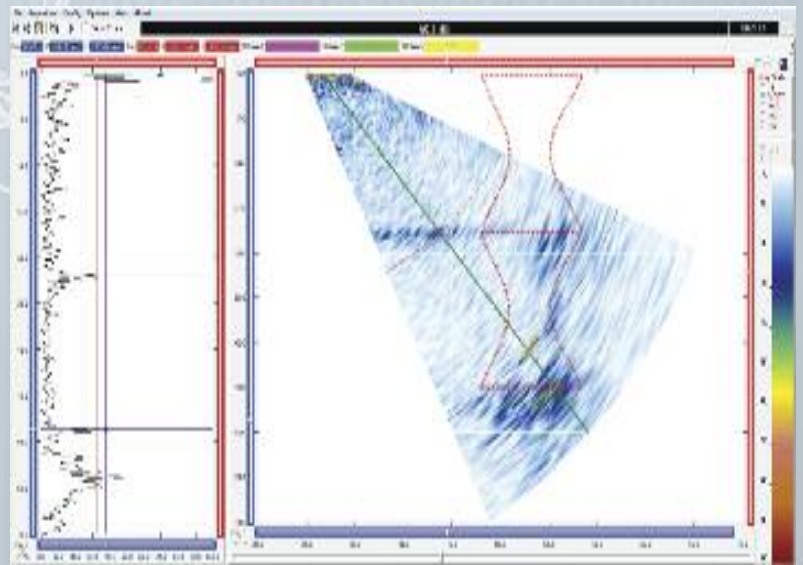


EVALUATION AND CONTROL SOFTWARE

All the equipment manufactured by DASEL is supported by powerful software tools to easily configure the system parameters, display the signals and images and evaluate possible defects.

DASEL also provides a set of Library Toolboxes for different programming environments such as C++, LabVIEW or MATLAB, in order to facilitate the integration of their equipments into automatic inspection systems and R&D laboratories.

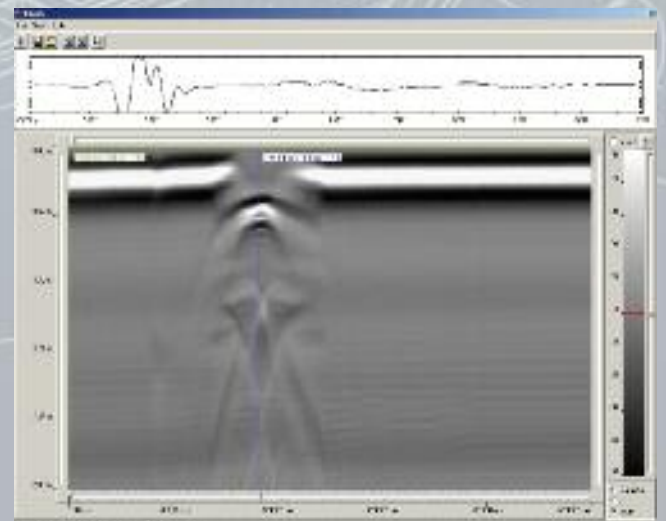
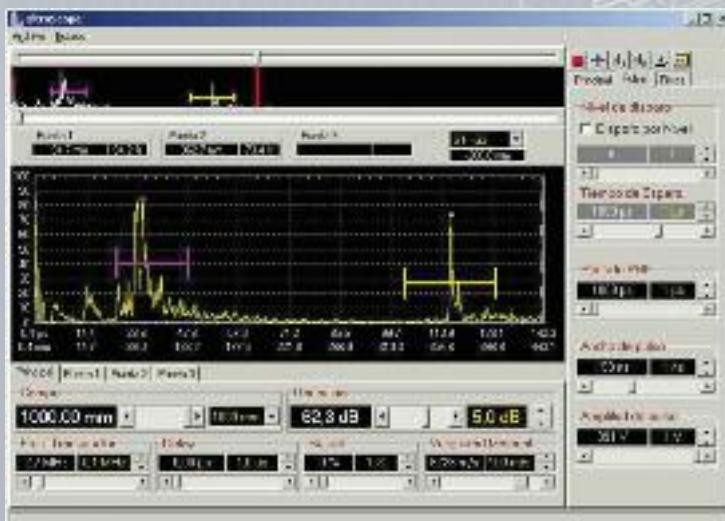


ULTRAVIEW

The software suite for ULTRASCOPE systems.

