Biometrika

Fx2100-basic

Fingerprint Scanner

Fx2100-basic is a FTIR optical fingerprint scanner, which, thanks to its powerful CPU is capable of performing in hardware several useful tasks, thus improving security, efficiency and usability. The accurate optical design allows high quality images to be captured and a large finger area to be sensed.

Fx2100-basic "state of the art" encryption algorithms make the data transfer extremely secure.

Used in conjunction with BiometriKa fingerprint recognition software, Fx2100-basic is one of the most powerful and cost effective solutions for identity-verification / recognition.

Technical specifications

Fingerprint Scanner

- Optical, high resolution (500 and 569 dpi)
- Sensing area: 17.8 x 25 mm
- Size: 75 x 65 x 125 mm (WxHxD)

Features

- Automatic finger detection
- 128-bit encryption
- Blind acquisition
- Smart Card (version SC only)

Interface and Development

- USB 2.0 HS interface
- Supported OS: Windows (XP, Vista, 7, 8), Linux
- TWAIN support for image acquisition (for Windows system only)
- Fx2000 compliant
- FxISO SDK (available in Light version for image acquisition only)

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Resolution	500 and 569 dpi
Sensing area	25 x 13.2 mm (0.98'' x 0.52")
	The large sensing area improves recognition performance (since a larger number of minutiae can be detected and matched) and greatly reduces the occurrence of false rejections caused by incorrect finger placements
Frame Rate	14 frames per second are captured and pre processed by the sensor hardware.
Auto Detection	Fx2100-basic can operate an autonomous detection of the finger presence on the sensor platen.
Encryption	The sensor implements a number of encryption algorithms and can operate in several distinct modalities, which are negotiated with the PC at initialization time. 128-bit "state of the art" symmetric algorithms are used together with non-repeatable keys, to secure the communications with the PC.
Blind Acquisition	Live showing the captured images is a valid help at acquisition time, in order to better adjust the finger position and pressure. On the other hand, drawing fingerprint patterns in "clear" on the screen can be dangerous from a security point of view. Fx2100-basic provides an excellent solution to this problem, by computing in hardware the finger silhouette and contrast which are sent to the PC for live-presentation. No real fingerprint image needs to be sent or visualized "in clear".
Interface	USB 2.0 HS
TWAIN	Fx2100-basic, like all Biometrika scanners, can be used as a TWAIN image source. This enables the acquisition of a a fingerprint image using any application that supports the TWAIN standard
Integration and development (SDK)	Fx2100-basic can be integrated in third party applications using FxISO SDK
Operating Systems	Windows XP/Vista/7/8, Linux
Smart Card	The Fx2100-basic scanner (SC version) integrates a versatile PC/SC compliant Smart Card reader. The reader can be used by every application (including third party applications) to read/write most of the commercially available Smart Card (and Memory Card).