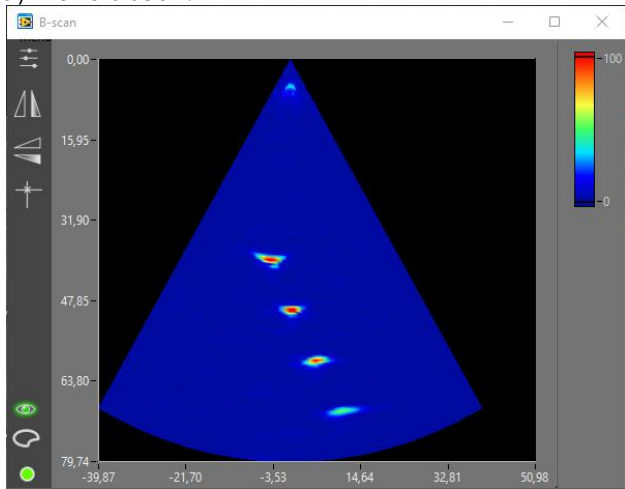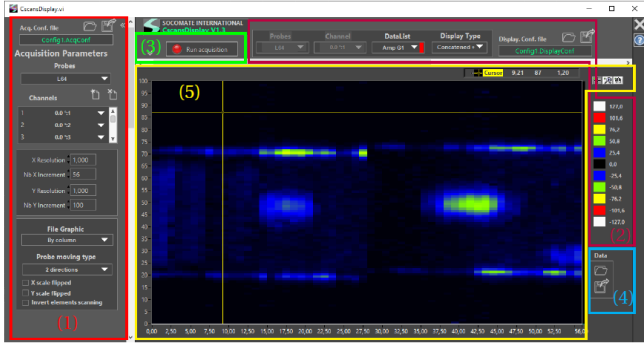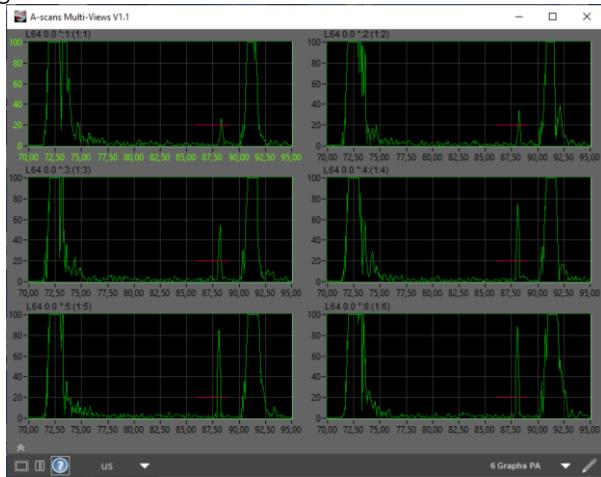# RELEASE NOTES

