



FocusPC 1.0 Release Notes

FocusPC 1.0R37

2023-06-07

New Features

- Added Export alarm function
- Alarm management (save and read)
- Added Focus Control continuous inspection feature
- Added soft C-scan to IDR advanced aero toolbar
- Mode max option

Bug Fixes

- Software update will no longer modify the Windows registry
- Default selection of “calib PA cursor”
- Display UT setting is optional when starting the software in inspection mode
- Fixed encoder pre-set on start acquisition
- Fixed soft C-scan RF mode
- Fixed export data group gate position
- Fixed Focus Control CGate raw update
- Fixed tab selection with multiple screens

FOCUS PX Package

1.0R4T11

FocusPC 1.0R36

2022-04-29

Bug Fixes

- Updated Compiler Version

FOCUS PX Package

1.0R4T11

FocusPC 1.0R35

2022-02-16

New Features

- KeyTool—1.0R30 update

Bug Fixes

- Issue with C-scan merge of groups having different index offsets
- Issue with Sensitivity Calibration limited to 32 beams

FOCUS PX Package

1.0R4T11

FocusPC 1.0R34

2021-07-16

Bug Fixes

- Issue with Index Offset management in Continuous Inspection mode
- Issue with No Sync Special Color after Gate resynchronization in Analysis

FOCUS PX Package

1.0R4T11

FocusPC 1.0R33

2021-05-06

Bug Fixes

- CAF configurations can now be programmed using elements other than 1 to 32
- Reference Gain adjustment following a Voltage modification at software opening was fixed
- Software can now be used properly with UT4 devices

FOCUS PX Package

1.0R4T11

FocusPC 1.0R32

2021-01-15

Bug Fixes

- An issue with the installation of FocusPC in Windows 10, version 2004

FOCUS PX Package

1.0R4T9

FocusPC 1.0R31

2020-10-22

New Features

- Added command to change the encoder's direction during the scan (via FocusControl only)

Bug Fixes

- Thickness Data POS B- POS A mode was not functional—fixed
- A-scans were sometimes missing in datafiles unless the view content was reconfigured—fixed
- The last beam of a CAF configuration was not programmed properly—fixed

FOCUS PX Package

1.0R4T9

FocusPC 1.0R30

2020-08-28

Bug Fixes

- Inspection data would be erased when a Preset Encoder command was done via FocusControl during a scan

FOCUS PX Package

1.0R4T9

FocusPC 1.0R29

2020-07-29

New Features

- Added three more color palette possibilities for a total of six
- Each time the alarm is changed an event is added to the log

Bug Fixes

- Merge C-scan color palette fixed
- Linear merged display fixed
- Display resolution of Japanese OS fixed
- Display error when opening data file with three groups in analysis mode fixed
- Zone tool error when box reached the end of the data in analysis mode fixed
- Improvement of continuous inspection
- Pitch and catch with DLA probe and roof angle at 0° fixed

New Features

- Added CAF (coherent adaptive focusing) algorithm
- Added strip chart views
- Added matrix filter
- FOCUS PX Package-1.0R4T9 update

FocusPC 1.0R27

Bug Fixes

- Fixed encoder preset value refresh

FocusPC 1.0R26

Bug Fixes

- Optimized the time for the encoder preset value update

FocusPC 1.0R25

- Test version, not available

FocusPC 1.0R24

New Features

- Added the 13 MHz (5–20.5 MHz) bandpass filter option
- Added the 13 MHz (6–20.5 MHz) bandpass filter option
- Added the 20 MHz (9.5–20.5 MHz) bandpass filter option
- Added 25 kHz PRF capability
 - Note:** This option needs to be unlocked by Evident.
- FOCUS PX Package-1.0R4T7 update

New Features

- Interpolation

Bug Fixes

- Fixed encoder to enable the internal scan encoder and index scan on real encoders
- Updated permission for other Options (such as analysis) to *eOMMAllowDynamicGates*

New Features

- 35949: Added the 25 ns pulse width and extended BW options
- 35949: Added the 11 MHz (1.1–20.5 MHz) bandpass filter option

Note: This option needs to be unlocked by Evident.

Bug Fixes

- 35983: Enable *Heartbeat in Preferences* would not remain enabled after clicking the checkbox
- 36042: Views were scaled incorrectly under Windows 10
- 31243: [Linear Merged] Removed linear merged checkbox on a sectorial group
- 36079: Application did not show in the Windows toolbar
- 36071: FocusControl crashed when gate was moved
- 35948: [FocusControl] [Heartbeat] The Heartbeat could be triggered even if the Enabled option was deactivated

Bug Fixes

- 35802: FocusPC 1.0R17 setup was incompatible with Focus PC 1.0R18
- 35823: Dashboard would not hide when commanded in FocusControl

New Features

- [Deployment] Integration of the FOCUS PX package version 1.0R4T1 to optimize the deployment time
- FOCUS PX Package-1.0R4T1

Bug Fixes

- [FocusControl] Dashboard would not hide when commanded in FocusControl

New Features

- [Deployment] Firewall ports open automatically at FocusPC installation
- [Stability] Buffer overflow error improvement
- FOCUS PX Package-1.0R3T2

