



IriCoreLite

Superior Iris Identification

Iris Recognition SDK



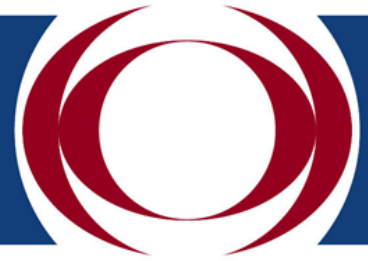
IriCoreLite is an iris recognition library that provides various application programming interfaces (APIs) and functions to be used for developers or integrators to develop iris recognition-based applications.

IriCoreLite is designed for large-scale iris identification applications on PC and enterprise applications using IriTech's iris scanners on Windows and Linux platforms.

IriCoreLite consists of various accurate iris segmentation and fast matching algorithms utilizing extensive image processing tasks. IriTech's highly-acclaimed iris recognition technology has been examined and proven in many systems and evaluated by prestigious organizations such as NIST (National Institute of Standards and Technology).



Features and Capabilities



IriCoreLite is an iris recognition SDK which has been developed by IriTech for many years. All of the iris recognition algorithms packaged in **IriCoreLite** have been tested and proven to be solid and well performance by the NIST's ICE & IREX.

Highly accurate iris segmentation for feature extraction based on variable multi-sector analysis and non-linear segmentation

Robust to various obstructions to the images due to different levels of illumination with strong image enhancer

Power occlusion detection algorithm to remove eyelids and eyelashes

Fast and accurate iris matching algorithm for large-scale applications

Strong image quality assessment algorithm

Reliable performance in NIST tests with existing public database

Thread-safe capability supports for multithread applications

Technical Specifications



Operating Systems

Windows OS

Windows XP, Windows 7,
Windows 8 (32-bit & 64-bit)

Compiler: Visual Studio 2005,
2008

Linux OS

Redhat Enterprise 5.6-6.x, 32-
bit & 64-bit

Compiler: GCC

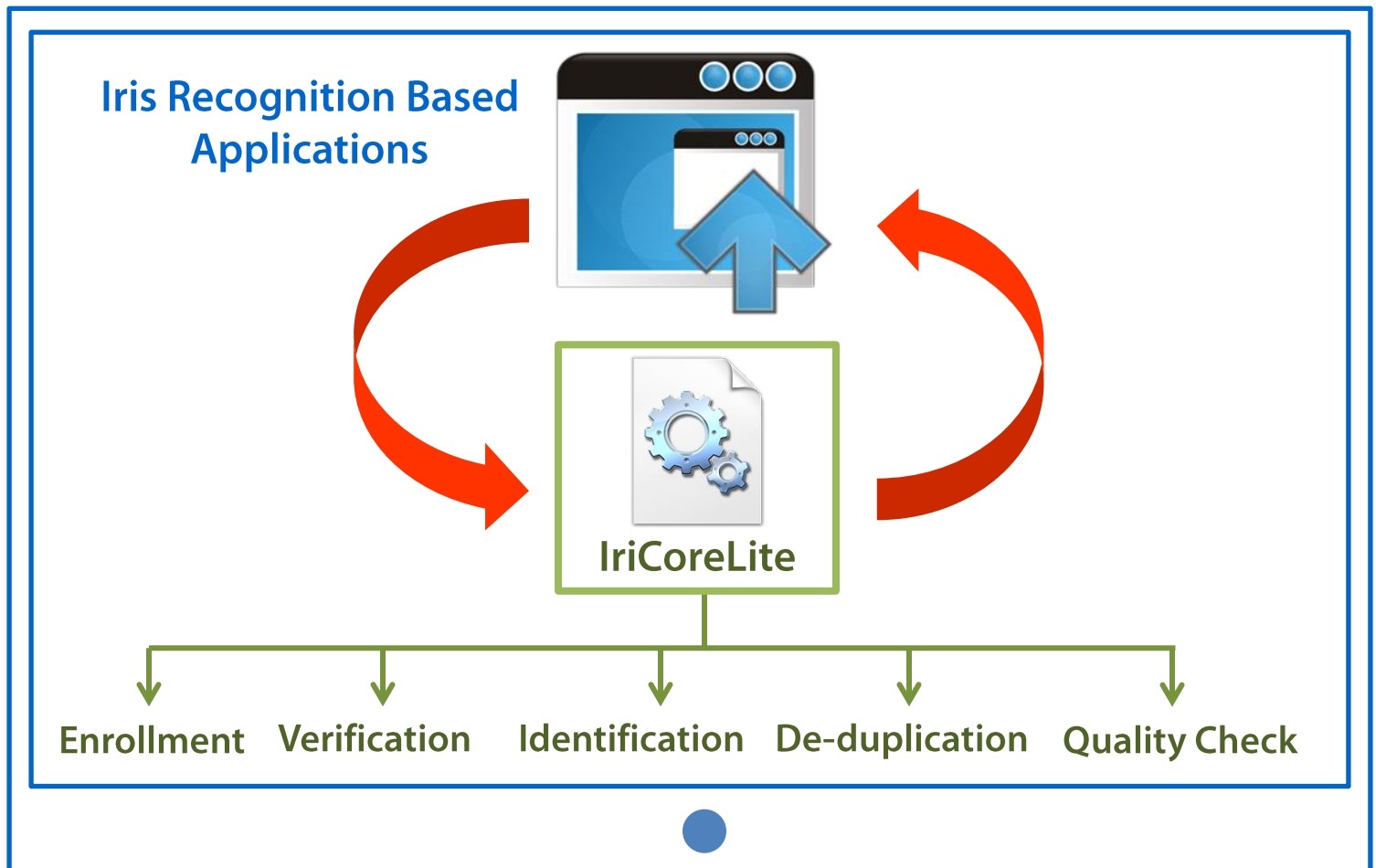
Supporting Iris Recognition Functions

- ⊙ **Enroll:** Performs enrollment of an iris image by extracting template from iris image and store it into the SDK gallery.
- ⊙ **Identify(1:N):** Performs a one-to-many comparison of the given template/image with the enrolled iris templates in the SDK gallery to identify the individuals that are most likely represented by the given template/image.
- ⊙ **Verification(1:1):** Performs a one-to-one comparison of the given template/image with the stored biometric templates in order to verify that the individual is the person he or she claims to be.
- ⊙ **De-duplication:** Similar to identification, but it determines the first one among the biometrics database matching with the captured iris image.
- ⊙ **Image quality assessment:** Performs a quality check for iris images which is important for enrollment, verification, identification or de-duplication.

Working Process



IriTech's
Iris Camera



Client Computer

IriTech, Inc.

IriTech is a global leader in Iris Biometric Technology. Our passionate team are diversified Iris Recognition researchers and engineers supporting different OEM partners in various industries such as Mobile, Banking, Health Care, Education, Military and Government. By focusing on quality and staying up-to-date, IriTech features a high level of data security and identity control with a multifunctional iris scanner and iris recognition software provided to end-users worldwide.

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