

Fringerzen U-KEY- user manual

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1. Introduction

In modern life, to keep our own materials from unauthorized reading, alteration and deletion, we use the passwords for most of the cases, such as Windows login, login for mails, encryption for files, etc. However, it can be a challenge for a lot of people to memorize so many annoying passwords and how to use the encrypted information safely and conveniently becomes a big problem for all people. The application of the Fingerprint Reader can help you solve this problem. The Reader was developed on the basis of the exclusiveness and high security of human fingerprints and by employing the sliding fingerprint identification chips latest at present time. Through the Reader, the user can use his own fingerprint to replace annoying passwords or ciphers, and do not need to manage and remember them, which will surely enhance the security level. With more emphasis attached on data's security in the world, the Fingerprint Reader, due to its remarkable advantages, will be more widely used.

2. Specifications and functions

Specifications

- Built-in sliding fingerprint sensor
- USB2.0 port interface to PC, bearing more than 1 million times of finger sliding
- Resolution : 500dpi; 192 x 16 pixels
- Finger pattern verifying time: <0.1s, image access speed: 488fps
- Maximum 10 registered fingerprints per user
- Unlimited Windows users
- FAR (False Accept Rate) <0.0001%, FRR (False Reject Rate) <0.1%
- OS : Win2000/XP/Vista (The USB Bioprint built-in flash can't support Vista)
- Working temperature: -25-85, Humidity: [30%-90% @25](#)

Functions

- **Automatic login for Windows:** The user can use his own fingerprint to log in the Windows when the system is started. However, only users who are authorized and have completed the fingerprint registration can log in and use the computer. The system can also automatically log in for different user's desktop according to the fingerprint information it reads.

- **Fingerprint Encrypted Disk:** On the existing hard disk, the user can freely create one virtual partition that apparently looks the same as other regular hard disk partitions. Only when the Fingerprint Reader is connected to the system and fingerprint is matched, the user can see and use this partition.

- **Fingerprint encrypted data backup / recovery:**

(This function is only setting for non-built-in capacity-designed U-Key) To prevent accidents resulting situation registered fingerprint information damaged or lost, users can back up registered

fingerprint information to a safe area , and encrypt the backup information, import it when needed, You can return to the original fingerprint registration information.

- File/folder Encryption:

- Only the authenticated finger sliding can open the encrypted files or folders.

- Auto Web login:

- Save the accounts and passwords key-in on Web surfing or email login by finger sliding.
- This feature releases the users from repetitively key-in or remembering many annoying accounts and passwords.

- Wake up the Screen-saver lock:

- Wake up the Screen-saver lock by the finger sliding to protect the security from absence.

- Secured notepad:

The encrypted Notepad that saves the important information like agendas or itineraries can be opened only if the fingerprint is authenticated

Note: The realization of the above functions is subject to the prior installation of the software provided in the CD, fingerprint registration and appropriate setting.

3. System Requirements

Supported operating systems

- Windows 2000
- Windows XP home edition
- Windows XP professional
- Windows vista (Built-in capacity-U-key can't support Vista)

Hardware requirements

- Pentium III processor or higher
- USB 1.1 or 2.0 port

Notice: To protect the fingerprint sensor not to be scratched, we put on a Protective film, please peel off the protective film before you Brush fingerprint. (See the following figures)



4. Precautions

- For fingerprint enrollment and matching, please keep your fingers clean and place the fingerprint side evenly onto the surface (golden part) of the fingerprint sensor, then slide your finger. Pay attention not to slide too fast so that the sensor can capture the entire information needed from your finger. (See the following figures)

Correct way

Allow the first knuckle to get close to the sensor.

Place the finger evenly onto the guide slot

Allow the finger in the guide slot to slide steadily and smoothly from the first knuckle to the finger tip, keep the finger well contacting the sensor.

Keep sliding till the sensor is exposed.

Incorrect way

Finger is bended.

Finger leaves the surface of the sensor in the course of sliding.

Use the finger tip not the pad of **finger**.

In the course of sliding, the body (like the finger) contacts the metal head of USB or port.

- Because individual differences or different humidity environment, which maybe

make collected fingerprints effect less than desirable, it would make the probability of declining Fingerprint Identification

- Please note that keep your fingers moist extent, if you in the cold and dry environment, please let your fingers maintain a certain level of moisture (wet your finger by mouth), Then continue fingerprint collection operation
- Please don't use the sharp objects, particularly the metal objects, to scratch the surface of the sensor. As the water or dirt on the sensor surface can affect its performance, please keep the surface clean with soft rags.

5. Illustrations

Fingerprint Reader is not correctly connected.

Fingerprint Reader connected, but not logged in.

Fingerprint Reader connected and logged in.

You need to slide your finger in the correct way as instructed in "Precautions"

Finger sliding succeeded: accepted by registration program.

