2012-07-18 VEO 3.2.5 Release 1 (for VEO 16:64 and 16:128)

VEO Pack VEO 3.2.5 Release 1

- EG3 Software: 3.2.5R1
- Pic Firmware: 1.9
- Vhdl Firmware 1664: 1.8
- Vhdl Firmware 16128: 3.0
- Bios: 4.13 and 4.15
- Compatible with Hardware Rev C01 and D01
- OS Image : 3.2.2R1
- Compatible with "Hardware Test Tool HTT003v1

Important Application Notice:

- For standard compliancy purpose in conventional UT and TOFD, the "wedge delay" is manually controlled with the parameter "scan/acquisition area/delay". "start path" at 0 to start within the wedge.

Featuring (for documentation refer to "VEO See Whats New in 3_2_5.pdf"):

- Support of new 16:128 hardware (2 different binary packages)
- 130 Volts is available in PA(16:128 only)
- Layouts at 5 & 6 scans are available (16:128 only)
- Sensitivity/ACG calibration by section
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- TCG on RF signal capability
- Convert the TCG to DAC and DAC to TCG (in DAC/DGS calibration wizard)
- New B-Log view (in Phased Array analysis mode)
  - Extract Data from gates to render a B-Scan from selected a beam
  - Render minimum, average, and maximum part thickness extracted from multiple beams of an I-Scan
  - Amplitude and Depth view using flank or peak as reference.
  - Limitation: Only support probes at 0 degree. Average, Minimum and Maximum thickness is extracted from a single scan axis-S SCAN (not a merged S-Scan)
- TOFD enhancement
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  - Added feature: Lateral Wave Removal
- B-Log view displaying minimal thickness at a given array position
- Measurement overlay enhancement for readability
- When adding new probe/scan, ability to copy existing probe/scan
- Screen brightness Adjustment in "Prefs" menu
- Ruler considering skip cursor (and to weld overlay feature)
- Add X-Series probes to probe database
- HAZ in the 3D view (View option)
- Remove delay induced by wedge geometry in TOFD (to behave like Conventional)
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- Velocity wizard shows gate measures in the Measurement Bar
- Sonatest Internal Feature
  - Splitter programmer
  - Compatible with " Hardware Test Tool HTT003v1"
  - Automatic detection of "Hardware Test Tool" (previous and new hardware)

Fixed:

