



FaceSDK 1.12

Technical Specification

FaceSDK is a development kit that provides the face analysis engine to system integrators and other customers.

Features

- face detection
- face features detection
- face tracking
- gender classification
- age estimation
- face recognition

Minimal image requirements for facial recognition

- sharp image
- inter-pupil spacing larger than 32 pixels
- at least 64 grayscales within the face area

Target host computing performance

For Intel Core i7-2600 @ 3.4 GHz, single threaded:

- face detection – 50 ms (ALG1), 80 ms (ALG2) per 1280x720 image
- face features detection – 1.5 ms (ALG1), 5 ms (ALG2) per face
- gender classification – 45 ms (ALG1), 260 ms (ALG2) per face
- face template enrollment – 45 ms (ALG1), 260 ms (ALG2) per face
- template matching speed – 2 mln per sec

Target host minimum hardware requirements

Intel Core i5-2300 @ 2.8GHz, 4 GB RAM, 1,5 GB free disk space

Target host operating system

Windows 7, Windows 8, Linux; x64, x32

Biometric template

Enrollment template size – 1796 bytes (ALG1), 2052 bytes (ALG2)

Documentation

Detailed manual includes API reference, user guide and fully documented examples to illustrate the main use cases

Programming languages and APIs

C++, C and C# wrappers

Development host hardware requirements

Proposed hardware: Core 2 Duo CPU @ 2 GHz, 4 GB RAM, 4 GB free disk space

Development host operating system

Windows 7, Windows 8; 64 bit

Development tools

Visual Studio 2013, 2015

Licensing

Licenses can be granted for the following components, with any combination possible:

- face detection module
- face features detection module
- face tracking module
- face classification module
- face recognition module

Remote activation

via SafeNet HASP SL