

SCENE Version 2024.1.1

Release Notes

February 2025

FARO is pleased to announce the release of SCENE and SCENE LT version 2024.1.1.

We would like to thank customers who provided valuable product input.

This release includes feature enhancements that are designed to increase productivity, mobility and ease-of-use.

Release Version 2024.1.1

Improvements

- SC-8165: It is no longer possible to disconnect from Sphere XG while a project is being uploaded, or changes are being synchronized.
- SC-8269: While uploading a project to Sphere XG some temporary files are created. They are now created in the SCENE temporary folder that you can define on the General Settings page.
- SC-8277: For Orbis Premium Flash scans, the local reference system Z axis now follows gravity. This solves the issue of tilted scans when exporting them to other software products.
- SC-8297: SLAM processing options strings are now translated into the FARO core languages.
- SC-8359: The position and appearance of the SLAM processing dialog have been improved.
- SC-8480: .e57 compatibility improvements
 - Export: 360° image poses from SLAM mobile scans are now included when they are exported in .e57 format.
 - Import: you can now import data from third-party mobile mappings, and the 360° images will be properly read and shown in the SCENE project.

Bug Fixes

The following issues have been fixed:

- SC-8287: Some projects were showing error 3 when trying to upload them to Sphere XG.
- SC-8332: The SLAM processing activity did not show any progress or log entries after logging into Sphere XG.
- SC-8336: The monopod height granularity allowed entering values in centimeters. Now, the granularity also allows entering millimeters.
- SC-8351: Using the orthophoto app caused SCENE (2024.1) crash.
- SC-8356: Focus scans failed to process on some computers with thread-ripper processors.
- SC-8357: SCENE crashed when saving the project after deleting points in Orbis Premium scans and in the project point cloud.
- SC-8360: Full-resolution Focus HDR scans failed to process.
- SC-8367: On-site compensation and on-site registration failed for FARO Focus S and M scanners.
- SC-8390: Orbis processing failed if the SCENE project name contained accents or other special characters.
- SC-8399: UTF-8 was not supported in Sphere XG workspace names.
- SC-8428: The + and - keys on the number pad did not modify the clipping box handlers.

Further Changes

- SC-8400: The *Processing finished successfully* dialog, which appeared when processing SLAM scans, has been removed.
- SC-8422: The UI strings *Scan Point Cloud – Unordered* and *Scans – Ordered* in the Export Scans menu have been replaced by *Scan Point Clouds* and *Scans* to enhance the translation in all FARO core languages.

Release Version 2024.1

Announcements

- SCENE 2024.1 introduces a new license activation process. Make sure to read [this License Activation and Update](#) article on the FARO Knowledge Base before you install SCENE 2024.1 for the first time.

New Features

- SCENE 2024.1 can import and process .geoslam files captured by FARO SLAM Scanners (Orbis Premium, Orbis, Horizon, Revo).
- SCENE 2024.1 can now upload a project which contains generic scans, for example .e57 or .laz format, to Sphere XG.

Improvements

- SC-8202: The disks representing scan locations in the interactive registration now always face the screen and have been reduced in size. This improves the user experience when data is explored in a side view.

Bug Fixes

The following issues have been fixed:

- SC-7332: When exporting multiple .fls files from SCENE at the same time, two files were created for each scan - one without an extension and one with an .fls extension. Now, only the .fls files are created.
- SC-7664: Scans containing only a specific section of an area had resolution issues in the Quick View and Planar View.
- SC-8136: Occasionally, importing .e57 files with images took a very long time.
- SC-8213: The Orthophoto app was not installed in SCENE LT 2024.0.1.

Further Changes

- SCENE 2024.1 uploads Flash and mobile scans from processing .geoslam files to Sphere XG. However, these scans are not yet visible in the Sphere XG Viewer. Our experts are currently working on this feature.

Known Issues

- The new SLAM Process Activity window can sometimes fail to update. Restarting SCENE normally resolves this.
- The new SLAM processing settings are in English only. This will be enhanced in the next release.
- The monopod height is limited to centimeter values. Millimeter value will be implemented in the next release.
- The new SLAM processing settings currently support only the metric system. You must define values accordingly.