1. (#3448) - File preview slow when previewing large utdata files
2. (#3435) - Wizard Velocity, cannot be done twice.
3. (#3407) - MultipleScan + Wizard Element Activation = Crash
4. (#3367) - Fix Unexpected missed frames
5. (#3311) - 3D view: size of part is proportional to scan area
6. (#3273) - Allow to configure a scan with an "Scan Start Pos" 500 and a "Scan Distance" of -500
7. (#3185) - Change angular resolution give error.
8. (#2972) - TOFD BWUpper calibration enhanced
9. (#2524) - 3D views part in the Report are not well displayed
10. (#2209) - Mono Acq. Freq 200MHz, NoFilter, NoRectif, Averaging 4 and more enhanced signal
11. (#2063) - TCG WizardEnvelope in -Scan doesn't need to be displayed with to TCG
12. (#1933) - 3D Views tag's Title are not updated when we change Display Mode in Properties
13. (#3425) - TCG step 4, multi-beam not applied
14. (#3424) - Wedge Delay, Step 4, the ruler of bottom window shall be blue (not green)
15. (#3392) - Clear calibration, cancel and say "NO" do not cancel correctly.
16. (#3384) - Wizard Wedge Delay, No Reference Depth - scan A
17. (#3368) - Unexpected beam exit point outside wedge error while using a 64 elements probe.
18. (#3243) - Wizard Velocity, Step Scan Settings, Scan had change for -Scan 0deg at 1 beam
19. (#3241) - Wizard Velocity, Gate stay at 0mm with range 0mm
20. (#3226) - Rename "Rectangular Box" & "Square Box" to "Extraction Box"
21. (#3182) - With a calibrate scan, if change Scan -> Delay, calibration need break.
22. (#3181) - Velocity wizard, Reflector 2, In Menu gate name = 2, Ascan gate name = 1
23. (#3069) - Load Wedge instead of Probe in tab Probe Segfault
24. (#3049) - Mono, Configissue when changing DualCrystal to MonoCrystal.
25. (#3045) - CSV In amplitude, bad header
26. (#3039) - Velocity Wizard, Gain should reset when resetting calibration
27. (#2956) - Setup PA to Setup TOFD, TOFD signal stay rectify.
28. (#2955) - Encoder, If Index Step < 1 mm, Veo Freeze
29. (#2843) - Add ability to remove an option (ex:TOFD) that was added re-entering activation code
30. (#2788) - Velocity Wizard - Two gates required at the validation step
31. (#2720) - Vertical Grid for Ascan in Horizontal Views doesn't get all views with grid
32. (#2686) - Wizard DAC, Nb Sub levels not keep if return in DAC wizard
33. (#2511) - Crash at shutdown after save utdata encoded
34. (#2377) - Calibration breaker not work correctly
35. (#2165) - .PNG files can be previewed on the veo
36. (#2146) - Scenario crash when play an .utdata from a removed External USB key.
37. (#2024) - Wizards should exit when the user want to keep his old calibration
38. (#1036) - Operational State modification after Recording, at the end of recording
39. (#2537) - TOFD envelope, there are some data corrupting A-scan's signal
40. (#2761) - Mono voltage error
41. (#551) - Automatic filtering rules enhanced
42. (#3334) - Enhance velocity calibration on radius.
43. (#3041) - Correct open UTDATA when in Play mode on UTCFG
44. (#2958) - Fix some measures not refreshed when changing unit system.
45. (#2691) - Possibility to disable "Gate on Flow Peak" if IFT are activated in wizard
46. (#3266) - Wizard Velocity, Gate level value wrong
47. (#2792) - TOFD LW Pos cursor shall be black when high contrast is selected
48. (#2678) - Wedge type = None, Hide Identifiers and Setting categorize menu

49. (#3247) - Wizard Velocity, Mono RF, negative peak detect enhancement
50. (#3233) - TOFD Option lost
51. (#188) - Display "First Element" only if "Probe Qty" = 2 or above
52. (#3239) - Issue with 4 Phased Array scan and 2 probes
53. (#3229) - Fix inconsistency in TCG wizard, gain vs not in wizard TCG
54. (#2709) - Veo freeze when idle too long
55. (#1906) - Assert in time based filename generation after long time
56. (#3154) - Enhance error message labels for understandability
57. (#1624) - The measurement for each cursor are customized on a cursor type bases
58. (#3050) - S-Scan, Stop angle cannot have less than 70 deg in specific scenario
59. (#2842) - Add Cartesian Cursor in Merged views init. at the top left corner of the views. (specific file)
60. (#2957) - Palette color scaling is not correct in Gscan Depth mode in Imperial.
61. (#2783) - Missing Ampl. Low and Ampl. High parameters in View tab for TOFD type scan
62. (#3066) F2 key did not work anymore in some contexts
63. (#3140) add software gain in report
64. Merged views: Data drawn outside view when encoder start pos != 0mm
65. Increase maximum zoom level in encoded views
66. Disable double Resolution when Activated Element == 1
67. Pressing STOP was slow when analysing large files with Merged views displayed
68. Wedge Reference Pos was not centered when using a PA probe without a wedge
69. Element Act Wizard fix some crashes in multi-probe setups
70. Probe TX/RX showed weird value when no appropriate probe was available
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Known issues:

1. Zoom button not supported yet in A-Scan, S-Scan and I-Scan
2. Pitch & Catch with I-Scan cannot use elements higher than 16 (this limitation does not apply to I-Scan)
3. Recommended to create all scans before starting calibrations