

DBI
Digital Biometrics, Inc.

DBI FINGERPRINTER CMS™



Live-Scan Fingerprinting
at an Affordable Price

Advantages of Live-Scan Fingerprinting

Traditional ink fingerprinting methods are subject to smudging, smearing and over- and under-inking during the rolling process. As pioneers in digital fingerprinting technology, DBI understands the importance of capturing clear, classifiable, forensic quality fingerprints to maximize positive identifications. DBI's live-scan technology provides an automated method to capture a person's fingerprints without the use of ink. Because DBI's live-scan system uses state-of-the-art communication technologies, individuals can be identified more quickly and accurately than through the use of ink prints on hard cards.

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Instant Preview Capabilities

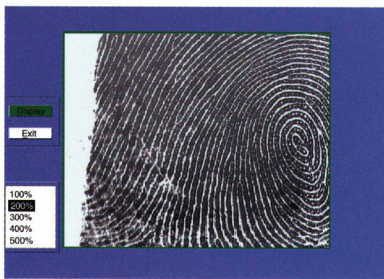
The FingerPrinter features a continuous real-time image preview. This allows operators to preview each print while pre-positioning the finger for pressure, moisture and quality review, and to monitor image quality as the print is being rolled. Provided with an immediate feedback image, the operator can reject and re-roll any unacceptable prints before they are printed. With ink, it is not possible to determine if a good, classifiable fingerprint has been captured until the subject's finger is removed from the card.

Reduced Processing Times

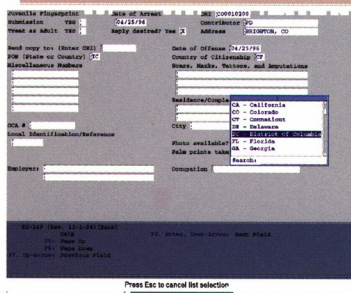
The FingerPrinter significantly reduces overall processing times, especially when multiple fingerprint cards are needed. The FingerPrinter enables operators to fingerprint a subject once, retaking individual prints as necessary, and then print cards in as many formats, quantities and locations as required.

Easy Demographics Entry

The data entry feature enables operators to quickly and accurately enter demographic data using customer defined, pop-up menus. Built-in menus and field validation checks aid the operator in entering information correctly.

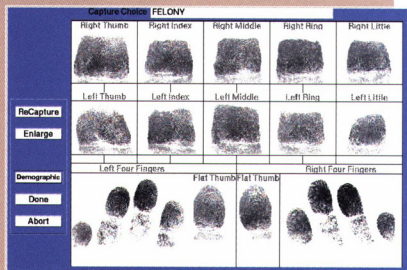


The FingerPrinter's Zoom feature enlarges the fingerprint image for close range viewing.



Demographic information is validated during data entry according to specified requirements. Customer defined, pop-up menus enable operators to quickly enter demographic information.

The mini-card preview screen allows the operator to view all captured fingerprint images and demographic data. Changes can then be made to the file as necessary.



DBI FINGERPRINTER CMS™

System Features

"Plug and Play" Installation and Easy Operation

The FingerPrinter can be installed in any office and is designed for use on standard tabletops or desktops. The system arrives configured to your requirements and can be set up and operational within two hours.

Its easy-to-follow menus and on-screen prompts help operators quickly become proficient with the system. All FingerPrinter functions may be selected by pressing on one of six lighted buttons: UP, DOWN, YES, NO, CAPTURE and SPECIAL. To capture a print, the operator simply depresses the foot pedal while rolling the person's finger over the glass platen. The FingerPrinter indicates which finger to roll and also recommends the direction of the roll. After previewing the image and receiving image quality feedback, the operator presses the YES button to accept the print, or the NO button to recapture the print. Finally, the FingerPrinter prompts the operator to enter required demographic data using pop-up menus from selected pre-defined fields.

FBI IQS Compliant High Quality Fingerprints

The FingerPrinter system's images are fully approved for submission and retention by the Federal Bureau of Investigation. To meet the FBI's IQS (Image Quality Standards) requirements, the FingerPrinter passed a comprehensive series of tests covering such categories as image quality and fidelity, print contrast and area of coverage.

The FingerPrinter captures and prints images at 500 dots-per-inch (dpi) resolution for true 1:1 images. These images meet federal standards for transmission and WSQ compression in compliance with Electronic Fingerprinting Transmission Specifications (EFTS). An on-screen display of male and female finger-width lines provides guidance during scanning and helps to ensure full side-to-side fingerprint capture.

Networking Capabilities

The FingerPrinter permits operators to fingerprint a person at one location and transmit original fingerprint cards to remote locations.

Local area networking utilizes standard Ethernet technology. Remote area networking is provided over voice-grade telephone lines, switched or dedicated digital and full or quarter T1 communications.

The FingerPrinter can be integrated into an existing network. Fingerprints and other booking information captured on a FingerPrinter system at one site may be automatically transmitted to one or more sites within minutes. Once the booking is received, fingerprint cards may be printed at the remote site, transmitted electronically to an AFIS, or held temporarily while other functions are performed.

Proven AFIS Interfaces

The FingerPrinter provides a direct digital input of live-scan data to all major AFIS systems and has a proven track record of stable performance and quality AFIS-based identifications.



Password Security

The FingerPrinter provides three levels of password security: operator, system manager and authorized maintenance.

Remote Diagnostics

The FingerPrinter is capable of downloading software via disk, modem or LAN communications to aid in trouble shooting, service and upgrades.

Complete Customer Support

DBI provides full customer training, 24-hour telephone support and a variety of maintenance plans designed to meet customer requirements.



The DBI FingerPrinter CMS™

from Digital Biometrics is an integrated live-scan fingerprinting system that captures, prints and transmits fingerprints without the use of ink.

The FingerPrinter makes live-scan technology available to a wide range of applications and customers and is ideal for applicant processing, enrollment processing and law enforcement booking applications where space and price are prime considerations.

Options

WSQ Data Compression

The FingerPrinter offers a FBI-approved WSQ algorithm for compression of fingerprint data during transmission. At a compression ratio average of 15:1, the FingerPrinter can help businesses and agencies save time and money through reduced communication usage.

Slap-to-Roll Matching Software

The FingerPrinter is capable of automatically matching rolled fingerprint images to slap images for verification of correct fingerprint capture order.

Multiple Card Formats

Each FingerPrinter comes with three customer chosen card formats. Additional card formats can be added as required for a given application.

Image Printer Stations

Features include:
High quality printed fingerprint cards
Minimum of 128 shades of gray
Single or double sided models
Optional multiple paper trays

Physical and Technical Specifications

Power Requirements

120 volts, 60Hz. Requires 15 amp service.

Size

H: 14 3/4" (36.5cm); W: 28" (71.1cm); D: 24" (61cm)

Weight

Approximately 80 lbs.

Environment

Temperature: 60° - 80° F

Humidity: 20% to 80% non-condensing

Hard Disk Storage

Greater than 5 gigabytes.

Operating System

Multi-tasking UNIX, 32-bit processing;
SVR4.2 implementation.

Fingerprint Image

FBI approved: capture and print resolution of 500 dpi at 250 lppi. Individual fingerprint capture and print size: 1.6" x 1.6" (4.06cm x 4.06cm)
Slap and capture and print size: 1.6" x 3" (4.06cm x 7.62cm)

Image Transmission

Meets the FBI requirements for adherence to ANSI/NIST-CSL 1-1993

Communications

Ethernet with TCP/IP standard. Optional remote transmission: High speed analog in excess of 14Kbps over voice grade telephone lines, dedicated or switched 56Kbps digital, full quarter TI communications



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