

SCENE Version 2022.1

Release Notes

May 2022

FARO is pleased to announce the release of SCENE and SCENE LT version 2022.1.

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 2022.1

New Features

- *XX-690:* Starting from FARO Focus firmware 6.8.2, it is possible to use FARO Swift with a Ricoh Theta Z1 Panorama camera mounted directly on the FARO Focus Scanner. SCENE can now process these scans.
- *SC-6231:* Exporting a single structured scan to Recap is now supported.
- *ES-207:* SCENE now supports coloring FARO Focus Premium scans with high-resolution images (13MP) made by the scanner's internal camera.
- *Freestyle2 scan fit:* If a FARO Focus scan is available which includes detected markers in the scan, these markers can be used as external constraints for the Freestyle2 scan if this scan contains the same markers. This feature ensures that Focus and Freestyle2 scans fit together as best as possible. Users can do this in the phone app, or in SCENE.

Improvements

- *XX-673:* The preprocessing of Swift scans was simplified. When users select the Preprocessing function for Swift scans, a dialog opens that provides further preprocessing options.
- *Freestyle2 scan repair:* For the scan repair feature, the overall workflow was optimized by reducing the required steps.
- *FSII-3355:* The visualization of the loop planes during the manual registration is now automatically enabled. These planes are going to be used to define the correspondences during the manual registration.

Bug Fixes

- *SC-6658:* When doing a visual registration in the Correspondence View, only the translation manipulators could be resized with the + and – keys, not the rotation manipulators.
Resolution: You can now also resize the rotation manipulators with the + and – keys.
- *SC-6661:* *Exporting* a project point cloud with large coordinates in E57 format sometimes resulted in a diminished point cloud.
Resolution: This issue has been fixed.
- *SC-6770:* Changing the adaptive point size did not work for raw scans.
Resolution: This issue has been fixed.
- *SC-6822:* SCENE did not run an automatic registration under the following circumstances:
 - The project was pre-registered in FARO Stream.
 - The project was imported from an SD card.
 - After the SD card transfer, users started the scan processing.

- Property *Perform Automatic Registration* was enabled in the *Processing* tab.
Resolution: This issue has been fixed.

- SC-6852: Importing LAS scans sometimes resulted in a diminished point cloud.
Resolution: This issue has been fixed.
- SC-6872: If one of several scans had inaccurate inclinometer measurements, this also affected the registration result.
Resolution: The impact of the inclinometer on the registration result has been reduced.
- During the import of E57 and LAS data the provided bounding boxes were sometimes wrong.
Resolution: The bounding boxes are now recalculated upon import.

Feature Release 2022.0

New Features

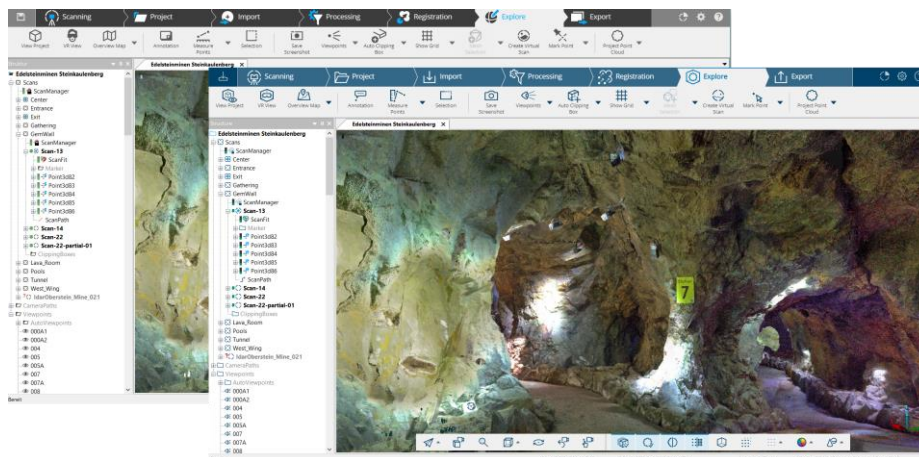
- FARO Focus Premium scans and projects are now supported.
- In the 3D view of scan point clouds or project point clouds you can undo and redo deletions.
- The graphic user interface is now available in Korean and Vietnamese. The SCENE user manuals will be published in Korean and Vietnamese on the FARO Knowledge Base (see also section *Further Changes*).

