ПО для вихретоковых дефектоскопов

Описание

RevospECT® Pro Software

Automated Analysis Power You Control

RevospECT® Pro is the industry's first commercially available high powered, adaptable, and scalable automated analysis system. It provides end users the power and control 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.

FEATURES & BENEFITS

Cut Analysis Time & Resources

Automated analysis cuts time and resources required for inspections

- Fast distributed processing architecture
- Streamlined user interaction
- Utilizing less operators per fixture

Improve Inspection Accuracy

Parameter based processing of signals guarantees repeatable accuracy

- Intrinsically independent analysis algorithms
- Full tube coverage through comprehensive configuration
- Backed by seven years of field deployment experience

Control from Start to Finish

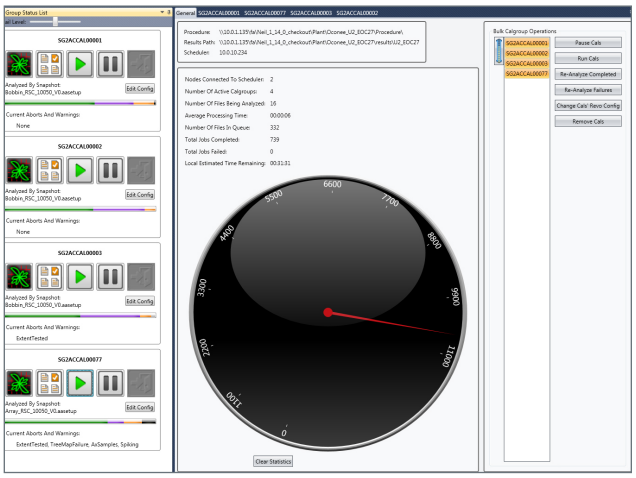
The ability to lock down user configuration guarantees control over reporting results every time

- User defined configuration set-up process
- Flexible results reporting & exporting
- Integrates with existing systems & processes
- User owned system

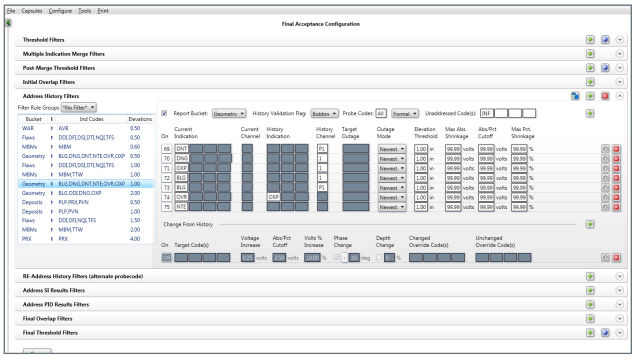
Historical Data Comparison

RevospECT Pro takes 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.