# Software & firmware versions
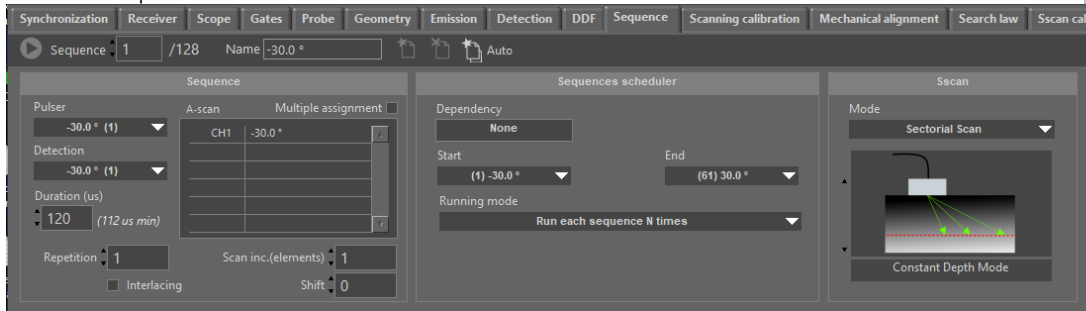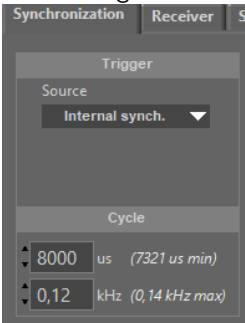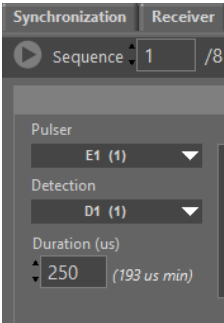
| Components | Versions | |
|---|---|---|
| API software<br>　　UTView_64.exe<br>　　UTView_32.exe | 3.1 | |
| Configuration file<br>　　UTView.ini | 5.5 | |
| Language files<br>　　English.xml<br>　　French.xml | 2.5 | |
| Library<br>　　sidev_64.dll<br>　　sidev_32.dll | 8.4 | |
| Additional programs<br>　　SIPATOOLS_64.exe<br>　　SIPATOOLS_32.exe | 2.5 | |
| Firmware<br>　　Service | 9.10 | **Firmware for FAAST-PA :**<br>frm_pa_250621.bin<br>**Firmware for SOCO-SCAN & SOCO-SWIFT-PA :**<br>frm_ssw_250621.bin<br>**Firmware for SOCO-X-UT :**<br>frm_soco_250621.bin<br>**Configuration files for all devices :**<br>cfg_generic_290621.bin<br>**Additional files for FAAST-PA :**<br>cfg_pa_1x32_080719.bin, cfg_pa_2x32_080719.bin,<br>cfg_pa_3x32_080719.bin, cfg_pa_4x32_080719.bin,<br>cfg_pa_1x64_080719.bin, cfg_pa_2x64_080719.bin,<br>cfg_pa_1x96_080719.bin, cfg_pa_1x128_080719.bin,<br>cfg_pa_1x32_128_080719.bin<br>**Additional files for SOCO-SCAN :**<br>cfg_soco_scan_1x16_250621.bin,<br>cfg_soco_scan_1x32_250621.bin,<br>cfg_soco_scan_plus_1x16_250621.bin,<br>cfg_soco_scan_plus_1x32_250621.bin<br>**Additional files for SOCO-SWIFT :**<br>cfg_soco_swift_1x32_250621.bin,<br>cfg_soco_swift_1x64_250621.bin,<br>cfg_soco_swift_1x96_250621.bin,<br>cfg_soco_swift_1x128_250621.bin,<br>cfg_soco_swift_1x256_250621.bin,<br>cfg_soco_swift_plus_1x32_250621.bin,<br>cfg_soco_swift_plus_1x64_250621.bin,<br>cfg_soco_swift_plus_1x128_250621.bin,<br>cfg_soco_swift_plus_1x256_250621.bin,<br>**Additional files for SOCO-XP-UT :**<br>cfg_soco_xp_141019.bin<br>**Additional files for SOCO-8S-UT :**<br>cfg_soco_8s_141019.bin<br>**Additional files for SOCO-1-UT & SOCO-1AB-UT:**<br>cfg_soco_1_141019.bin |
| WebAdmin | 1.3.1 | |
| SocomatePlatformManager | 1.1.3 | |
| Interface modules<br>　　INTLOG_IN:<br>　　INTANA_OUT:<br><br>　　INTLOG_OUT: | <br>3.0<br>2.3.1<br>3.0.3<br>2.3.1<br>3.0.2 | <br>INTLOG_IN_V_3_0_0.pof<br>INTANA_OUT_V_2_3_1.pof (model < c)<br>INTANA_OUT_V_3_0_3.pof (model ≥ c)<br>INTLOG_OUT_V_2_3_1.pof (model < b)<br>INTLOG_OUT_V_3_0_2.pof (model ≥ b) |



Where is indicated model

# New/Improved features

| ID | Description |
|---|---|
| | Some programs and tools have been added:<br><br>Bscan_xx (for SOCO-SCAN, SOCO-SWIFT and FAAST-PA products)<br>A program to display B and S-scan.<br><br><br><br>CscansDisplay_xx(for all devices)<br>A program to configure, acquire and display C-scan data.<br><br><br><br>AscansMultiView_xx (for all devices)<br>A program to configure and show several A-scans on a window.<br><br><br><br>UT_dependencies_xx<br>A tool to check and ZIP an UT file with all this dependencies files such as laws, probe, …<br><br>VFAnalyzer_xx<br>A program to check the file versions of the installed components.<br><br>Note: These programs are named with the number of bit of the target<br>Ex: B-scan_32.exe or B-scan_64.exe |

