

Visualisierung kommerzieller Programme

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Gliederung

1. Darstellung durch die Hersteller
 - Cross Match Technologies
 - Flashscan 3D
 - L-1 Identity Solutions
 - AVI Infosys
 - Kaba
 - DigitalPersona
 - Neuro Technology
2. Diskussion
3. Quellen

Cross Match Technologies

Overview

Cross Match continues to set the global standard for civil and defense ten-print scanning applications with the next generation Guardian line. With a revolutionary new [user interface](#), enhanced optical design, and more flexible capture modes, the new Guardians provide a completely self-guided ten-print fingerprint capture process that represents a new level of adaptability to real world use.

The Guardian's new intelligent user interface and screen intuitively prompt a user through all necessary steps by indicating finger sequence, placement, and pressure; correcting typical mistakes and ensuring the rapid and accurate capture of high quality records every time. The scanner incorporates FlexFlat™ and FlexRoll™ capture modes, providing a more user-friendly way to capture both flat and rolled fingers anywhere on the platen. In addition, a new optical design allows for high quality image capture regardless of whether a subject's hands are wet or dry.



Guardian

Guardian IP

Guardian FW, USB

Guardian R

Guardian R2

Patrol ID / Patrol

L SCAN 1000T

Advantages

- Intuitive instructions via integrated, touch-screen display
- Superior wet and dry print capture
- Improved ergonomic design and capture flexibility

Learn more about Guardian



Guardian Brochure

English

Português



Guardian®/Guardian® IP - FAQs

Find out the Guardian line features, benefits and supported accessories!

Looking for more information on the Guardian line? You can find it all in our FAQs. We have included answers to the most common questions you may have about the Guardian line. We have also included information on the supported accessories for the Guardian line.

FAQs - What is a Guardian?

Guardian is a line of portable, ten-print fingerprint scanners. It is designed to be used in a variety of environments, including law enforcement, border control, and more. The Guardian line is designed to be used in a variety of environments, including law enforcement, border control, and more.

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Guardian FAQs

English

Português

Cross Match Technologies



Application Environments

- Law Enforcement
- Enrollment
(e-Passport, e-Visa)
- Biometric Login
- Biometric Access Control
- Border Control
- Civil ID
- Civil Background Check

Biometric screening and identity solutions are critical components of today's security installations.

L SCAN Master is the software middleware capture solution for Cross Match's award-winning fingerprint and palm print capture devices. The software allows integrators to add fingerprint and palm print capture technology to biometric software applications fast and easily.

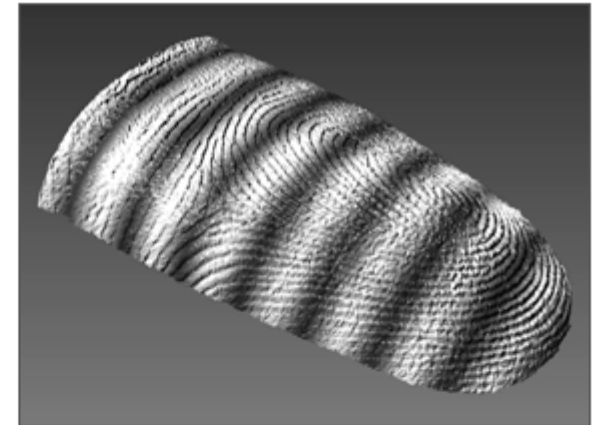
L SCAN Master's advanced functionality allows customers to focus on business processes and application development.

Cross Match's L SCAN Master software supports any biometric application scenario from enrollment through verification with its predefined capture workflows. Workflows can be modified within seconds without changing the application codes, saving customers valuable time.

Flashscan 3D

FINGERPRINTING

The unique attribute of our system is that the fingerprint ridge data is captured in 3D providing a true and accurate representation of the finger that far surpasses any other imaging technique. Unlike competing 2D systems that acquire an image of what a fingerprint looks like, our system makes quantitative 3D surface measurements that reveal actual ridge shape and depth. It is precisely this 3D structure that gives a fingerprint its unique latent print characteristics and allows for the formation of minutiae. Capturing this data in 3D ultimately yields better image quality, minutiae detection and matching rates.