Finger sliding failed: rejected by the registration procedures and no sufficient character information have been acquired.

Icon appearing on the desktop for the application program

Shortcut menu through right mouse button: providing the basic operations for this product.

Main menu: used to operate most of the functions provided by this product.

6. Installing software

Insert the CD, the software will run the installation program automatically. Or double-click the setup icon to start the installation program. That will shows as follow:



- Click “Next” to enter the Welcome interface, as shown in the following figure:



- Click “Next” to enter the window for setting the installation directory. The defaulted installation directory is: C:\Program Files\BioPrint. Or you can click “Change...” to select different destination directory.



- Click “Next” to enter the interface for preparing to start installation. If you want to change the above-options, you can click “Back”.



- Click “Install” to start the installation progress. At the time, the installing progress bar will appear. Please wait.





- Click “Finish” to complete the installation. The program will create the icon on the desktop for the application, and in Start-Program-Startup, the Bio-Print will be added, as shown in the following figure:



7. Registration and settings for functions

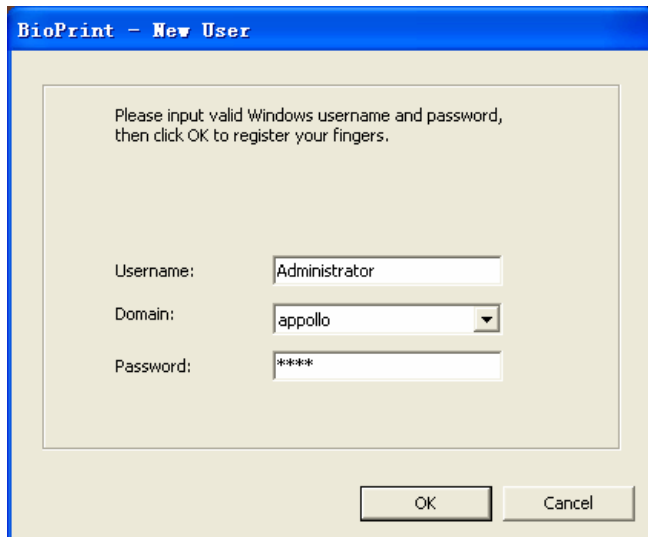
After the software is installed, you need to register your fingerprint information and complete the necessary settings. Then you can use the functions as provided by this product. The settings include Registering Fingerprint Information, Setting Fingerprint Encrypted Partition and Setting Automatic Login for Windows. To operate, please follow the operation guide from the software. The procedures can be described as follows:

■ Registration for new users and setting for Windows automatic login

- Connect the Fingerprint Reader to USB port. For the first time of use, the window for registering the new user will appear. You can also double-click the icon

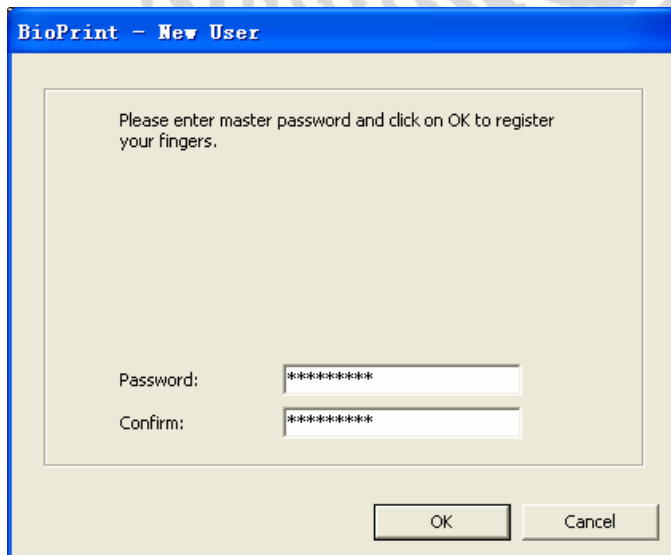


on the desktop to start the program, as shown below:



- Select the Username: in this column, input the user name that's needed to use the function of automatic login for Windows. For example, "samge1972". If you are the single user, skip this item.
- Select Domain: this item is defaulted by the system.
- Input the Password: input the password for Windows automatic login that's corresponding to the current user. If no password is available, please add or change the password through the User Account which is located at Window's Control Panel. Otherwise, you can't access to the function for Windows automatic login.
- Click "OK" to complete the setting.

