

# Futronic FS52

## High-performance usb fingerprint reader for one/two fingers and rolled prints

Bioidentidad Futronic FS52 is a fingerprint scanner whose capture quality is certified by the FBI and complies with the IAFIS Appendix F Mobile ID FAP 45 forensic fingerprint scanning standard. It has a large capture area that allows scanning one finger or two flat fingers simultaneously, as well as rolled prints, in both fixed and mobile environments.

Its large capture window generates fingerprint images of 800 x 750 biometric pixels and is made of a special glass that is 33mm thick, resistant to scratches and other stresses, ensuring its use in harsh environments. It has excellent performance for use with various skin types and environmental conditions.

### Biometric fingerprinting and identification with maximum forensic security and wide capture window

#### GENERAL FEATURES

Bioidentidad FS52 employs an advanced optical precision system in conjunction with a CMOS technology sensor, which meet the stringent requirements for fingerprint image quality required by the IAFIS IQS Appendix F standard and certified by the FBI.

The FS52 allows the following types of capture, as required by the project:

- Individual flat finger - "single finger".
- Two (2) flat fingers simultaneously - "slap"
- Rolled finger - "rolled"

It is compatible with the most popular software platforms on the market. Also, its connection with the PC / laptop / netbook / PDA / tablet / smartphone is USB, which simplifies the installation and use process.

The FS52 is a high quality, compact and robust cost effective fingerprint capture device, ideal for law enforcement, military and government applications, both domestic and international, where fast and accurate forensic fingerprinting is required for use in AFIS (Automated Fingerprint Identification System) o ABIS.

#### ADVANCED LIVE FINGER DETECTION

The FS52 features unique "live finger" detection technology, rejecting imitation fingerprints on silicone, gelatin and other materials.

#### BIOMETRIC SOFTWARE AND DEVELOPMENT KITS

Bioidentidad FS52 has the drivers, libraries and application programming interface (API) for the management and capture of fingerprint images, including:

- Automatic fingerprint capture
- Automatic segmentation of the slaps (images of two simultaneous fingers) into individual prints.
- Fingerprint quality control according to NFIQ standard
- Fingerprint image compression in FBI certified WSQ format
- Advanced Live Finger Detection (ALFD)
- Red/Green LED indicator control

Bioidentidad can provide the application or software development kit (SDK) according to your project requirements, which may also include functions for biometric verification (1:1), biometric identification (1:N) and database integration, as well as compliance with the required international biometric standards (ANSI/INCITS 378, NIST MINEX, ISO/IEC 19794, ANSI/NIST-ITL 1-2011, among others).



The FS52 fingerprint scanner is internationally recognized for its high quality, which has been certified by the FBI in accordance with INTERPOL guidelines. It has a large capture area allowing up to two fingers simultaneously and rolled fingerprints to be captured.



#### PROVEN QUALITY

The high quality of the FS52 is endorsed by internationally recognized security organizations such as the FBI, NIST, GSA, among others.



#### HIGH PERFORMANCE

The FS52 will surprise you. The fingerprint capture is very fast and the fingerprint can be displayed in real time, everything with ideal quality.



#### MAINTENANCE FREE

Made with state-of-the-art electronic technology and no moving parts, it is designed to have an MTBF\* of more than 50,000 hours.  
(\*MTBF: Mean Time Between Failures)

*"The safety and reliability of our systems is driven by the most demanding needs of our customers, and our goal is to exceed their expectations."*



#### INTEROPERABLE TECHNOLOGY

Because the Bioidentidad FS52 complies with international biometric standards, fingerprints captured with it can be used in a variety of systems, platforms and AFIS, regardless of the vendor.



#### EASY INSTALLATION

The drivers are user-friendly and are available for the widest variety of operating systems.



#### PERMANENT TECHNICAL ASSISTANCE

Bioidentidad provides specialized technical assistance, accompanied by warranty and experienced biometric consulting.

Bioidentidad® provides high performance solutions for people identification and control.

With more than two decades of experience in research, development, manufacturing, consulting, project implementation, distribution and support, it is the preferred choice of biometrics experts.

#### 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 higher, 32bit y 64bit
- Linux con kernel 2.4 or higher (x86 and ARM9 architecture)
- Android 3.1 or higher (with OTG or Host port)
- MacOS (10.5 or higher)
- Windows CE 5.0 or higher (x86 and ARM9 architecture)
- Java



#### TRACEABLE

A unique serial number is factory programmed into each FS52, making each device traceable; which is extremely important for large-scale project management.

#### COMPATIBLE SOFTWARE

Due to the high quality of fingerprint capture, superior security, great durability and excellent level of compatibility, the FS52 is the recommended fingerprint capturer by a wide variety of biometric software brands, including Bioidentidad (BioCaptura, BioVerifica, etc.), Griaule (Fingerprint SDK, Biometric Suite), Id3, Innovatrics, NEC (AFIS, ABIS, etc.), Neurotechnology (Verifinger, Megamatcher) and more.

#### WARRANTY

The high quality of Bioidentidad products allows us to grant up to five (5) years of warranty.

#### TECHNICAL SPECIFICATIONS

- Sensor type: Optical CMOS with 33mm thick high durability glass prism.
- Live finger detection: Advanced Live Finger Detection (ALFD).
- Image resolution: 500 dpi, 256 gray levels
- Image size: 800 x 750 pixel
- Scanner area: 40.64 x 38.10 mm
- Capture types:
  - Two simultaneous flat fingers
  - Single flat finger
  - Rolled finger
- Scanner illumination: infrared LEDs
- Image quality: FBI certified according to IQS Appendix F and FAP 45 standards
- Visual indicators: red/green LED
- Communication interface: USB 2.0 (in USB-A and USB-C versions)
- Power supply: via USB port
- Electrostatic resistance: contact 8KV, air 16kV
- Operating range: -10° to 55°C
- Liquid and dust ingress protection on scanner window.
- Dimensions: 110 x 110 x 45 mm
- Weight: 460 grams
- Cable length: USB-A 2 meters, USB-C 30 centimeters
- Technical standards:
  - FBI IAFIS Image Quality Specifications (IQS) Appendix F
  - Mobile ID FAP 45
  - Microsoft WHQL
  - FCC, CE, RoHS
  - INTERPOL INT-1
  - ANSI/NIST-ITL 1-2011
  - ANSI INCITS 381
  - NFIQ
  - BMP, WSQ (IAFIS-IC-0110)
  - NIST MINEX, ANSI INCITS 378
  - ISO IEC 19794
  - Electronic Biometric Transmission Specification (EBTS) Appendix F
  - ANSI INCITS 381
  - RENIEC



*The FS52 can acquire flat and rolled fingerprints. The fingerprint obtained is of such high quality that even the pores located on the finger ridges can be seen.*



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