FEATURES AND BENEFITS

Feature	Benefit
3-D data	More accurate data and better image quality result in better matching rates. The potential exists to identify new matching features based on the 3D data.
Non-contact	Better image quality is achieved because there is no contact of the print with the scanner to distort the image. Extremely consistent prints. More hygienic. No cleaning between uses.
Speed of capture	Better throughput. Allows for use in high volume environments.
Lower failure to acquire rates	SLI imaging technique is not affected by dry skin , sweat, oil or skin color.
Better treatment of damaged or worn prints	SLI techniques have the advantage of capturing the surface independent of how smooth it is leading to better image quality for fine or worn prints.
Anti-spoofing	System is harder to fool by common deceptive means including latex overlays.
Automated	The device can function independently of an operator. Quality of the print no longer tied to the skill of operator manipulating the subject's hand.
Backwards compatible	3D prints are flattened to produce 2D fingerprints consistent and compatible with existing databases and matching programs.
Segmentation	Enhanced segmentation for multi-finger capture.

L-1 Identity Solutions

BIOMETRICS

- Introduction
 - Biometric Types
 - Associations
 - Standards
 - Partnering With Biometrics
 - Face
 - BioEngine® SDK
 - Facelt® SDK
 - Facelt® Quality Assessment SDK
 - Fingerprint/Palm
 - Iris
 - Multi-Biometric
- Civilian Identification Management
- Criminal Identification Management
- Mobile ID For Military
- Mobile ID For Law Enforcement

SECURE CREDENTIALING
ENTERPRISE ACCESS

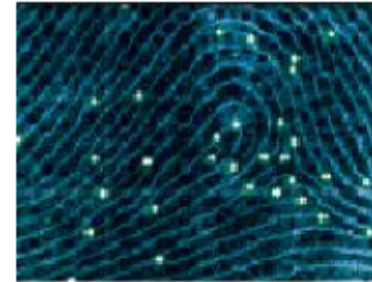
BioEngine® Fingerprint SDK

The BioEngine Fingerprint SDK contains fingerprint matching and recognition capabilities that allow developers to create custom one-to-one verification applications such as time and attendance, transaction verification, physical access, information security and ID programs. The product incorporates our fingerprint recognition technology and supports the full suite of DFR and BioTouch fingerprint readers.

BioEngine SDK is composed of four dynamic link libraries (DLLs) that contain C-language functions and has a programming interface that can be used easily in most modern programming languages.

The libraries are as follows:

- BioEngine Library: the central functional library of functions composed of four modules
 - Licensing Module
 - Quality Check Module
 - Template Creation Module
 - Verification Module
- Media Processing Library: common functions for processing images throughout the SDK product line including
 - Image and video capture functions
 - Image compression functions
 - Image display functions
- Common Library: common buffer management functions used throughout the fingerprint SDK product line
- Standards Formatting Library: common functions for formatting biometric data to ANSI and ISO standards formats and including:
 - CBEFF header blocks for Patron formats A, C, ICAO and PIV
 - Multi-part face, fingerprint and iris binary data blocks (BDBs) and compliant BDB content for the following ANSI and ISO standards:
 - ANSI 378-2004 and ISO 19794-2-2005 fingerprint minutiae
 - ANSI 379-2004, iris polar and rectilinear images



- Powered by top-ranked BioEngine® Fingerprint SDK algorithms
- Over 100 million BioEngine-based templates being used worldwide
- Used by organizations in wide-ranging markets including healthcare, financial and telecommunication as well as by state, local and federal governments to protect against authorized access to computer networks

Related Products

- Multi-Biometric Capture Station
- BioTouch® 500
- DFR® 2080
- DFR® 2100/2130
- DFR® 2300

Related Experience

- Albert Einstein Hospital, BrazilArrocha Drugstore, Panama
- Bancafe Colombia
- Bank Convani, Colombia
- Banco Falabella, Colombia
- Banco Produbanco, Ecuador
- Banco Reformador, Guatemala
- Bank of Cairo
- Bank of Central Asia
- Brazil Congress
- Brazil Mercantile Exchange
- Brazil Supreme Court
- Capitec Bank, South Africa
- Central Bank of Costa Rica
- Citigroup Banamex, Mexico

Kaba

- Option Biometrics
- Range of products
- Informations and Kiosk Solution
- ERP-Solutions
- Communication
- Budget-Line

and if it tallies with this, authorization is given. With this so-called matching procedure, the comparison is done on the basis of digital values as a visual image of the fingerprint is not stored for data protection reasons. This proven and recognized biometric procedure ensures that a person is identified clearly and in a legally binding manner.



