

DESCRIPTION

IZZIXFINGERENGINE(Fingerprint Recognition Algorithm) follows the Commonly accepted fingerprint identification scheme, which uses a set of specific fingerprint feature points(minutiae).

However, it contains many powerful algorithmic solutions, which enhance the system performance and reliability.

Some of them are listed below:

- Image Quality Check Algorithm
- Efficient Image Enhancement Algorithm
- Fingerprint Enroll Mode with Feature Collection
- Database Classification and Pre-Sorting by Global Feature Vector
- Suitable Algorithm to 1:1 and 1:N Mode



More than Perfect!

IZZIX SDK has given a great consideration to security and user privacy issues. Fingerprint templates are always returned in encrypted form from the recognition engine and user entries are stored encrypted in the database. Furthermore, user entries stored cannot be matched against themselves. They are only decrypted by internal decryption scheme in Recognition Engine.

SPECIAL FEATURES

- Internally developed fingerprint authentication algorithm with fast & accurate authentication rate
- Free yourself from remembering many different passwords
- Reduce administrative cost – No more periodic change of password
- More reliable way to secure confidential information

APPLICATION

- PC Security – regulate PC access and data security
- Document Security – secure personal e-mails
- Regulate accessibility of electronic payment & transferring data on the network
- Internet login using fingerprint authentication

IZZIXFINGERENGINE SPECIFICATION

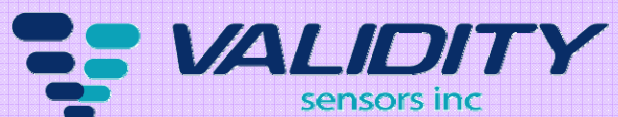
FAR(False Acceptance Rate)	≤ 0.0001%
FRR(False Rejection Rate)	≤ 1%
Authentication Speed	≥ 0.2 sec
Template Size	Max. 1,024 Bytes
Matching Security Level	3 Levels
Supported OS	Microsoft Windows XP/Vista/2003 32/64bit

■ SCANNER SPECIFICATION

FD4000		
Fingerprint Sensor	LS200UV Dual-Line-Imager(DLI) sensor - based on Validity VFS201 Fingerprint Sensor	USB Cable Type 30cm
Image Resolution	508dpi / 256 levels of grayscale	
Window Size	10.4 × 14.4 mm	150cm
Fingerprint Image Size	200 pixel wide fingerprint image (10mm)	
Interface	USB 2.0 Full Speed (12Mbps)	
Operating Temperature	0 ~ 70 °C	
Dimension(W×L×H)	40.5 × 65 × 10.5 mm	
Weights(gr.)	< 30 (body) USB cable - 30cm ; < 17 - 150cm ; < 44	
Color	Black	
Others	separable USB-A to Mini-B cable – 30cm or 150cm	

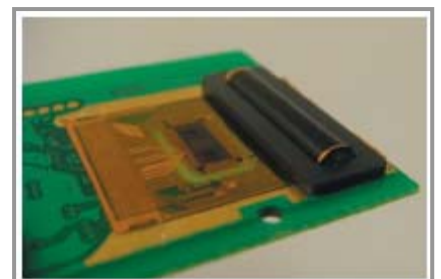
Validity VFS201 Chip-on-Flex(COF) Fingerprint Sensor

- LiveFlex™ Swipe Sensor – Fingerprint Imaging on Flexible Tape.
- Durable Kapton® Chip-on-Flex (COF), The sensor IC is mounted safely away from the imaging area and is never exposed to finger touches or the outside environment. It is bonded to a flexible circuit board made of very thin, yet highly durable Kapton plastic. The traces run on the underside of the Kapton flexible PCB, so the finger only touches the colored plastic.
- Dual Line Imaging Technology, The VFS201 uses a licensed technology which uses two imaging lines. The primary imaging line captures the actual bidirectional fingerprint data. The secondary imaging line is used to track finger movement. Data from the secondary line is compared with the primary line to determine finger detection, direction of movement, and velocity. Data from the primary image line is transferred to the host as image data. Secondary image information is transferred to the host which then determines finger velocity as well as other information. The raw data from the secondary image line is then discarded.



■ IZZIX SDK(Software Development Kit)

- ❑ Hardware Device Driver
- ❑ IZZIXFINGERENGINE(Fingerprint Recognition Algorithm, FingerAPI22Ex.dll)
- ❑ Sample Application Program with source code
- ❑ Technical documents
- ❑ Fingerprint Scanner ; FD4000



VFS201 Sensor