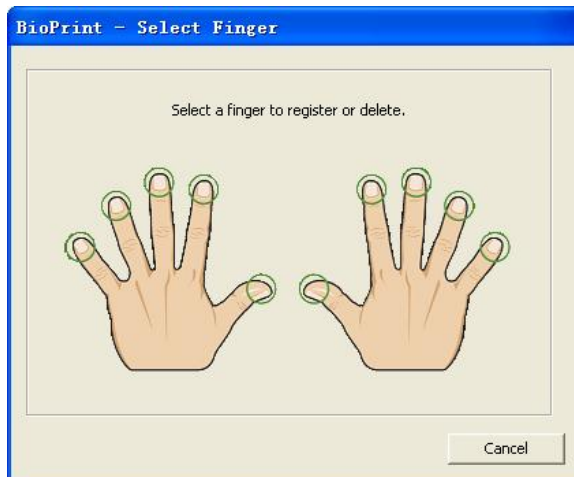
If what you bought is the Built-in capacity-U-key, for the first time of use, the window as below will appear.



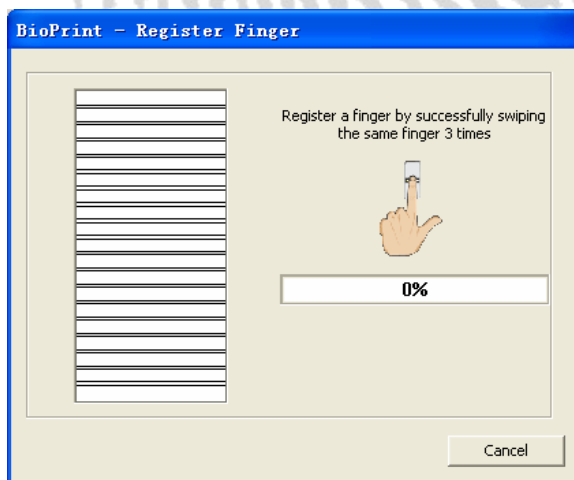
Input the password which is you want to set (The password must be composed of 8 or more that 8 characters.) Then click "OK" . Enter the fingerprint information registration interface.

■ Registering fingerprint information

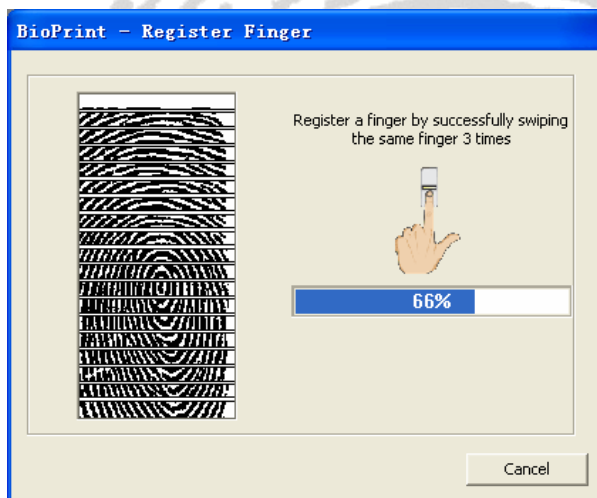
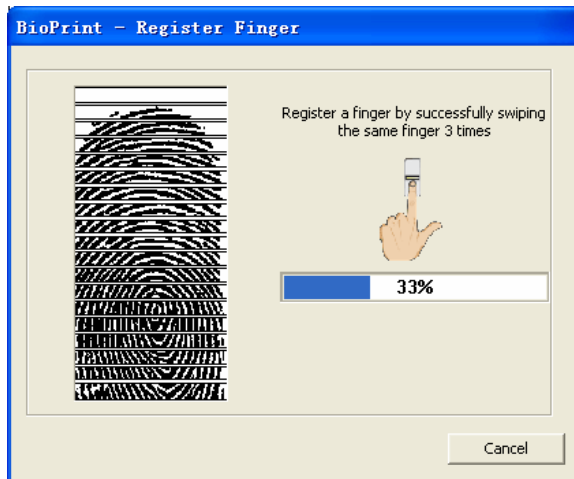
- After the setting for Windows automatic login is completed, turn to the interface for fingerprint registration. First of all, you need to select the finger to be registered, as shown in the following figure:



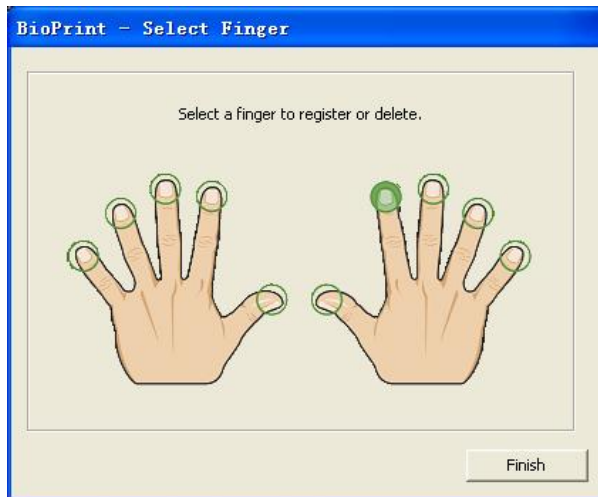
- This product allows every user to register 10 fingers. You can choose any of your finger as you like, and click the green ring marked at the finger tip. Then the system goes to the Registering Finger window:



