Release Notes

Intel® RealSense™ SDK
Face Detection & Tracking
for Windows* Release
F200 Gold
SR300 Beta

Face Detection & Tracking version 11.0.28.2787

These release notes covers 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™ SDK 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 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 install 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
Gold	Face Tracking

Maturity	SR300 Feature
Beta	Face Tracking

Installation steps for SDK

This is for developer systems ONLY
- Run the Intel® RealSense™ SDK Face for Windows* installer (intel_rs_sdk_mw_face_offline_11.0.28.2787.exe).

F200 Release Notes
The following items apply to the F200 camera.

F200 SDK Features
Gold Features

- Face Tracking
  - Default value of SmoothingLevelType in face configuration was changed from 'LANDMARKS_SMOOTHING_LOW' to LANDMARKS_SMOOTHING_MEDIUM'. This change yields a stronger temporal smoothing of the facial landmark points over frames.

Alpha Features
- Face recognition

F200 Known Issues and Limitations
Face Detection, Pose Detection and Landmark Tracking

Issue	Recovery/Workaround
The camera mirror mode is unsupported.	Mirror images in the application, if needed.
In some scenarios when using face recognition high CPU utilization may occur.	Disable face recognition when not required for your solution. Fix to be introduced in a future release.
Some expressions are still in the alpha quality (especially brows).	Use the landmarks directly.
In face_tracking sample, with RealSense camera connected, 2D mode cannot be used	This will be addressed in an upcoming update
When working with the camera and requesting face to work in 2D mode Face still works in the 3D mode only.	Support for Face in 2D mode will become available in a future update release.
In a scenario when one application is setting the camera profile (resolution, FPS etc.) to an	Ensure camera profile is set to one of the supported Face configurations

unsupported configuration by Face, Face behavior is unexpected	

SR300 Release Notes

The following items apply to the SR300 camera.

SR300 SDK Features

Beta Features

- Face Tracking
  - Default value of SmoothingLevelType in face configuration was changed from 'LANDMARKS_SMOOTHING_LOW' to LANDMARKS_SMOOTHING_MEDIUM'. This change yields a stronger temporal smoothing of the facial landmark points over frames.

Alpha Features
- Face tracking and landmark detection support for Universal Windows Platform for SR300.
- Face recognition

SR300 Known Issues and Limitations

Face Detection, Pose Detection and Landmark Tracking

Issue	Recovery/Workaround
The camera mirror mode is unsupported.	Mirror images in the application, if needed.
In some scenarios when using face recognition high CPU utilization may occur.	Disable face recognition when not required for your solution. Fix to be introduced in a future release.
Some expressions are still in the alpha quality (especially brows).	Use the landmarks directly.
In face_tracking sample, with RealSense camera connected, 2D mode cannot be used	This will be addressed in an upcoming update
When working with the camera and requesting face to work in 2D mode Face still works in the 3D mode only.	Support for Face in 2D mode will become available in a future update release.
In a scenario when one application is setting the camera profile (resolution, FPS etc.) to an unsupported configuration by Face, Face behavior is unexpected	Ensure camera profile is set to one of the supported Face configurations
Face UWP is limited to detection and landmarks, rest features are not supported	Use the landmarks directly.