

Fingerprint PC Security Solution



www.supremainc.com

16F Parkview Tower, Jeongja, Seongnam, Gyeonggi, 463-863, Korea
T +82 31 783 4502 F +82 31 783 4503 E sales@supremainc.com

©2011 Suprema, Inc. Suprema and identifying product names and numbers herein are registered trademarks of Suprema, Inc. All non-Suprema brands and product names are trademarks or registered trademarks of their respective companies. Product appearance, build status and/or specifications are subject to change without notice.

suprema
Biometrics & ID Solutions







PC Fingerprint Security Solutions

Faster, smarter & versatile PC Fingerprint Security Solutions

Suprema's fingerprint-based PC Fingerprint Security Solutions provide high level biometric security for desktops as well as complex network environments. Our latest range of high-performance fingerprint USB scanners are supported by powerful software development kit (SDK) which features the world's best Suprema fingerprint algorithm. Our PC security solution offers unrivalled versatile platform for development to leading security companies, system integrators and hardware manufacturers.

Features

- 
 - NIST certified interoperable template format standards (ANSI-378 / ISO19794-2)
 - FIPS 201 certified template extractor and matcher
 - Image Compression Standard (WSQ)
 - Fast matching speed: 1:100,000 match within a second (with Intel Core2Duo 2.13GHz)
 - Multi-threaded code design for multi-core CPU power
- 
 - Plug and play USB 2.0 high speed interface
 - Supports multiple devices handling
- 
 - 500 dpi optical fingerprint sensor
 - Scratch free sensor surface
- 
 - BioMini SDK for easy application software development
 - Supports multiple programming languages : Visual C++, Visual Basic, C#, VB.NET, Java
 - Linux support: Debian, Ubuntu and others, kernel 2.6.1 and later
 - Database support : Microsoft MS-access(MDB)

BioMini Plus

BioMini Plus - FBI PIV Approved USB Fingerprint Scanner

Suprema BioMini Plus PC security solution has been designed specially to provide high level security solution for desktop PC and complex network environments. With its proven reliability of FBI-PIV certification, BioMini Plus features advanced hybrid type live finger detection (LFD) technology and multi award-winning Suprema Algorithm. Packed in a sleek and ergonomic design, it features durable 500dpi optical sensor and high speed USB 2.0 interface. Combined with its comprehensive SDK solution, BioMini Plus offers superb hardware and software compatibility makes it an ideal platform for developers.

BioMini Plus Features

- 
 - FBI PIV/FIPS 201 certified
 - NIST certified interoperable template format standards (ANSI-378/ISO19794-2)
 - Image Compression Standard (WSQ)
 - 
 - Hybrid live finger detection (LFD)
 - 
 - World's best performing fingerprint algorithm : Top results in NIST MINEX tests and FVC
 - FIPS 201 certified template extractor and matcher
 - Fast matching speed : 100,000 match within a second*
 - Multi-threaded code design fully utilizing multi-core CPU power
 - 
 - Plug and play USB 2.0 high speed interface
 - Supports multiple device handling
 - 
 - 500 dpi optical fingerprint sensor
 - Scratch free sensor surface
 - 
 - BioMini SDK for easy application software development
 - Supports MS Windows and Linux
 - Supports multiple programming languages
- *with Intel Core2Duo 2.13GHz



FRONT VIEW



SIDE VIEW



TOP VIEW

BioMini Plus Specifications

- | | |
|------------------------------|--|
| Fingerprint Sensor | • Optical (Scratch free sensor surface) |
| Resolution | • 500 DPI / 256 gray |
| Sensing Area | • 15.5 x 18.8 mm |
| Image Size | • 260 x 340 pixels |
| Interface | • USB 2.0 High speed / Full speed, Plug & Play |
| O/S | • MS Windows and Linux |
| Operating Temperature | • -10 ~50°C |
| Certification | • CE, FCC, KCC, FBI PIV-IQS, FIPS 201, WHQL |
| Size | • 66 x 90 x 58 mm (W x L x H) |



SFU500(OEM version)

BioMini

BioMini - High Performance USB Fingerprint Scanner

Suprema's fingerprint-based PC solution has been designed specially to provide high level biometric security for desktops as well as complex network environments. Our latest range of high-performance fingerprint USB scanners are supported by powerful software development kit (SDK) which features Suprema's award-winning algorithm, ranked top in FVC and NIST MINEX tests. Suprema PC solution provides unrivalled versatile platform for development to leading security companies, system integrators and hardware manufacturers.

