









## Change log for aural Scan release v3.7.0 – Commit b32d13

smart optics is pleased to present a new software update for its scanner software aural Scan. This update is released for the following devices:

- mono Scan
- duo Scan
- duo Scan Touch
- ds Production
- free Stage
- free Stage one
- free Stage twin

By updating on version 3.7.0 you will benefit from all corrections and improvements described below.

### Added

-  #434 - Add support for SFTP
-  #543 - Automatically load the correct calibration folder from the `CalibrationFolderSearchPath` specified in the `Settings.xml`
-  #124 - Add new open workflow for single-axis devices (mono Scan and free Stage one)
-  #544 - Add new images for calibration and validation
-  #542 - Add a "Project" settings tab including a setting to "Always discard" or "Always save" the project folder
-  #542 - Add the "Copy to target folder" export method in the "Export" tab to restore similar behavior of version 3.2 in combination with the "Always discard" project folder. This setting replaces the former "Export folder"
-  #542 - Add the Setting "Files to Include" in the "Export" tab to filter export files
-  #542 - Add the setting "Add export files to a ZIP archive" in the "Advanced" section of the "Export" tab, as well as the "Export" Dialog. This replaced the "Export ZIP" function and now also allows export files directly to FTP or mail without creating a ZIP file.

- ⊕ #434 #550 - Add support for free Stage One and free Stage Twin
- ⊕ #583 - Add a prefix that can be configured inside the settings for file names
- ⊕ #582 - Add sensor ID and prefix to calibration protocol file name
- ⊕ #571 - Automatic detection of inserted object tone
- ⊕ #623 - Export method "No export" to only save the project without using any export methods



## Changed

- ⊕ #544 - Merge verification step into 3D-Calibration
- ⊕ #521 - Axes and 3D-calibration dialog images for all scanners to point out what to insert during the calibration
- ⊕ #577 - Show the validation results of both the XY and Z in the 3D Calibration dialog
- ⊕ #549 - Ear cast names are now included in the project folder name. You can deactivate this in the `Settings.xml` via `IncludeEarcastNamesInProjectDirectoryName`
- ⊕ #549 - Start scan buttons are no longer visible when a mesh is loaded from the disk. To discard loaded data now the "New Scan" menu entry must be used instead
- ⊕ #549 - `project.log` naming convention to `{scanNames}.project.log`
- ⊕ #549 - `project.xml` naming convention to `{scanNames}.notes.xml`
- ⊕ #549 - `order\_{scanfile}.pdf` naming convention to `{scanName}.order.pdf`
- ⊕ #549 - The project log no longer includes the export directory name
- ⊕ #566 - Hide Rescan and Measurement toolbar buttons for single-axis scanners instead of disabling them
- ⊕ #542 - Move "Data Format" and "Orientation" to the "Project" tab
- ⊕ #542 - The "Preferred Export Method" section now uses radio buttons and is renamed to "Export Method". The "Export dialog" now becomes an export method on its own.
- ⊕ #542 - The "Finalize" button in the "Export" dialog no longer writes the export files to disk. It now functions as a "Save project" button.

To export the scan data the "Folder" button will open a file browser to export the data instead.

- ⊕ #542 - Move settings "FTP", "PDF File", and "3D Calibration Protocol Folder" to the "General" settings tab
- ⊕ #542 - Change the "Project Folder" default path from "C:\Scans" to "C:\Projects"
- ⊕ #573 - Rename settings tab "3D Viewer" to "Appearance"
- ⊕ #573 - Rename the settings tab "Matching" to "Processing"
- ⊕ #573 - Rename "Project.log" to "Project protocol"
- ⊕ #573 - General improvements of texts and tooltips
- ⊕ #553 - New brand logos for application and installer



## Fixed

- ⊕ #544 - False display of start button after failed validation
- ⊕ #630 - Fix rare calibration failure when switching between devices




## Removed

- ⊕ #542 - Setting "Export Folder" and "Enable export without creating subfolders"
- ⊕ #542 - Preferred export method "Export ZIP" from "Setting" and "Export" dialog



# aural Scan Release v3.6.0

Release 2022-12-23 - Commit Hash 9cfde6fe



## Added

-  #522 - Support for camera daA1440

## Changed

-  #522 - Updated Basler pylon dependency to version 7.2.0
-  #150 - Update FlyCap viewer/sdk/driver to version 2.13.3.31


## Fixed

-  #520 - Fix sizing of user advice label so that no buttons are hidden after minimization.
-  #534 - Create export folder if path does not exist instead of failing on finalization.

## aural Scan Release v3.5.2

Release 2022-10-14 - Commit Hash 5530b2c1

## Fixed

-  #517 - Fix ActivityCalibration so that calibration data be loaded by thirdparty api again.

