

Veo16 Public Manifest

December 17, 2020

Important Upgrade Notice

- If your current VEO version is **3.2.5 or lower**, you must upgrade to **version 3.5.5** before you install a later version.
- If your current VEO version is **3.5.5 and above**, you can safely upgrade to the latest version.
Use the "Prefs → System Update" option to start the installation of the **veo16__update__X.Y.Z.img** update file.
- **IMPORTANT** - VEO units using version 3.10 or above cannot be downgraded to a version below 3.8.1.
- When upgrading to 3.8.2 and above for the first time, the time zone preference will be lost and needs to be set again.
 - In the **Prefs** tab, go to the **System** section.
 - Select **System Date/Time** and press **OK**.
 - Choose the correct time zone.

2020-12-17 Veo 3.20.1

*There are no compatibility issues despite a version change from 3.19.4 to 3.20.1.

New Features

None, follows other products' software version ID.

Fixed Issues

4259 In extreme configurations, phased-array PRF could, because of a software bug, be applied on the UT channel.

2018-03-13 Veo 3.20.0

New Features

None, follows other products' software version ID.

2018-02-16 Veo 3.19.4

New Features

None, follows other products' software version ID.

2018-02-16 Veo 3.19.3

New Features

None, follows other products' software version ID.

2018-02-01 Veo 3.19.2

New Features

116 Updated phased array probes and wedges database

Known Issues

708 Issues converting TCG to DAC with angulated wedge

2017-12-16 Veo 3.19.1

New Features

061 Updated phased array probes and wedges database

Known Issues

708 Issues converting TCG to DAC with angulated wedge

2017-11-24 Veo 3.19.0

New Features

None, follows other products' software version ID.