Announcements

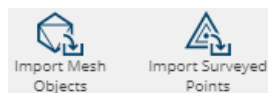
- Exporting ordered scans and projects to ReCap may require a manual SDK installation (see [FARO Knowledge Base](#) for installation instructions). If you are installing this SCENE version on a computer where SCENE was previously installed, the SDK is already installed on the computer. If you install SCENE on a computer for the first time, you must install the LS SDK manually.
- If you want to access WebShare via SCENE, read [this article](#) to learn about the new login procedure.

Improvements

- The graphic user interface has been modernized to match the look and feel of other FARO software products. The interface design has also been improved to increase ease-of-use and user-friendliness.



- The Import Objects button in the Import toolbar was removed. In its place, there are two new buttons, one for importing mesh objects and another for importing external reference points.



Further Changes

- SCENE 2022.0 is the first release without the LS SDK. FARO will no longer release the FARO LS SDK and it will no longer be part of the SCENE installers. However, you can still use the former SDK. It will also read FARO Focus Premium data in processed SCENE projects. If you need the SDK for your processes, download the latest SDK from the [FARO Knowledge Base](#). For new implementations where you need to read and process FARO Focus Premium RAW data or remotely control the FARO Focus Premium Scanner, please use the SCENE C++ API or the new LSWebAPI for Focus Scanners.

- The SCENE installation will only contain the English PDF user manual. The translated user manuals will be published on the FARO Knowledge Base. Users can access the FARO Knowledge Base from within SCENE via a new button in the Help toolbar.
- SD card import of scan projects is disabled in SCENE LT.

Bug Fixes

- SC-6117: Exporting a project point cloud with large coordinates in RCS or RCP format resulted in a diminished point cloud.
Resolution: This issue has been fixed.
- SC-6584: Some dialogs and messages were not translated.
Resolution: The missing translations were added.
- SC-6597: Deleting scan points of a selection in the 3D view of raw scans also deleted the 2D image data (color and reflection) from the Quick View and the Planar View.
Resolution: The 2D image data, i. e. reflection and color data, is only deleted in the Planar View and the Quick View. The data is not deleted in the 3D view.
- SC-6695: SCENE process log files contained numerous entries with error 29 without any obvious reason.
Resolution: The error reporting was fixed.
- SC-6731: Selecting scan points in the 3D view of a cluster sometimes caused the 3D view to flicker.
Resolution: This issue has been fixed.
- SC-6746: Exporting data from a selection or from an active clipping box in RCS or RCP format failed with error 18.
Resolution: This error has been fixed.
- SC-6778: Calling the SCENE API function `colorizeScan()` for unloaded scans did not work as expected. While it did not return an error message, it did not add color.
Resolution: The automatic loading and unloading of scans was fixed.
- SC-6779: Calling the SCENE API function `colorizeScan()` did not work for PanoCam scans.
Resolution: This issue has been fixed.
- SC-6804: Plug-in app icons are sometimes duplicated after refreshing the Apps category.
Resolution: This issue has been fixed.
- SC-6811: Starting the registration optimization as cloud-to-cloud optimization sometimes caused the subsampling slider on the Select Method page to show NaN. As a result, the registration failed without returning an error message.
Resolution: This issue has been fixed.

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 the Help menu in SCENE.

Version History and Release Notes

The full version history and past release notes can be found in [FARO's Knowledge Base](#)

Computer System Recommendations

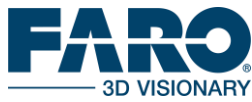
A detailed list of computer system requirements and recommendations can be found in the [SCENE user manual](#).

Third-Party Products

The following third-party product is referenced in these Release Notes.

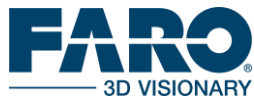
- ReCap by [Autodesk](#)

FARO does not support this product. Contact the manufacturer for support.



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 © 2022 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.