



The ABIS® 7 System for Law Enforcement Identity Solutions

AFIS Redefined.

AFIS Redefined.

From the biometric industry leaders comes a new paradigm in AFIS. Now you can increase identifications through by deploying multiple biometrics – including two- and four-fingerflats, tenprints, palm, face and iris biometrics – all in a single platform.

The Automated Biometric Identification System or ABIS® 7 System offers top-tier multi-biometric algorithms, flexible and easily modifiable workflows and unencumbered upgrades in a single platform - all the elements you would expect from a modern system architecture that puts you in control. Unlike older, more rigid and costly AFIS systems, you decide when and how workflow changes are made; you decide when and how you want to handle throughput upgrades; and you can choose your own hardware.

TOP-RATED MULTI-BIOMETRIC ALGORITHMS

With a portfolio of multi-modal biometric data capture products and solutions, the ABIS® 7 System lets you choose the functionality that best meets your needs. Now, law enforcement agencies are not limited to fingerprint-only searches. Select from any of our leading algorithms including BioEngine® version 7 fingerprint matching, Facelt® Generation 9 face recognition and Daugman 2010 iris recognition, or combine them for resounding results.

EASILY MODIFIABLE WORKFLOWS

You can perform dramatically easier workflow changes and adaptations because of our open standards approach. For example, by simply changing XML file codes, you control routing transactions with an AFIS at another agency. Vendor involvement is not required

for these types of adjustments, saving you both time and money. Our standards-based philosophy means lower risk and easier implementation, allowing your IT staff to customize the capture, examination, search and verification processes to fit the needs of your agency.

UNENCUMBERED UPGRADES

Cost-effective implementations allow you to add COTS hardware yourself – as your business needs change you can flexibly add hardware and adapt your workflow to expand system throughput and transaction types. You no longer need to wait and rely on a vendor for hardware installations – simply add matchers when you want, with no need to wait for a support call.

Proven Biometric Performance

According to the test results reported in the most important industry tests, L-1 Identity solutions repeatedly was among the top performer. The 2006 Face Recognition Vendor Test (FRVT), Iris Challenge Evaluation (ICE) as well as NIST tests on fingerprint performance, L-1 Identity Solutions was the best all-around performer. L-1's face recognition algorithms performed best in most of the tests, the iris algorithm submissions were two of the top three performers, the fingerprint technology is placed among the top tier of competing algorithms. Top tier performance was also achieved in the latest 2010 NIST Multiple-Biometric Evaluation (MBE). The MBE tests were performed on databases with a size larger than a million images and L-1's algorithms ranked under the top three.

Sources:

Phillips, P. Jonathon; Scruggs, W. Todd; O'Toole, Alice J.; Flynn, Kevin W.J.; Flynn, Patrick J.; Bowyer, Kevin W.; Schott, Cathy L.; Sharpe, Matthew: FRVT 2006 and ICE 2006 Large-Scale Results, NISTIR 7408, March 2007
Grother, Patrick J.; Quinn, George W./Phillips, P. Jonathon: Report on the Evaluation of 2D Still-Image Face Recognition Algorithms; Multiple-Biometric Evaluation (MBE) 2010; NIST Interagency Report 7790, June 2010
Grother, Patrick J.: Limits of Face Recognition for Law Enforcement, Information Technology Laboratory, National Institute of Standards and Technology, October 2010
http://biometrics.nist.gov/cs_links/PFT/tables2f_040510.pdf

High Quality Biometric Data Capture Devices

We offer a full range of multi-biometric capture devices. Choose from:

- A complete line of TouchPrint™ live scan devices and multi-biometric capture stations for capturing slap and roll fingerprints, full hand, palm, face and iris biometric data
- Mobile terminals that interface with the ABIS® 7 System for on-the-spot identification in the field

Examination and Verification Tools to Solve More Crimes

Revolutionary tools that extend beyond the traditional AFIS capability:

- The FaceExaminer addresses the challenges of uncontrolled face capture by providing candidate review for uncontrolled low quality images and video, while providing image processing capabilities for improved face recognition
- The LatentExaminer provides advanced processing capabilities including automatic minutiae extraction and image filtering with tools such as histogram adjustment, sobel edge detection, emboss, color channel adjustment and despeckle. In addition, it includes intuitive time saving markup user interfaces, standards based latent search capabilities and customizable court exhibit charting
- The TenprintExaminer provides functions for both the automatic and manual segmentation review of slap images, quality, search and substitution review of fingerprints

and palm prints candidate lists as well as side-by-side verifications

Scalable Search Engine Platform

Multi-biometric search engine that provides exceptional accuracy, more robust performance, and lower development costs:

- Scalable architecture built to handle multiple biometrics and very demanding throughputs with built-in fault-tolerance
- Open, standards-based architecture relies on COTS hardware and databases, and has built-in applications for easy integration

Further biometric data (e.g. demographics, images) can be managed by a separate component, the ABIS® 7 Identity Manager. The ABIS® 7 Identity Manager provides identity record-keeping services. All known individuals and their history of identity applications are recorded in this registry. Each such "encounter" record contains the permanent record of that application, including the biometric samples taken at that time, demographic data, and images of any identity documents submitted with the application as proof of identity. The ABIS® 7 Identity Manager leverages the industry leading L-1 Identity Solutions's quality algorithms to select a composite best set of biometrics created from multiple encounters that enriches the data to be searched. Services include adding new persons, adding new encounters to existing persons, archiving older encounter records and supplying records selected by policy for inclusion in the ABIS® 7 Search Engine's biometric galleries.



Support Options

- 24/7 Help Desk
- 24/7 and 9/5 Field Service Schedules
- On-site Support Staff

Professional Services

We offer competitive professional services that include:

- Application design, integration and customizations
- Installation and system commissioning
- Training of IT and end-user staff
- Electronic and tenprint card conversion

5705 W. Old Shakopee Rd.
Suite 100
Bloomington, MN 55437
USA
Telephone +1-952-932-0888
Facsimile +1-952-932-7181

www.L1id.com