

Advanced RCS Signal Processing Software

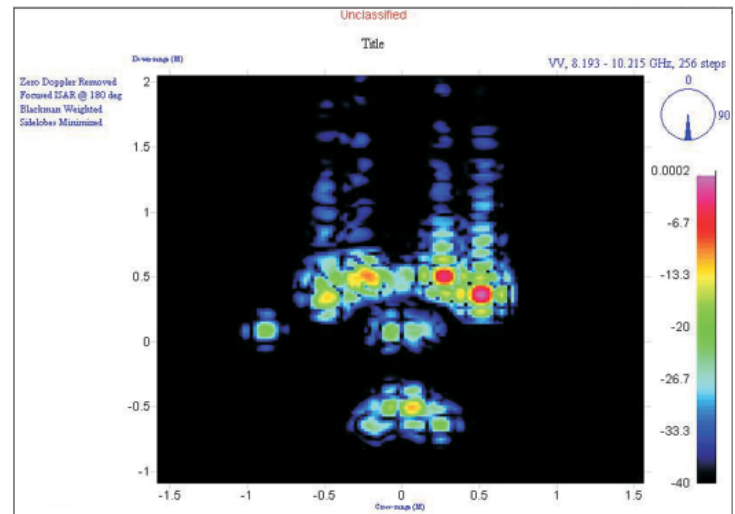
KNOWBELL™ is the standard for scientifically-accurate, highly-reliable RCS-processing software. With over 20 years of proven performance, KNOWBELL is widely recognized in government and industry as authoritative, sophisticated, and accurate.

- Process data on dynamic targets
- Motion compensation
- Image edit and reconstruction
- Near-field to far-field conversion
- Customizable user interface and plots
- Supports major radar formats
- JPEG “movie” view/maker
- Unsurpassed support

KNOWBELL supports data analysis for indoor and outdoor RCS ranges, as well as flight-line and in-factory quality-assurance measurements. KNOWBELL is independent of data format supporting over a dozen leading instrumentation radars. New formats can be easily added as needed. KNOWBELL operates on the Windows operating system and features programmable user interface, user configurable plots and powerful scripting language.

Ease of Use

KNOWBELL's user interface uses tabs that group related parameters by process. Like the pages of a book, you can quickly choose the tab you need. The tab structure extends to the images allowing you to quickly choose a polar plot, a global plot, a 2-D image, an RCS plot, or a custom data view.

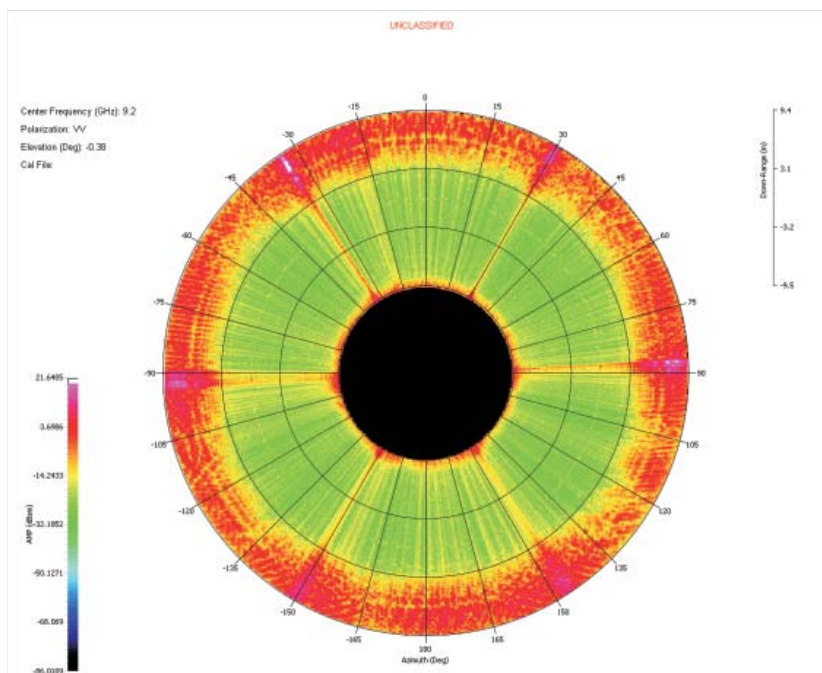


Basic RCS Processing

KNOWBELL includes RCS versus angle, frequency, down range, or cross range. It supports signal averaging, sliding-window averaging, angle offsets and mirroring, background subtraction, pattern subtraction, calibration, and cumulative and marginal distributions. Power averages, RCS averages, and rank (percentile) filters are also included. Unlimited sector average statistics can be applied. Flexible plot options include RCS, amplitude, phase, real channel, log (frequency), and others.

Diagnostic Imaging

KNOWBELL is an industry leader in diagnostic imaging. KNOWBELL's 2-D imaging employs an ultra-low distortion focusing filter that achieves diffraction-limited resolution with distortion products approximately 20-dB below the noise floor of even the best available radar. KNOWBELL maintains spatial registration to within one pixel throughout the largest image windows, and near-field corrections are available.



KNOWBELL SPECIFICATIONS

Processing Computer

Hardware:	Most any mid-level PC and up	Operating System:	Windows 2000, XPpro, Vista, Server 2003, Server 2008
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Recommendations

Hardware:	2-GHz Processor 4 GB RAM	Operating System:	Windows XPpro or newer
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