silex technology

USB interface inner-layer fingerprint reader

S1 (SX-Biometrics Suite™ with S1)

Fingerprint analysis and matching technology

Biometrics authentication seems convenient, but can everyone use it?

Are you looking for reliability?

silex technology now has the solution for you.

We've used our biometric expertise gained through years of experience to develop a new fingerprint reader with RF swipe sensor technology.

The new fingerprint reader will enable 100% usability. Those users who in the past have had a difficult time using fingerprint readers, will be able to easily use the silex S1.

Features and Benefits

Superior performance
Skin damage, dirt, dry-finger, and other unfavorable conditions can make surface-level fingerprint patterns unreadable. silex S1 reads below the surface level at the corium where the fingerprint pattern remains consistent.

Compatible with other silex fingerprint readers
The S1 swipe sensor is fully compatible with all silex fingerprint readers. Any silex fingerprint reader can be used without having to re-register fingerprints.

High level of anti-spoofing
The unique sensor technology used by the S1 simply will not read gummy fingers or other methods used to spoof fingerpint readers.
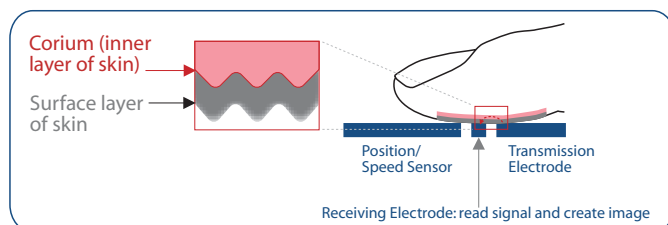
Compact and mobile
The simple, sleek design of the S1 is suited for any PC desktop or laptop. By making the USB cable detachable, the standard cable can be replaced based on the reader's proximity to the computer.

S1 Technical Specifications

Sensor type	RF type inner laryer / swipe sensor
Sensor area	W:12mm*L:18.5
Resolution	508dpi
Interface	USB 2.0 Full Speed*
Power consumption	Less than 100mA
Operating condition	Temperature: 5-55 °C, Humidity: Max 85%RH (non-condensing)
Storage condition	Temperature: 20-60 °C, Humidity: Max 85%RH (non-condensing)
Dimensions	80mm(L) X 40mm(W) X 9.5mm(H) - without rubber feet
Cable length	1.5m (desorption/A to Mini-B type)
Weight	Approx. 60g without cable
Regulatory approval	VCCI Class-B, FCC Class-B, CE

SX-Biometrics Suite Specifications

Supported OS	Windows 2000, Windows XP
Max. registerable users	32 users
Max. registerable fingers	5 fingers / 1 user
Authentication method	Minutae-matching verification
Minutae data storage area	PC hard drive

Corium (inner layer of skin)

Surface layer of skin

Position/ Speed Sensor

Transmission Electrode

Receiving Electrode: read signal and create image

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