Known Issues

Fixed Issues

448 Windows requests to scan USB after every use with instrument

789 Fix Cartesian cursor not showing true depth measurement in certain views

806 Fix media browser not moving files properly

Known Issues

708 Issues converting TCG to DAC with angulated wedge

2017-05-05 Veo 3.17.11

New Features

378 Configuration Report according to ASME/API/AWS standards

701 New Reload TCG/DAC curve feature when breaking calibration

751 New Option to hide documentation for training purposes

Fixed Issues

512 System asked to save file when pressing shutdown button

740 Compatibility issues with files created in version 3.8.2 or earlier

Known Issues

708 Issues converting TCG to DAC with angulated wedge

2017-04-20 Veo 3.16.2

New Features

738 New Automatic Reset of Scan Axis for Circular parts

758 New Scrolling Merged C-scan in encoded view

Fixed Issues

744 Fix High Resolution problems on long scan axis

Known Issues

448 Windows requests to scan USB after every use with instrument

708 Issues converting TCG to DAC with angulated wedge

2017-03-21 Veo 3.15.4

New Features

735 Updated Translation for all languages

Fixed Issues

029 Cartesian cursor not showing true depth measurement

199 Data is not erased when using invert scan direction

489 DGS curve disappearing on load configuration

592 Crash on save view data to .csv

Known Issues

448 Windows requests to scan USB after every use with instrument

740 Compatibility issues with files created in version 3.8.2 or earlier

2017-01-26 Veo 3.14.3

New Features

568 Improved WiFi functionalities

2272 Prod Tools & Service Centers Improvements

Fixed Issues

616 Cannot rename folder after moving/copying file into it

1704 Rescue process to factory default cannot be completed properly

2294 TCG Calibration breaking when dB ref is changed

2016-10-25 Veo 3.13.2

New Features

None

Fixed Issues

2165 TOFD Gate measurements improvement

Known Issues

32 File loaded from USB key cannot be saved after removing the key

40 Maximizing Merged C-scan view during acquisition clears the view

363 Wheel touch doesn't work while in velocity wizard - WA use arrows

236 In some occasion a split DAC vertical lines is not drawn - WA re-implement the DAC

231 Redundant info in 3D view or wrong abbreviation used for focal distance

2016-09-16 Veo 3.12.7

New Features

1575 New automatic filenaming functionality

1697 New ezDGS functionalities: curve importation from GE probe (single & twin crystal probes)

1569 New PA natural focal mode (no-focusing)

1715 New default FTP user name = ftpuser

1716 New default VNC password = password

2005 New UI language update: Japanese + updates on other languages

1952 Integrated wedge is now part of the wedge advanced parameters (yes/no)

2087 DAC to TCG is now available in SCAN menu (stop mode)

Fixed Issues

- 263** Reset all in Time-based should reset all data
- 406** Cross Hair Cursor doesn't move in S-Scan when moving the Mouse Cursor
- 642** Change the default value for Elmt Diameter of a mono circular probe
- 779** Overlapped UI tabs in Hungarian, German, Japanese, Slovak
- 2025** We not supposed change dB during recording
- 2079** TCG curve cannot be edited after modifying the gain

Known Issues

- 32** File loaded from USB key cannot be saved after removing the key
- 40** Maximizing Merged C-scan view during acquisition clears the view
- 363** Wheel touch doesn't work while in velocity wizard - WA use arrows
- 236** In some occasion a split DAC vertical lines is not drawn - WA re-implement the DAC
- 231** Redundant info in 3D view or wrong abbreviation used for focal distance

2016-06-22 Veo 3.11.11

New Features

- 1671** New UTDATA, UTCFG, PDF, IMAGE icons
- 1543** Auto TCG sweep with skips
- 1799** New layout implementation
- 579** Now default weld angle value is 30° (used to be 45°)
- 1416** Wedge PA angle auto-calibration wizard
- 1448** Review of calibration breakers relations
- 57** If USB unplug it now deletes recent files link
- 1627** Change Radius for Diameter
- 1684** Add IFT culling option in the beginning of TCG/DAC Wizard
- 1738** Replace "New Inspection Wizard" by "Create New Configuration"

Fixed Issues

- 1618** TCG/DAC curves are reset when part thickness is changed
- 90** Error in FL calculation - Beam exit point outside wedge
- 638** Code doesn't accept mono refracted at angle 90°
- 1798** Cross Hair cursor doesn't show the measurement at its intersection in many views
- 322** F3 reset shortcut doesn't work when 2D quadrature encoded and Timed Base
- 609** Screen brightness parameter missing for Veo's
- 629** DGS Wizard Ends too fast
- 1615** Welcome screen - battery indicators are cut off

Known Issues

- 32** File loaded from USB key cannot be saved after removing the key.
- 40** Maximizing Merged C-scan view clears the view.
- 565** 3D views improvement for P&C functionalities.
- 635** WiFi refresh button in configuration screen not working. - WA turn OFF/ON the antenna.
- 601** WiFi right password isn't recognize correctly after reboot - WA re-enter password.
- 363** Wheel touch doesn't work while in velocity wizard - WA use arrows
- 280** Measures in Part References don't consider Encoding Area offset+rotation
- 263** Reset all in Time-based should reset all data - WA make a manual reset
- 236** Sometimes split DAC vertical lines are not drawn
- 231** Redundant info in 3D view or wrong abbreviation used for focal distance
- 32** File loaded from USB key cannot be saved after removing the key
- 406** Cross Hair Cursor doesn't move in S-Scan when moving the Mouse Cursor

2016-05-02 Veo 3.10.11

New Features

None

Fixed Issues

- 90** Error in FL calculation - Beam exit point outside wedge

2016-04-21 Veo 3.10.10

New Features

- 1476** Update for multiple OS security fixes.
- 1584** New layout for 5 Scan that includes a B-Scan.

Fixed Issues

- 1397** Mono DAC interface
- 1535** High Temp Warning from BF

2016-03-15 Veo 3.10.8

New Features

- Remote Access activation & Password (Prefs/Network) works now for both UTLink (or VNC) and FTP connections.
- Time Based (Encoding Setup) has been implemented with 4 levels (Low / Mid / High / Max).
- AQR (acquisition rate) now displayed on the right corner instead of FPS.
- Keep Meas. Bar (Prefs/Display) = YES by default on all new instrument (only apply in PLAY mode).
- Addition of a new bank of Sonatest probes and wedges to the software database.

