



# What's new in 4.1 at a glance

- FMC recording and TFM imaging solution
- UTstudio+ new software features and compatibility
- New Linear Scanning improvements
- Multiscan now support more probes
- New gate synchronization option
- Interface optimization
- Updated translations and help files



#### VEO+, one of the best portable multiscan Phased Array solutions in the world, now with FMC-TFM!

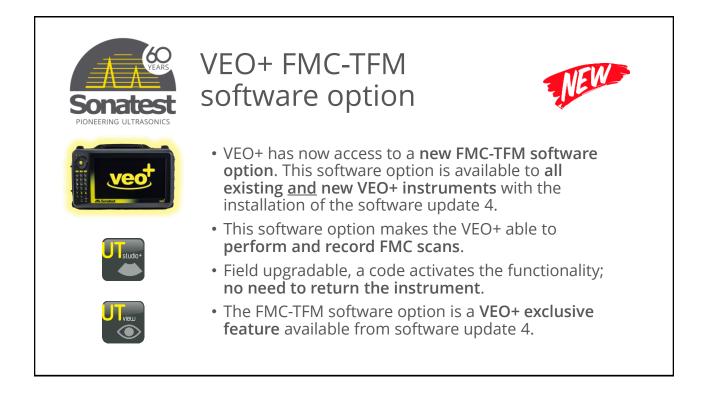


32:64PR | 32:128PR | FMC-TFM | MULTISCAN 16:64PR | 16:128PR | TOFD & UT 2PR



- VEO+ covers most of the advanced ultrasonic NDT inspections using Phased Array.
- VEO+ now gives access to the Full Matrix Capture (FMC) recording and Total Focusing Method (TFM) imaging technologies to its existing and growing customers base.
- This FMC-TFM complementary inspection technique is a significant addition to an already high value, high-performance toolbox.



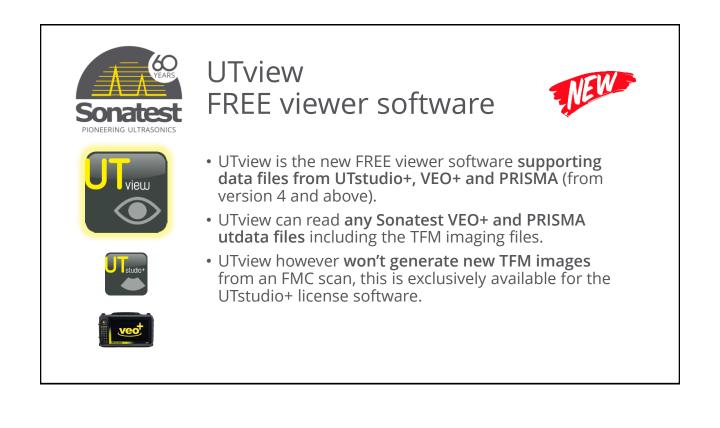




# UTstudio+ analysis software



- UTstudio+ is the new analysis software **supporting VEO+ and PRISMA** running software 4 version.
- UTstudio+ can read FMC scan from the VEO+.
- UTstudio+ is fully loaded to **generate high resolution TFM images,** perform simple to advanced analysis and generate reports.
- UTstudio+ doesn't support the old generation of veo16:64 and veo16:128 (these run with the old UTstudio version).



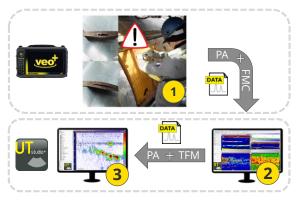


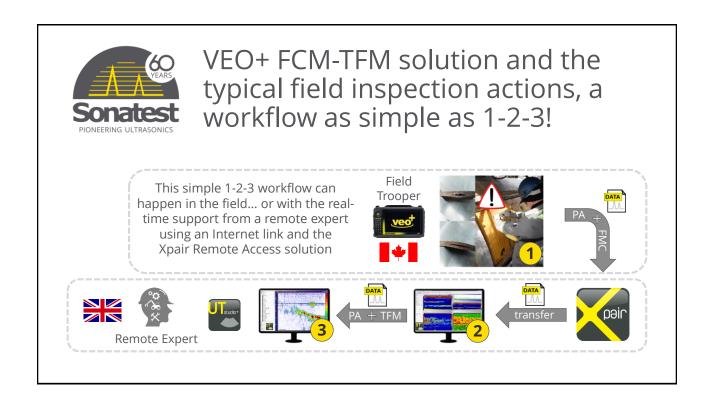
VEO+ FCM-TFM solution and the typical field inspection actions, a workflow as simple as 1-2-3!