- Place your finger evenly onto the sensor, and slide it in the correct way as instructed in Precautions. The product requires you to conduct the effective sliding for three times with the same finger to complete the registration. Once the sliding is correct, the clear and entire finger image will appear in the display box, as shown in the following figure:

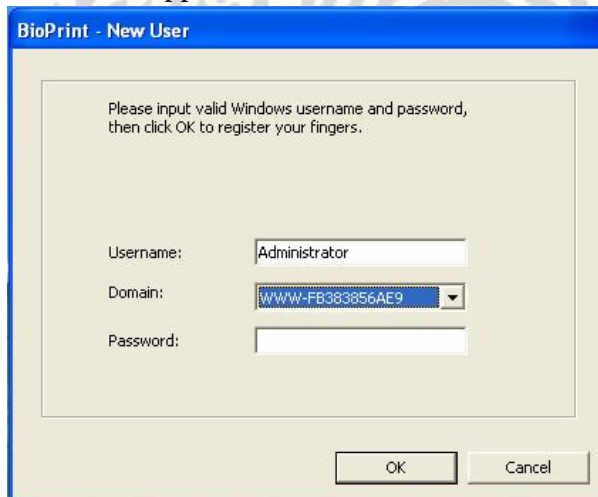


- After the registration, the system will return to the window Selecting Finger so that you can register another finger or several other fingers. The registered finger will be marked with a red block to distinguish.



- If you do not want to register more fingers, you can click “Finish”, the system will guide you to the window—Select the size of your Secure Disk.

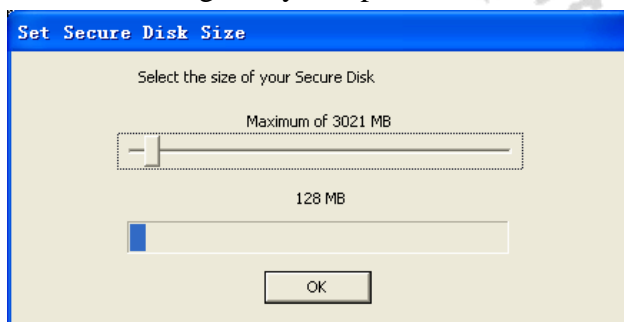
If what you bought is the Built-in capacity-U-key, for the first time of use, the window as below will appear.

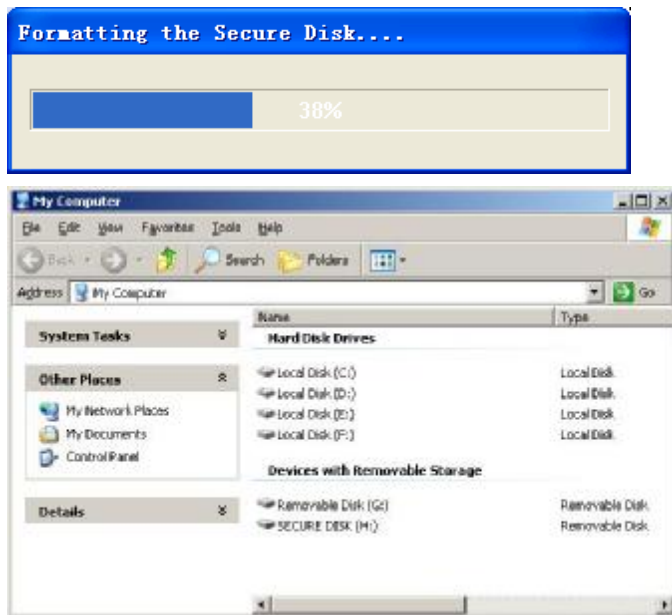




In the password box enter your windows password , and then "OK" button (if you), then enter the fingerprint encryption setting interface.

■ Setting fingerprint encrypted disk

The window for the setting will appear as below. You can adjust the progress bar to change the capacity of the encrypted disk, then click “OK” and wait till the formatting for the encrypted disk is completed. Thus the setting is done, you can see the disk icon and label through “My computer” or “Windows Explorer”.






Upon completion of format, if it is built-in capacity-U-key, in the "My Computer", there will be two new disk icon and label. One is  Public (I:), this is a public area, the other is  MY COFFER (I:), this is a encrypted area. But these two areas are built on the Built-in capacity-U-key inside. Encryption District letter only after the adoption of fingerprint authentication will appear.

Built-in capacity-U-key after the completion of the format, will pop up the main menu:



Select security log in, set up user data interface points "determined" to restart the computer will be able to U-Key to sign in the windows.

