




RevospECT® PRO AUTOMATED ANALYSIS SOFTWARE


POWER YOU CONTROL





I was able to learn the RevospECT Pro dashboard quickly and prepare for my production outage immediately. With very little training I was able to run the RevospECT system, make calls, and edit results.

It is an extremely powerful and scalable system and I plan to utilize even more of its capabilities on my next inspection.



- Mr. Lee, ASNT Level III, Taiwan Power Company

The most accurate and easy-to-use automated analysis system in the steam generator inspection industry

RevoSPECT Pro is the industry's first commercially available high powered, adaptable, and scalable automated analysis system, which allows end users to perform automated analysis of eddy current data. It has a proven track record in the field and meets rigorous industry standards for flaw analysis from bobbin, rotating, and array inspection techniques.

REVOSPECT PRO DELIVERS THE POWER THAT YOU CONTROL.

CUT ANALYSIS TIME & RESOURCES

Automated analysis cuts time and resources required for inspections

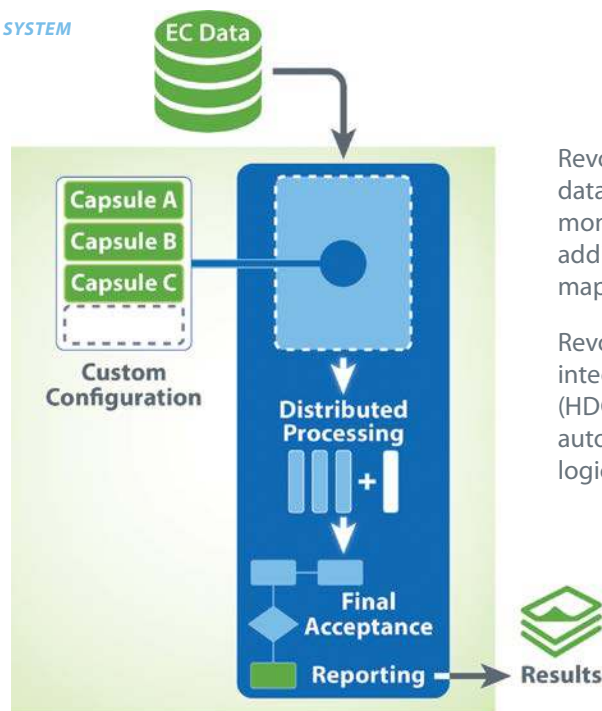
IMPROVE INSPECTION ACCURACY

Parameter-based signal processing ensures consistent and repeatable accuracy

CONTROL FROM START TO FINISH

The ability to lock down user configuration guarantees control over reporting results every time

REVOSPECT PRO SYSTEM



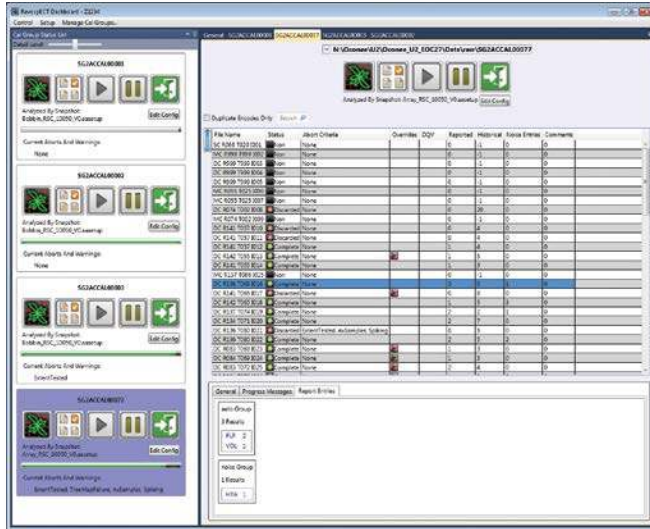
RevoSPECT Pro utilizes a custom configuration to process data through flaw detection and classification, noise monitoring, and historical data comparison, and has additional special reporting capabilities such as AVB mapping and wear, sludge, and deposit mapping.

RevoSPECT Pro can also take advantage of seamless integration with the optional Historical Data Comparison (HDC)* technology. History addressing occurs through auto-loading of historical results and applying rule-based logic for final reporting of indications.

* HDC for RevoSPECT Pro automates the process of retrieval and comparison to data at same tube locations from multiple historical datasets. Comparison to historical data provides the benefit of better identification of changing tube conditions and degradation over time.

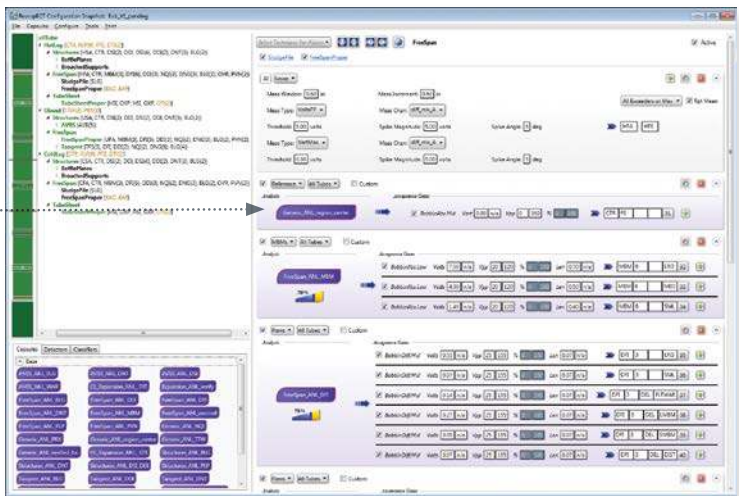
Streamlined, intuitive, and flexible user interface

OPERATOR DASHBOARD



Simplified operator dashboard featuring real-time status feedback on processed tubes and large buttons for control and ease of operation.

