# Futronic FS26
## Fingerprint and Mifare card reader usb

**Bioidentity Futronic FS26 is a specialized device that combines:**

- **fingerprint capture with integrated fingerprint verification capability**
- **Mifare proximity smart card reader/writer**

**It is equipped with a high quality optical biometric sensor based on high resolution infrared illumination technology. Its large capture window generates 480 x 320 pixel fingerprint images and is made of a special glass that is 14mm 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.**

**The biometric algorithm "Match on Device" embedded in the FS26 has the demanding international biometric certification NIST MINEX issued by the U.S. Federal Government, which guarantees performance, reliability and accuracy for fingerprint recognition.**

## Fingerprinting and biometric identification combined with the use of Mifare cards for a variety of applications

### GENERAL FEATURES

Bioidentidad Futronic FS26 employs an advanced optical precision system in conjunction with a CMOS technology sensor, which meets high levels of image quality.

It also includes a Mifare smart card reader/writer device, in compliance with the ISO14443A standard at a frequency of 13.56MHz, allowing to perform formatting, issuing, authentication, reading and writing tasks with the cards. It can work with 1KB and 4KB Mifare cards.

The FS26 is also equipped with an embedded biometric engine that allows fingerprint enrollment and biometric matching locally. The biometric information to be compared against can be stored in the Mifare smart card memory, in the FS26's internal memory or in the PC. The biometric accuracy meets demanding biometric requirements, guaranteeing excellent levels of fingerprint recognition performance.

Furthermore, the FS26 can be expanded with the FS30 module to add a relay (COM/NC/NO), two status sensors (NC or NC), two buttons and siren, making it perfectly suitable for door access control.

### LIVE FINGER DETECTION

The FS26 features an exclusive "live finger" detection technology, rejecting imitation fingerprints in silicone, gelatin and other materials.

### BIOMETRIC SOFTWARE AND DEVELOPMENT KITS

The FS26 has the drivers and programming libraries for the management and capture of fingerprint images, including:

- Automatic fingerprint capture
- Live Finger Detection (LFD) -
- Fingerprint enrollment
- Fingerprint verification
- Red/Green LED indicator management
- Mifare card formatting
- Mifare card authentication
- Mifare card read/write

Bioidentidad can supply you with the application or software development kit (SDK) according to your project requirements.



EASY CLEANING & DESINFECTION

*The Bioidentidad FS26 is compact, functional and high quality. It features a Mifare card reader/writer and patented live finger detection technology. Inside the Mifare card, the biometric information of the person can be stored, as well as other information depending on the scope of your project.*



### PROVEN QUALITY
*The FS26 uses the same finger scanner as our popular FS80H biometric reader, which is recommended by the most influential international biometric software houses in the market.*

### HIGH PERFORMANCE
*The FS26 will surprise you. Fingerprint capture and card reading is very fast. Fingerprinting can be displayed in real time, everything in 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**
FUTRONIC

**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.
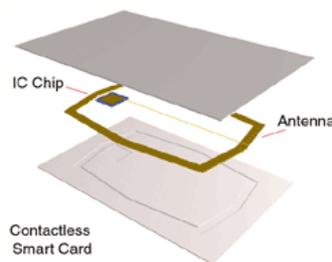
### COMPATIBLE PLATFORMS

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
- Android 3.1 or higher (with OTG or Host port)

### TECHNICAL SPECIFICATIONS

- Sensor type: Optical CMOS with 14mm thick high durability glass prism.
- Live finger detection: Live Finger Detection (LFD).
- Image resolution: 500 dpi, 256 gray levels. 480 x 320 pixels
- Scanner area: 24 x 16 mm
- Scanner illumination: 4 infrared LEDs
- Embedded biometric algorithm: NIST MINEX certified
- Biometric template capacity: templates can be stored in FS26 internal memory, Mifare card memory or PC:
  - FS26 internal memory: 100 templates
  - Mifare card memory: can use the available storage capacity on each card.
  - PC: can use available storage capacity on the PC.
- Card technology: Mifare ISO14443A 13.56MHz
- Supported card memory: 1KB and 4KB
- Card reading range: 15mm
- Card security: Mifare standard key encryption

- Visual indicators: Red/green LED for fingerprint sensor status. Red/green LED for card status
- Communication interface: USB 2.0
- Power supply: via USB port
- Electrostatic discharge resistance of the finger sensor: contact 8KV, air 16kV
- Operating range: -10º to 55ºC
- Expansion port: with FS30 provides one relay (COM/NC/NO), two status sensors (NC or NC), two buttons and siren.
- Dimensions: 98 x 98 x 30 mm
- Weight: 200 grams
- Cable length: 2 meters
- Microsoft WHQL
- FCC
- CE
- RoHS

*The fingerprint obtained with the FS26 is of very high quality, which is why it is one of the preferred fingerprint scanners for software developers.*

*The FS26 reads and writes Mifare proximity cards quickly and without contact.*

IC Chip

Antenna

Contactless
Smart Card

*Internal components of a Mifare contactless smart card.*
*It is a small computer with wireless communication, which is embedded inside the body of a plastic card.*
*In it the FS26 can write and read information wirelessly.*

**Bioidentidad – Futronic division**

**www.futronictech.com**
**info@futronictech.com**

**Americas - Oceania**
**+51987827742**

**Europe - Asia - Africa**
**+351912246899**

**Bioidentidad**
FUTRONIC