Built-in capacity-U-key fingerprint registration information is stored in U-Key on the built-in memory chips, rather than built-in capacity-U-Key fingerprint registration information is stored in the computer's hard disk.

If the non-built-in capacity-U-key, only an encrypted area, that is  MY COFFER (I:), this area is built on the hard drive.


"Secure Disk"the greatest capacity: the case of non-built-in capacity-U-key, its maximum capacity

only accounted for Bioprint spurned by the Division of the hard disk space for the remainder of the half. And built-in capacity-U-key its maximum capacity of only U-key to account for the effective capacity of the remaining half.

After set up, a dialog box l appear as follows:




Click on the "immediate resumption", restart the computer.

After restart the PC, click the lower right side of the computer screen  will pop up the main menu, the menu will display the upper left corner of the current user name. As shown below:



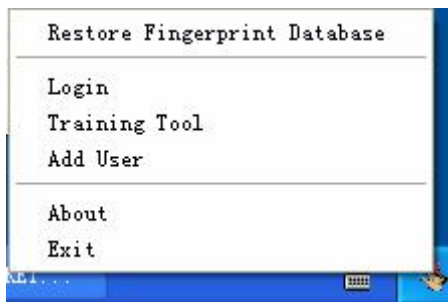
■ Shortcut menu through right mouse button

To enter into the setting menu for application program, please click the right button of the mouse to select the icon  on the taskbar.



Note: If not logged in, only the items including Resumption fingerprint database

Exercise Tool, Add User, about and Exit will appear.

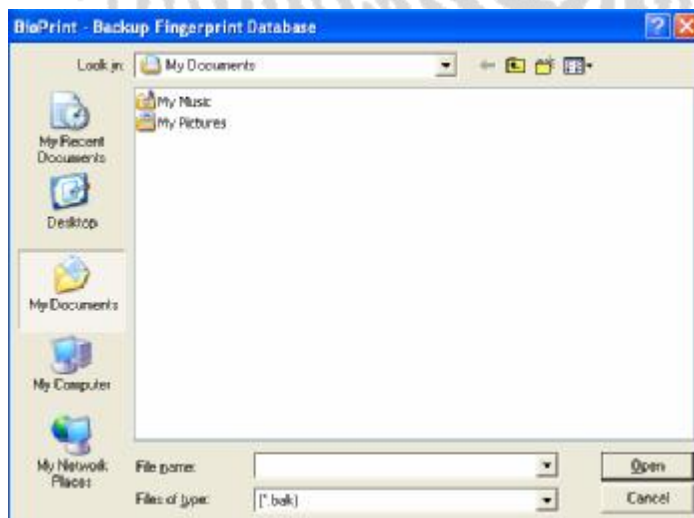


The following section briefly describes the setting for each item in the menu:

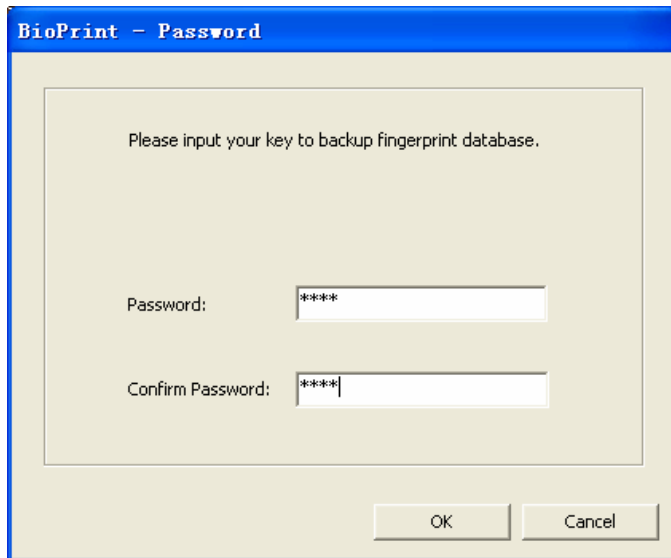
- **Backup fingerprint database**

If you use the Bioprint for file encryption, we recommend that you use this function to backup the registered fingerprint data to a safe place. When your fingerprint information can not be used, which is damage or loss caused by the encrypted documents for any reason, you can recover the already backup fingerprint database back to the system, so that you will not suffer any loss because the encrypted documents can't be used.

Select the backup fingerprint database, the windows will appear a dialogue box, as shown in the following figure:



Input the name of the backup file, select the security file path, click "Open" button to save it. A dialog as following will appear:



Set your password(Do not forget this password!), for encryption of the fingerprint database backup, input the password, click "OK" button.



Click" OK", finish the backup of fingerprint database.

Strongly recommend that you use this function to backup your fingerprint data.