Fixed Issues

- 935** Create Scan distance over 1000 mm removes weld overlay
- 809** Weld overlay drawing error if horizontal right
- 274** Impose file size limit | Using UTStdudio 64 bit, file size is not a problem anymore
- 936** (C-276) If zoomed in, views are altered when saving to a new setup from utdata
- 871** (C-246) Instrument unresponsive if range path changed by wheel for a very long time
- 232** Graphical dimensions in 3D view are not exported in report
- 331** Error or missing measurement when moving angular cursor with mouse
- 839** Element Diameter correction for Phoenix Probe

Known Issues

- 609** Screen brightness parameter missing
- 592** Auto FSH in DGS wizard not accurate - WA adjust the gain manually
- 565** 3D views improvement for P&C functionalities
- 40** Maximizing Merged C-scan view clears the view
- 363** Wheel touch doesn't work while in velocity wizard - WA use arrows
- 322** F3 reset shortcut doesn't work when 2D quadrature encoded - WA make a manual reset
- 280** Measures in Part References don't consider Encoding Area offset+rotation
- 263** Reset all in Time-based should reset all data - WA make a manual reset
- 236** Sometimes split DAC vertical lines are not drawn
- 231** Redundant info in 3D view or wrong abbreviation used for focal distance
- 32** File loaded from USB key cannot be saved after removing the key
- 1439** AQR indicator unexpected behavior when having 2 TOFD scans
- 1541** Part Thickness and geometry index offset breaks calibration

2015-11-30 Veo 3.9.7

New Features

None

Fixed Issues

- G-499** Occasional USB detection problem

2015-11-30 Veo 3.9.6

New Features

None

Fixed Issues

- G-452** Fix a failure to reboot in exceptional conditions.

2015-09-24 Veo 3.9.3

New Features

- G-389 Recent layout now available
- G-261 Amotus SDK external app launcher
- G-139 New inspection wizard - change S-Scan start angle 35°
- G-118 Set fixed aspect ratio to false on L-Scan (now wide by default)
- G-109 Change default measure in the measurement bar
- G-64 Add a new measurement from wedge (to include X offset as per D-Series)
- G-53 Update all Layouts / Templates / Examples / New Inspection Wizard
- G-43 Place gate start at 25 mm or 25% in A-scan as default value
- G-38 Crosshair mouse in views of UTDATA file
- G-36 Time-Based recording - Add duration parameter
- G-35 Missed frames should appear in record view in long scan

Fixed Issues

Several improvements to the "auto-hide menus" feature

- G-51 Multi scan (4 PA, 2 TOFD) high PRF bug
- G-420 Crash in save dialog after refusing file overwrite
- G-380 Problem with long press dB and signal without smoothing
- G-374 Change default selected measurements in velocity wizard
- G-373 Copy & overwriting a file in media browser will break it
- G-371 Crash when changing to particular layout in large size utdata file
- G-349 Correct the position of gates at the end of Velocity wizard
- G-316 Extraction box becomes a point outside the scan area when switching layouts
- G-295 Veo.conf content clears out when /media/user has no space left
- G-291 Inspection Wizard, load Probe or Wedge remove HAZ in 3D view
- G-259 Crash when load UTDATA, and take VERY long time to open
- G-244 X Offset is out of range
- G-238 Grids don't cover all the maximized view when rulers aren't present
- G-208 File Name generation
- G-205 Dimensions not shown in 3D geometry views
- G-189 BScan in utdata: cursor hard to move in one direction
- G-184 Remove external USB after copy file freeze yocto
- G-169 Smooth scrolling is fragmented by every vertical line of the grid
- G-159 Stop & Play increases the PA-view zoom aspect ratio
- G-151 Faulty 3D view screenshots
- G-147 L-scan view is zoomed in when the calibration wizard ends

