

Futronic FS26EU Fingerprint and contact / contactless smartcard reader

Bioidentidad Futronic FS26EU is a specialized biometric device that combines an FBI certified optical fingerprint capturer (FS88H), together with two types of smart card reader/writers.

The capture quality is certified by the FBI according to FBI Mobile ID FAP 20 and FIPS 201 Personal Identity Verification (PIV) information processing standards for both stationary and mobile environments. Its large fingerprint capture window generates fingerprints of 480 x 320 biometric pixels, made of a special 14mm thick glass, resistant to scratches and other types of stress, ensuring its use in harsh environments. It has excellent performance for use with various skin types and environmental conditions, in addition to having reliable "live finger" detection.

It has two smart card reader/writers for both contact (ISO 7816) and contactless (ISO 14443 A/B) cards. It can be used as a standard, interoperable smart card reader/writer under various platforms, as it complies with the international PC/SC standard for USB readers. It is ideal for MoC (match on card) and MoD (match on device) biometric projects.

Biometric fingerprinting and biometric identification for maximum security combined with the use of contact and contactless cards

GENERAL FEATURES

Bioidentidad FS26EU uses an advanced optical precision system with CMOS technology sensor, which meets the rigorous requirements for fingerprint image quality required by the PIV-071006 standard and certified by the FBI.

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 FS26EU is a high quality, compact and robust, cost efficient, single fingerprint capture device with smart card reader/writer, ideal for applications in banking, notary, migration, ID cards, driver's license, elections, police, digital signature, PKI, network security, time and attendance and any biometric or AFIS application where a reliable fingerprint combined with the use of chip cards is required.

ADVANCED LIVE FINGER DETECTION

The FS26EU features unique advanced infrared "live finger" detection technology, rejecting fingerprint imitations in silicone, gelatin and other materials. It is safe for everyone, including those with pacemakers, as it does not emit any electric shock or interference to the body.

BIOMETRIC SOFTWARE AND DEVELOPMENT KITS

The FS26EU has the drivers, libraries and application programming interface (API) for the management and capture of fingerprint images, including:

- Automatic fingerprint capture
- 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).



EASY
CLEANING &
DESINFECTION



The FS26EU fingerprint scanner is internationally recognized for its high quality, which has been certified by the FBI. It also features patented live finger technology and integrates two types of card reader/writer.



PROVEN QUALITY

The high quality of the FS26EU is endorsed by internationally recognized security organizations such as the FBI, NIST, GSA, among others.



HIGH PERFORMANCE

The FS26EU 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."



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)

TRACEABLE AND HIGHLY SECURE

A unique serial number is factory programmed into each FS26EU, making each device traceable. It also has a SAM (Secure Access Module) for optimal cryptographic security.

COMPATIBLE SOFTWARE

Due to the high quality of fingerprint capture, superior security, great durability and excellent level of compatibility, the FS26EU 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.

TECHNICAL SPECIFICATIONS

- Sensor type: Optical CMOS with 14mm thick high durability glass prism.
- Live finger detection: Advanced Live Finger Detection (ALFD).
- Image resolution: 500 dpi, 256 gray levels. 480 x 320 pixels
- Scanner area: 24.38 x 16.26mm
- Scanner illumination: 4 infrared LEDs
- Image quality: FBI certified according to PIV and FAP 20 standards

- Visual indicators: red/green LED
- Communication interface: USB 2.0
- Power supply: via USB port
- Power consumption (fingerprinting):
 - Active <900mW
 - Standby <200mW
- Electrostatic resistance: contact 8KV, air 16kV
- Operating range: -10° to 55°C
- Dimensions: 120 x 72 x 42 mm
- Weight: 250 grams
- Cable length: 2 meters
- Technical standards:
 - FBI IAFIS Image Quality Specifications (IQS) Personal Identity Verification (PIV) Single Finger Capture Device
 - FBI EBTS F Mobile ID FAP 20
 - GSA FIPS 201 PIV-071006 IQS
 - EMV, ISO 7816, PC/SC
 - Microsoft WHQL
 - FCC, CE, RoHS
 - NFIQ, BMP, WSQ (IAFIS-IC-0110)
 - NIST MINEX, ANSI INCITS 378
 - ISO IEC 19794

Contact Cards:

- Standards: ISO 7816, PC/SC, CT-API, certified EMV (American Express, Discover, JCB, MasterCard, UnionPay, Visa)
 - Card Size: ISO 7816, ISO 7810 ID-1, CR80
 - Card voltage: 5V, 3V and 1.8V (ISO 7816 Class A, B, C) with automatic detection
 - Card pins: 8-pin management (C4/C8 supported)
 - Protocols: ISO 7816 T=0, T=1.
 - Communication speed: Read/write from 1743 bps to 305200 bps. Supports PPS
 - SAM: It also has a SAM slot
- #### Contactless cards:
- Standards: ISO 14443 A/B, PC/SC, CT-API
 - Communication speed: Read / write up to 848 Kbps
 - Reading distance: up to 3cm

INTEROPERABLE TECHNOLOGY

Because the Bioidentidad FS26EU 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.



The fingerprint obtained with the FS26EU is of such high quality that even the pores located on the finger ridges can be appreciated.

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