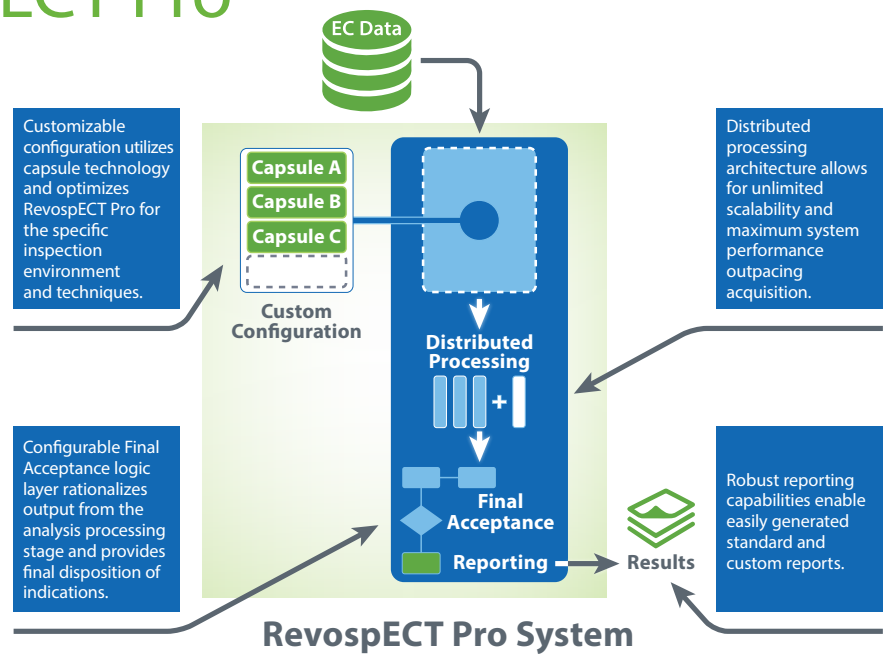


The RevospECT Pro operator dashboard simplifies control and manipulation of the data analysis operations. Featuring real time status feedback on processed tubes and large buttons for control and ease of operation ensure that new users or experts feel comfortable with administration of the RevospECT Pro system.



Final Acceptance layer gives the user control over the disposition of reported indications. The FA screen displays logical and easy to use controls over filters such as thresholds, merge types, overlap and history filters.

RevospECT Pro



SPECIFICATION OF THE REVOSPECT PRO SOFTWARE SYSTEM	
Distributed processing farm nodes	Scalable to meet your job requirements
Operator dashboard stations	
Simultaneous data input streams	
Techniques supported	Bobbin, Rotating Coils, Array
Techniques that can be processed in parallel	HDC + Array + Bobbin
Speed for processing full-length tube bobbin data*	5 to 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 data comparison (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 – 64bit
Memory	Recommend 8GB RAM, 500GB secondary storage
Graphics Card	256MB video memory
Networking	Recommend Gbit Ethernet Network card

UltraVision® ET

Eddy Current Inspection Software for HX Tubing

UltraVision ET leverages the simplicity of the industry proven UltraVision UT software interface and applies it to the heat exchanger tubing eddy current inspection process. Users will enjoy easy job set-up and technique configuration for faster inspections. The intuitive user workflow enables the user to easily step through the bobbin, RFT, or MFL inspection process for heat exchanger tubing. UltraVision ET provides a powerful platform for eddy current data acquisition, analysis, and reporting in one simple, easy-to-use application.

