

Bioidentidad® Bio442

Tenprint system for civilian and criminalistic applications

Bioidentidad® Bio442 is a fingerprint system designed specifically for capturing fingerprints from all fingers, for use with automated AFIS/ABIS identification systems and by fingerprint experts.

Its biometric accuracy is certified by the FBI, exceeding the legendary FBI IQS Appendix F - Live Scan (Tenprint) Systems & Identification Flats Systems and FBI Mobile ID FAP 60 standards, approved by INTERPOL, making it ideal for civil and criminal applications in both fixed and mobile environments.

It accurately captures fingerprint details from simultaneous fingers ("4-4-2") and rolled fingers, with excellent performance across various skin types and environmental conditions. Its capture window is made of glass resistant to scratches and mechanical stress, ensuring reliable use in demanding and rugged environments. Its ergonomic design, color LCD screen, and high-fidelity sound optimize the user experience.

High-precision multi-finger fingerprinting for law enforcement and civilian AFIS/ABIS systems

GENERAL FEATURES

Bioidentidad® Bio442 is a high-quality, modern, compact, and rugged ten-finger capture device, ideal for applications in law enforcement, the armed forces, ID cards, citizenship documentation, passports, immigration control, and any biometric application requiring rapid, forensic-grade fingerprint capture in police, military, and civilian organizations—whether national or international, governmental or private.

It features a sophisticated, high-precision optoelectronic system that exceeds the rigorous fingerprint image quality requirements set by the FBI and INTERPOL. The fingerprint images obtained constitute an ideal dactylogram, as the papillary ridges and characteristic points of the dermatoglyph are captured with precision. This allows it to be used as a dactyloscopic identification tool in AFIS (Automated Fingerprint Identification System), ABIS (Automated Biometric Identification System), expert analyses, and investigations in civil, judicial, forensic, and criminal proceedings, facilitating expert opinions and reports.

Furthermore, it connects via USB without requiring an additional power source, which simplifies transportation, installation, and use.

BIOMETRIC SOFTWARE AND DEVELOPMENT KITS

It includes drivers, libraries, application programming interfaces (APIs), and software development kits (SDKs), including:

- Automatic fingerprint capture.
- Live finger detection.
- Automatic segmentation of simultaneous fingerprints into individual fingerprints.
- Fingerprint quality control in accordance with the NFIQ / NFIQ2 standards.
- Verification of the order in the fingerprint capture sequence.
- Compression of fingerprint images into WSQ / JPG200 format.
- Creation of ANSI/NIST-ITL, INTERPOL INT-I, ISO 19794-4, and ANSI 381 exchange files.
- Generation and comparison of ISO 19794-2 and ANSI 378 biometric templates.
- LCD screen and audio management.

Additionally, other features may be included, such as biometric enrollment in a database, ultra-high-speed 1:N biometric identification, and compliance with any national or international biometric standard.



Bioidentidad® Bio442 fingerprint scanner is internationally recognized for its high quality and ergonomic design, and is certified by the FBI in accordance with INTERPOL guidelines. It allows for the capture of simultaneous fingerprints (442) and rolled fingerprints.



PROVEN QUALITY

Its high quality has been verified by prestigious national and international law enforcement and security agencies.



HIGH PERFORMANCE

Bioidentidad® Bio442 will exceed your expectations. Fingerprint capture is instantaneous, with real-time display.



MAINTENANCE-FREE

Featuring state-of-the-art electronic technology and no moving parts, it is designed to operate continuously for more than 36 months.

Ideal for civil and law enforcement applications in any country

Bioidentidad® Bio442 captures fingerprints quickly and with optimal accuracy, even under varying skin and environmental conditions. It also allows the type of fingerprint capture to be configured according to the project's needs.

- The desired capture types are configurable (for example: simultaneous only, simultaneous with rolled prints, a specific finger only, etc.).
- The order of simultaneous fingerprint capture is configurable (for example: 4-4-2, 4-2-4, 4-4-1-1, 4-1-1-4, right hand first, left hand first, etc.).
- The order in which rolled fingerprints are captured is configurable.
- Handles exceptions for missing fingers that can be configured (amputated, unavailable, etc.).



Simultaneous fingerprint (slap) of the four fingers of the left hand (little, ring, middle, and index finger).