Digital image of a fingerprint by means of detection and use of minutia.



The minutia are converted via an algorithm and saved as reference template.



Careful recording of the reference fingerprint secures a faultless and quick function.

[More contact information >](#)



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Connect and Share

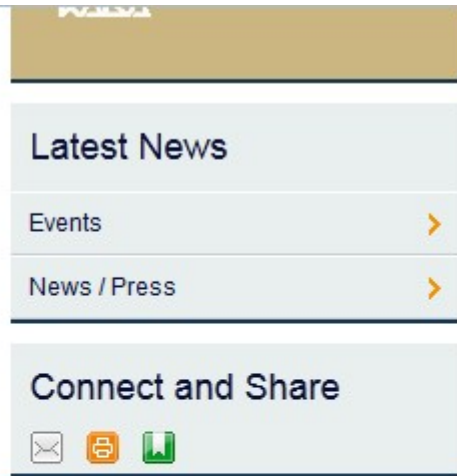


Kaba

communication structure for the intelligent distribution and verification of all fingerprint data to the terminals connected, irrespective of whether they are at one or several sites. As an alternative to **identification**, the finger template is stored on a personal RFID badge during **verification**.

Your benefits at a glance:

- Use in any data collection application
- Biometric traits cannot be forgotten, lost, passed on to third parties, spied upon or stolen
- Simple handling with high acceptance
- Legal certainty - who was identified when
- Option to select between identification and verification solution
- Data protection through non-reconstructable fingerprints
- No buddy punching possible
- Cost savings
 - No badges
 - Fewer erroneous bookings
 - Fewer booking corrections
 - No loss of media



DigitalPersona

Getting Started Bundle

The new "Getting Started" bundle contains everything a developer needs to start using DigitalPersona fingerprint biometrics, including a U.are.U 4500 reader, all the U.are.U SDKs, a Best Practices Guide, documentation, and free membership to the DigitalPersona Developer WebPortal. The new U.are.U SDKs will only be available to customers through this bundle offer. To access this new SDK bundle, [Click Here](#) or click on the "Getting Started Bundle" tile found in the right column of this and other SDK web pages.

U.are.U SDK for Windows v2.1.1 Feature Overview:

Standards support – In addition to legacy DigitalPersona image and minutiae formats, the U.are.U SDK for Windows offers support for the following standards:

- **ISO 19794-4:2005**, Fingerprint Image standard.
- **ANSI/INCITS 381-2004**, Finger Image Based Data Interchange Format.
- **ISO/IEC 19794-2:2005**, Biometric data interchange format.
- **ANSI INCITS 378-2004** Finger minutiae data format.
- **WSQ** – includes support for Aware WSQ1000 SDK and NIST WSQ algorithm.
- **MINEX** (Minutiae Exchange) Certification - DigitalPersona submitted its FingerJet minutiae extraction SDK to the ongoing MINEX program. The FingerJet extractor was certified to create MINEX compliant templates.
- **NIST FINGERPRINT IMAGE QUALITY (NFIQ)** – Includes built-in support for the Aware NFIQ algorithm as well.

Integrated 1:n identification – The U.are.U Windows SDK offers support for 1:n identification integrated into the FingerJet engine. No helper SDKs are needed.

Platforms - XP/Vista/Win 7 (32/64), XP Embedded (32-bit), [Windows Server](#) 2003/2008 (32/64-bit), Citrix/Terminal Services (local driver).

Interfaces - .NET, Java, C#, ActiveX/COM, C/C++, JPOS/OPOS

Support - Programmer support can be purchased to speed the development of the end solution or application.



started!