## aural Scan Release v3.5.1

Release 2022-10-14 - Commit Hash c9954aa



## Added

- ⊕ #476 - Add support for ultra-fast scan strategy and improve performance of existing strategies.
- ⊕ #478 - Make it possible to rename files before uploading to FTP servers.
- ⊕ #414 - Moved setting 'Work Folder' to 'Export' tab and renamed it to 'Project Folder'
- ⊕ #414 - Moved Setting 'Save scan data additionally in a separate directory' to own category 'Export Folder' and renamed it to 'Enable export without creating subfolders'
- ⊕ #398 - A new "Report" button to directly open the calibration protocol after validating the 3D calibration. This report is opened with the default PDF viewer configured in Windows. The export path of the "3D Calibration Protocol Folder" can now be configured in the "Export" settings tab.
- ⊕ #470 - Add support for new color capable scanners.
- ⊕ #470 - Add "LED Test" tool to ActivityKalibration to individually enable RGB LEDs.



## Changed

- ⊕ #468 - Update dependency Pagoda v4.13 to v5.1.
- ⊕ #458 - "Open SSP" button now using environment variables 'ActivityKalibration\_Audiology\_SSPActivationKeyURL' and 'ActivityKalibration\_Audiology\_SSPSharePath'.
- ⊕ #398 - Format of the 3D calibration report was changed from HTML to PDF.



## Fixed

- ⊕ #398 - Fix localized German strings in the 3D calibration report.
- ⊕ #488 - Install and use the font 'Roboto' to create PDF documents. This fixes the error 'Glyph table length must be even' when creating a PDF on Windows 11 Version 22H2 or later.

- ⊕ #487 - Objects should no longer move around when clicking "Save" during manual alignment in ActivityKalibration.
- ⊕ #501 - If a 3D calibration was triggered after a scan was previously performed, the calibration failed.



## Removed

- ⊕ #477 Legacy setting "Smooth Shading"

## aural Scan Release v3.4.1

Release 2022-09-15 - Commit Hash 602676



## Fixed

- ⊕ #424 - Fixed random failure of 3D calibration

## aural Scan Release v3.4.0

Release 2022-04-11 - Commit Hash 194764fe



## Added

Following features were added or updated:

- ⊕ #428 - Add support for alvium camera



## Changed

- ⊕ #451 - Update code signing certificate



Fixed

- #424 - Fix random failure during axis calibration by using correct scan angle

## aural Scan Release v3.3.2

Release 2022-02-21 - Commit Hash 5af7c8cb



Fixed

- #429 - Fixed FTP connection test with irregular symbols

## aural Scan Release v3.3.1

Release 2020-04-23 - Commit Hash b48144



Added

Following features were added or updated:

- #379 - Advanced export option "Save scan data additionally in a separate directory"

## aural Scan Release v3.3.0

Release 2020-03-13 - Commit Hash 585843



## Added

- ⊕ #59 - Added new project.log in which used scan strategies, matching and cutting parameters of the scanned project are documented
- ⊕ #189 - New setting to include patient names provided by Noah 4 as scan file names
- ⊕ #229 - New setting to select if Noah sends aural Scan to standby or Noah should close the application instead
- ⊕ #240 - Settings dialog can be configured to hides specific tabs or the whole dialog via Setting.xml entry "Hidden="true"
- ⊕ #253 - Documentation of last axis calibration and 3D calibration
- ⊕ #254 - Added a not skippable axis calibration notification after 30 days
- ⊕ #255 - Added support of FTPS protocols for the FTP module
- ⊕ #265 - Added a customizable order.pdf document which contains comments, informations and project related screenshots
- ⊕ #268 - Added feature to mark specific areas on the object surface which can be commented. The visibility of the pins can be toggled by a new render button inside the tollbar
- ⊕ #275 - Reworked user interface
- ⊕ #303 - New Function to show order.pdf if you right click and select "print" in Noah 4
- ⊕ #309 - Added restriction if files will be loaded via 'open file' they now must be located inside the same directory
- ⊕ #312 - Added new feature for adding project specific notes



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### ! IMPORTANT NOTICE !

This version will be the last to support Windows 7 and Windows 8.1. x86 based operating systems will no longer be supported in the future.

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## Changed

- ⊕ #11 - Enabled uninstall of older version on update installation.
- ⊕ #59 - Info.log was replaced by project.log
- ⊕ #70 - Currently active toolbar buttons will now be highlighted
- ⊕ #256 - FTP upload now supports a list of servers and parallel uploads
- ⊕ #257 - Improved error messages when no camera/scanner is found
- ⊕ #264 - Files are now exported to a project folder inside the export directory (The command line interface stays untouched)
- ⊕ #270 - Simplified the installation folder structure
- ⊕ #283 - Only 3D viewer settings are accessible in viewer mode now
- ⊕ #300 - Files are exported to a subfolder inside for Noah 4 now
- ⊕ #314 - To speed up barcode scanning, the right name box will be preselected after scanning the left side
- ⊕ #315 - Corrected view angle of "front" view
- ⊕ #316 - We decided to unlock the FTP feature for every user



## Fixed

- ⊕ #223 - Fixed text highlighting issue when name has not fulfilled name requirements for mono scan
- ⊕ #325 - Fixed software freeze if image acquisition or validation fails
- ⊕ #239 - Fix encoding issues with UTF16 Windows user names e.g. Asian and Arabic Windows users
- ⊕ #261 - Issue with holes in ASCII export point cloud