Bug Fixes

- [Firing Sequencer] The firing sequencing could not be modified for a multipod configuration
- [Datafiles Opening] A merged datafile in FocusPC analysis was impossible

New Features

The following new features were integrated into the different FocusPC versions:

- [Alarms] Added possibility to set the alarm duration
- [Preferences] Added Heartbeat feature in the Preferences menu
- FOCUS PX Package-1.0R2T2

Bug Fixes

- [UT Settings] Invalid parameters were available in analysis mode
- [Firing Sequencer] The firing sequencer menu was grayed (blocked) for multiple static groups
- [Gain] Crashed when the beam gain was over 80 dB
- Improvement of the deployment process stability

FocusPC 1.0R17

2018-02-15

Bug Fixes

- Improvement of the deployment process stability

FocusPC 1.0R16

2017-12-08

New Features

The following new features were integrated into the different FocusPC versions:

- Compatibility with Windows 10

Bug Fixes

- [Performance] When the saturation alarm triggered really quickly, FocusPC crashed after a few hours

FocusPC 1.0R15

2017-10-31

Bug Fixes

- [Alarm] Alarms would not activate when a multipod configuration used the same gate

FocusPC 1.0R14

2017-10-19

New Features

The following new features were integrated in the different FocusPC versions:

- Heartbeat Signal: A square signal with a period of five seconds on the Digital OUT4 pin to confirm to the PLC the health status of the FocusPC software

FocusPC 1.0R13

2017-10-04

Bug Fixes

- [Alarm/Output] FocusPC would freeze when activated alarms were flickering

FocusPC 1.0R12

2017-09-28

Bug Fixes

- [FocusControl] Installation was missing components on FocusPC—Install (Language)

FocusPC 1.0R11

2017-05-26

Bug Fixes

- [Setup file] Could not load a specific setup file

FocusPC 1.0R10

2017-05-10

New Features

The following new features were integrated into the different FocusPC versions:

- Added a mirror gate
- Added a count before alarm
- Enabled a single pod alarm output per FOCUS PX unit
- Added a fourth alarm display in the FocusPC software

FocusPC 1.0R9

2016-19-12

Bug Fixes

- [Readings] Wrong depth reading on C-scan when synchronized on echo + linking gate (no synchro on first laws)

FocusPC 1.0R8

2016-28-10

New Features

Supports InspectionWare platform

FocusPC 1.0R7

2016-11-10

Bug Fixes

- [Refracted Angle] Wrong skew when setting negative refracted angle
- [Beam Skew] Beam skew information was not uniform between the title bar, beam selection, and position tab

- [UT Settings] The values in the position tab were not updated

FocusPC 1.0R6

2016-19-07

Bug Fixes

- [FocusControl] Continuous inspection setups made FocusControl crash
- [Digitizer] When A-scan data were deactivated, gates could no longer be configured
- [Multipod] Crashed when adding UT-HD group to a specific configuration with 3 devices
- [Digitizer] Crashed when trying to deactivate A-scan data in the Digitizer menu
- [Gates] The position of gate A was modified in True Depth when different laws of a sectorial group were selected
- [Load] Loading a setup with continuous inspection in FocusControl was abnormally long
- [UT Settings] Changing the first element value on the Transmitter tab did not work properly
- [TOFD] Lateral Wave synchronization was not functional
- [TOFD] Lateral Wave Removal was not functional
- [Volumetric Merge] The volumetric merge did not work with a merged file
- [File Merge] The S-scan data were lost in both files after file merging

FocusPC 1.0R5

2016-05-19

Bug Fixes

The following bugs were corrected in the different FocusPC versions:

- Flatline problem in UTHD
- [US measurement system] Synchro on Echo set the wrong A-scan start and changed the gates and the time-corrected gain (TCG) points position
- [Data file] Insufficient memory to open data file on computer in inspection mode
- [TCG] Export TCG did not work for groups that were not on device ID 1
- [Calculator] Error message when replacing a matrix array configuration with .xcal
- Conditional A-scan only worked with Gate A

FocusPC 1.0R4

2016-05-04

New Features

The following new features were integrated into the different FocusPC versions:

- New signal saturation indicator
- [Digital Inputs] New external firing capability
- [Device Configuration] New ability to assign any IP address to a device and network card
- [Configuration Tool] New message after changing IP address to launch FocusPC software
- [Configuration Tool] New troubleshooting item: IP address connecting problem

Bug Fixes

The following bugs were corrected for the different FocusPC versions:

