

Fingerprint Recognition Software Development Kit(SDK) for MS Windows



Standard SDK package includes MS Windows example programs with source code to show how to use the SDK for the following development platforms:

- VB6 and VC6
- Borland Delphi
- VB.Net and VC.net
- VB.2005 and VC.2005
- JAVA

Please download the VC6 example program for SDK from www.futronic-tech.com to try and contact Futronic for more details

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Some brief explanation

- A fingerprint must be registered in a system before it can be used for authentication.
- During registration, the fingerprint image is captured by using a fingerprint scanner. Then the system will extract the fingerprint's characteristics(minutiae) from the captured image and create a fingerprint registration template which is stored in any non-volatile memory space.
- To do user authentication, fingerprint is captured again and the system will create an accessing fingerprint template using the same method as creating a registration template. Then it will compare the accessing template with the registration template to determine if there is a "match" or "no match".
- If a user ID is provided, the system will compare the accessing template to the registration template of this particular user ID. This is called verification (1-to-1 matching).
- If a user ID is not provided, the system will compare the accessing template to all the registration templates stored in the system. This is called identification (1-to-many matching).

Introduction

Futronic MS Windows Fingerprint Recognition Software Development Kit(SDK) is an excellent tool for users to develop their own MS Windows based fingerprint recognition application software. With the SDK, you can make use of Futronic proprietary fingerprint recognition algorithm without knowing the details of a purely mathematical process. So fingerprint recognition can be integrated into any application program to *REPLACE* the users' Logon password by a touch of finger to make the system more secure and user administration easier.

Major SDK features

The SDK is implemented as Win32 API dynamic-link library (DLL). It has the following major features:

- Support Windows XP/2003/Vista/2008/7, 32 bit and 64 bit.
- Support WinCE 5.0 and 6.0 for both ARM9 and x86 hardware platforms
- Capturing fingerprint image from Futronic USB2.0 fingerprint scanners FS80, FS82, FS88 and FS90.
- Extracting fingerprint characteristics(minutiae) from the captured image and creating a template which can be used:
 - For registration: the template will be stored in the database
 - For authentication:, the template will be matched to pre-registered template
- Matching fingerprint templates can be done in 1-to-1 or 1-to-many manner
- Recognition accuracy, FAR and & FRR, can be adjusted to suit security requirement of different applications.
- Support Live Finger Detection(LFD) when using together with Futronic USB2.0 fingerprint scanners FS80, FS82 and FS88.

Who is the SDK for?

Application software developers who want to add secure but convenient fingerprint authentication into any MS Windows based application software for easy user management and more secure logon control. The SDK can be used to make application programs for both standalone PC and PCs connected in networking environment.