What's New in Prisma Version 3.4.X

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Prisma List of Enhancements

- User Guide Release, stored on Prisma SSD (Solid State Drive) & on DVD
- Add a UT Hi-PRF mode
 - A-Scan redraw enhancement, combination of multiple ultrasonic beam at high PRF (>60Hz) using a keep maximum algorithm.
 - Fast detect capability
- Signal Enhancement
 - Jitter reduction on amplitude at low and hi PRF (at high voltage)
 - Equal distribution of PRF (enhance signal stability)
 - Increase SNR
- Curved parts support in UT :
 - New type of part added: "Inside Pipe (ID)" and "Outside Pipe (OD)"
 - Defect positioning on 3D curved part
 - Curve Part Measurement (Depth and Surface Distance considering curvature)
- Spike mode support, a new parameter has been added in probe menu: "Pulse Type"
- DGS enhancement
 - Add "material attenuation" to DGS wizard
 - Enhance curve drawing; continue calculating points in the entirelistening window.
 - Add "Split DGS" enhancements
 - Add a "DGS Options" section into Scan to ease control without entering wizard
 - Add "Curve Ref Correct" into "DGS Options" section to allow/disallow curve displacement when changing gain
- DAC enhancement
 - Add "Split DAC" enhancements
 - Add a "DAC Options" section into Scan to ease control without entering wizard
 - Add "Curve Ref Correct" into "DAC Options" section to allow/disallow curve displacement when changing gain
- 3D View
 - Phased Array: Graphical representation of RX delay in 3D views
 - UT: Curve part Rendering
- TOFD
 - Curved Part Support
- Display FPS (Frame per Second) and PRF (Pulse Repetition Frequency) in top right corner of user interface
- Display battery on Welcome screen and improve handling of long file names

Prisma List of Enhancements

Non Advertised Feature in Previous Release:

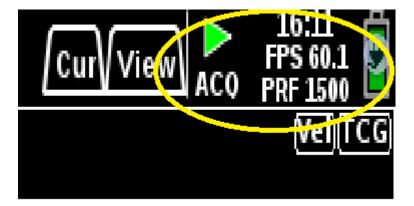
- Scalable view (with mouse)
- Depth mode gate (A-Scan View Option Tab)
- IFT enabled in Analysis mode (It can be enable in Analysis mode to align surface)

UTStudio List of Enhancements

- UTStudio now opens a new window for each open file
- Sessions are now saved in the UTData file instead of being separate files
- Add Unlink Cursors Feature
- Save data into CSV files (Comma Separated Value) in native acquisition resolution for C-Scan and Merged C-Scan
- Add Annotation Cursor capability (for TOP, Merged TOP, C-Scan and Merged C-Scan):
 - Table of measurements (including: center box position, max X, max Y, 6dB Drop area, Standard deviation, Bonding Ratio)
 - Save annotations to UTData file
 - Save Analysis layout to UTData file
 - Add annotation table to PDF report
 - Use checkboxes for toggle parameters
- Re-arranged right-click menu in views to depend on context

Hi-PRF

Increase detectability (response time)



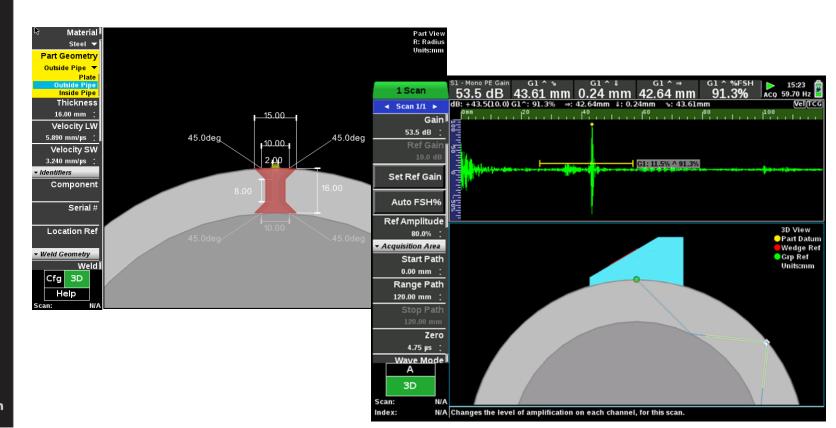
DAC/DGS Sub-Menu

- No need to run the wizard to change some useful DAC or DGS parameters
- "Ref Correct" allows moving the curves when gain is changed