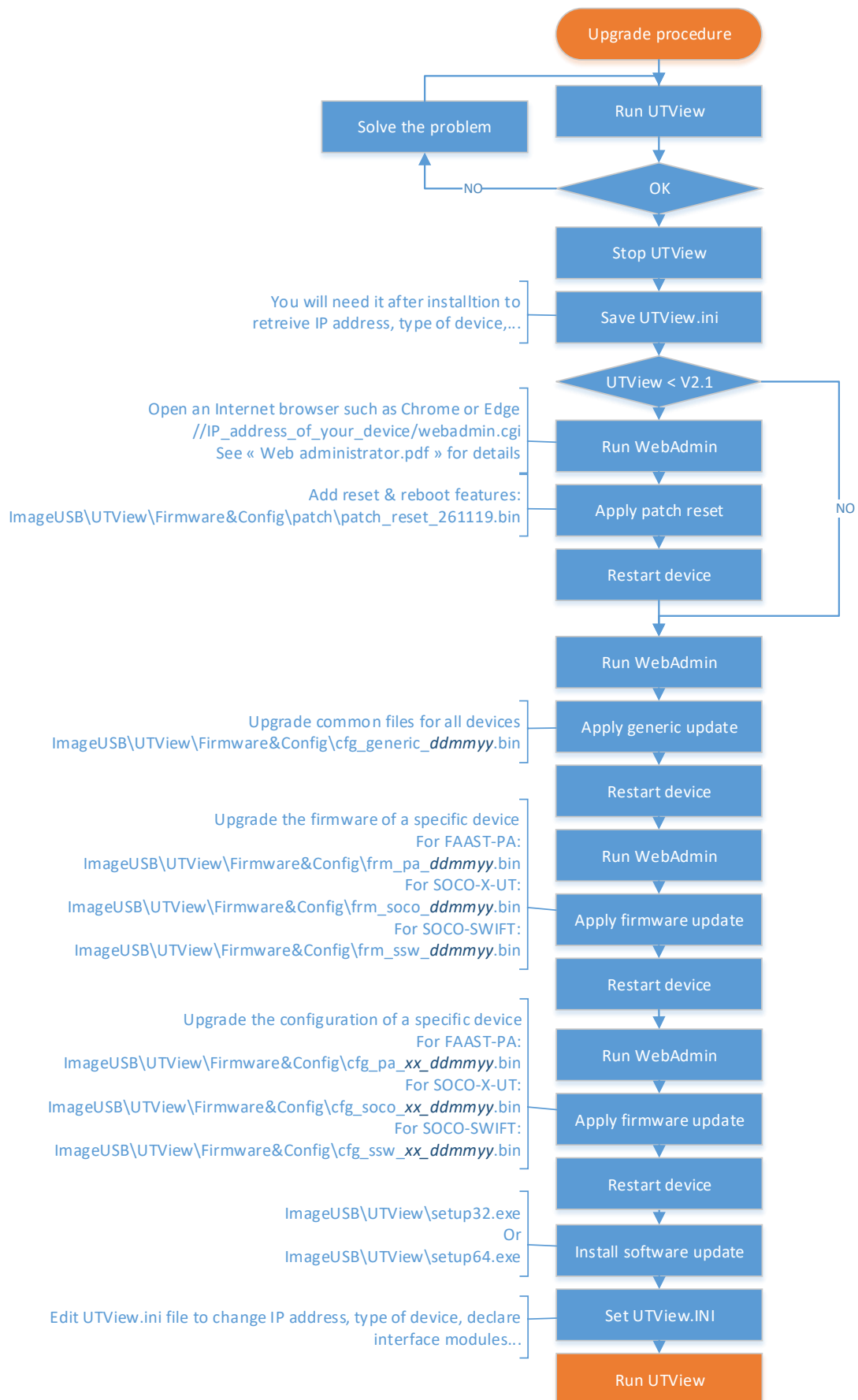| | |
|---|---|
| | A new COMPRESSED_AS_USPC A-scan mode has been added.<br>This mode is reserved for SOCO-X products at FS=200MHz.<br>This mode has been designed to return the A-scan signal as the old USPC products done. |
| ⚠️ | A new S-scan mode has been added.<br>The tab sequence has been modified to manage this mode.<br>New tabs have been added to calibrate the S-scan and to set a DAC<br>You can call Bscan_xx program to get a graphic representation of S-scan during the calibration process.<br><br><br><br>NOTE: This mode works with new laws calculated with SIPATOOLS 2.5 |
| | Now, the time performances are displayed to know the maximum achievable performance according to the current settings.<br><br> |
| | New alarm process to check temperatures and voltage has been embedded.<br>This process periodically checks these parameters to set LED status. |
| | Improvement of plugins<br>Displaying a message box to apply changes if certain changes were detected when the operator exits the current tab. |
| | Improvement of IO cards performances<br>• Improve boot process (auto-check)<br>• Increase the cable length up to 50m<br>• Manage a LED to indicate the status of the cards<br>• Enable IO card with SOCO-SCAN and SOCO-SWIFT<br>• Correct a bug of the output of TOF (was 5V when TOF = 0usec)<br>• Reset the output to 0V when an IO pin is unselected. |
| | New parameters are available with the DLL:<br>• "sync_period_min", "sequence_time_min" to get time performance<br>• "path" to get X, Y coordinate of points of the A-scan signal (*).<br>• "gate_path" to get X, Y coordinate of points of the gates (*).<br>• "gateX_projection", "gateX_relative_projection" to get the X, Y coordinate of a distance measured into a gate (*).<br>• "gatex_inversed_projection", "gatex_relative_inversed_projection" to get an ultrasonic distance from an X, Y coordinate (*).<br>•<br>(*) Request a "law" created by the new SIPATOOL program. These parameters are used for B and S-scan representation. |
| | Improvement of Scanning-tool to calibrate the multi-beams configuration in one shot. |