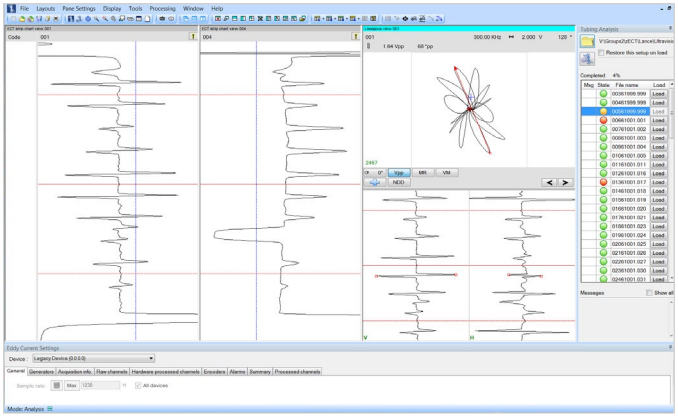
FEATURES & BENEFITS

Quick Software Setup Saves Time

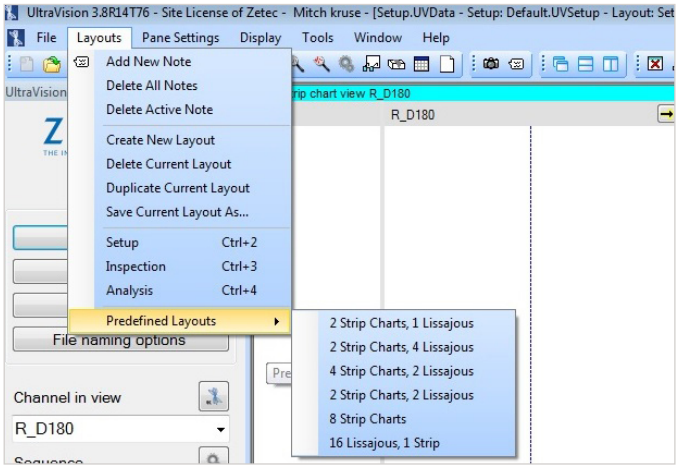
- Rapid technique selection using proposed setups
- Easy access to frequency, voltage, gain, filtering, adjustments
- Versatile alarm configuration and set filtered raw channels
- Pre-defined tubing layouts
- Simplified site setup utilities
- Velocity® file format support
- Support for Zetec MIZ®-200 and MIZ®-28 Eddy Current instruments
- Support for Bobbin, RFT, MFL, SAX, STL, STTSTL, S10, STS, and STG probes
- Support for MultiView/EddyView/ECVision legacy data
- Capability to add depth curve
- American and European calibration method supported

Intuitive Interface Simplifies the User Experience

- Streamlined user interaction
- New Lissajou span and rotate user controls
- Easy steps for setup, calibration, and acquisition
- Simple file management tools
- Intuitive inspection process workflow
- Configuration, inspection, analysis & reporting in a single application
- Import CSV and LST (CARTO®) test plans to configure inspection lists



User interface borrows from the industry leading Ultravision software for ultrasound. User can rapidly select a complete setup for a given probe technique/material in less than one minute.

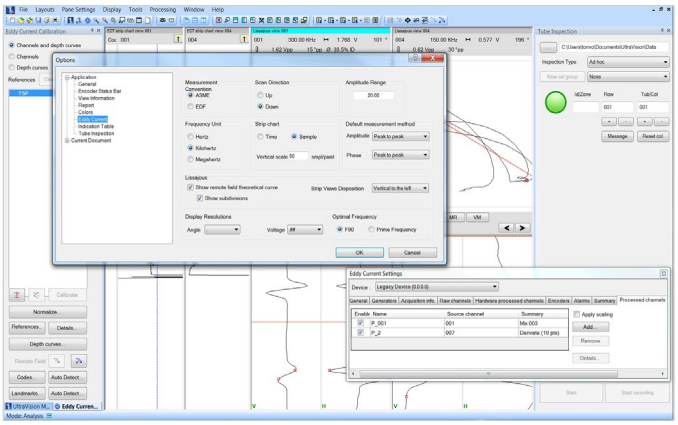


Easily modify the screen display with pre-defined or customizable window layouts to meet acquisition or analysis needs. Dock-able windows can be moved or sized for optimal screen viewing.

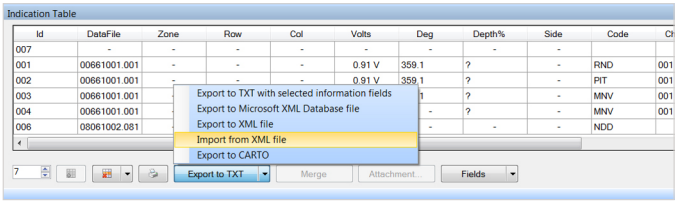
UltraVision® ET

Flexible Toolset Improves Inspection Efficiency

- Rapidly adjust configurations from acquisition screen
- Simple tabs toggle between acquisition and analysis functions
- Special curves available for RFT analysis
- Control multiple Instruments at one workstation
- Tube land-marking capabilities
- PDF reporting format
- Support for depth curve creation
- Support for robotics controlled by Zetec ZMC2 and ZMC4



A full set of settings and options for on-screen control of tubing data acquisition and analysis processes in one application.



Instantly generate reports and export to XML, TXT, or PDF formats.

EQUIPMENT	ACQUISITION	ANALYSIS
Instruments	MIZ-200, ZMC2, ZMC4	MIZ-200, MIZ-28, MIZ-27, TC7700, MS5800, TC6700, TC5700
Probes	BOBBIN, RFT, MFL, SAX, STL, STTSTL, S10, STS, STG	
Pushers	3D	NA
PC Hardware	Operating system—Windows 7, 10 Processor speed—2.4GHz or greater, multi-core Memory—recommended 8GB RAM, 128GB HDD Graphics card—2GB video memory for 3D graphics	

Velocity™ PC Software

For Acquisition, Analysis and Data Management

Zetec's new *Velocity*™ Software has been customized to the BOP/HX market and is easy to use and offers improved analysis and filtering capabilities.

