

Advanced Eddy Current Data Acquisition and Analysis Software

Magnifi® is the most comprehensive, stable, and reliable acquisition and analysis software for multitechnology surface and tube inspections. Magnifi must now be considered the preferred solution for mission-critical inspections that demand data storage or advanced analysis.

Magnifi features a setup wizard with which you can be up and running for your type of inspection and probe in just a few simple steps.

Data analysis has also never been faster or more precise with the help of automatic landmark detection and unique advanced sizing curves that can be displayed in terms of percentages (of loss or remaining), various units of measurement, or custom units of measurement calibrated by operators.

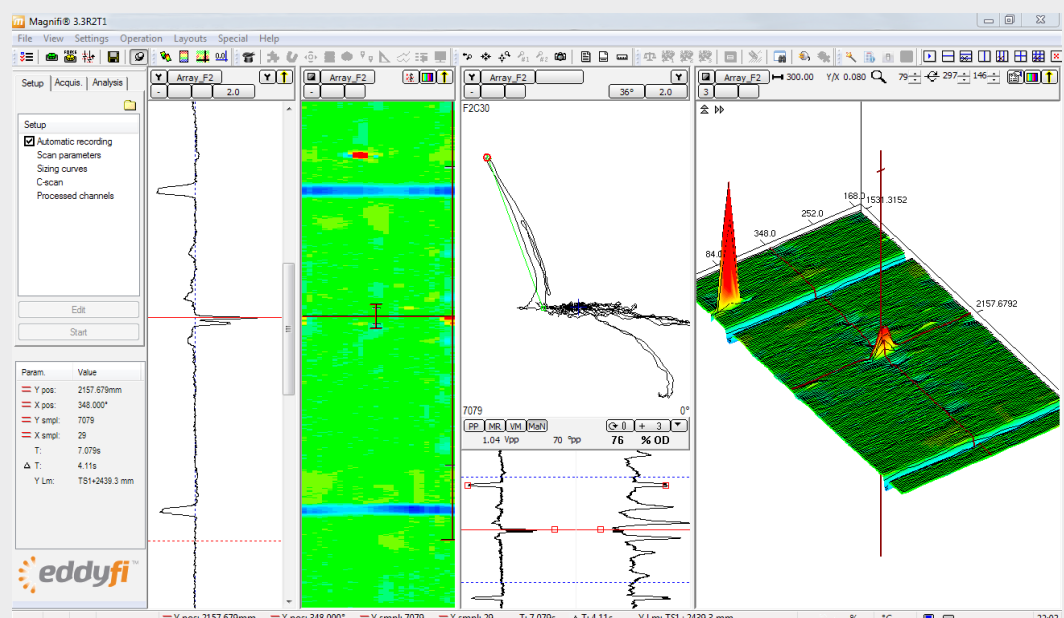
Magnifi also offers live IRIS A-scans and C-scans along with other usual views, and on-the-fly reporting based on the encoder, which means you do not have to stop scanning to report a defect.

Remote-field testing is made easier with Magnifi by way of the voltage plane. It is now very easy to identify changes in material properties, compensate for these changes, and track compensations through time, which make scan data much easier to analyze and reduce potential sizing errors.

Magnifi can drive the Ectane, the TC7700, and the MS5800, as well as read most data files acquired with the MS5800 and TC instruments. It can also read most setup files created with ECVision, EddyView, and MultiView. That makes switching from older, less advanced acquisition and analysis software a breeze.

KEY FEATURES AND BENEFITS

- Setup wizard
- Remote controls
- Advanced sizing curves
- Automatic and manual landmark detection
- RFT voltage plane
- IRIS live A-scan
- Capable of driving TC7700™ and MS5800™
- Can read and analyze most files from MS5800, TC instruments, ECVision®, EddyView™, and MultiView™
- Export inspection reports to TubePro, CARTO, and TSD
- Dual use with Zetec's UltraVision®



SPECIFICATIONS

Setup

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|----------------------------|---|
| Setup wizard | Supports tube and surface application with conventional and array probes. |
| Calibration | Easy to use calibration systems covering channels, C-scans, sizing curves, landmarks, and IRIS. |
| Probe database | Includes all standard tubing and surface array probes, and allows the creation of custom probes. |
| Material database | Used by the setup wizard to recommend inspection frequencies. You can add custom material and share it with other users. |
| Layout | Fully customizable layout with backup, restore, and import functionalities. |
| Data visualization | Strip charts, Lissajous, voltage plane, 2D and 3D C-scans, 2D and 3D polar scans, side, code, A-scan, and projection views. |
| IRIS real-time view | Easier setup with all views combined and in real time (A-scan, C-scan, and projection). |