BioMini Features

- World's best performing fingerprint algorithm :
 - Top results in NIST MINEX tests and FVC
 - FIPS 201 certified template extractor and matcher
 - NIST certified interoperable template format standards (ANSI-378/ISO19794-2)
 - Image Compression Standard (WSQ)
 - Fast matching speed: 100,000 match within a second*
 - Multi-threaded code design to fully utilize multi-core CPU power
 - Plug and play USB2.0 high speed interface
 - Supports multiple device handling
 - 500dpi optical fingerprint sensor
 - Scratch free sensor surface
 - BioMini SDK for easy application software development
 - Supports MS Windows and Linux
 - Supports multiple programming languages
- *with Intel Core2Duo 2.13GHz

BioMini Specifications

Fingerprint Sensor	• Optical (Scratch free sensor surface)
Resolution	• 500 DPI / 256 gray
Sensing Area	• 16 x18 mm
Imaging Size	• 288 x 320 pixels
Interface	• USB 2.0 High speed / Full speed, Plug & Play
O/S	• MS Windows and Linux
Operating Temperature	• -10 ~ 50 °C
Certification	• CE, FCC, KCC, WHQL
Size	• 66 x 90 x 58 mm (W x L x H)



FRONT VIEW



SIDE VIEW



TOP VIEW



SFU300(OEM version)

BioMini SDK

BioMini SDK is suitable for applications where fingerprint enrollment and recognition can be done on PC or network based systems with Suprema USB fingerprint scanners (BioMiniPlus, BioMini, SFU500 and SFU300).

