

Case AFIS

Solving complex latent fingerprint cases faster. Improves efficiency, especially on large cases with multiple comparison subjects and helps minimize erroneous exclusions and missed identifications.

Examiners can search latent prints collected from a crime scene against a set of known prints that belong to first responders, victims, or suspects. Relevant prints from existing databases—including prints from law enforcement and first responder personnel likely to work crime scenes—can easily be imported. There is no need to re-enroll individuals for each new case.

Case AFIS can enroll and search non-standard format exemplars such as elimination prints from the field, morgue prints, major case prints with tips, sides, and joints, and even sole and toe prints. Case AFIS has been built to accommodate poor quality prints, uncontrolled capture area and ad hoc ink cards.

IDEMIA also ranked first in accuracy for all NIST Evaluation of Latent Fingerprint Technologies (ELFT) tests. IDEMIA achieved the most accurate matching results for both fingerprint and palm datasets and with both image-only and manually encoded searches. IDEMIA accuracy was between 8 and 26 percentage points higher than the next best algorithm.

MATCHING

Search latent prints collected at a crime scene against sets of known prints.

VERIFICATION

Review search results to quickly identify latent prints with their source.

SUMMARY REPORTING AND RECORD CONTROL

See an overview of all latent and known prints associated with a case, and control import, export, and deletion of case records according to your agency's policies.

TOP-RANKING ALGORITHM

Ranked #1 NIST ELFT All Latent Print Searches

Key Benefits

ACCURATE

Case AFIS offers superior latent search algorithms for fingers, palms, joints, and tips.

TIME-SAVING

Comparing complex latent prints can be tedious and time-consuming, especially with multiple comparison subjects. The auto-encoding and mated minutiae features of Case AFIS improve productivity and reduce backlogs.

REDUCES ERRORS

Case AFIS improves an examiner's ability to catch erroneous exclusions and missed identifications during comparison or verification phases of examination.



CASE AFIS LATENT EXPERT

Case AFIS offers superior matching algorithms that increase examiner accuracy and highly-accurate automatic encoding algorithms that increase examiner efficiency.

It also includes a wide range of image enhancement tools that can improve contrast, clarify images, and reduce noise for both analysis and comparison tasks.



WHY IDEMIA?

Our Case AFIS platform saves you time by finding the right matches to solve crimes faster and make communities safer. IDEMIA's long-term commitment to advanced biometrics has earned the trust of law enforcement around the world.

With over 60 years of experience in serving the justice and public safety community, IDEMIA demonstrates undisputed innovation and technology leadership. This is highlighted in multiple third-party tests, where our algorithms consistently feature among the top performers in accuracy, and far outperform other test participants in terms of fairness.

IDEMIA ranked first on most data sets in the latest U.S. National Institute of Standards and Technology (NIST) Proprietary Fingerprint Template (PFT) III benchmark in Automated Fingerprint Identification Section (AFIS) class algorithms (Aug. 2022), which measured performance in one-to-one fingerprint matching. IDEMIA achieved superior performance ratings, ranking first in 17 of the 22 scenarios.

IDEMIA also ranked first in the NIST Evaluation of Latent Fingerprint Technologies (ELFT). IDEMIA achieved the most accurate matching results for both fingerprint and palm datasets, outperforming other algorithms by 7% to 60% in accuracy.