

Bioidentidad® BioDactyCyber

Biometrics and cybersecurity at the highest level

Bioidentidad® BioDactyCyber is an identity system that combines the best features of biometrics and cybersecurity.

Its accuracy is certified by the FBI, exceeding the FBI Mobile ID FAP 30 and FBI PIV (Personal Identity Verification) fingerprint standards for both fixed and mobile environments. Its very wide capture window captures detailed fingerprint images measuring 25.40 mm (height) x 20.32 mm (width). It features a special scratch-resistant glass panel, protected against the ingress of liquids and particles (IP65), ensuring its use in harsh environments. It performs exceptionally well with various skin types and under a wide range of environmental conditions.

It also offers robust cybersecurity features, such as encryption and digital signatures, and is protected against physical attacks aimed at manipulating or tampering with its hardware.

High-performance identity validation

ACCURACY IN CAPTURING BIOMETRIC DETAILS

Enhanced security, speed, and user experience thanks to high-fidelity biometric capture, accurately preserving the fine details of fingerprints without distortion or cropping—even on large, dry, wet, or worn fingers—and under varying ambient light, temperature, and weather conditions, maximizing the capture of fingerprint minutiae for automated processes and forensic analysis.

PROTECTED AGAINST FAKE FINGERPRINTS

Exclusive Presentation Attack Detection (PAD) and Live Finger Detection (LFD) based on artificial intelligence, rejecting imitation fingerprints (silicone, gelatin, modeling clay, gel, etc.).

ADVANCED ENCRYPTION AND DIGITAL SIGNATURE

Protection of information and communications against cyberattacks, such as man-in-the-middle attacks, deepfake, etc., while also enabling the validation of the authenticity and integrity of the device.

DEFENSE AGAINST PHYSICAL ATTACKS

Active protection against intrusion attempts and physical tampering (tamper-proof), with a security mechanism that, in the event of an attack, self-destructs the confidential information stored in its memory (cryptographic keys, etc.).

HIGH DURABILITY AND RESISTANCE

Fingerprint sensor made of high-strength glass, protected against scratches, liquid ingress, and particles. It can also be cleaned and disinfected with alcohol and is resistant to hand disinfectants.

UNIVERSAL AND INTEROPERABLE BIOMETRIC FORMATS

Processing of fingerprint images and biometric templates in standard formats, in accordance with international standards (FBI, ISO, IEC, ANSI, INCITS, NIST, MINEX, ICAO, MOSIP, etc.).

TECHNOLOGICAL UP-TO-DATE CAPABILITY

Updatable firmware, drivers, and libraries, ensuring that the technology remains current with the latest technological advancements.

SAFE FOR HEALTH

No electric shocks or electromagnetic emissions that pose a health risk to users.

POWERFUL SOFTWARE AND DEVELOPMENT KITS

Bioidentidad can provide the application or software development kit (SDK) according to your project's requirements, such as NFIQ and NFIQ2 quality control, WSQ and JPG2000 image formats, generation and matching of ISO 19794-2 and ANSI 378 biometric templates, etc.



The BioDactyCyber system stands out for its high quality, accuracy, security, and durability, and is backed by the most robust international standards in biometrics, identity, security, and cybersecurity.



PROVEN QUALITY

The high precision of biometric scanning translates into greater security, faster processing, a better user experience, and an optimal return on investment.



HIGH PERFORMANCE

BioDactyCyber will amaze you. It is the result of decades of science, engineering, research, and development.



MAINTENANCE-FREE

Featuring advanced optoelectronic technology, updatable microcode, and no moving parts, it can operate in high-productivity environments with state-of-the-art technology.



EASY CLEANING AND DISINFECTION

The capture window is made of specialized glass that ensures hygiene and durability.

"The security and reliability of our systems are driven by the world's most demanding real-world needs, and our goal is to exceed our customers' expectations."



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

Bioidentidad® is the choice when identity matters.

EXTRA SECURITY

In a world where threats are becoming increasingly sophisticated, it provides the extra security you need.

COMPATIBLE PLATFORMS

We offer compatibility with the widest variety of platforms on the market, including:

- Windows 11, 10, 8, 7, Vista, XP, 2025, 2022, 2019, 2012, 2008, 2003, or later (32-bit and 64-bit).
- Linux with kernel 2.4 or higher (x86 and ARM9 architectures).
- Android 3.1 or higher (with OTG or Host port).

POWERFUL INTEGRATION

Thanks to its high-quality fingerprint capture, superior security, exceptional durability, and excellent compatibility, BioDactyCyber is recommended by numerous software companies.

Depending on your project's needs, Bioidentidad® can provide libraries, application programming interfaces (APIs), software development kits (SDKs), sample programs with source code, or turnkey systems for Windows, Android, or Linux, in a variety of programming languages (Java, .Net, C#, C++, VB.Net, Visual Basic, HTML - Web, etc.).

Contact us for personalized advice.

TECHNICAL SPECIFICATIONS

- Sensor type: Optical CMOS with a highly durable glass prism.
- Live finger detection: Advanced Live Finger Detection (LFD), Presentation Attack Detection (PAD).
- Image resolution: 500 dpi, 256 levels of gray.
- Image size: 400 x 500 pixels (FAP 30).
- Active scanning area: 20.32 x 25.40 mm; 0.8" x 1.0" (FBI FAP 30).
- Image quality: Certified by the FBI in accordance with the FBI CJIS Division's Next Generation Identification System Image Quality Specifications (IQS):
 - EBTS Appendix F Mobile ID FAP 30
 - Personal Identity Verification (PIV) Single Finger Capture Device Specifications
- Cryptography, encryption, and digital signatures: AES 128/192/256, RSA 1024/2048/4096, TDES 2/3, SHA-1/256/384/512, HMAC, ANSI X9.24, DUKPT, RNG, etc.
- Protection against tampering and physical intrusion: Tamper-proof with automatic memory erasure in the event of attempted tampering, intrusion, or sabotage.
- Protection against liquid and dust ingress: IP65.
- Visual indicators: Red/green LED.
- Communication interface: USB 2.0 or higher, plug-and-play. Available in USB-A or USB-C versions.
- Power supply: Via USB port.
- Power consumption: Under 200 mA.
- Electrostatic discharge resistance: 8 kV contact, 15 kV air.
- Operating range: -10° to 50°C.
- Dimensions: 82 x 48 x 31 mm.
- Technical standards:
 - FBI PIV, FBI FAP 30
 - PAD ISO/IEC 30107
 - NFIQ
 - RAW, BMP, WSQ (IAFIS-IC-0110), JPEG2000
 - ISO/IEC 19794-2, ANSI/INCITS 378
 - NIST MINEX III
 - ISO/IEC 19794-4, ANSI/INCITS 381
 - IP65, FCC, CE, RoHS

INTEROPERABLE TECHNOLOGY

Because BioDactyCyber complies with international biometric standards, fingerprints captured using this system can be used in a variety of computer systems, including AFIS and ABIS, regardless of the vendor.



EASY INSTALLATION

The drivers and components are user-friendly and are available for a wide variety of operating systems.



PERMANENT TECHNICAL SUPPORT

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



The fingerprint image captured by BioDactyCyber is of such high quality that even the pores on the ridges are visible. Its high fidelity maximizes the performance of all related systems and processes.



Certification issued by the FBI for Bioidentidad® BioDactyCyber



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