FEATURES & BENEFITS

ACQUISITION

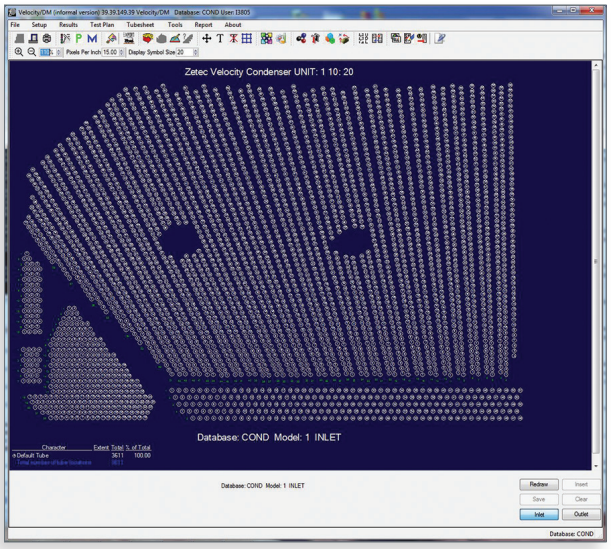
- Compatible with the Zetec MIZ-200

ANALYSIS

- Improved locating feature
- Report Editor enhancements include increased global editing features and flexibility for single line editing
- Database features added to improve user friendliness
- Ability to read competitor's data format
- Ability to create single project folders containing all component specific information

DATA MANAGEMENT

- Advanced Reporting Tools
- Enhanced tubesheet building capabilities
- Test plans accessible and updated from AQ



Zetec Velocity™/DM Data Management

Velocity™ Software is able to interface to a wide variety of Instruments, Probes and Pushers

EQUIPMENT	ACQUISITION (AQ)	ANALYSIS (AN)
Instruments	• MIZ-200	• MIZ-200 • MIZ-85 • MIZ-28 • MS-5800 • TC7700 • MIZ-43 • MIZ-27 • MIZ-30
Probes	• Bobbin • X-Probe and CXB probes • Surface Array • MRPC • RFT (LV, HV) • Motor Units • MFL • NFT • AC3	• Bobbin • X-Probe and CXB probes • Surface Array • MRPC • RFT (LV, HV) • Motor Units • MFL • NFT • AC3
Pushers	3D & 10D	N/A

Velocity™ PC Software

For Acquisition, Analysis and Data Management

Velocity™ PC products are available through several modules to match the inspection activity. Each module has been developed with decades of experience in BOP and steam generator eddy current inspections.

Velocity™/AQ

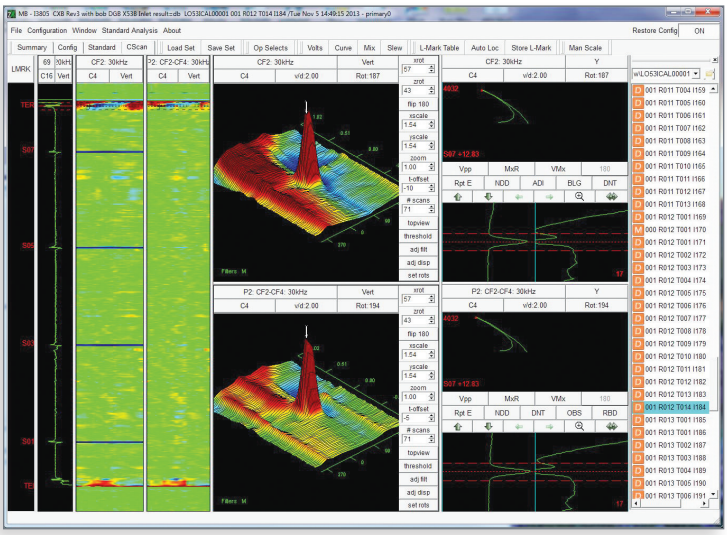
Acquisition Software

- Auto Acquire (Auto Start & Stop)
- Network Hardware Identification Utility
- Integrated Test Management

