

# SCENE Version 2022.2

## Release Notes

### November 2022

FARO is pleased to announce the release of SCENE and SCENE LT version 2022.2.

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.

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## Release Version 2022.2

### Announcements

- SCENE 2022.2 comes with a new license activation process. Make sure to read article [License Activation and Update for SCENE 2022.2 and Later](#) on the FARO Knowledge Base before you install SCENE 2022.2 for the first time.

### New Features

- SC-6925: It is now possible to create photorealistic panorama images from PanoCam scans. The color is captured by the PanoCam. For more information, read article [PanoCam Scans in SCENE](#) on the FARO Knowledge Base.

### Improvements

- *FSII-3445*: The Handheld Scan Repair task now also provides an option for an automatic scan repair.
- *FSII-3389*: Marker detection improvements: marker normal and orientation are calculated from processing.
- *SC-5334*: ReCap project export is now more robust. Unordered and ordered project exports were combined to a single rcp export which exports ordered scans as ordered and unordered scans as unordered. For more information, read article [RCS/RCP Export for Ordered Scans in SCENE](#) on the FARO Knowledge Base.
- *SC-6708*: The Auto Clustering option is now available in the general and project-specific registration settings as well as in the processing configuration.
- *SC-6839*: The 3D scanner model was updated to the FARO Focus Premium model with proper texture.
- *SC-6927*: The Help section of the Workflow bar now provides a "Contact Technical Support" button. Clicking this button opens a FARO website where you can create a support request.
- *SC-6928*: You can now open the Correspondence Split View directly from a cluster in the Structure View.
- *SC-7027*: For the Configure Project Transfer task, all transfer checkboxes are now deselected by default. You can either select the checkboxes you want or select and deselect all checkboxes in the header line.

## Bug Fixes

- SC-6907: Off-screen rendering sometimes froze if too many point clouds were rendered. As a result, SCENE 2Go got stuck when it started to create the Overview Map.  
*Resolution:* This issue has been fixed.
- SC-6935: SCENE sometimes crashed when a project was closed.  
*Resolution:* This issue has been fixed.
- SC-6954: The normal vectors returned by the API function `getScanNormalsIterator()` were not in global coordinates, but the positions were.  
*Resolution:* This issue has been fixed.
- SC-7036: Scans captured with the FARO Focus Premium (but without the Stream app) were not placed correctly by sensors during the import into SCENE (single scan import and project transfer).  
*Resolution:* This issue has been fixed.
- SC-7059: SCENE sometimes crashed when creating a clipping box or when opening a correspondence view.  
*Resolution:* This issue has been fixed.
- SC-7102: Processing a project containing both scans with and without PanoCam images sometimes caused a deadlock.  
*Resolution:* This issue has been fixed.

## Known Issues

- FARO Focus Firmware 7.1: Currently, the HDR settings of the PanoCam do not yield satisfactory results. We recommend using only the Low Noise settings.
- When exporting a SCENE project or parts of a SCENE project in Isproj format (with functionality Export As Project), the new project will have the same UID as the original project. If both, the old and the new exported project, are stored in the default SCENE project folder, only one of these projects will be visible in the SCENE Project Overview.

## 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 preprocessing of 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.

### 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

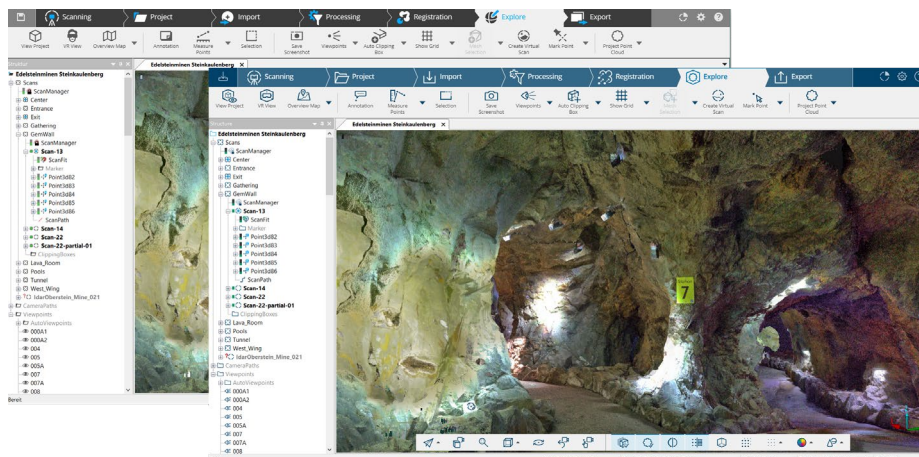
- FARO Focus Premium scans and projects are now supported.
- In the 3D view of scan point clouds or project point clouds you can undo and redo deletions.
- The graphic user interface is now available in Korean and Vietnamese. The SCENE user manuals will be published in Korean and Vietnamese on the FARO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

### Announcements

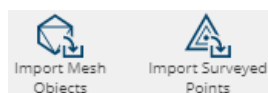
- Exporting ordered scans and projects to ReCap may require a manual SDK installation (see [FARO Knowledge Base](#) for installation instructions). If you are installing this SCENE version on a computer where SCENE was previously installed, the SDK is already installed on the computer. If you install 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.

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## 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](https://knowledge.faro.com/Software/FARO_SCENE/SCENE)

Visit the FARO Customer Service area on the Web at [www.faro.com](https://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](#).

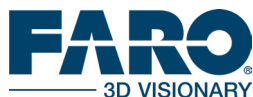
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## Third-Party Products

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

- ReCap by [Autodesk](#)

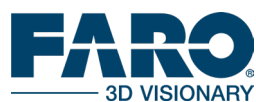
FARO does not support this product. Contact the manufacturer for support.



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