- G-138 Overlay inversed when scan view is inversed
- G-136 Veo crash after very long time Play mode and press STOP
- G-131 S-Scan starting too high when fix aspect ratio = Yes
- G-128 Cursor mouvement VS View Orientation.
- G-127 Example_Conventional_Pitch_Catch.utcfg new probe
- G-124 Mouse click on view doesn't hide the Auto-Hide menu
- G-119 Angular box not correctly positioned in L/S scan.
- G-98 Gate Width can be set to negative values
- G-89 TCG to DAC in PA adds point at start path for certain focal laws
- G-81 Not possible to resize or move around IFT gate with mouse
- G-77 Make gate level adjustment rounded anytime
- G-76 VEO click wheel goes all around until next press
- G-74 High Voltage protection mechanism improvement
- G-72 Veo crashes when encoded scan reaches the limit of the view
- G-71 If all gate are deleted in 1 Ascan, Gate button not work to change for other Gate
- G-67 Ruler update problem
- G-50 Minor phantom echoes in PA signal
- G-46 Long press dB button shouldn't modify the gain when in Pause
- G-42 L-scan view is not centered with less than 4 beams
- G-34 Reset all position doesn't clear merged c-scan views
- G-25 Long press dB key doesn't adjust gain in current gate

Known Issues

- G-363 Wheel touch doesn't work while in velocity wizard
- G-331 Error or missing measurement when moving angular cursor with mouse
- G-322 2D quadrature encoded & F3 shortcut
- G-290 Long press Gate button, bring us to other cursor than Gate if not in A-scan
- G-280 Measures in Part References don't consider Encoding Area offset+rotation
- G-274 Impose file size limit
- G-263 Reset all in Time-based should reset all
- G-260 Critically Low Battery message hidden by the About window
- G-236 Split DAC vertical lines are not always drawn
- G-231 Redundant info in 3D view and wrong abbreviation used for focal distance
- G-194 Probe & Wedge views are not displayed after saving screenshot with Plan view
- G-57 Recent files stored on USB are grey after reboot
- G-40 Maximizing Merged C-scan view clears the view
- G-32 File loaded from USB key cannot be saved after removing the key
- C-276 If zoomed in, views are altered when saving to a new setup from utdata
- C-248 Change the default value for Elmt Diameter of a mono circular probe
- C-246 Veo becomes unresponsive when range path is increased constantly using rotation action on touch wheel

2015-08-04 Veo 3.8.3

Internal versions

Software	OS(Yocto)	9233f6b1b934
	Application (eg3)	1a7adfc20474
BIOS		4.13 and 4.15
Firmware	VHDL 16:64	2.7.0
	VHDL 16:128	2.7.0
	PIC	1.13

Fixed Issues

G-270 Click wheel moves on its own or stops working

Known Issues

Same as 3.8.2

2015-01-21 Veo 3.8.2

Internal versions

Software	OS(Yocto)	49877b324e9c
	Application (eg3)	1d9a0ae7457a
BIOS		4.13 and 4.15
Firmware	VHDL 16:64	2.7.0
	VHDL 16:128	2.7.0
	PIC	1.11

Important Application Notice

- If your current VEO version is **3.2.5 or lower**, you must upgrade to **version 3.5.5** before you install a later version.
- If your current VEO version is **3.5.5 and above**, you can safely upgrade to 3.8.2. Use the "Prefs → System Update" option to start the installation of the **veo1664_update_3.8.2.img** or **veo16128_update_3.8.2.img** file.
- **IMPORTANT** - VEO units using version 3.8.2 cannot be downgraded to a version below 3.8.1.

Fixed Issues

7183 In conventional UT mode, the frame rate is now correctly adjusted based on the PRF.

Also, the user-selected maximum framerate is now limited on VEO to prevent an undesirable error.

7187 Performance improvements.

7056 The "Integration Tools" software option was renamed to "CSV Export" to better reflect what it does.

7107 Fixed possible crash when encoding around the end of the scan distance.

7148 Fixed the regression that made the phased array general sensitivity 14 dB lower in software version 3.8.1.

6729, 6982, 7068 Fixed several UI problems when using "Auto-Hide Menus" setting.

Also, the "Menu" button is now available when editing a value in a spinbox.

Known Issues

7202 When using the Sensitivity Wizard, pressing the Maximize button will cause the device to crash. The Maximize button is not useful in this context, so the workaround is to avoid pressing it.

7204 When working with heavy multi-scan, multi-frequency configurations, there is a very low probability that the FPGA will hang, turning the scan views to black and forcing a reboot.