Velocity™/AN

Analysis Features

- Bobbin Analysis
- MRPC Analysis
- Array Analysis
- Enhanced C-Scan
- E-Resolution
- Multi-datafile comparison
- One all-inclusive DB per component



Zetec Velocity™/AN Analysis

Velocity™/DM

Data Management

- Inspection Planning
- Inspection Mgmt
- Historical Data Mgmt
- Test Plans
- PID Test
- Extent Reporting Tool
- Auto Closeout Reporting Tool
- Tubesheet Builder
- Multi Cal append

Zetec: Innovation That Delivers Results

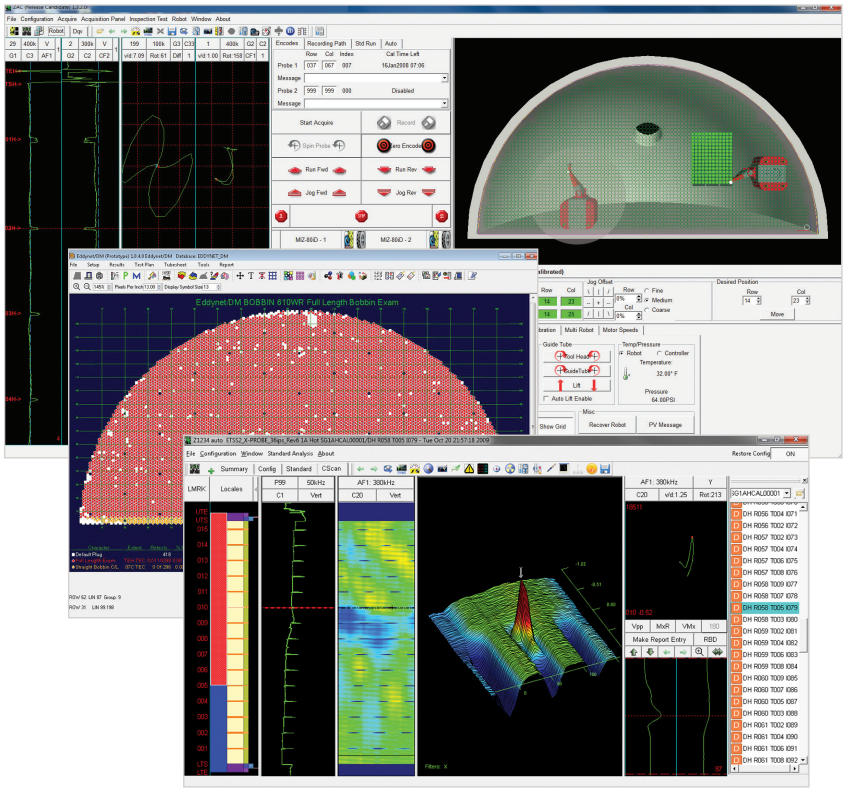
For nearly 50 years, Zetec has advanced NDT standards and science. We provide new insight and control through inspection solutions that protect our customers' most important assets and ensure the quality of their products. By integrating design and engineering with our own manufacturing, Zetec delivers solutions that optimize productivity, safety and total cost of ownership.

EDDYNET PC SOFTWARE

For Acquisition, Data Management and Analysis

FEATURES & BENEFITS

- Familiar Eddynet functionality in an updated Windows® PC platform for easy transition from EddynetSuite
- Individually licensed programs for maximum deployment flexibility
- Leverages familiar Windows® PC operating system for simplified utilities and administration
- Full integration between applications to ensure best practices for steam generator inspections



THE ORIGINAL JUST GOT BETTER

From the world leader in eddy current steam generator inspection software comes Eddynet on the Windows PC platform. Eddynet now has the flexibility to be operated from a wider array of hardware choices. A new licensing methodology allows users to select from separately licensed acquisition, data management, and analysis modules for ultimate flexibility to match their specific inspection needs.