Release Version 2024.0.1

Improvements

- SC-8122: Scan processing had lost performance in SCENE 2024.0. Now, in SCENE 2024.0.1, processing of FARO Focus scans is faster than in SCENE 2023.1 in most cases.
- SC-8120: Specific error messages when running out of disk space while uploading a project to Sphere XG.

Bug Fixes

The following issues have been fixed:

- SC-8014: Occasionally, when processing scans for the first time, some scans failed to process but succeeded in a second processing attempt.
- SC-8118: SCENE crashed when running a manual registration between two clusters.
- SC-8123: SCENE crashed while opening the properties of a grid.
- SC-8119: Projects containing meshes could not be uploaded to Sphere XG.
- SC-8148: Projects containing CAD objects from As-Built Modeler could not be uploaded to Sphere XG.

Release Version 2024.0

New Features

- You can now upload a SCENE project to Sphere XG. In addition, you can synchronize newly added scans, clusters and modifications in the project between SCENE and Sphere XG.
- Post registration scans optimization: The process analyzes the geometry within the overlap areas of multiple scans to compensate deviations in the scans.

Improvements

- SC-6914: When you exported a SCENE project to create a backup, both the original and the new project had the same UUID. As a result, the SCENE project selector only showed one of these projects, however you could open both manually. Starting from this version, the exported project gets a new UUID.
- SC-7611: You can now use clipping boxes to clip objects like scan positions and connections in the interactive registration.
- SC-7642: If you ran a target-based registration on a project that had reference points, the registration automatically looked for correspondences between the objects of the clusters and the reference points. The registration settings for the target-based interactive registration now provide an option to enable or disable this behavior.
- SC-7650: The interactive registration toolbar now has a toggle to show or hide connections to reference points.
- SC-7666: The interactive registration toolbar now has a toggle color mode button in the quick view. With this button, you can toggle between color and grayscale (intensity) mode. In grayscale mode, detecting spheres is sometimes easier.
- SC-7714: The Autodesk ReCap SDK has been updated to version 24.0.1.48. The SDK now utilizes parallel processing which improves the affected operations.
- SC-7751: The SCENE API can now be compiled with C++17 without setting any preprocessor definitions.
- SC-7828: If you ran a manual registration with correspondences for a cluster alignment, correspondences could have a negative impact on the cloud-to-cloud optimization. Now, correspondences are deleted automatically before running a cloud-to-cloud optimization.
- SC-7844: Exported .e57 scans now also include areas without scan points, for example the sky. This improves the quality of the scans' panorama pictures.

Bug Fixes

The following issues have been fixed:

- SC-7532: When structured .e57 data with a minimum row/column size less or equal 0 were imported, the result of the row/column calculation was invalid.
- SC-7604: SCENE sometimes crashed on opening the quick view.
- SC-7617, SC-7631: In the target-based registration user-specific target names were sometimes changed automatically.
- SC-7624: In some situations, coordinates were not shown in the lower half of the quick view. In addition, making measurements as well as creating annotations or new targets was not possible.
- SC-7654: After deleting some points in a project point cloud, then saving the project and wiping the project history, the deleted points were available again.
- SC-7655: After importing project *a* into project *b* and then saving the combined project and wiping the project history, the scan point clouds of project *a* were no longer available.
- SC-7656: The export of high-resolution panorama images and .e57 data stopped working after 100 scans.
- SC-7668: PanoCam scans and Flash scans did not have grayscale (intensity) values in WebShare and SCENE 2go after creating data for these applications in SCENE from a project which had both, color and grayscale values.
- SC-7669: After deleting a scan in the interactive registration view, the scan icon was still visible.
- SC-7762: Resolution and quality in the scan *Properties* dialog, tab *Scan Area*, were sometimes not displayed correctly.
- SC-7738: The registration to reference points did not show target connections below high-detail scans in the Scan Manager.
- SC-7770: When using the *Apply Pictures* functionality to colorize scans, the contrast in the intensity image was reduced considerably. This effect was visible in the SCENE quick view and in the exported panorama view in WebShare.
- SC-7801: In the correspondence view, no handlers were shown for clusters directly below the root object.
- SC-7827: The target-based registration did not work properly with PanoCam scans.
- SC-7829: The feature for measuring the height of a suspect using an image did not work in SCENE 2023. This functionality has been reactivated. You can find further information on this feature under [Measure a Suspect's Height Using an Image](#) on the FARO Knowledge Base.
- SC-7830: In some cases, SCENE consumed a large amount of memory when importing and processing non-ordered scans as .las or e57.
- SC-7840: On rare occasions saving projects failed with error code 94.
- SC-7858: When registering a high detail scans cluster in which the main scan was a PanoCam scan, the registration result had an offset between the high detail scans and the PanoCam scan.
- SC-7917: Target properties regarding their usage during the correspondence search were ignored by the interactive registration.
- SC-7915: In some cases, a scan-to-scan connection line was pointing from a scan to a sphere.

