User's Manual Of Wison's Demo

User's Manual



Version : 2.1

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I. Functions



II. Operation

The demonstration program is a simple but helpful example that will help you to get acquainted with the features of the fingerprint device. Start the program by double-clicking on the **VC_Demo_CMOS2N.exe** in the program directory of the SDK. The screen will show up as follow:

💑 Fingerprint Demonstration			
	Oevice C OR100 (Optical Type I) C OR200 (Optical Type II)		
	Diagnose Vie <u>w</u> Image		
	<u>S</u> nap <u>E</u> nroll		
	Verify Identify		
	Select User Delete User		
	Save Image View Log		
	C High		
Image Size Image Type Image Size Image Size	Medium C Low		
User Info Name Finger Quality	E <u>x</u> it		

a. Diagnose

The definition of **Diagnose** is to diagnose the fingerprint reader. If the result is not OK, please contact your dealer.

Before testing, please clean the prism, and when testing the device, **please** make sure that there is no finger on the reader.

You can click the **Diagnose** by mouse or press the **ALT+D** by keyboard to enter the Diagnose mode. A message box will be popped up to tell if the diagnosis is OK,





b. Snap

The definition of **Snap** is to capture and displays a fingerprint.

The principal purpose of this function is to allow you to seek a sufficiently good fingerprint by displaying the status of the fingerprint image. You may use it for enrollment later.

This function snaps a fingerprint and shows the image of the fingerprint continuously. Please put your finger on the reader.

Fingerprint reader will snap your fingerprint automatically. The capture process will stop when a good quality fingerprint is captured, or by clicking "**Stop Snap**" to break the capture.

You can click the **Snap** by mouse or press the **ALT+S** by keyboard to enter the snap image mode. The following screen will appear. Please keep on putting your fingerprint on the reader until the fingerprint is snapped.



c. View Image

You can click the **View Image** by mouse or press the **ALT+W** by keyboard to view the image. This function is to adjust the image quality for the CMOS2 optical device. The default setting may be not suitable for some environment or fingers. The user can adjust the brightness, contrast and gamma to get a satisfied image quality for later enrollment or authentication.



a. Enroll

The definition of Enroll is to enroll a New Fingerprint as Current User

At least three fingerprints are required for enrollment. Please refer to the fingerprint snapping procedure. Put your finger on the reader at least three times. The enrollment will be finished when the enrolled quality is OK.

The fingerprint reader will take the common features of these fingerprints. After a few seconds of processing, the reader will inform you the enrolled result.

You can click the **Enroll** by mouse or press the **ALT+ E** by keyboard to enter the enrollment mode. The screen is the same as the snap function. After enrolling fingerprint successfully, A dialog box will be pop up showing the enrolled quality and require the user to input the name and choose the enrolled finger. Please input the desired data and click "**Save**" button to save the data.

Personal data	
Enro _{Name} TE	Iled Quality OK
Select Finger-	
C Left Thum	b 🔿 Right Thumb
Eft Index	C Right Index
🔿 Left Middle	e C Right Middle
C Left Ring	C Right Ring
C Left Little	C Right Little
Save	Cancel

e. Verify

The definition of **Verify** is to verify a live-scanned fingerprint from the current user. It does only one-to-one matching.

The matching compares a live-scanned fingerprint image against the previously enrolled fingerprints, checking if they came from the same finger. Please put your finger on the reader, and the fingerprint reader will check it out automatically according to the security level settings.

The objects to be compared are the live-scan fingerprint and the final fingerprint template - EnrITemplate, which is the saved data in the enrollment. After a successful snapping, the live-scan fingerprint image data is kept in the main memory. You can choose the EnrITemplate by clicking **Select User** or create a new user through the enrollment.



You can click the **Verify** by mouse or press the **ALT+V** by keyboard to enter the matching fingerprint mode. Before clicking the **Verify** button, you must first select a user. Otherwise the following screen will appear.

After verification, the score will be displayed on the screen to show if the verification is matched or failed. See **Identify** for details.

f. Identify

The definition of **Identify** is to identify a live-scanned fingerprint from the database. It does one-to-many matching.

The matching compares a live-scanned fingerprint image against the previously enrolled database. Please put your finger on the reader, and the fingerprint reader will check it out automatically according to the security level settings.

You can click the **Identify** by mouse or press the **ALT+Y** by keyboard to enter the matching fingerprint mode. After identification, the score will be displayed on the screen to show if the identification is matched or failed. If the identification succeeds, the user information will also be shown on the screen.



g. Select User

The definition of **Select User** is to select a User for verification.

The user data files are created after enrollment. Once you have selected a user, it will become the target to be verified, and the name of the user will be displayed on the screen of the demonstration program.

Two ways you can change the target that is to be verified:

- i. Select another user from the function of **Select User**.
- **ii.** After enrollment, the enrolled user will become the new target of matching automatically.

You can click **Select User** by mouse or press the **ALT+U** by keyboard to enter the Select User mode. The following screen will appear showing the user list (name, enrolled finger, enrolled class).

To select a user, choose the user and click the "OK" button or just double-click on the user desired.



h. Delete User

The definition of **Delete User** is to delete a User from the database.

Once you have selected a user, the user will be deleted from the list.

i. Save Image

The definition of **Save Image** is to save the fingerprint image to file.

After a successful fingerprint snapping, the fingerprint image will be kept on the main memory. You can save the fingerprint image with this function.

You can click the **Save Image** by mouse or press the **ALT+I** by keyboard to enter the Save Image mode. Please select a specified folder and input the filename.

According to the user's requirements, there are two file type can be selected:

- i. File Type
 - **BMP** : Save the fingerprint image in bitmap file format.

j. View Log

You can click the **View Log** by mouse or press the **ALT+L** by keyboard to view the history of the operation. The log can be sorted by "Date", "Name" or "Action" by clicking the radio button. See below the dialog box.

View Log		
Date 2008-11-06 15:38:28 2008-11-06 15:35:08 2008-11-06 15:35:02 2008-11-06 15:34:56 2008-11-06 15:34:32 2008-11-06 15:33:01	Name TEST TEST TEST TEST TEST TEST TEST	Action Identify Verify Identify Verify Verify Enroll
<		>
7	OK	

k. Security Level

The default security level is **Medium**. Set up the security level for matching by setting the verification threshold. **High** is the safest mode. **Fair** is a looser mode.

1. Exit

The definition of **Exit** is to terminate the demonstration program. You can click the **Exit** by mouse or press the **ALT+X** by keyboard to terminate the demonstration program.