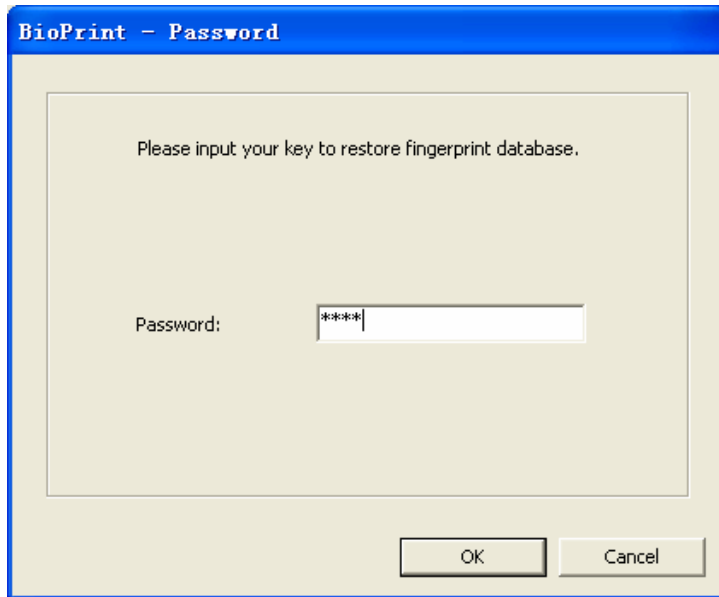
- **Recover fingerprint database**

When your fingerprint information is damage or loss due to any reason, this fuction will help you to recover your fingerprint data.

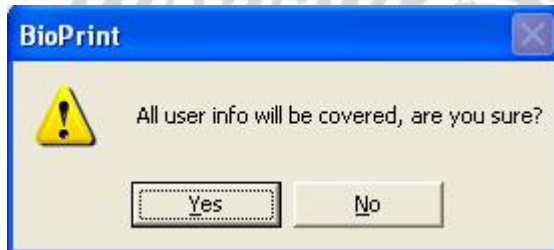
Select recover fingerprint database, A dialog as following will appear:



Select the fingerprint database backup document, click "Open" button, see the following figure:



Input the password which was setting when backup, click "OK".



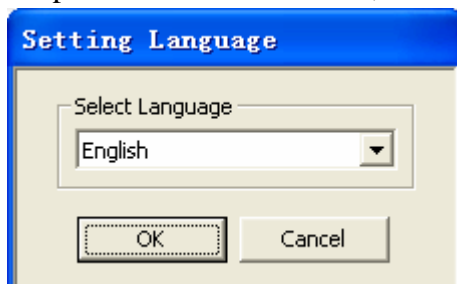
Click "Yes".



After click "OK", just operate as the first time you were log in.

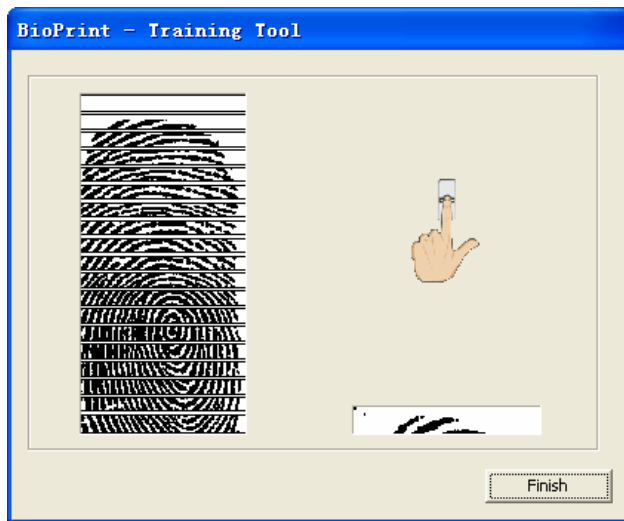
● Setting language

Use the pull-down menu to select the language: only 4 languages are available, namely, simplified Indonesian, Chinese, traditional Chinese and English.



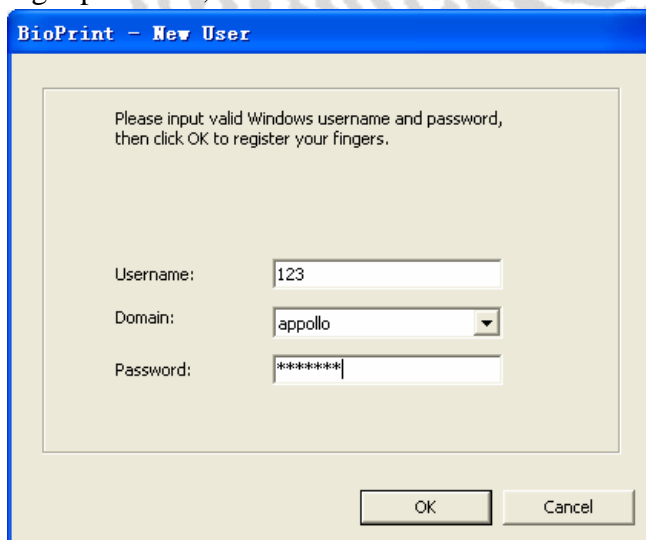
• Training tool

Use the exercise tool to practice how to slide the finger to get an optimized fingerprint pattern.



