



FS80 USB2.0 Fingerprint Scanner

Futronic's FS80 USB2.0 Fingerprint Scanner uses advanced CMOS sensor technology and precise optical system to deliver high quality fingerprint image. It can capture an Un-distorted raw fingerprint image into PC in 100ms and is good for any fingerprint recognition application.

The finger scanning window is a crown glass with a thickness of 14mm. It is much more reliable and robust compared to any semiconductor type fingerprint sensor.

The finger is illuminated by 4 infra-red LEDs during scanning and the light intensity is automatically adjusted according to scanning fingerprint's characteristics (wet, dry, blurred, etc) to optimized the quality of the captured fingerprint image.

Special electronic circuit is built into FS80 to do Live Finger Detection(LFD). With appropriate software in PC, user can select this LFD feature so that only live finger's fingerprint will be scanned into PC. Fake fingers made from silicone rubber, play-doh, etc. will be rejected. And the LFD feature is included in all Futronic's standard software.



FS82 USB2.0 Fingerprint Smart Card Reader

The Futronic FS82 Fingerprint Smart Reader combines Futronic's FS80 USB2.0 Fingerprint Scanner and an ISO7816 smart card reader into one device.

FS82 has exactly all features of FS80. It can be used as purely fingerprint scanner with all Futronic's standard software. The smart card reader in FS82 can handle any ISO7816 compatible smart card and can also be used as a standalone smart card reader.

Fingerprint scanner and smart card reader can be combined to do two-factor authentication. Registered fingerprint is can be stored on smart card (carried by user) which is read into PC to match with a freshly captured fingerprint from fingerprint scanner at the time of authentication. This can be achieved by using Futronic's Fingerprint Recognition Software Development Kit(SDK).



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FinLogon Personal Edition (PE) with Add-on Pack

A free software is included in the retail package of FS80 USB2.0 Fingerprint Scanner.

Features - FinLogon PE

- Support Logon for MS Windows 2000 Professional, XP, Vista
- Logon Windows by a finger touch. No need to type username and password
- Use customized GINA technology
- Fingerprint recognition accuracy: FAR-10-6, FRR-10-2
- Prevent unauthorized access your computer
- 4 authentication options:
 - Either fingerprint or password
 - Fingerprint only
 - Password only
 - Both fingerprint and password
- Support return from Standby, Hibernate, Windows Lock and Screen Saver
- Fingerprint data are stored in Windows registry with 256bit AES encryption
- Fingerprint data can be backup and restore
- Support Live Finger Detection(LFD) when use together with FS80 USB2.0 Fingerprint Scanner
- Auto-detect password change of local computer Windows account user



Features - Add-on Pack

One Touch Password Filler

- Replace any "username + password" pair when logon to any Windows and web-based software by a single finger touch
- Logon profiles, username + password pairs, are stored with encryption in Windows registry which can be backup and restore
- Flexible special key setting for maximum convenience
- Auto-detect the logon screen of any Windows/web-based software
- Use the fingerprint data of FinLogon Personal Edition

Fingerprint File encryption

- Use 64 bit Triple DES (Data Encryption Standard)
- Encrypt/decrypt both files and folders by a single finger touch
- Integrated with Windows and support right mouse click operation
- Use the fingerprint data of FinLogon Personal Edition

FS80 Specification

- Fingerprint scanning window size is 16x24mm
- Image resolution is 480x320 pixel, 500 DPI
- Raw fingerprint image file size is 150K byte
- With Live Finger Detection (LFD) feature
- USB 2.0 compatible interface, plug and play device
- With a 2M standard USB cable
- Small size, 45 x 63 x 26 mm
- Light weight, 120 gram
- Operation temperature: -10 to +55 °C

FS82 Specification

Specification-general

- USB 2.0 compatible interface
- With a 2M standard USB cable
- Small size, 50 x 73 x 35 mm
- Light weight, 160 gram
- Operation temperature: -10 to +55 °C

Specification-Fingerprint scanner

- Fingerprint scanning window size is 16x24mm
- Image resolution is 480x320 pixel, 500 DPI
- Raw fingerprint image file size is 150K byte
- With Live Finger Detection (LFD) feature

Specification-Smart card reader

- Compliant with ISO 7816 and EMV 2000
- Up to 119 Kbps if it is supported by card
- Supports 5V, 3V and 1.8V smart cards
- Supply 60 mA to the smart card
- Detect smart card type automatically
- 8 pin handling (C4/C8 supported)
- Bi-colors LED for status indication

Electrical characteristics :

- Light source: Infrared LED
- Supply voltage: DC 4.5-5.5V via USB port
- Power consumption:
 - active <550mW(during scanning)
 - standby <400mW
 - (scanner is connected PC but no scanning)
 - sleep mode <15mW
 - (activated by standard USB bus event only)
- ESD contact - 8KV
- Air discharge - 16KV no permanent damage

System requirements

- MS Windows 2000 and Windows XP / Vista
- 200MHz or higher Pentium processor
- 128MB RAM minimum
- USB port and CDROM drive



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