Further Changes

- SC-7643: Double-clicking a scan point error in the Scan Manager automatically zooms in to the location in the registration view and the connection is highlighted. This behavior is now also available for target tensions.
- SC-7644: When SCENE could not find or access the calibration parameters for the PanoCam or the scanner, it did not colorize the scans and did not report an error. Now, an error is reported in this situation. Scans were also not colorized if the Windows user name contained special characters. Special characters are now supported and in cases where a special character is not recognized an error is reported.
- SC-7645: The registration kept showing a red cluster for the root object, although the clusters below were registered and locked. Now, the Scan Manager below the root object automatically runs an *Update Statistics* procedure and is subsequently locked.
- SC-7646: The UI in the progress bars of the interactive registration has been improved.
- SC-7670: Target connections in the interactive registrations are now visible (enabled) by default.
- SC-7750: The cloud-to-cloud registration and the registration statistics now ignore points from opposite sides of the same wall.
- SC-7831: Calculating scan-point-based statistics or target-based statistics is no longer required due to the new hybrid bundle adjustment. Therefore, these UI options were removed from the *Registration Settings* page.
- SC-7859: The scanner API, previously deprecated, has now been removed from the stand-alone API. The replacement is the web api. If you still need this functionality, use one of the previous API releases.

Further Information

Online Help and Video Tutorials

FARO's Knowledge Base provides a variety of online tutorials for SCENE software. Access them from the Help menu within SCENE or with the following link:

knowledge.faro.com/Software/FARO_SCENE/SCENE

Visit the FARO Customer Service area on the Web at www.faro.com to search our technical support database, which is available 24 hours a day, 7 days a week. The link to the technical support database is also accessible from within SCENE.

Version History and Release Notes/

The full version history and past release notes can be found on the [FARO Knowledge Base](#)

Computer System Recommendations

A detailed list of computer system requirements and recommendations can be found in the SCENE user manual.

Contact Information

- FARO Technologies, Inc.
250 Technology Park
Lake Mary, FL 32746
800-736-2771 U.S. / +1 407-333-3182 Worldwide; FAX: +1 407 562 5294
Email: support@faro.com
- FARO Brazil
Rua San José, 360
Cotia, SP 06715-862
Phone: 0800-047-4271 / +55 11 3500-4600
Email: suporte@faro.com
- FARO Europe GmbH & Co. KG
Lingwiesenstrasse 11/2
D-70825 Korntal-Münchingen, Germany
FREECALL +800 3276 7378 / +49 7150/9797-400
FREEFAX +800 3276 1737 / +49 7150/9797-9400
Email: support.emea@faro.com
- FARO Singapore Pte. Ltd.
3 Changi South Street 2
#01-01 Xilin Districentre Building B
SINGAPORE 486548
TEL: 1800 511 1360, +65.6511.1360 ; FAX: +65 65430111
Email: supportap@faro.com
- FARO Japan,c.
716 Kumada, Nagakute-City,
Aichi, 480-1144, Japan
TEL: 0120-922-927, 052.890.5011; FAX: 052.890.5012
Email: supportjapan@faro.com
- FARO (Shanghai) Co., Ltd.
1/F, Building No.2
Juxin Information Technology Park
188 Pingfu Road, Xuhui District
Shanghai 200231 CHINA
TEL: +800 6511 1360, +86 021 61917600; FAX: +86 21 64948670
Email: supportchina@faro.com

- FARO Business Technologies India
Pvt. Ltd. E-12, B-1 Extension,
Mohan Cooperative Industria Estate,
New Delhi-110044, India
Tel.: 1800.1028456
Email: supportindia@faro.com

Copyright © 2025 FARO. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or by any means without written permission of FARO.