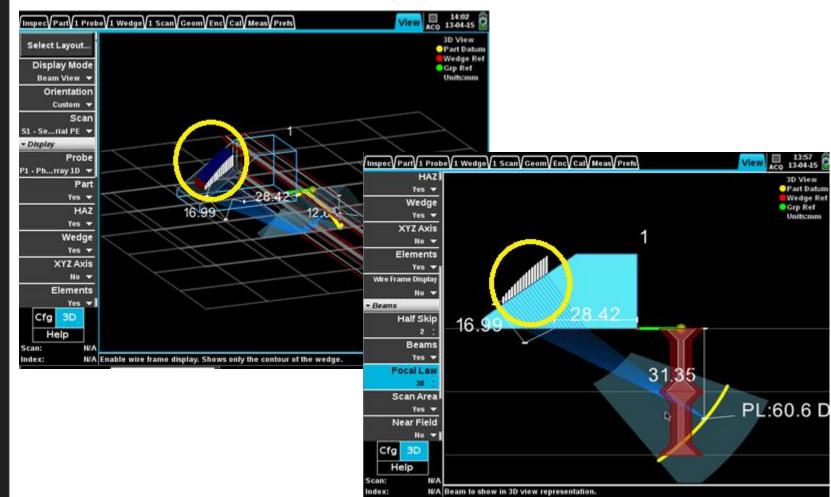
Curved Part in UT

- New type of part added: "Inside Pipe (ID)" and "Outside Pipe (OD)"
- Axial and Circumferential Weld
- Defect positioning on 3D curved part
- Curved Part Measurement (Depth and Surface Distance considering curvature)



Phased Array: Graphical representation of RX delays in 3D views

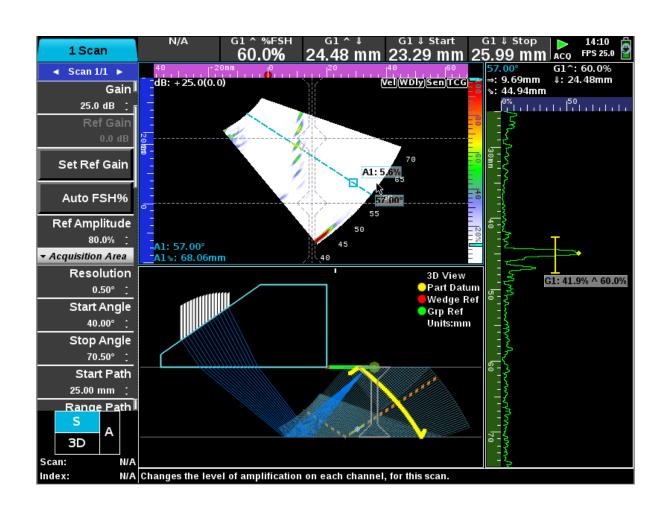
- Great pedagogic tool
- Fast and quick look to the elements used by the setup



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Phased Array: Graphical representation of RX delay in 3D views

Also live defect rendering in 3D view



UTStudio Annotation Box and Annotation Table

- Annotation Box can be added in TOP and C-Scan view
- Annotations are gathered in the Annotation table with customizable measurements (box position and size, box area, -6dB size, -6dB area, comments, ...)
- This information is saved within the UTDATA file (can reuse later)
- PDF Report also contains Annotation table

