M2M CAPTURE

Be the best inspector you can be

Streamlined PAUT software for
M2M Gekko®, Mantis™, and PC.

Eddyfi
Technologies

ADVANCED PHASED ARRAY
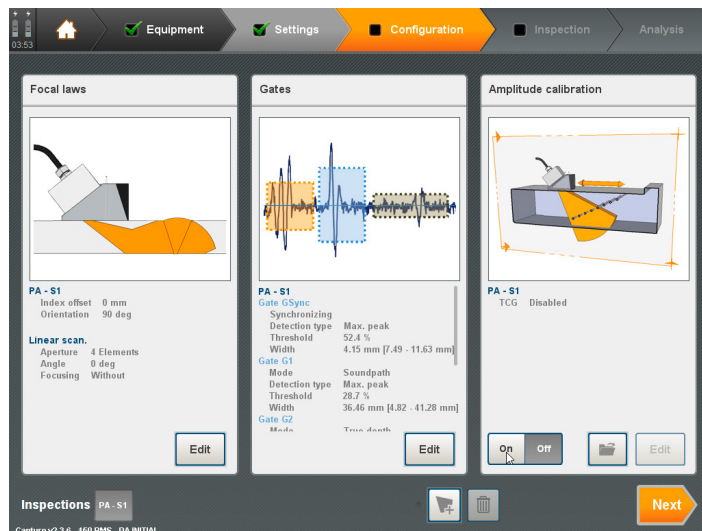# ULTRASONICS MADE SIMPLE

Capture™ is the streamlined software embedded in M2M Gekko® and
Mantis™ portable flaw detectors, and also available for PC.

Intuitive and Efficient Workflow

Benefiting from over 6-years in the field experience with TFM, Capture offers the fastest code-compliant TFM on the market.
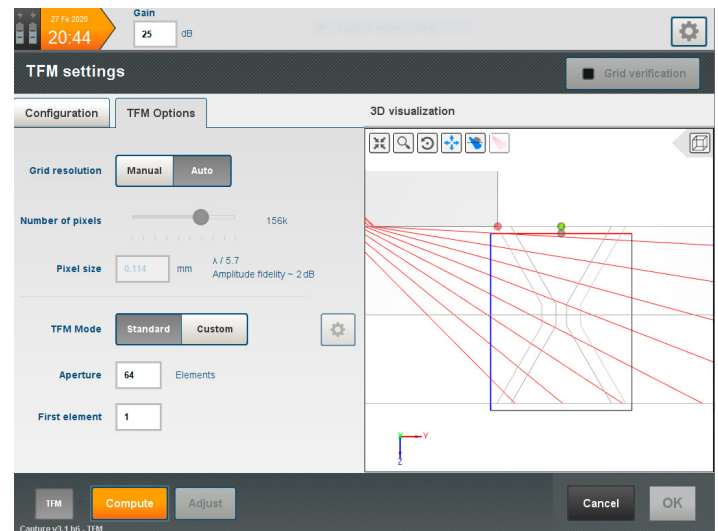
Capture software covers all your inspection needs from application design to inspection and reporting. Designed for all levels of phased-array inspectors, Capture requires minimum training and is a quick and easy way to improve knowledge.

- Application templates with step by step application design
- Comprehensive probe, wedge, and scanner libraries
- Fast and intuitive calibration wizards
- Onboard focal law calculator for probe configurations
- Customizable inspection report

Complete TFM toolbox

- High-resolution real-time TFM up to 250k pixels and up to 128 elements
- Scan speed up to 140 images/s with 64 elements for typical weld inspection (1in WT)
- Compatible with linear, matrix, DLA and DMA probes and all calibration wizards including advanced TCG
- Unique grid verification tool compliant with ASME-V/ISO-DIS-23865 codes
- Elementary FMC and PWI transmission modes
- All TFM computation paths (direct, indirect, converted modes)
- Full Matrix Capture (FMC) recording

FEATURES

- Intuitive and efficient workflow
- Code-compliant TFM at industrial scan speed
- Dedicated solutions for complex geometries
- One software covering all your PAUT/TOFD inspection
- Advanced analysis simplified
- Continuous innovation driven by market applications

Unique 3-click Calibration Wizards

In addition to complete scan plans for all techniques, smart 3-click calibration wizards will help you work smarter:

- Part and wedge velocity
- Amplitude balancing and dead element check
- Best-in-class wedge delay and angle calibration including AOD/COD wedges
- Innovative and advanced TCG calibration

Wedge verification and TCG are essential calibration steps that have historically been complicated and time consuming. Capture does it accurately, quickly and easily.

