Release Notes

Intel® RealSense™ SDK
3D Scan
for Windows* Release
SR300 Beta
F200 Gold
3D Scan Gold

3D Scan version 11.0.27.8892

These release notes cover Intel® RealSense™ SDK for use with Intel® RealSense™ Camera, model SR300 and Intel® RealSense™ Camera, model F200. Please review the **"Intel RealSense SDK License.rtf"** for licensing terms. Please refer to attributions.rtf for third party attributions and third_party_programs.txt for third party licenses.

IMPORTANT! PLEASE READ!
- This release supports 2 cameras:
  - The **Intel® RealSense™ Developer Kit Camera (F200)**
  - The **Intel® RealSense™ Developer Kit Camera (SR300)**, which can be ordered on the Intel RealSense Website (https://software.intel.com/en-us/realsense/devkit)
- This package does not include the driver/service (DCM) for the camera. Camera Driver / DCM Package is hosted on Windows Update. It is automatically installed when you connect your camera to the system. If not automatically installed, please download the Camera Driver / DCM Package from the Intel® RealSense™ SDK downloads website.
  - SR300 Camera: DCM version 3.1.25.1077 or later
  - F200 Camera: DCM version 1.4.27.41944 or later
- This package is a portion of the entire Software Development Kit package. It can be installed standalone. This package requires the Intel® RealSense™ SDK Essentials for Windows* package which will be installed by the installer if not already present on the system.
  - Intel® RealSense™ SDK Essentials for Windows* version 11.0.27.1384
- If installer requests that you reboot, **please reboot**, or your system will not install correctly.
- F200 Camera OS:
  - * Microsoft* Windows* 8.1 x64 August Update required
  - * Microsoft* Windows* 10
- SR300 Camera OS:
  - **Microsoft* Windows* 10**

Contents

SDK Features

Please note that SDK features are at various levels of maturity in this release as follows:

Maturity	F200 Feature	SR300 Feature
Gold	• 3D Scan	
Beta		• 3D Scan
Alpha		
Preview		

Installation steps for SDK

This is for developer systems ONLY

- Run the Intel® RealSense™ SDK 3D Scan for Windows* installer (intel_rs_sdk_mw_scan3d_offline_11.0.27.8892.exe).

SDK Interface Changes

- SDK 2016 R3:
  - Unity
    - Intel.RealSense.seg3d.unitypackage provided under `$RSSDK_DIR/framework/Unity` for easy integration of algorithm modules. For more info, `ReadMe` provided in the same directory.
    - Automated copying of runtime contents in application data directory while building Unity standalone executable. No manual steps required for deploying.
    - Fixed Unity Editor hang issue when subscribing to alert events.

F200 Release Notes

The following items apply to the F200 camera.

F200 SDK Features
Gold Features

- o 3D Scan and reconstruction of face and Objects.

F200 Known Issues and Limitations

3D Scan

Issue	Recovery/Workaround
If the camera distance is too far, the rear portion of the scan (relative to the starting camera/object orientation) may be missing (beyond a cut plane) which can lead to large holes, lost tracking and/or unexpected surfaces (e.g. solidification).	Restart the scan from a closer range. The ideal distance from the camera to the front of the object is 30cm for F200 (or SR300) and 65cm for R200.
Backlighting can cause exposure problems (too dark).	Make sure the camera faces away from windows during the scan.
The mesh is not generated or is corrupt.	Read the included 3D Scan documentation. Ensure the scanning volume contents are stationary for the duration of the scan.
The first preview image after scanning starts is unexpectedly black.	None. We expect to fix this in a future release.
Reconstruct can only be called once per scan.	The record and playback system can be used to process the same scan using various options.
`framework/CSharp/Intel.RealSense.Scan.unity` VS project does not build successfully on VS2012 or VS2013	Right Click the Project -> Add Reference -> [Unity Install Directory]/Editor/Data/Managed/UnityEngine.dll
For Windows 10 Swedish language package, the sample will only generate the .obj output file and not the html version so that it can be viewed in the browser.	Since the .obj output is generated, we can use any 3 mesh viewers like meshlab. The module is working perfectly and it is an extra convenience for the sample to create an html version for using the browser as the viewer.

SR300 Release Notes

The following items apply to the SR300 camera.

SR300 SDK Features
Beta Features

- o 3D Scan and reconstruction of face and Objects.

SR300 Known Issues and Limitations

3D Scan

Issue	Recovery/Workaround
If the camera distance is too far, the rear portion of the scan (relative to the starting camera/object orientation) may be missing (beyond a cut plane) which can lead to large holes, lost tracking and/or unexpected surfaces (e.g. solidification).	Restart the scan from a closer range. The ideal distance from the camera to the front of the object is 30cm for F200 (or SR300) and 65cm for R200.
Backlighting can cause exposure problems (too dark).	Make sure the camera faces away from windows during the scan.
The mesh is not generated or is corrupt.	Read the included 3D Scan documentation. Ensure the scanning volume contents are stationary for the duration of the scan.
The first preview image after scanning starts is unexpectedly black.	None. We expect to fix this in a future release.
Reconstruct can only be called once per scan.	The record and playback system can be used to process the same scan using various options.
`framework/CSharp/Intel.RealSense.Scan.unity` VS project does not build successfully on VS2012 or VS2013	Right Click the Project -> Add Reference -> [Unity Install Directory]/Editor/Data/Managed/UnityEngine.dll
For Windows 10 Swedish language package, the sample will only generate the .obj output file and not the html version so that it can be viewed in the browser.	Since the .obj output is generated, we can use any 3D mesh viewers like meshlab. The module is working perfectly and it is an extra convenience for the sample to create an html version for using the browser as the viewer.
3DScan module Landmark Feature requires the Face module to be installed. The absence of the Face module, will either prevent the current configuration selected to be available or perform with less degree of accuracy.	Download the Face module per design.