PRintX Optical

Optical Fingerprint recognition reader

Access Control Solutions

A biometric reader which provides the highest security level for personnel recognition

No two individuals in the entire world have similar fingerprints. What better way to identify someone who wants to gain access? Whilst cards can be lost or used for 'buddy punching' only Fingerprint gives a true & accurate account.

With optical sensors, the finger is placed on a plate and illuminated by LED light sources.

Through a prism and a system of lenses, the image is projected on a CMOS (Complementary Metal-Oxide Semiconductor) image sensor.

Using frame grabber techniques, the image is stored and ready for analysis by the algorithm.

- **Fast Reading time - 1 second 1:1000**
- **Reliable, attractive & compact design**
- **Sensing Area: 16.0 x 19.0mm**
- **When fingerprint is authorised a green LED light will show along with a high pitch beep**

SYNEL
Presence Perfect

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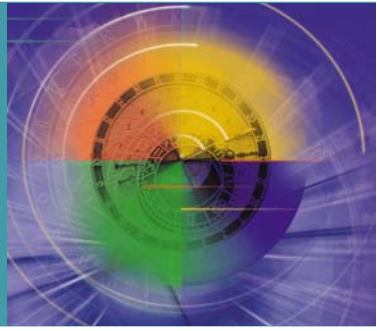


How does it work?

Enrolment process takes only a minute. Employees enrol one or two fingers using the Biomouse (FPS200) connected by usb to the PC. Fingerprints are translated into Algorithms which are stored on the data base. Templates are distributed to the relevant readers.

The employee places his finger over the PRintX for quick reading. Within approximately 1 second a comparison is made between the stored template and the fingerprint read-out, and if successful, LED is green and audio sound.

Technical Specifications

- 9000 templates
- 500 dpi resolution
- Solid sensor surface
- High quality fingerprint image
- CPU 400 MHz
- Flash memory 4 MB
- EER< 0.1%
- Enrolment time1 sec
- Verification time1 sec
- Reading time: 1 to 1000 search in 1 second
- Template size: 384 Bytes (reducible to 256 bytes)
- Image Size: 280 x 320 Pixel
- Easy template distribution in network installations

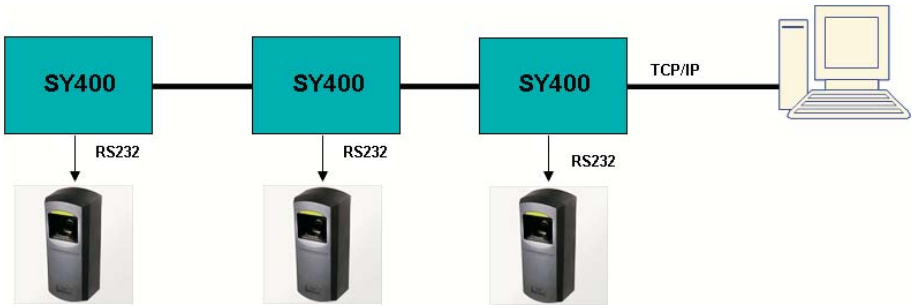
Mechanical Features

- Dimensions: 13 x 4.3 x 2 cm
- Weight: 480 g
- Operating temperature: -10 to +50°C
- Relative humidity: 95%
- Communications: asynchronous, 9600 b/s, TTL interface
- Power supply: 5 Vdc
- Performance:

Allowable finger rotation	+/- 18 degrees
Allowable displacement	+/- 5 mm
False acceptance ratio	up to 0.001
Equal error rate	0.001
Verification time	<1 s
Enrolment time	<5 s

PRintX

The PRintX was developed to operate in conjunction with Synel's Access Control, hardware and software. The reader is the state-of-the-art in biometrics. The device which consists of a module packaged in a rugged and sealed enclosure, has a solid-state sensor (300x300 pixels in a 0.6 square inch array). The device can store about 1100 fingerprint templates, compressed using a proprietary algorithm.



Optical Fingerprint recognition reader can work with Falcon access control, Falcon4Schools (Electronic registration and access control)

More information on Biometrics in our Biometrics FAQ document.

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