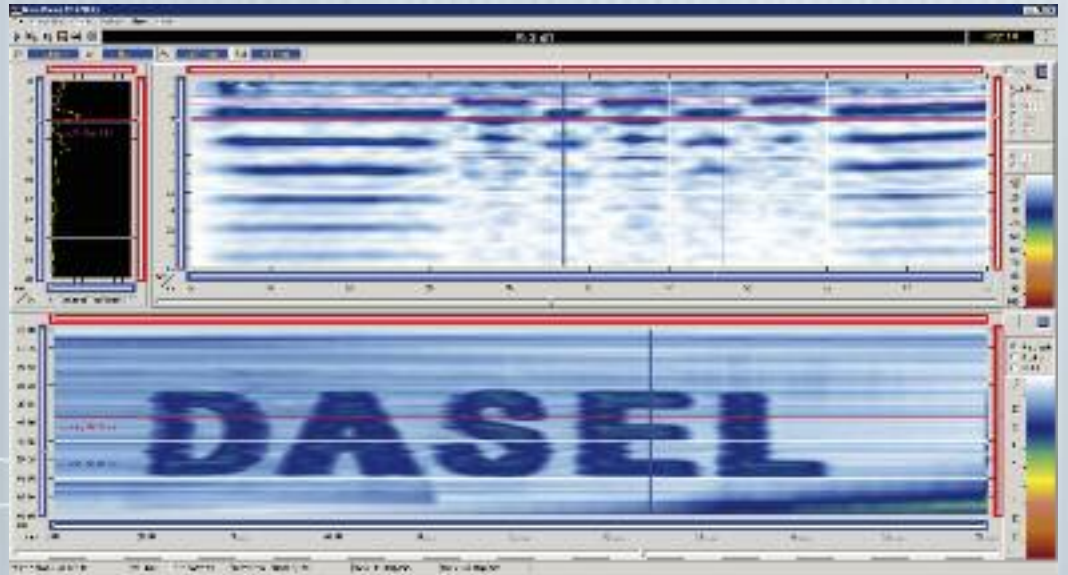
Being intuitive and easy to use, it allows taking most advantage of all features available in ULTRASCOPE systems. It is possible to display the captured A-scan and evaluate the possible defects in the material under test.

UltraView is also available in versions for air-coupling (Airscope-TT) and wood inspection (Ultrawood).



SCANVIEW

The software suite for SITAU Phased-Array equipments.



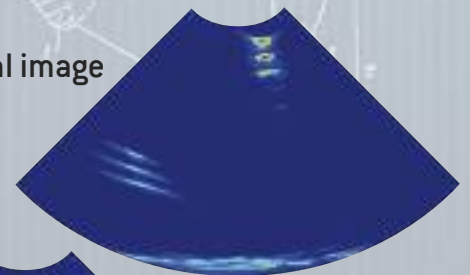
Its intuitive design reduces the learning curve, and so on, the time required to configure the equipment. Furthermore, it takes the maximum advantage of all functionality included in SITAU systems. For example: introducing wedge parameters, results presentation in all kind of views (A, B, C-scans) with measurement cursors of position, amplitude, attenuation and time-of-flight. Moreover, ScanVIEW includes a set of toolboxes for presenting, evaluat-

ing and sizing possible defects, save and export the captured data and create automated reports. The software also allows synchronizing acquisitions with the probe movement and position over the test material, which allows multiple stop-and-run interruptions during the inspection procedure while maintaining data integrity.

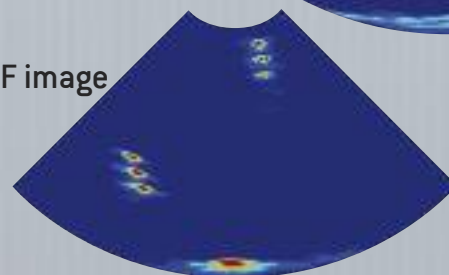
Main features

- Advanced data analysis
- Fully customizable display
- Wizard menu
- Customizable and Flexible reporting
- Off-line peak gate calibration
- Easy wedge configuration and Auto-Focus mode
- Metric and US customary units
- Fast gain /range / focal point adjustment
- Ability to open multiple files simultaneously
- S-scan, L-scan, F-scan C-scan Display tool
- Off-line A-scan synchronization
- Off-line Scan/Index/Sound axis calibration
- Ability to import focal laws from other platforms