Most of the advanced applications can be solved with VEO+ and Phased Array.

For the other critical applications:

- **1** Th VE
  - The inspector activates an FMC scan on VEO+ and encodes the defective zone;
- He transfers the FMC utdata set to his PC and creates a new encoded TFM imaging utdata using its UTstudio+ software;
- 3 He combines both Phased Array and TFM image results in his report to conclude on his inspection.







# New VEO+ FMC-TFM software option

The new VEO+ FMC-TFM software option includes:

- Enable user to perform and record a new FMC scan
- Available to **ALL** existing and new VEO+ instruments
- Available from the VEO+ 16:64PR version

FMC

• Code activation, no need to return the instrument



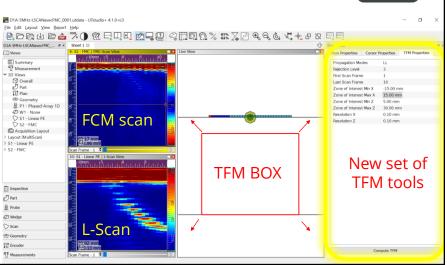


### New UTstudio+ TFM tools



#### FMC-TFM solution:

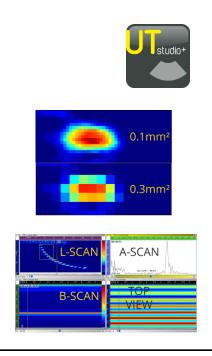
- Complete UT traceability
- Future-proof and compatible solution
- Multi-mode analysis using up to 9 algorithms
- Multiscan TFM and Phased Array scan are combined in one UTdata
- FMC and TFM **single** or **2D mapping** encoding

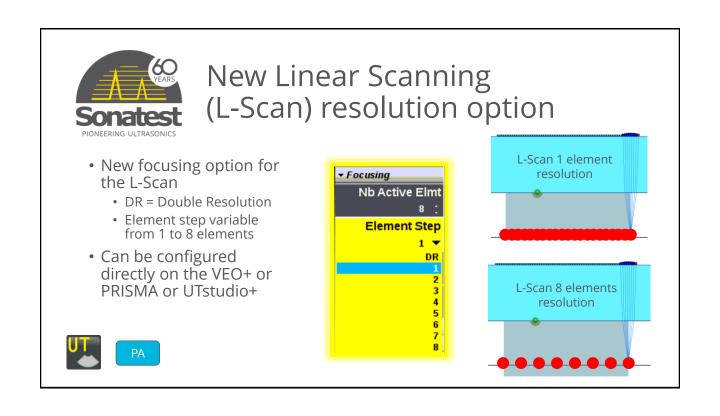




## New UTstudio+ TFM tools

- PIONEERING ULTRASONICS
  - High-resolution TFM imaging no matter the range
    - High-resolution (0.1mm<sup>2</sup>) TFM images are now possible even on a long acoustic range (1024 pixel<sup>2</sup>). This is ideal for large volume inspection solutions.
- UTstudio+ easy TFM analysis tools
  - In UTstudio+, a TFM scan appears exactly as a "highresolution linear scan". This allows using the same known and standard tools: views, annotations, gates and palettes facilitating measurements and reporting.
- ... and all the expected TFM imaging advantages
  - Improved sub-surface resolution
  - Improved SNR and spatial image resolution
  - Improved defect geometric characterization







## New gate options Multiscan now up to 12 probes

- New trig conditional gate position system
  - The gate follows the trig position of the previous gate
  - The gate position from the trig is managed via a trig offset parameter (+/-)
- Gate flag ID can be hidden (good for multiscan interfaces)
- VEO+ now accept up to 12 probes for multiscan solutions







View without gate ID flag