Familiar EddynetSuite features and modules are available from the Eddynet PC software making an easy transition for experienced users.

In addition, Eddynet PC products utilize the underlying Windows OS to make the task of network administration, file utilities, and printing much simpler.

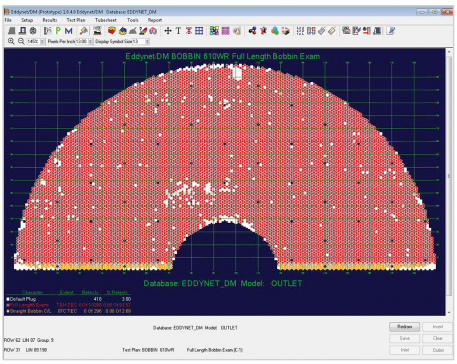
For Acquisition, Data Management and Analysis

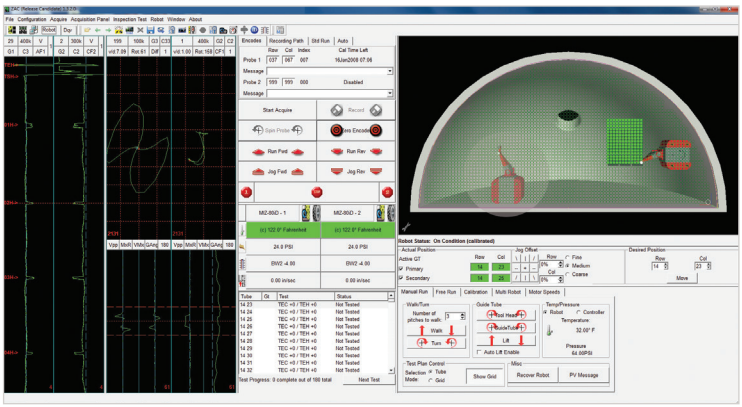
Eddynet PC products are available through several modules to match the inspection activity. Each module has been developed with decades of experience in steam generator eddy current inspections.

Eddynet/DM

Data management

- Inspection Planning
- Inspection Mgmt
- Historical Mgmt
- APTS
- Test Plans
- Special Interest Test
- PID Test
- Test Plan Groups
- Test Plan Scanner Tool
- Extent Reporting Tool
- Advanced Reports Tools
- Auto Closeout Reporting Tool
- HMS/EIMS exports
- Tubesheet Builder
- Cal-Board





Eddynet/AQ

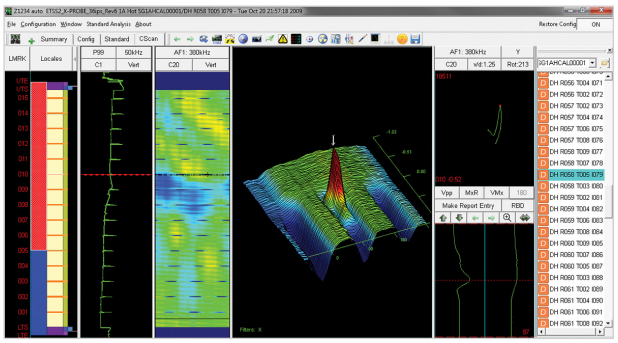
Acquisition Software

- Auto Acquire (AAS & Scripted AAS)
- MIZ-iD support
- DQV (optional)
- PIMS (Probe Inventory Management)
- Data Stripper (X-Probe/Bobbin)
- Network Hardware Identification Utility
- Integrated Test Management

Eddynet/AN Analysis

Data management features

- Bobbin Analysis
- MRPC Analysis
- Array Analysis
- Advanced C-Scan
- E-Resolution
- APTS
- Bobbin Profile
- Array Profile
- D-Probe Profile
- Multi-datafile comparison



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