

# Veo16 Public Manifest

September 26, 2017

## 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.

## **2017-09-27 Veo 3.18.12**

### **New Features**

- 792** New PCS parameter is editable in play mode when using TOFD scan
- 862** New WIFI connection options available
- 869** New Czech is now a supported language
- 930** UT wedge & probe database update
- 934** New X0 low profile probes and wedges series has been added to the database

### **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.