[Learn More »](#)

DigitalPersona
U.are.U SDK for
Windows Datasheet
[Download »](#)



One Touch SDK
Product Status Update

[Read Update »](#)

NeuroTechnology

Download

ORDERING

Licensing model ▶
Prices ▶
Pricing Calculator
Order Online ▶

SERVICES

Support
Software activation
Duplicates search
Custom projects

BUY SCANNERS

at Biometric Supply website

- Available as multiplatform SDK that supports multiple scanners and multiple programming languages.
- Reasonable prices, flexible licensing and free [customer support](#).

Technology and SDK

- **VeriFinger algorithm features and capabilities.** VeriFinger is a NIST MINEX compliant algorithm that is capable of performing rolled and flat fingerprint matching. The algorithm is tolerant to fingerprint translation, rotation and deformation, and includes image quality determination. [Read more](#)
- **VeriFinger Standard and Extended SDK.** The Standard SDK is intended for PC-based biometric application development and the Extended SDK is suitable for developing Web-based biometric systems. [Read more](#)
- **Supported fingerprint scanners.** More than **90 scanner models** are supported by VeriFinger SDK under Microsoft Windows, Linux and **Mac OS X** platforms. [Read more](#)
- **System requirements.** Components of VeriFinger SDK can be run on computers with x86 compatible processors (at least **2 GHz** processor recommended). **Windows, Linux and Mac OS X** platforms are supported. [Read more](#)
- **Technical Specifications.** VeriFinger matches **20,000 - 60,000 fingerprints per second** (using database pre-sorting), requires from **250 to 6,000 bytes** for a fingerprint template in a database. [Read more](#).
- **Reliability and Performance Test Results.** VeriFinger has been tested with fingerprints taken from different scanners and showed high matching reliability (see **ROC charts**). [Read more](#).
- **Download.** VeriFinger [brochure](#), [algorithm demo](#) application and VeriFinger [30-day SDK Trial](#) are available for downloading.
- **Awards.** VeriFinger has been awarded for its reliability and performance at **FVC2006** and **FpVTE 2003** biometric algorithm competitions. Also VeriFinger was recognized by NIST as **MINEX** compliant, and has consistently shown one of the best results at **FVC2004**, **FVC2002** and **FVC2000**. [Read more](#)
- **References.** VeriFinger is used in more than 1500 end-user product brands. The **case studies** and Solution Partner products as well as **scientific papers** based on VeriFinger technology are available. [Read more](#)



Licensing, prices and ordering

- **Licensing VeriFinger.** To develop a VeriFinger-based product, an integrator should obtain VeriFinger 6.5 Standard SDK or Extended SDK. A license for a VeriFinger component is required for **each PC or each server CPU** that runs this component. Single computer licenses, concurrent network licenses and enterprise licenses are available. [Read more](#)
- **Pricing.** VeriFinger Standard SDK costs € **339**, the Extended SDK is € **859**. Prices for additional component installation licenses depend on type and quantity. [Read more](#)
- **Pricing calculator** – allows to determine the cost of ordered products and their shipping charges. [Open pricing calculator](#)



VeriSpeak SDK
Speaker recognition for PC or Web applications. [Read more](#)



SentiSight SDK
Object recognition for robotics and computer vision. [Read more](#)

SDKs for mobile devices:

- **MegaMatcher Embedded SDK** – multi-biometric SDK for fingerprint and face matching on Android smartphones and other devices.
- **VeriLook Embedded SDK** – face recognition for Android smartphones and other devices.
- **VeriFinger Embedded SDK** – fingerprint recognition for Android smartphones and other devices.
- **VeriSpeak Embedded SDK** – voiceprint recognition for Android smartphones and other devices.
- **VeriEye Embedded SDK** – iris recognition for Android smartphones and other devices.
- **SentiSight Embedded SDK** – object recognition for Android smartphones and other devices.

More products for developers:

- **MegaMatcher Accelerator** – biometric solution for fast fingerprint and/or iris matching on the server-side of a large-scale multi-biometric system.
- **MegaMatcher On Card SDK** – a product for fingerprint, iris and face matching on smart cards.
- **Free Fingerprint Verification SDK**
- **VeriLook Surveillance SDK** – face recognition for video surveillance systems

End-user products:

- **NCheck Finger Attendance** – an

2. Diskussion

Was sollte der Benutzer eines fingerabdruckverarbeitenden Programms zu sehen bekommen? Was sollte besser nicht dargestellt werden?

3. Quellen

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