| | |
|---|---|
| | The new DLL checks the INI configuration file to detect incompatibilities between selected options.<br><br>Example: COMPRESSED_AS_USPC is not available for FAAST-PA, SOCO-SCAN and SOCO-SWIFT.<br>An error will be detected and you could find details into the log file. |
| ⚠️<br>Behaviour has been changed | The frequency sampling at 66.6MHz has been removed. |

# Bug fixed

| ID | Description |
|----|-------------|
| | The firmware has been updated: |
| | • To return all data on finite number of triggers. |
| | • To improve a dead zone at the beginning of the A-scan. |
| | • To run A-scans with COMPRESSED and EXTENDED mode at 8/9 bits for all frequency sampling. |
| | • To improve the element calibration process by eliminating inactive elements |
| | • To improve the Y calibration of the A-scan signal. |
| | • To improve the loading of the firmware when we change the A-scan mode. |
| | • To force divider to 1 when internal trigger is selected. |
| | • To correct the management of LED READY. It was OFF when a UT file designed for element calibration was loaded. |
| | • To correct interlacing mode. <br>     o  Sends interlacing value to file upload <br>     o  Auto recalculate the interlacing value if the repetition number changes |

# How to upgrade an existing system

**Upgrade procedure**

Run UTView

Solve the problem

OK — NO → Solve the problem

Stop UTView

You will need it after installtion to retreive IP address, type of device,... — Save UTView.ini

UTView < V2.1 — NO

Open an Internet browser such as Chrome or Edge
//IP_address_of_your_device/webadmin.cgi
See « Web administrator.pdf » for details — Run WebAdmin

Add reset & reboot features:
ImageUSB\UTView\Firmware&Config\patch\patch_reset_261119.bin — Apply patch reset

Restart device

Run WebAdmin

Upgrade common files for all devices
ImageUSB\UTView\Firmware&Config\cfg_generic_*ddmmyy*.bin — Apply generic update

Restart device

Run WebAdmin

Upgrade the firmware of a specific device
For FAAST-PA:
ImageUSB\UTView\Firmware&Config\frm_pa_*ddmmyy*.bin
For SOCO-X-UT:
ImageUSB\UTView\Firmware&Config\frm_soco_*ddmmyy*.bin
For SOCO-SWIFT:
ImageUSB\UTView\Firmware&Config\frm_ssw_*ddmmyy*.bin — Apply firmware update

Restart device

Run WebAdmin

Upgrade the configuration of a specific device
For FAAST-PA:
ImageUSB\UTView\Firmware&Config\cfg_pa_*xx_ddmmyy*.bin
For SOCO-X-UT:
ImageUSB\UTView\Firmware&Config\cfg_soco_*xx_ddmmyy*.bin
For SOCO-SWIFT:
ImageUSB\UTView\Firmware&Config\cfg_ssw_*xx_ddmmyy*.bin — Apply firmware update

Restart device

ImageUSB\UTView\setup32.exe
Or
ImageUSB\UTView\setup64.exe — Install software update

Edit UTView.ini file to change IP address, type of device, declare interface modules... — Set UTView.INI

**Run UTView**

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