Conventional image



DDF image



Advanced features

- Grain-Noise-Reduction Filter
- EMI reduction filter
- Intelligent data compression
- True Dynamic-Depth-Focusing



TOFDVIEW

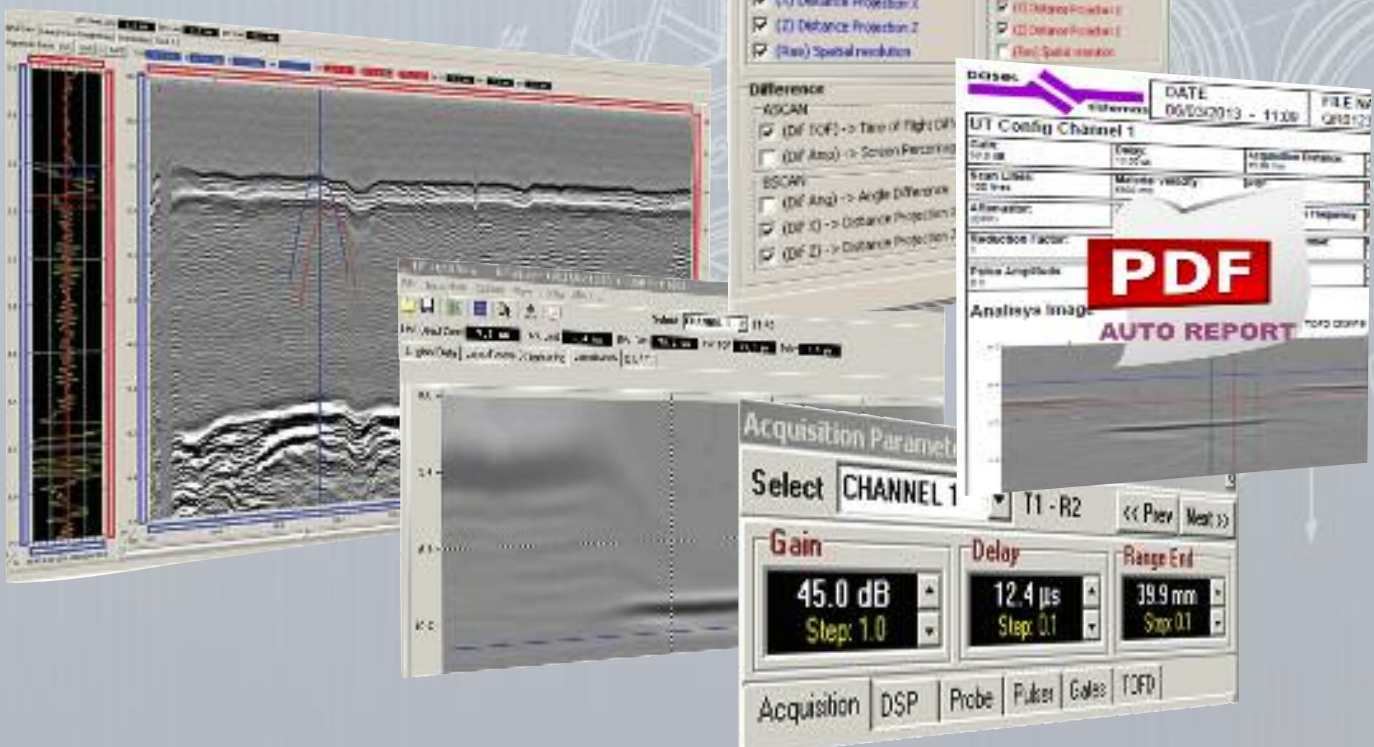
Features & Benefits

- Linearisation
- Lateral wave straightening
- SAFT
- XY Cursors (B-Scan+A-Scan)
- Depth Calculation
- Gray scale with threshold
- PCS Calibration wizard
- Hyperbolic Cursor Toolbox
- Lateral wave removal
- Up to 32 Channels
- Auto Report in PDF
- Single Channel and Multi-Channel
- Manual, Semiautomatic, and Automatic modes
- A-, B-, C-Scan, Amplitude / TOF
- 100% Open Raw Data Recording
- Compliance with ASME and UNE Procedures
- Huge Data Storage Capability

TOFDView is the ideal software solution for weld inspection by TOFD technique.

With this tool you can get the maximum performance of DIFRASCOPE systems. Its simple and easy to use interface, allows you to display images, save and export the acquired data and size possible flaws.