CONFIGURATION SCREEN



Multiple path analysis using industry proven detection and classification algorithms, packaged in user-adjustable capsules.

COVERAGE PAGE



Detailed visual depiction of tube regions and coverage for each relevant indication type.

Get to the forefront of analysis

State of the industry

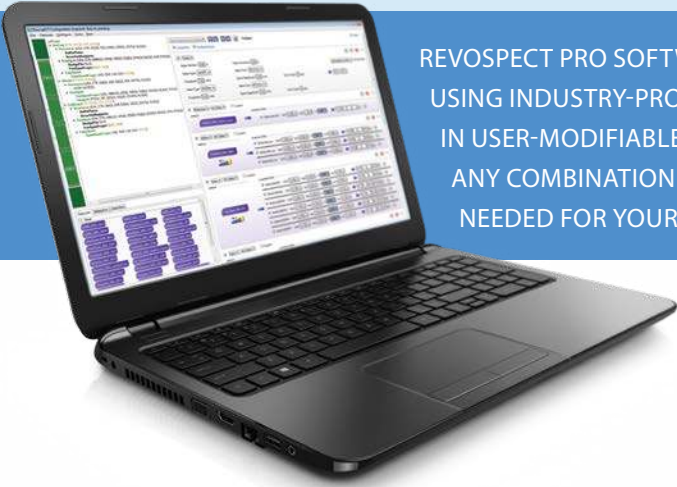
Traditional eddy current analysis relied on highly skilled analysts, with decades of experience, performing repetitive data review of steam generator tubing data. The assumption that manual analysis is safer than automated analysis is being challenged.

Based on an EPRI market survey of nuclear plants worldwide, recent trends show widespread use of automated analysis for secondary inspection and rapid adoption for primary and single-pass inspections.

- Over 95% of plants surveyed use automated analysis for secondary inspection.
- The adoption of automated analysis for primary or single-pass inspection is expected to grow to over 30% within the next two inspection cycles.

The additional benefits of computer-automated analysis—including scalable processing power, redundancy of multiple analysis algorithms, consistent performance, and lack of fatigue—make auto-analysis systems the logical path forward for the industry.

And the addition of new technologies such as automated full-tube history comparison brings additional defense in-depth to the inspection.



REVOSPECT PRO SOFTWARE ENABLES USERS TO PERFORM **MULTIPLE-PATH ANALYSIS** USING INDUSTRY-PROVEN DETECTION AND CLASSIFICATION ALGORITHMS PACKAGED IN USER-MODIFIABLE CAPSULES. A UNIQUE **CUSTOM CONFIGURATION** CAN CONTAIN ANY COMBINATION OF PROBE TECHNOLOGIES AND ANALYSIS METHODOLOGIES NEEDED FOR YOUR INSPECTION.

Benefits for utilities

RevospECT Pro delivers utilities the power of freedom of choice when it comes to selecting the right technology for their business and technical needs. By owning a RevospECT Pro software license, utilities have the opportunity to take control over the analysis system used on their steam generator inspection programs. Having an independent commercial software system creates more continuity between inspections and better visibility of the costs associated with analysis work.

Benefits for service providers

For service providers looking to provide automated analysis service to their customers, RevospECT Pro delivers the power to control the software as their own product. Or, if service providers already have an automated analysis solution, RevospECT Pro provides an additional independent system to augment their analysis offerings. RevospECT Pro creates a compelling story for service providers bidding for new utility inspection work. RevospECT Pro empowers service providers to respond to any automated inspection scenario and technique requested of them by the utility.

Specifications of the RevospECT® Pro software system

Maximum nodes in the distributed processing farm	Scalable to meet your job requirements
Maximum operator dashboard stations	
Maximum simultaneous data input streams	
Techniques that can be processed in parallel	HDC + Array + Bobbin
Techniques supported	Bobbin + Rotating coils + Array
Speed for processing full-length tube bobbin data*	5-6 seconds per tube**
Speed for processing full-length tube array data*	15-20 seconds per tube**

*Based on a system configured for eight guide tubes, 8 dashboard stations and 4 quad core distributed processing farm machines.

**Assumes maximum parallel processing of flaw detection/reporting, historical compare(HDC®), and Noise and Sludge reporting.

Recommended Windows PC machines for RevospECT system

Minimum processor speed	2.4 GHz multi-core processor
Operating system	Microsoft Windows 7 Ultimate or Enterprise – 64 bit
Memory	Recommend 8 GB RAM, 500 GB secondary storage
Graphics card	256 MB video memory
Networking	Recommend Gbit Ethernet network card

FOR MORE INFORMATION ABOUT REVOSPECT PRO, HDC, OR OTHER ZETEC PRODUCTS
CONTACT US AT info@zetec.com OR VISIT www.zetec.com.



Zetec holds ISO 9001
and ISO/IEC 17025
certifications