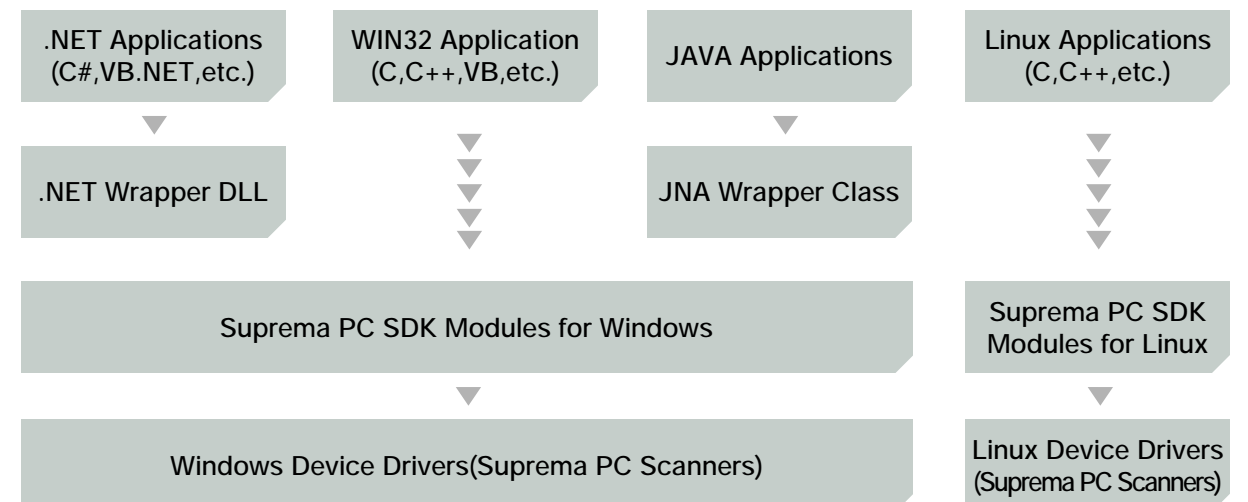
BioMiniSDK Features

- World's best performing fingerprint algorithm
 - Top results in NIST MINEX tests and FVC
 - FIPS 201 certified template extractor and matcher
 - Average matching speed (Genuine)
 - 100,000 match within a second (Intel Core2Duo 2.13GHz)
 - Multi-threaded algorithm utilizing Dual Core Processor
 - Multiple Devices handling support
 - Supported development tools and languages : Visual C++, Visual Basic, C#, VB.NET, Java
 - Supports MS Windows and Linux
 - Linux support: Debian, Ubuntu and others, kernel 2.6.1 and later
 - Fingerprint templates compatible with Suprema Products

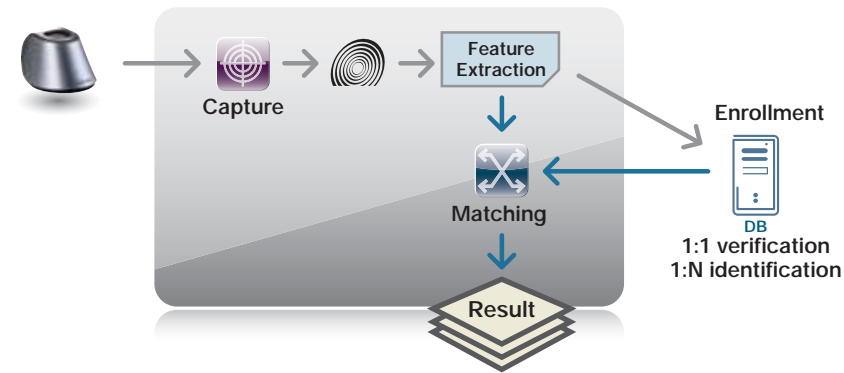
BioMiniSDK Specifications

Template size	• 384 Bytes (configurable)
Enrollment time	• < 0.1 sec
Verification time	• < 0.1 sec
Identification time	• 100,000 match per second
Database	• Microsoft Access
Encryption	• 256 bit AES
Supported platforms	• MS Windows and Linux

Structure



Operation Flow



Contents

- Fingerprint algorithm library for PC Windows or Linux
- Sample application program with source code (VC, VB, C#, VB.NET, Java)
- Technical documents
- Fingerprint scanner

Database(MDB) Demo



Enroll/ Verify/ Identity Demo



Multiple Scanner Demo

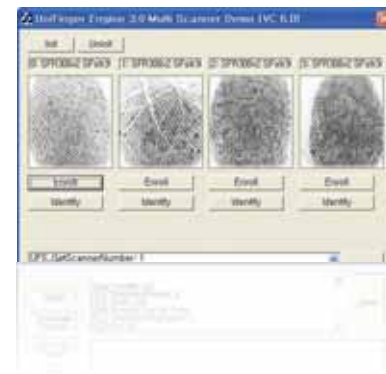


Image SDK

Image SDK is a software development kit for PC based fingerprint application development. Unlike BioMini SDK that works with Suprema scanners, Image SDK does not depend on a specific scanner hardware but works with general fingerprint images captured by different fingerprint sensor devices.

Features

- World's best performing fingerprint algorithm : Top results in NIST MINEX tests and FVC
- FIPS 201 certified template extractor and matcher
- NIST certified interoperable template format standards (ANSI-378 / ISO19794-2)
- Image Compression Standard (WSQ)
- Fast matching speed : 100,000 match within a second (Intel Core2Duo 2GHz)
- Multi-threaded code design fully utilizing multi-core CPU power
- Multiple Devices handling support
- Supports fingerprint images captured by 3rd party scanners
- Supports different image resolution and quality
- Supports multiple programming languages : Visual C++, Visual Basic, C#, VB.NET, Java

Functions

- Enroll (Image to Template)
- Verify (1:1)
- Identify (1:N)
- Get Enrollment Quality

Contents

- Fingerprint algorithm library for PC Windows
- Sample application program with source code in VC and VB
- Technical documents
- HSM(USB dongle) for license control

Operation Flow