• Add user

This product supports the operation with multiple users. When different user uses his fingerprint to log in the Windows, the system will enter into the corresponding user interface according to the detected fingerprint information. Of course you need to set for each user and Add User can provide such a function. After "Add User" is selected, the system will enter into the interface for new user registration. Input the new username, select the domain (system defaulted), input the corresponding Windows login password, then click "OK".

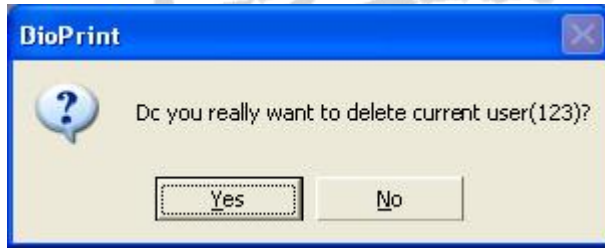


Note: To use Add User, please first confirm whether the computer has multiple users and the corresponding passwords have been set. Otherwise will shows as follow:



- **Delete user**

To delete the current user, please make confirmation first before deletion.



Note: Please operate this function with caution: if the current user is deleted, the virtual disk, web link, secure notepad and other personal information will be deleted and can't be recovered, and the encrypted files can't be decrypted. When all the documents and documents file are being encrypted, please make sure all the fingerprint registration information has be backup.

- **Log off**

The current user will log off, but the application software is still running.

- **About**

It is used to display the information on software version.

- **Exit**

Exit the application software, if you want to run it again, double-click the icon



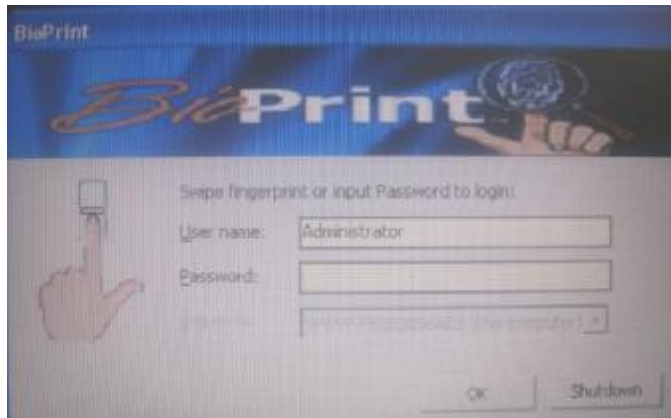
on the desktop.

8. Operation Instructions

The following section will describe the operation instructions on how to utilize the functions provided by the product.

■ Automatic login for Windows

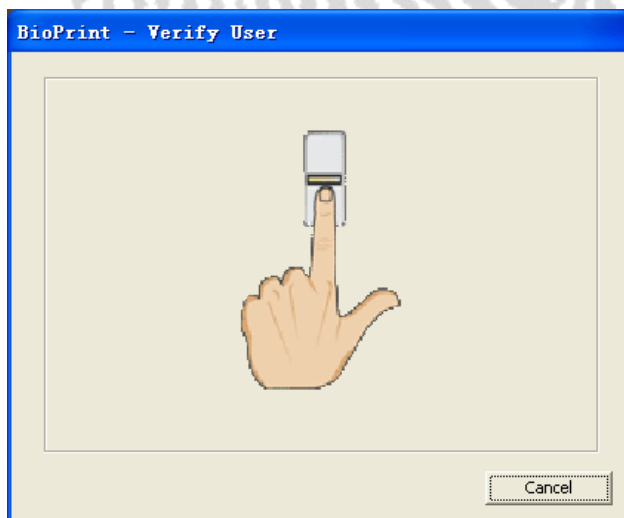
1) Correctly connect the Fingerprint Reader to USB port of the computer
Start the computer, then the system will enter into the Windows login interface, as shown in the following figure:




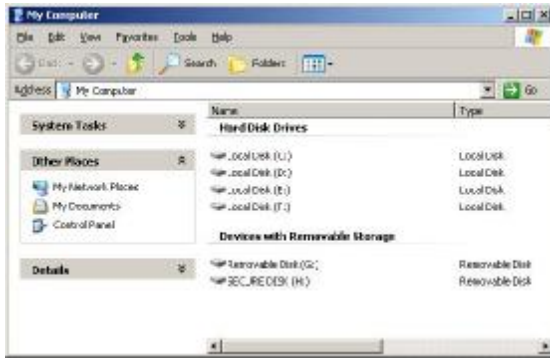
- 2) Slide your finger in the way as shown in the figure. After the fingerprint is matched, the system will automatically log in the Windows desktop.
- 3) Click Password in the dialogue box, the window for inputting the password will appear. Thus you can also log in the system by inputting the password.


