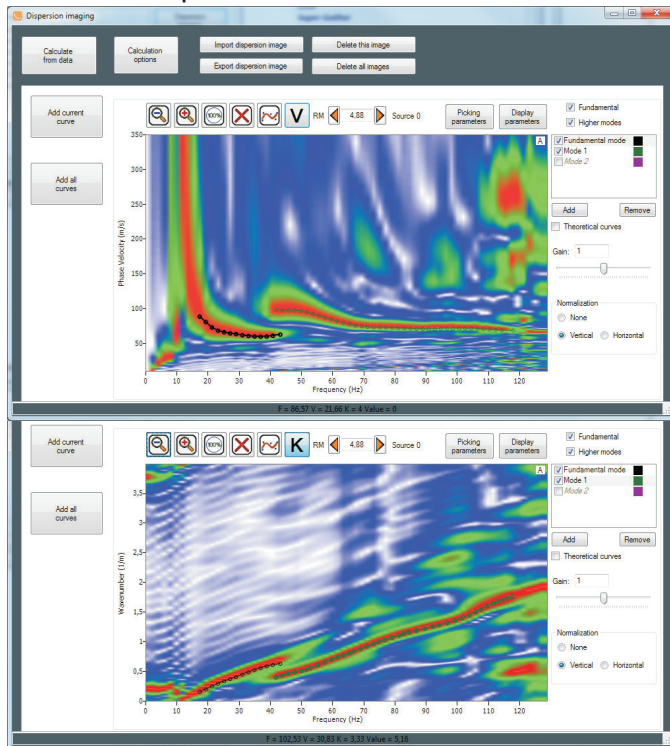


Surface Wave (MASW)

A dedicated module for Multichannel Analysis of Surface Wave (MASW) available in the **RadExPro** for easy and competent evaluation of S-wave velocities of the subsurface.

Compatible with any 2D geometry. FV and FK dispersion images calculated independently – you get the best of both. Joint inversion of fundamental and higher modes, unlimited number of modes allowed. Exceptionally user-friendly design – you will enjoy it!

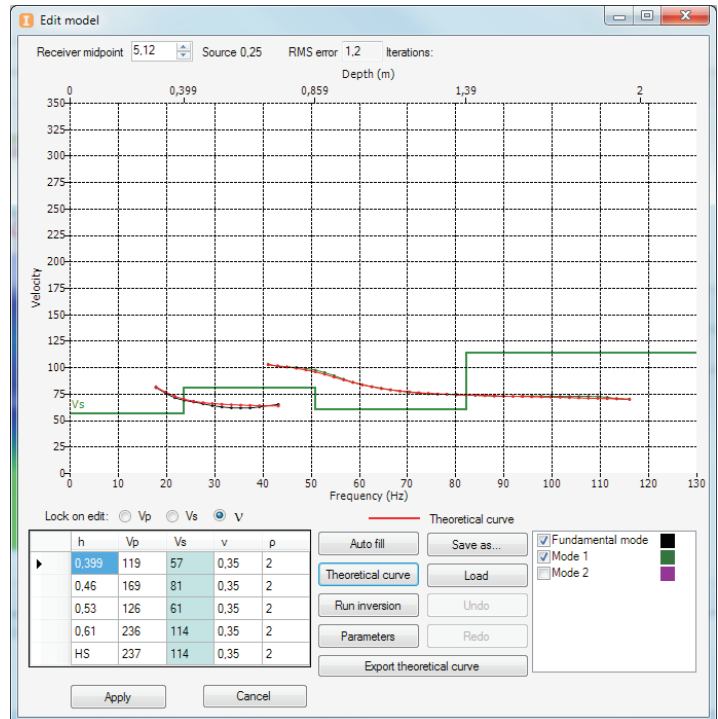
Calculate dispersion images for each seismic gather in both FV and FK domains independently. Pick dispersion curves of the fundamental and higher modes in any of the domains. Convenient semi-automatic picking algorithm will help you making quick and accurate dispersion curve extraction.



You don't need to save each curve individually – when you are ready with all picks just click **Add all curves** button to send all of them to the inversion. Then you can always switch any of them on or off through the MASW Manager dialog.

- ☑ Both 32- and 64-bit versions available.
- ☑ Compatible with Windows XP, Vista, 7, 8, 10.

You can jointly invert dispersion curves extracted for all modes, or specify any combination of the modes for the inversion. For instance, you may wish to invert the fundamental mode only, and then use the result as the initial model for joint inversion. Feel free to experiment and see what works better in your case.



You can invert all dispersion curves from all receiver midpoints automatically with just one mouse click, or work thoroughly with each midpoint one by one with your complete control of every step. You can also use the inversion result of one midpoint as the initial model for automatic inversion of the others.

The resulting Vs model can be displayed on the screen, exported into and ASCII or GRD file.

