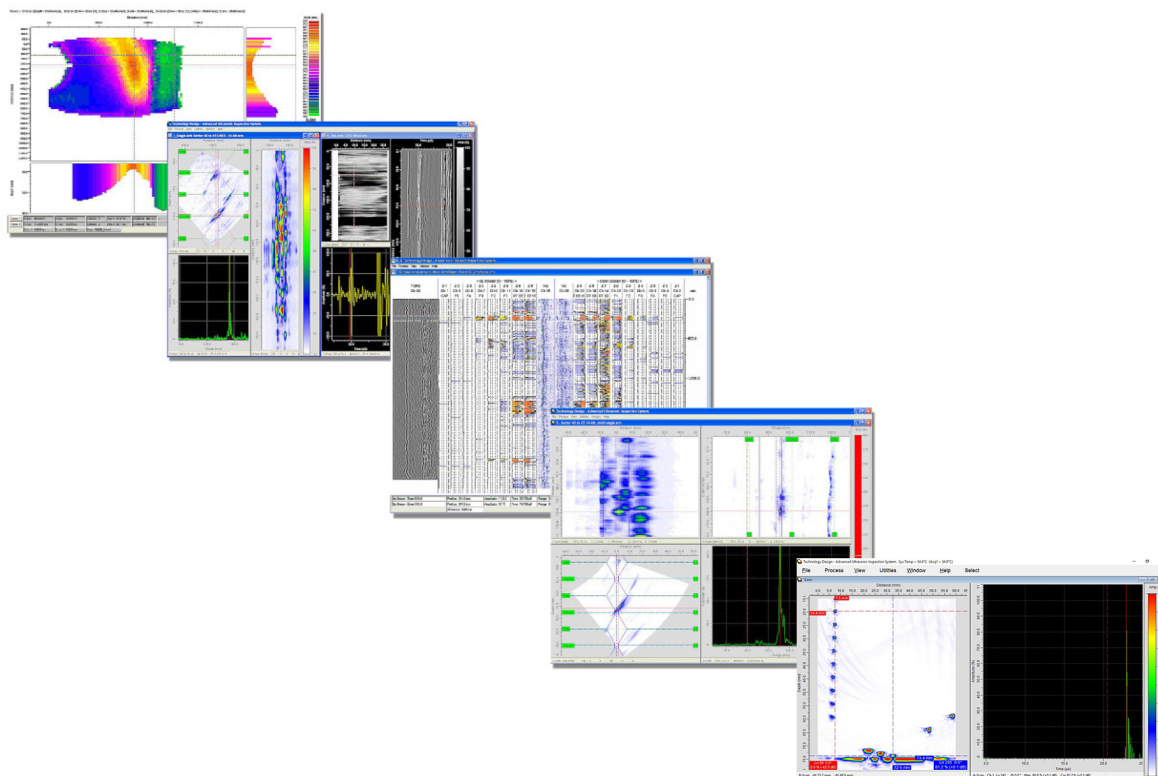




TD Scan Software - Multi-Function Ultrasonic Inspection Systems



Features

- Intuitive user-friendly menus
- Powerful, easy to use analysis tools
- Fully integrated TOFD, Pulse Echo and Phased Array
- FMC/TFM controls and imaging
- One software suite for all instruments in the TD range
- Real-time A, B, C, D & S-scan imaging
- Weld geometry overlays
- TD Super-View for complete user-controlled imaging

Techniques

- Phased Array
- FMC/TFM
- ToFD
- Pulse Echo
- Corrosion Mapping

Applications

- Pressure Vessel Welds
- Pipeline Welds
- Structural Welds
- Forgings & Castings
- Turbine Disks & Blades
- Aircraft Components
- Hydrogen Damage Surveys
- Corrosion Surveys
- Composite structures

Software

- Phased Array/Pulse Echo
- FMC/TFM
- ToFD
- Strip-Scan zonal software
- Long Range (C.HIME)
- TD Super-View



TD Scan Software Specification & Features

Software

General Features

- Simultaneous Phased Array, TOFD and Pulse Echo data collection
- TFM/FMC
- Operator definable weld geometry overlays
- Real-time A, B, C and D-Scan images, with user defined display modes
- Internal report generation including interactive print preview and user-definable report fields
- Full cursor analysis indicating peak depth, amplitude (% and relative dB) and X/Y position
- Export Bitmap images to any Windows® application
- 8 or 14 bit Data collection (Phased array, TOFD and Pulse Echo)
- Spectral analysis
- Import ESBeamTool® setups

Phased Array

- User configurable control of beam angle, focal distance and spot size
- Fixed-angle electronic or sectorial scans
- Dynamic Depth Focusing (DDF) provides a user-definable focal range
- Supports Linear, Dual Linear, Matrix and 2-D Matrix probe/wedge geometry
- Normalisation of amplitude across sectorial scan angles or fixed angle focal laws
- Skip Correction provides correct depth/range relationship for multiple legs
- TFM/FMC (conventional TFM, Plane Wave Imaging, Virtual Source Imaging - linear and swept)

ToFD

- Perform simultaneously multi-channel TOFD and Pulse Echo inspections
- Full suite of image analysis tools for defect/crack sizing
- Real-time multi-channel averaging significantly improves signal quality
- Linearisation, Straightening, Synthetic-Aperture-Focusing-Technique (SAFT)
- File utilities include file join, split, reverse, save partial, output data to text file etc

Pulse Echo

- Independent control of transmit and receive parameters
- C-scan with end/side views for corrosion mapping
- Trigger reference modes including Interface Echo or Tx Pulse
- Multiple peak data storage modes, including full/selective A-Scan storage

Weld Zone Discrimination

- Combined TOFD, Time/Amplitude view, Map view, Couplant Check and Go/No-Go in a single pass
- Inspection data displayed as strip-charts indicating weld zones
- Integrated TOFD analysis
- Automated report generator