Data Acquisition

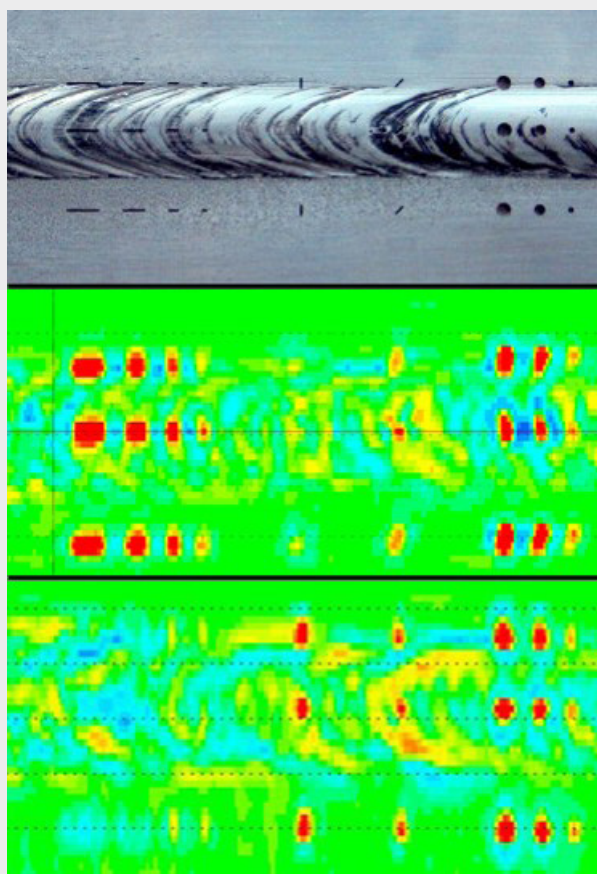
| | |
|------------------------------|---|
| Supported instruments | Ectane™, TC7700, and MS5800 (excluding IRIS). |
| Supported scan types | Linear, rotating, raster, and polar scans with single-channel or array probes. |
| Inspection projects | Setup and data management by project and inspection. |
| Remote controls | Programmable digital input to perform software tasks such as balance, start/stop, clear screen, next file, etc. |
| Acquisition licenses | Supports data acquisition without a license key. Also supports various acquisition layouts (including C-scan displays). |

Data Analysis

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|--------------------------------------|--|
| Measurement tools | Automatic or manual with various measurement modes for amplitude and phase (peak-to-peak, maximum rate, absolute, etc.). |
| Sizing curves | Unlimited number of curves that can be created for channels and C-scans. Support arbitrary units (mm, in., S/m, %IACS, etc.). |
| Channel and C-scan processing | Advanced processing capability including filters (HP, LP, median), scale, derivative, mixing, voltage plane (channel only), detect indication, detect landmark, etc. |
| Voltage plane | Advance voltage plane display that allows nominal point management (normalization, saving, restore), monitoring normalization corrections, and rotating links with the differential channel. |
| Landmarks | Manual and automatic landmark detection based on a landmark table. Allows accurate positioning of defects. |
| Screen capture | Entire screen, window, or region. |
| Indication codes | Supports various types of codes (defect, feature, or no indication) with automatic comments added to the report, if necessary. |
| Reporting | Table with selectable column format. Double-click a defect code to reload analyzed data and export the results to TubePro, CARTO, TSD, or text file. |
| Color palette | Various color palettes for C-scan imaging. |
| C-scan subtraction cursors | Horizontal or vertical subtraction. Option to link the position to the main selector cursor. |

Compatibility

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|---------------------------|--|
| ECVision, EddyView | Reads data acquired with TC7700 and MS5800. |
| MultiView | Reads most data acquired with MS5800, except IRIS. |
| UltraVision | Capable of dual use. |
| Operating systems | Windows® XP service pack 3 Windows 7 32-bit and 64-bit editions |



Longitudinal notches Transverse notches Oblique notches Flat-bottom holes

Example of weld inspection display

ORDERING INFORMATION

Upgrade program available — inquire for details.

MAGNIFI-XX-YYY-ZZ

XX: Version number

YYY

FUL — Conventional and array with 2D and 3D C-scans

HXC — Conventional inspection and C-scan for IRIS

HXS — Conventional inspection (no C-scan)

ZZ (instruments act as license keys to perform acquisition)

HK: Hardware key

SK: Software key



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