

CAPFIS™ Prime

Standalone Automated Palm Print and Fingerprint Identification System

For local agencies, 3M Cogent provides CAPFIS Prime, an affordable and fully NIST-compliant standalone AFIS solution that incorporates the functionality of a large-scale AFIS system. It is designed to run on a standalone workstation but is scalable to support system growth. CAPFIS Prime comes equipped with the ability to capture, search, and store fingerprints, palm prints and latent palm prints at 500 ppi, using 3M Cogent's FBI-certified WSQ compression software and printing module for "one-to-one" printing of fingerprint images. The system includes an FBI-certified flatbed scanner and an FBI-certified black and white laser printer. CAPFIS Prime can store up to 50,000 records and optionally, is scalable to store up to 100,000 records. Local agencies can easily build up their AFIS database as CAPFIS Prime enables users to both export and import rolled finger, palm, and latent images to and from outside sources.

The functional capabilities include:

- Full database search, with no database binning or filtering
- Searching of both rolled and flat records for finger latent search
- Support of multiple card formats for scanning operations
- Automatic image replacement on Tenprint/Palm records during scanning
- Automatic minutiae extraction, quality check, and sequence check
- Tenprint vs. Tenprint search with auto-confirm (lights out) function
- Tenprint vs. Unsolved Latent search
- Finger Latent vs. Tenprint search
- Finger Latent vs. Unsolved Finger Latent search
- Palm Latent vs. Palm Print search
- NIST interface for LiveScan workstations
- Auto composite record construction
- Demographic history



High Performance Solution

CAPFIS Prime

Image Editing Module

CAPFIS Prime provides the industry's widest selection of image editing tools, including:

- Brightness, contrast, and image grayscale level controls
- Three-dimensional imaging that simulates a light shadowing effect, thereby enhancing minutiae detection
- Automated latent image processing of Core, Delta, Minutiae, and Ridge Counts
- Background color control, including reverse color
- Minutiae "carving," which allows fingerprint experts to designate those areas of latent prints that are void of true minutiae, thereby enhancing the matching process

Latents Capture Module

When equipped with the Digital Camera and Light Stand, the CAPFIS Prime ID Workstation provides for the capture and processing of finger latent and palm latent evidence from a wide variety of media, including:

- Latent print cards and photos with automatic image scaling
- Three-dimensional physical evidence (using the optional fiber optic light kit)
- Latents developed using an alternate light source and chemical treatments

Verification Module

CAPFIS Prime verification functions include the following features:

- Overview "window-in-window" depicting the entire palm
- Side-by-side viewing (and rotation) of search vs. candidate images
- Minutiae on/off capability for clearly viewing ridge detail
- Automated tracking of corresponding minutiae
- Automated minutiae numbering and charting of search vs. candidate images
- Printing of "charted" images (court exhibits)
- Bordered and numbered minutiae with lines drawn to the corresponding minutiae for easier verification

Options

- Upgrade to store records at 1000 ppi
- Latent third level detail matching capability
- Interface to other AFIS and external RMS
- ULW interface to IAFIS
- Additional CAPFIS Workstations and NIST compliant LiveScan systems
- Upgrade to support MobileID searches and LiveID for two-finger identification searches
- Electronic or hard copy NIST conversion

Beyond Comparison™