## aural Scan Release v3.2.1

Release 2019-08-10 - Commit Hash 2bc547



## Fixed

- #251 - Manual object rotation blocked reset of cursor

## aural Scan Release v3.2.0

Release 2019-09-03 - Commit Hash 97c1b7



## Added

- #242 - Support of future firmware
- #247 - Highlight results of the 3D calibration with a deviation of more than 14  $\mu$  in red inside the calibration record



## Changed

- #234 - Automatically place cursor in left text box when a case is closed
- #246 - Disable CPU idle state during measurements




## Fixed

- #222 – Software start-up issues after deinstallation of Himsa Noah

## aural Scan Release v3.1.1

Release 2019-04-08 – Commit Hash bc3dc6

 Changed

- ⊕ #232 - Changed service position for free Stage

## aural Scan Release v3.1.0

Release 2019-03-01 – Commit Hash 989368

 Added

Following features were added or updated:

- ⊕ #23 - Configurable automatic rotation of mesh after completion of matching process
- ⊕ #85 - New translations
- ⊕ #155 - 3D Calibration including protocol saved in "C:/Scans/Calibration" after validation.
- ⊕ #163 - Support of the new audiology scanner "freeStage"
- ⊕ #177 - Added support tool "ActivityKalibration" to the installation directory
- ⊕ #218 - Added new XML attributes to define STL RGB values for 3Shape CAD software



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### ! IMPORTANT NOTICE !

The 3D-calibration is an additional feature and is only possible with a special calibration object offered by smart optics.

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 Changed

- ⊕ #91 - Changed "Scan Object Tone" categories with more practical orientation to material color
- ⊕ #145 - Allow parallel installation of "duoScan" and "aural Scan"

- ⊕ #146 - Improved CLI command environment at software start-up
- ⊕ #147 - Full commit hash is now available in About dialog
- ⊕ #149 - Disable Touch Screen for Calibration dialogs
- ⊕ #171 - The installer now deletes 'Settings.xml' during installation
- ⊕ #183 - Improved confidence settings based on v2.8.1



## Fixed

- ⊕ #128 - The Finish key could be activated twice
- ⊕ #186 - Duo Scan Touch is detected in the title bar
- ⊕ #188 - "Move to Service" was not called when "Scan Again" was enabled.



## Removed

- ⊕ #143 - Panel "About 3DV\_Control" after double click next to text box

# aural Scan Release v3.0.0

Release 2018-07-30 – Commit Hash 2b5df2



## Added

- ⊕ #1 - Added support of new duoScan Touch
- ⊕ #2 - Added function to allow direct scan start and enabled naming during scan process
- ⊕ #9 - Added "freedom of choice" for "Follow-up strategy" inside Settings menu
- ⊕ #12 - Added new GUI design for the Audiology Software

- ⊕ #29 - Added workflow for instant scanning if barcode is scanned using a barcode scanner
- ⊕ #39 - Added commands "Copy" "Cut" and "Paste" to menu of right mouse key if users click into the text box
- ⊕ #40 - Added function to bypass unsupported characters in text box including automatic monitoring of filename
- ⊕ #56 - Added new settings menu and cleaned up tabs



## Changed

- ⊕ #5 - Harmonized language menus of "Installer" & "Software Settings"
- ⊕ #8 - Improved undo of Cutting Tools
- ⊕ #33 - Renamed setting "Move reduced" to "Show point cloud when mesh is moved"
- ⊕ #65 - Renamed Setting "Saving Images" and implemented saving of more support files.
- ⊕ #84 - Changed setting "object scan tone - dark" to improve scanning of pink silicone
- ⊕ #117 - 'Scanner installer tool' now supports .NET Framework 4



## Fixed

- ⊕ #8 - Fixed buggy undo of Cutting Tools
- ⊕ #19 - Fixed issue where settings Thinning and Smoothing had impact on axes calibration
- ⊕ #22 - Fixed issue where empty folders will be dropped in %localappdata%
- ⊕ #25 - Fixed issue where software cannot find scanner because comport 0 was missing in settings.xml
- ⊕ #79 - Fixed issue where undo of cutting tools was no longer available after rescan was matched.

- ⊕ #95 - Fixed issue where system setting "Minimum/MaximumScanFileNameLength" had no function.
- ⊕ #97 - Fixed issue where various old files remained in temp folder
- ⊕ #100 - Fixed issue of Software freezes after several measurements in a row
- ⊕ #135 - Fixed an issue where a dot in the file name caused a forced file extension.



## Removed

- ⊕ #31 - Removed setting "Sound by action "
- ⊕ #34 - Removed setting "Ask for matching on scan data "
- ⊕ #35 - Removed setting "Always do matching on scan data "
- ⊕ #64 - Removed relation of Setting "Thinning" to confidence calculation
- ⊕ #94 - Removed "Application is stating" text on start-up splash screen
- ⊕ #112 - Removed Setting "Delete scan data on exit"
- ⊕ #121 - Removed axis calibration in rescan mode

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