



IDKit SDK



Fast, accurate, and easy to use IDKit outperforms other fingerprint recognition software in every aspect.

1:N IDENTIFICATION



The IDKit SDK is a powerful and lightening-fast suite of code libraries designed to provide fingerprint recognition functionality in your software. The local SQLite3 database makes IDKit SDK for PC, Mobile, and Embedded systems, significantly easier to use than competing SDKs. Capable of interfacing with any USB-based fingerprint scanning hardware, and available on Windows and Linux, IDKit is the ideal solution for developers looking for an "out of the box" biometric solution.

FROST & SULLIVAN
Global Technology Innovation Award
Winner of the Year, January 2009

ERNST & YOUNG
Entrepreneur of the Year, February
2009

FVC 2004, FVC 2006

MINEX - NIST



LINUX compatible



Royalty-Free Option

JUST HOW EASY IS IT TO INTEGRATE IDKIT SDK?

As a self-contained suite of components (available in your coding environment at runtime), you can quickly and easily make calls to functions for capturing the image from the scanner, comparing it in the database, and returning a value to the user. By utilizing the IDKit SDK, developers can focus on their software, and leave the biometrics to the experts.

UNLEASH IDKIT'S SPEED AND ACCURACY

When you implement IDKit SDK into your software, you unleash its ultra-fast performance and it's award-winning accuracy in comparing fingerprint images.



IDKit PC SDK

200,000 fingerprints per second on standard x86 processor



IDKit Mobile SDK

40,000 fingerprints per second on WinCE handheld devices and smartphones



IDKit Embedded SDK

40,000 fingerprints per second on ARM, SH4 processors

ANSI&ISO add-on

1:1 VERIFICATION WITH ANSI/INCITS 378, ISO 19794-2 OR ILO SID FINGERPRINT TEMPLATES



The ANSI & ISO fingerprint recognition add-on is the ideal solution for developers that need a MINEX-compliant fingerprint component in their application. Utilizing an easy-to-implement, component-based approach (no USB dongles required) developers can quickly integrate a vendor-neutral fingerprint recognition that works with any fingerprint scanner hardware. Innovatrics ANSI & ISO add-on is an "out-of-the-box" solution with the proven performance of Innovatrics unique, high-performance extraction and matching IEngine™ algorithms.

ENSURING INTEROPERABILITY WITH ANSI&ISO ADD-ON

When developing solutions for governments or agencies, a fingerprint recognition solution that is interoperable with other systems is critical. Innovatrics ANSI & ISO add-on provides just that. Whether PC, mobile, or embedded, the ANSI & ISO add-on template-based system ensures that fingerprints captured from, or analyzed by, your software will utilize the NSI/INCITS 378, ISO 19794-2 or ILO SID standard fingerprint templates ensuring a seamless integration with other biometric security systems. ANSI & ISO add-on provides a number of powerful features including:

- ANSI/INCITS 378, ISO 19794-2 and ILO SID Template Extraction and Template Matching engine
- Measures Fingerprint Image Quality which means better recognition rates. Image quality is calculated according to guidelines contained in Section 2.1.42 of ANSI/INCITS 358
- Conversion from and to ISO Compact Card Template





IDKit SDK is designed for developers and integrators to implement biometric security measures (fingerprint identification) into software through a component-model available in the run-time environment.

IDKIT SDK FEATURES & BENEFITS

IDKit offers speedy implementation, nearly instant field deployment, easy end-client adoption with a low TCO and high ROI.

- **Blazing performance** — IDKit is the fastest fingerprint SDK on any platform
- **Stunning accuracy** — IDKit utilizes a combined minutiae + pattern matching technique to ensure the best accuracy
- **Ease of deployment** — IDKit is an entirely software solution. No USB dongles
- **Fingerprint quality** — IDKit calculates the quality of incoming fingerprint before accepting it, increasing software reliability
- **Sensor independence** — works with all fingerprint scanners that can provide a raw image

PC

IDKit PC is designed to run on any common laptop, desktop or tablet computer and employs a 1:1 and 1:N identification of up to 50,000 persons stored in a local database.

TECHNICAL SPECIFICATIONS

- OS — Windows (32-bit, 64-bit): XP, Vista, 7; Linux (32-bit, 64-bit): Red Hat, Debian; **other upon request*
- Coding environment — C, C++, VB, C#, Java
- Flat-file database (SQLite3)
- Template Size — 1kB
- Encryption — AES (256bit)
- Fingerprint input — BMP, RAW, JPEG, GIF, PNG images
- Image Compression — WSQ
- Sensors compatibility — any available sensor (RAW format)

SDK INCLUDES:

- Libraries for target OS (DLL, .so)
- .NET connector
- Java connector
- Documentation in PDF to enable printing and CHM for easy browsing
- 3 samples and 1 GUI sample with source code
- License for 1:50,000 user records
- Innovatrics License Manager

Mobile

IDKit Mobile is designed to run on Windows-based PDAs and phones and employs a 1:1 and 1:N identification of up to 300,000 persons stored in a local database.

TECHNICAL SPECIFICATIONS

- Processor — XScale, Samsung S3C2440, other ARM9 based processors
- OS — Windows Mobile 2003, Windows Mobile 5.0, 6.0
- Coding environment — C, C++, VB, C#
- Flat-file database (SQLite3)
- Template Size — 1kB
- Encryption — AES (256bit)
- Fingerprint input — BMP, RAW images
- Sensors compatibility — any available sensor (RAW format)

SDK INCLUDES:

- DLL libraries for target platform
- idkit.ARM.CAB installation for mobile device
- Documentation in PDF to enable printing and in CHM to enable browsing
- Samples: C++ (3x), .NET (1x C#, 1x C++.NET)
- License for 1:5,000 user records

Embedded

IDKit Embedded is designed to run on hardware terminals powered by ARM9 processors. It employs a 1:1 and 1:N identification of up to 100,000 persons stored in a local database.

TECHNICAL SPECIFICATIONS

- Processor — StrongARM, ARM architectures: ARMv3, ARMv4, ARMv4T, ARMv6, ARMv7 (ARM Family and Core); MIPS I, MIPS II; uCos
- OS — Embedded Linux
- Coding environment — C, C++
- Flat-file database (SQLite3)
- Template size — 1kB
- Encryption — AES (256bit)
- Fingerprint input — BMP, RAW images
- Sensors compatibility — any available sensor (RAW format)

SDK INCLUDES:

- Libraries for target platform
- Documentation in PDF to enable printing and CHM for easy browsing
- Samples: C++ (3x)
- License for 1:5,000 user records

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