EFFICIENT WORKFLOW WITH ENHANCED DATA QUALITY

Dedicated to conventional Ultrasonic Testing (UT), Phased Array UT (PAUT), Time-of-Flight-Diffraction (TOFD), Total Focusing Method (TFM) and Adaptive Total Focusing Method (ATFM).
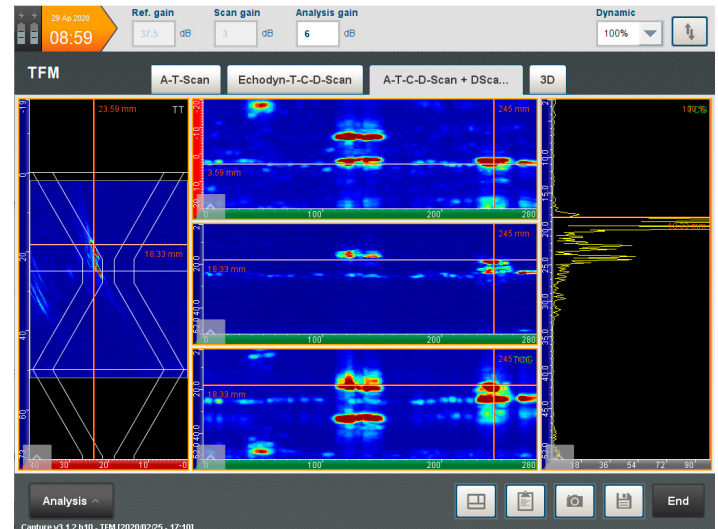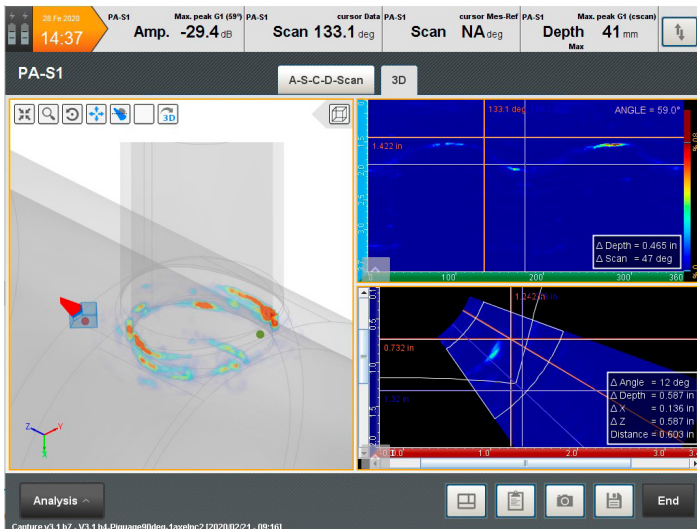
Advanced Solutions

Improved Probability-Of-Detection (POD), better and faster defect characterization for simple and more complex components.

- Nozzle inspection, 3-axis scanner and live cross-section views
- Fillet welds (T, Y) with multi-skip ray tracing and live signal display
- 2.5D CAD overlay import
- Natively compatible with the RMS PA Silverwing scanner
- Custom dual linear (DLA) and dual matrix (DMA) configurations
- Paintbrush 2D mapping with 3-axis rotating arm
- Unique Adaptive (ATFM) solution for wavy surfaces

Enhanced Data Display and Quality

Better clarity leads to better efficiency, Capture offers a set of tools for all techniques including TFM that improves data display such as:

- A-B-C-D-Scan, Top and Side views, and echodynamics
- Real-time 3D view and component overlay display
- Live missed data information
- Interface echo straightening for corrosion mapping
- 16bits and 800% amplitude dynamic to prevent saturation
- No compromise on data file size (no limitation, SSD up to 1 TB)
- Tools required to visualize and check data quality

Advanced Analysis Simplified

- Indication creation from cursors
- Thickness and overlay edition
- Customizable view layouts for all groups
- Off-line gate edition
- Advanced readings banner
- Indication auto-sizing at -XdB (customizable)
- C-Scan stitching
- Advanced reporting tools, customizable indication table
- Data export (pdf and excel)
- Data projection in the 3D view

Connected Software Platform

Capture is natively embedded in Gekko and Mantis PAUT/TOFD units and provides the same features for PC. Windows based, it offers full connectivity to simplify data management.

- Easy file management and remote control through ethernet/wireless (TightVNC, TeamViewer integrated solutions)
- Multi-sessions Capture PC
- Compatible with CIVA Analysis and Ultis
- API available for data access for 3rd party software
- Easily tranfer data to PC or tablet for further analysis.

CAPTURE VERSIONS

	GO	VIEW	CPN	PRO
Platform:				
Mantis	●			
Gekko	●			
PC		●	●	●
Setup & Inspection				
UT, PAUT, TOFD, TFM, ATFM** techniques	●*		●	●
Plate, Pipe with weld overlay and HAZ	●		●	●
Advanced geometries (nozzle, fillet weld, CAD import)	●*		●	●
Scan plan with multiskip ray & signal display	●		●	●
TFM toolbox (FMC, PWI, grid verification tool, TCG…)	●*		●	●
Multigroup settings	●*		●	●
3-click cal. wizards for all techniques	●			
data acquisition up to 3 encoded axis	●*			
FMC data recording	●*			
Data analysis				
Readings banner & indication table	●	●	●	●
Cursor position	●	●	●	●
Zoom & Full screen	●	●	●	●
A-Scan, B-Scan, C-Scan, D-Scan, E-Scan, S-Scan, T-Scan views, echodyn	●	●	●	●
Top view, side view, 3D view	●		●	●
Customizable layout edition	●		●	●
Offline gate & thickness edition	●		●	●
TOFD tools (WD, LW straightening and removal)	●		●	●
Defect auto-sizing (-XdB)	●			●
C-Scan stitching and data merging	●			●
3D data rendering	●			●

* According to the Package
** Add-on module sold separately

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