



# 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 ID-Kit 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.

## Just How Fast is IDKit SDK?



#### 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

### 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

### HOW CAN YOU USE IDKIT SDK?

Identify users without expensive card/badge/token systems. Some common applications include:

- Retail, Point of sale
- Time & attendance in enterprises or schools, universities
- Visitor identification and management systems
- Access control
- Customer loyalty programs
- Password replacement and login
- Border control
- Watch-list identification





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.

**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—Win32, Win64, Linux
- 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, ARM9
- 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

IDKit is the most versatile fingerprint SDK on the market, which can work with any fingerprint scanner (through raw image interface) and supports best fingerprint readers out of the box.

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