Futronic FS82HC
Fingerprint and smartcard reader usb

Bioidentidad Futronic FS82HC is a fingerprint capture device combined with a contact smartcard reader/writer, 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 rugged environments. It has excellent performance for use with various types of skins and various environmental conditions.

The FS82HC card reader/writer can work with any ISO 7816 compliant smart card. It can also be used as a conventional smart card reader/writer operating transparently on various platforms, as it complies with the international PC/SC interoperability standard for USB readers.

Biometric fingerprinting and identification combined with the use of smartcards for a variety of applications

GENERAL FEATURES

Bioidentidad FS82HC employs an advanced optical precision system in conjunction with a CMOS technology sensor, which combines high levels of image quality, while maintaining a small size and a very attractive price.

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

The FS82HC is a high quality, compact and robust single fingerprint capture device, with an economical cost, suitable for applications of attendance control, computer access control (login, log-on, single sign on), digital signature, PKI, network security, identity validation in computer systems, among others.

LIVE FINGER DETECTION

The FS82HC features unique "live finger" detection technology, rejecting imitation fingerprints on silicone, gelatin and other materials.

BIOMETRIC SOFTWARE AND DEVELOPMENT KITS

Bioidentidad FS82HC 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 WSQ format
- Live Finger Detection (LFD)
- 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

The FS82HC fingerprint scanner is internationally recognized for its high quality and speed. It also features patented live finger detection technology and smart card reader/writer.

PROVEN QUALITY
The high quality of the FS82HC fingerprint scanner makes it recommended by prestigious biometric software houses, including Griaule (Fingerprint SDK) and Neurotechnology (VeriFinger SDK).

HIGH PERFORMANCE
The FS82HC will surprise you. The fingerprint capture is very fast and the fingerprint can be displayed in real time, everything with great 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)

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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)

COMPATIBLE SOFTWARE

Due to the high quality of fingerprint capture, superior security, great durability and excellent level of compatibility, the FS82HC is a recommended fingerprint capturer by a wide variety of biometric software brands, including Bioidentidad, Griaule (Fingerprint SDK), Id3, Innovatrics, NEC, Neurotechnology (Verifinger) and more.

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.
- Image size: 480 x 320 pixels
- Scanner area: 24 x 16 mm
- Scanner illumination: 4 infrared LEDs

- Smarcard standards: ISO 7816, PC/SC, certified EMV (American Express, Discover, JCB, MasterCard, UnionPay, Visa)
- Card size: ISO 7816, ISO 7810 ID-1, CR80
- Card voltage: 5V, 3V y 1.8V (ISO 7816 Class A, B, C) with automatic detection
- Smart card pins: 8-pin management (supports C4/C8).
- Smartcard protocols: ISO 7816 T=0, T=1
- Smart card communication speed: Read/write from 1743 bps to 305200 bps. Supports PPS
- It also supports memory cards of various technologies, including: SLE4418/28/32/42, I2C (1Kb to 1024Kb), Atmel AT88SC153, AT88SC1608.
- Visual indicators: red/green LED
- Communication interface: USB 2.0
- Power supply: via USB port
- Electrostatic discharge resistance of the fingerprint sensor: contact 8KV, air 16kV
- Operating range: -10º a 55ºC
- Dimensions: 50 x 73 x 35 mm
- Weight: 180 grams
- Cable length: 2 metros
- Microsoft WHQL
- FCC
- CE
- RoHS
- ISO 7816
- EMV
- PC/SC

The fingerprint obtained with the FS82HC is of high quality, which is why it is one of the preferred fingerprint imprints for software developers.

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