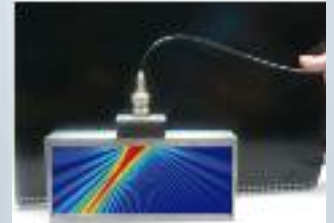
It includes many advanced processing techniques like lateral wave straightening and lateral resolution improvement by synthetic aperture (SAFT)



FOCALSIM: FAST ULTRASONIC SIMULATION SOFTWARE



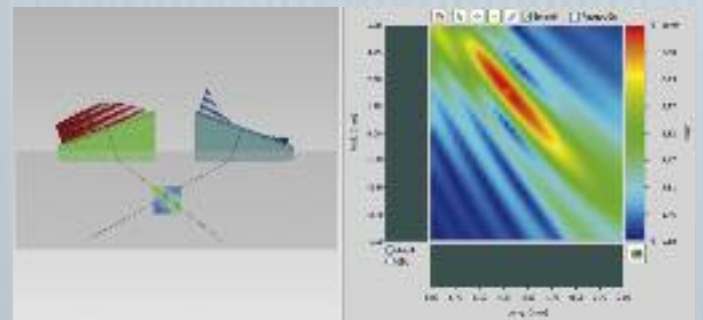
FocalSim can handle complex geometries, as well as the latest developments in probes, inspection strategies and data-analysis techniques.



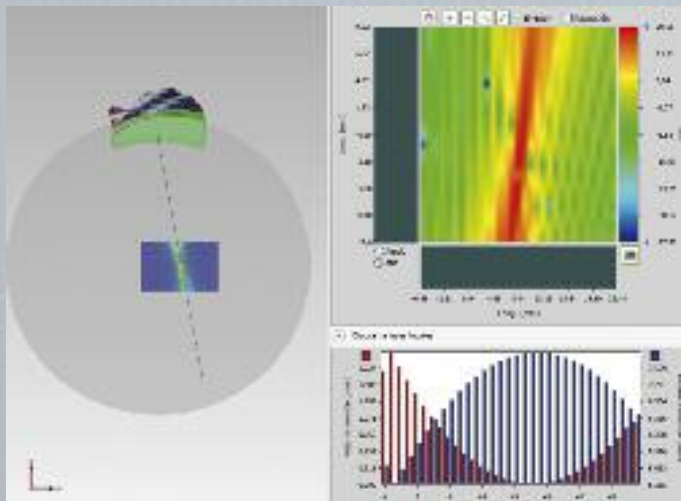
Being able to accurately simulate your inspection during the design process, it allows you to identify and account for critical issues. This procedure greatly reduces unforeseen problems, and thus, additional costs during operation.

Results are used to optimize inspection strategies, verify inspection parameters, and help in the analysis of results.

DASEL has developed this powerful acoustic field simulation tool, based on the monochromatic wave equation solution in homogeneous media, and the Ray-tracing method for the focal law calculation, which allows the user to have a more precise idea of the behaviour, shape and distribution of the



The exported Focal Laws allows to configure SITAU® devices for the specific inspection.

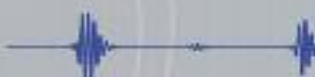


ultrasonic beam into the specimen. The obtained focal laws can be exported to SITAU systems or to other Phased-Array equipments that accept these input parameters.

FocalSim makes it possible to understand and visualize the acoustic field radiated by any Phased Array probe in a NDT inspection. The simulation re-

MAIN FEATURES

- Fast focal laws calculation and acoustic field simulation.
- Exportable Focal laws for compatible devices.
- Exportable ray entry point for compatible devices.
- Acoustic field simulation in narrow band.
- Implements the most advanced Phased Arrays probes in the market.
- Multiple mediums.
- Dynamic Focusing Focal Law (DDF) calculator.
- Linear Scan.
- Angular Scan.



MOTORMOTION

MotorMOTION is the application software for controlling the immersion inspection tanks manufactured by DASEL.

MotorMOTION is a fully programmable stepper-motor control unit, capable of simultaneously controlling up to 3 axes, with configurable acceleration ramp and micro-steps. It also includes 6 limit switches and emergency stop switch control, and

supports motor currents from 1.2A up to 5.6A. This unit is provided with an user software with B and C-Scan capabilities. It also includes a programming library for C++, LabView or Matlab.

MAIN CONTROL FUNCTIONS

- MC_Open()
- MC_Close()
- MC_VelocityConfig(value)
- MC_Move(axis, direction, steps)
- MC_GetStatus(*status)