- [Documentation] Updated the FocusPC, FocusData, and FocusControl documentation
- FocusPC would crash when closing FocusPC with a multipod file
- [Parameters] Scan/index offsets and beam orientation were not editable in analysis mode
- [Stability] FocusPC would crash when a group was added
- [Performance] Firing sequencer took a long time to configure for multidevice setups
- [DIN] Acquisition would not stop with the DIN4 until the encoder was refreshed
- Missing filters in TOFD filter list
- [TCG] TCG gain was applied before the TCG point (with HW-)
- [Merge file] Missing A-scan in the merged file
- P32397 [Firing Sequencer] Default button would not bring back the default firing sequence
- P32420 [TCG] High-resolution mode, when switching to synchronization Echo, the gain of the first point was incorrect
- [Error] Incorrect error messages when FocusPC crashed on booting
- [TCG] Had a lower TCG total gain than the group gain
- [UT settings] For UT using PA groups, the A-scan range was incorrect
- [Views] A-scan views disappeared when loading the data file
- [Encoders] DIN1 controls were inverted
- [UT Settings] Wrong default start value when switching to Synchro on Echo mode
- [UT Settings] Could not deactivate pulser elements
- [TCG] TCG Error message modifications
- [Calculator] Error message when creating tandem configuration
- [Calculator] Did not export accurate value of frequency in law file
- [Stability] FocusPC crashed when the setup had limit values
- [Performance] Gate programming time was extremely slow for heavy setup files
- [Performance] Stop Firing recovery was extremely slow for heavy setup files
- [Performance] A-scan Start and Range programming time was extremely slow for heavy setup files
- [Encoder] Crashed when scan name was changed
- [Scan] Deleting a new scan type made FocusPC crash
- [Multiple UT Groups] UT changes were applied to a different group
- [Views] Volumetric cursors stayed stuck in the B-scan view
- [Dashboard] Gain value incoherence between Dashboard and UT Settings > General tab
- [Gates] Gates moved when changing the A-scan Start on UT HD groups
- [Display] The title window was too small to see the name of a view
- [Reporting] Add readings feature did not work properly
- [Signal] A-scan signal changed when the encoder was outside the scan patch
- Bitmap error message appeared when creating PA, UTHD, and TOFD groups in multipod configuration
- [TCG] Points would not program correctly in time mode
- [TCG] Unwanted TCG message when changing start and range
- FocusPC did not work with a FOCUS PX unit with the UT module
- FocusPC did not work with Windows 7 and 8 in Japanese
- Analysis mode was not functional when no FOCUS PX unit was connected
- [UT module] Encoder 1 and encoder 2 were not available
- [Data] Gate mode changed in analysis mode
- [Views] A-scan views disappeared when loading the data file
- [Display] When changing the content of a view, another view would change

- [FocusControl][Connection] When connecting a sample to FocusPC, it opened but had no signal and crashed
- [Scan axis] [UT] The incrementing of scan axis was irregular
- [Display] Analysis mode icon would not display correctly when FocusPC started up
- [Language] Some errors in the FocusPC Chinese version
- [Encoders] Encoder preset would not set correctly
- [File] Opening a setup file would make the application crash
- Error messages when reading setup files
- In analysis mode, UT Settings/Digitizer/select A-scan made FocusPC crash
- Deleting group in multipod mode displayed an error message
- [Configuration Tool] [Network Configuration] Clicking on Enter closed the window but did not configure the new parameters
- [UT] No UT signal with UT HD
- [Multi group] FocusPC crashed when adding groups
- [Calibration] Unable to perform a beam delay calibration
- [Beam saturation tool] A thumbtack instead of the status icon
- [Unreproducible][Stability] Crashed when performing calibration and then changing group
- [TCG] TCG point changed position when A-scan start changed (on echo)
- Phased array parameters source window did not show sector name
- [Conditional A-scan] 100% memory alert did not pop up when C-scan patch size was 2 GB before any A-Scan was recorded
- [TCG] From synchronization on pulse to echo, incorrect TCG points modifications (full range and high resolution)
- [UT settings] Digitizer and Pulser/Receiver tab would not work when you started an inspection
- [TCG] [High Resolution] Max point gain was 80 dB instead of 100 dB
- [Language] Help was in Russian in the Chinese version
- [Language] UT Settings > Gate C adjustment was offset according to the other gates
- [Help] No help in the Japanese version
- [TCG] Wrong point gain when you added a point with TCG disabled
- FocusPC crashed when PA groups were created on different pods
- [Crash] Crashed sometimes during multidevice applications
- [TCG] With synchronization on echo, the TCG would be disabled when the gain was too low
- [Multi Device] Signal freeze problems
- [Stability] Crashed when adding a group to FOCUS PX unit #3 with a four-device configuration

FocusPC 1.0R1

2016-29-07

FocusPC is a PC-based software for data acquisition and analysis with the FOCUS PX acquisition unit.

Supported Acquisition Units

- FOCUS PX 16:64PR
- FOCUS PX 16:128PR
- FOCUS PX 32:128PR

Supported Operating Systems

- Microsoft Windows 8
- Microsoft Windows 7 (32-bit and 64-bit)

Note: You must have administrator privileges to install FocusPC and configure the computer for data acquisition.

Computer Requirements

- **CPU:** Intel Core i7 or Xeon E3
- **RAM:** 16 GB (DDR3 or better)
- **Data storage drive:** SSD
- **Network adapter:** Gigabit Ethernet card (dedicated for FOCUS PX data acquisition units)
- **Display:** 1280 × 1024 or higher
- One USB port for the HASP security hardware key
- A keyboard and a pointing device

Available in Standard Languages