

# Bioidentidad® BioDacty

## Optimized, compact, and durable fingerprint system

Bioidentidad® BioDacty is a fingerprint system with a large capture window that is accurate, compact, and durable—ideal for demanding identity projects.

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 reliable operation in harsh environments. It performs exceptionally well with various skin types and under a wide range of environmental conditions.

Reliable identity. Robust and compact technology.

### GENERAL FEATURES

BioDacty is a high-quality single-finger fingerprint scanner with a large capture area; it is compact and rugged, making it ideal for applications that require outstanding technical performance, such as identity documents, ID cards, banking, credit, pensions, notary services, insurance, healthcare, driver's licenses, elections, and any biometric application where a powerful and reliable fingerprint scan is required.

It employs an advanced precision optoelectronic system that exceeds the rigorous fingerprint image quality requirements set by the FBI, featuring a generous active capture area and high durability.

It is compatible with the most popular software platforms on the market, including Windows, Android, and Linux. It also connects via USB to computers, PCs, laptops, notebooks, netbooks, PDAs, tablets, or smartphones, simplifying the deployment and usage process.

### ADVANCED LIVE FINGER DETECTION AND ENCRYPTION

It features exclusive advanced live finger detection technology powered by artificial intelligence, rejecting fake fingerprints made of silicone, gelatin, and other materials. It is safe for everyone, including those with pacemakers, as it emits no electrical shocks or electromagnetic interference to the body. It also protects the integrity and security of processes thanks to advanced cryptographic mechanisms.

### BIOMETRIC SOFTWARE AND DEVELOPMENT KITS

Bioidentidad® BioDacty provides the drivers, libraries, application programming interface (API), and software development kit (SDK) for the management, capture, processing, and matching of fingerprints, including:

- Fingerprint capture with FBI PIV and FBI FAP30 certified image quality.
- Advanced live finger detection and rejection of fake fingerprints (PAD and LFD).
- NFIQ and NFIQ2 quality control.
- Fingerprint images in optimized WSQ and JPG2000 formats.
- Generation of ISO 19794-2 and ANSI 378 biometric templates.
- Comparison of ISO 19794-2 and ANSI 378 biometric templates.

Furthermore, depending on requirements, additional features can be included, such as biometric enrollment, database interaction, ultra-high-speed 1:N identification, specialized encryption, and compliance with any international biometric standard, including: ANSI/INCITS 381 (Finger Image Based Data Interchange Format), ISO/IEC 19794-4 (Biometric Data Interchange Formats), ISO/IEC 19785 (Common Biometric Exchange Formats Framework), NIST MINEX III (Minutiae Interoperability Exchange), etc.



The BioDacty fingerprint scanner is recognized worldwide for its high quality and large capture area—which is certified by the FBI under FAP30—in a compact and robust design. It also features powerful identity validation capabilities.



With an IP65 rating for protection against liquid and dust ingress, it is shielded from adverse environmental conditions and is even easy to clean and disinfect.



### PROVEN QUALITY

The high quality of the BioDacty fingerprint scanner is driven by prestigious, internationally recognized organizations in the fields of technical standards and safety, such as the FBI, NIST, ANSI, and ISO, among others.



### HIGH PERFORMANCE

BioDacty will amaze you. Fingerprint capture is very fast, and the fingerprint can be viewed in real time—all with exceptional accuracy.



### MAINTENANCE-FREE

Featuring state-of-the-art electronic technology and no moving parts, it is designed to operate continuously for many years without the need for intervention or maintenance.

**Bioidentidad® provides high-performance solutions for person control and identification. 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.**

#### COMPATIBLE PLATFORMS

We offer compatibility with the widest range 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

Due to its high-quality fingerprint capture, superior security, great durability, and excellent compatibility, BioDacty 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 consultation.

#### 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 (FBI 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
- 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: Less than 200 mA.
- Electrostatic discharge resistance: 8 kV contact, 15 kV air.
- Operating range: -10° to 50°C.
- Dimensions: 82 x 48 x 24 mm.
- Cable length: Standard 1.5-meter USB-A or 1.5-meter USB-C. The cable can be customized.
- Technical standards:
  - FBI PIV, FBI FAP 30
  - PAD
  - 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 BioDacty complies with international biometric standards, fingerprints captured using this device can be used in a variety of systems, platforms, and AFIS, regardless of the 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 advice in biometrics.



*The fingerprint image captured with BioDacty is of such high quality that even the pores on the ridges are visible. In addition, its wide capture window ensures that the fingerprint is captured without any cropping, maximizing the amount of information.*



**Certification issued by the FBI for Bioidentidad® BioDacty**



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