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:
  o The Intel® RealSense™ Developer Kit Camera (F200)
  o 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.
  o SR300 Camera: DCM version 3.1.25.1077 or later
  o 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.
  o 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:
  o * Microsoft* Windows* 8.1 x64 August Update required
  o * Microsoft* Windows* 10

• SR300 Camera OS:
  o Microsoft* Windows* 10
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SDK Features

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

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<thead>
<tr>
<th>Maturity</th>
<th>F200 Feature</th>
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</thead>
<tbody>
<tr>
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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

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

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<td>In a scenario when one application is setting the camera profile (resolution, FPS etc.) to an unsupported configuration by Face, Face behavior is unexpected</td>
<td>Ensure camera profile is set to one of the supported Face configurations</td>
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<tr>
<td>Face UWP is limited to detection and landmarks, rest features are not supported</td>
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