Simultaneous fingerprint (slap) of the four fingers of the right hand (index, middle, ring, and little finger).



Simultaneous fingerprint of both thumbs.



Rolled fingerprint: Allows for the capture of rolled fingerprints from all 10 fingers. It also automatically verifies the correct capture sequence by comparing each rolled fingerprint with the position of that finger in the simultaneous fingerprints.

Bioidentidad® provides high-performance solutions for the control and identification of individuals. With more than two decades of experience in research, development, manufacturing, consulting, implementation, distribution, and support, it is the experts' choice.



- Uncompromising quality • No subscriptions
- Fast return on investment
- Ready for current and future needs

Bioidentidad® is the choice when identity matters.

CAPTURE TYPES

Bioidentidad® Bio442 allows all types of fingerprint captures, including:

- Simultaneous four-finger captures – “slaps” (index, middle, ring, and little fingers).
- Simultaneous two-finger captures – “slaps” (left thumb and right thumb).
- Single-finger rolled print.
- Single-finger flat print.

The capture types, as well as the order and sequence of capture, are configurable. It also allows for handling exceptions such as amputated or bandaged fingers, etc.

WORKING WITH AFIS AND ABIS

Its optimal capture quality, security, speed, durability, compliance with technical standards, and ease of integration allow it to work with any civilian or criminal AFIS or ABIS system in any country.

ELECTRONIC FINGERPRINT RECORD

It effectively replaces ink-and-paper fingerprint records, as well as the associated fingerprint scanning procedures. In fact, with Bioidentidad® Bio442, the fingerprint capture is live, with real-time visualization and quality control, directly in digital format as required by law.

COMPATIBLE PLATFORMS

- Windows 11, 10, 8, 7, or later (32-bit and 64-bit)
- Android 3.1 or later (with OTG or Host port).
- Linux kernel 2.4 (x86) or later.

TECHNICAL SPECIFICATIONS

- Sensor type: Optical with high-durability prism.
- Image resolution: 500 dpi, 256 levels of gray.
- Image size: 1600 x 1500 pixels.
- Active scan area: 81.28 x 76.20 mm; 3.2 x 3.0 inches (FBI FAP 60).
- Scan area: 88.00 x 86.00 mm.
- Image quality: Certified by the FBI according to the Image Quality Specifications (IQS) FBI Appendix F and FBI Mobile ID FAP 60, in the Mobile ID, Live Scan Systems (Tenprint), and Identification Flats Systems categories.
- Visual indicator: Color LCD screen.
- Audible indicator: Speaker and buzzer.
- Communication interface: USB 2.0 or higher, plug-and-play.
- Power supply: via USB port.
- Power consumption: Under 700 mA.
- Liquid and dust ingress protection: IP65.
- Operating temperature range: -10° to +55°C
- Relative humidity: Less than 90%, non-condensing.
- Dimensions: 17.2 x 13.5 x 10.5 cm.
- Weight: 1.3 kilograms.
- Technical standards:
 - FBI CJIS Division's Next Generation Identification System Image Quality Specifications (IQS):
 - Appendix F Specifications
 - EBTS Appendix F Mobile ID FAP 60
 - NFIQ
 - BMP
 - WSQ (IAFIS-IC-0110)
 - JPG2000
 - ISO/IEC 19794
 - ANSI/INCITS 378
 - ANSI/INCITS 381
 - Electronic Biometric Transmission Specification – EBTS
 - ANSI/NIST-ITL
 - INTERPOL INT-I
 - FCC, CE, RoHS



INTEROPERABLE TECHNOLOGY

Because Bioidentidad® Bio442 complies with international biometric standards, captured fingerprints can be used in a variety of systems, platforms, AFIS, and ABIS, regardless of the country or manufacturer.



EASY INTEGRATION

The drivers, libraries, APIs, and SDKs are user-friendly and available for a wide variety of platforms.



PERMANENT TECHNICAL SUPPORT

Bioidentidad provides specialized technical support, backed by a warranty and expert guidance.



Bioidentidad® Bio442 automatically detects each finger during simultaneous captures.



The fingerprint image obtained with the Bioidentidad® Bio442 is of such high quality that even the pores on the ridges, and other details relevant to forensic analysis, are clearly visible.



Certification issued by the FBI for Bioidentidad® Bio442



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