■ Use the fingerprint encrypted disk

- 1) After the computer is started, the system will automatically run the application software. Then the window for authenticating the fingerprint will appear, as shown in the following figure:







- 2) Slide your finger in the correct way as mentioned above. Once the fingerprint is matched, the main menu will appear at the right bottom corner of the screen. At the time, the login icon  will appear at the right bottom corner of the screen, which is located in the taskbar.
- 3) You also can pass the authentication by inputting the password. Just click the button Password in the window.
- 4) Double-click "My Computer", you will see the disk label "Secure Disk", which is the fingerprint encrypted disk. You can conduct different operations through this encrypted disk, just like you operate other regular disk partitions.



- 5) If you need to leave the fingerprint encrypted disk, you can select:
 - a) Unplug the Fingerprint Reader;
 - b) Move the cursor to the registered icon , click the right button, then select log off or Exit in the popped shortcut menu.
- 6) The icon for fingerprint encrypted disk disappears.
- 7) Make sure all files, being operated before you leave the fingerprint encrypted disk, are closed.

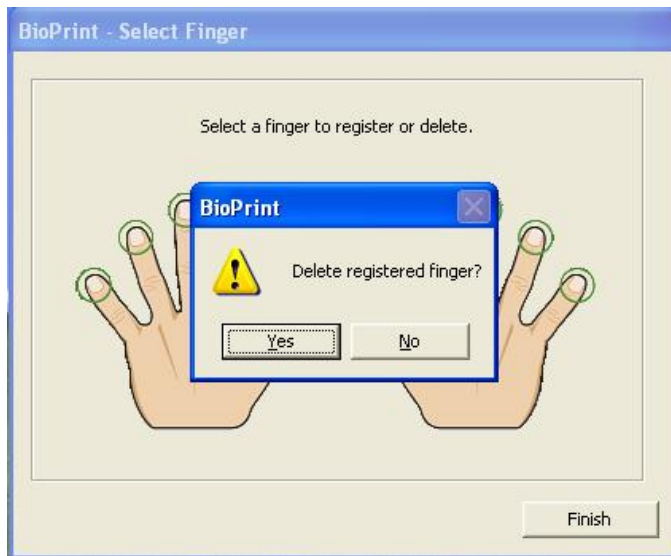
■ Open the main menu

- 1) Make sure the Fingerprint Reader has been correctly connected, double-click the icon  on the desktop. After the authenticating window appears, slide your finger correctly. Once authenticated, the main menu will automatically appear on the right bottom corner of the screen.
- 2) If the Fingerprint Reader is in login state, use the left button of the mouse to click the icon  at the right bottom corner to open the main menu.
- 3) If the Fingerprint Reader is not in login state, click the icon  at the lower right corner to open the authenticating window. Once the fingerprint is matched, the main menu will automatically appear.
- 4) If the state icon for the Fingerprint Reader is displayed as , it means you have not correctly connected the Fingerprint Reader to the computer. You need to connect it again.

■ Register more fingerprints and deleting registered fingerprints

- 1) Open the main menu, select Registering Finger. This option allows you to register more fingers so as to facilitate your operation. For registration methods and procedures, please refer to the section “Registering Fingerprint Information”

2) If you want to delete the registered fingerprint, you can click the registered finger on the screen. Once confirmed, the registered fingerprint information will be deleted. The related interface is shown as follows:

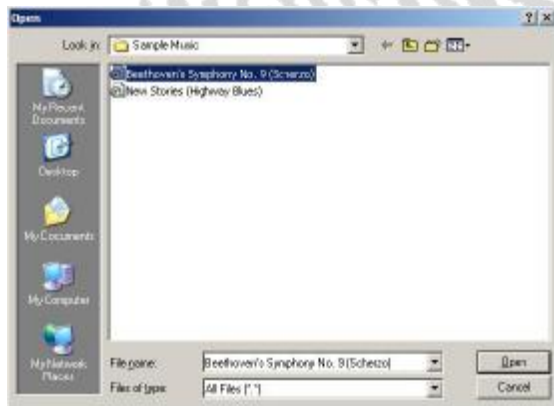


3) The last fingerprint can't be deleted.

■ Encrypt/decrypt a file/folder

Encrypt a file

1) Open the main menu, select Confidential File. To open a Windows file, select the dialogue box as follows:



2) To encrypt a file, please select the file and click the button “Open”.

Note: Please terminate the operation for the file before encryption. Otherwise, the file may be damaged.

After clicking the button “Open”, the progress bar for “Encrypting***(filename)” will appear as below:



encrypting.....

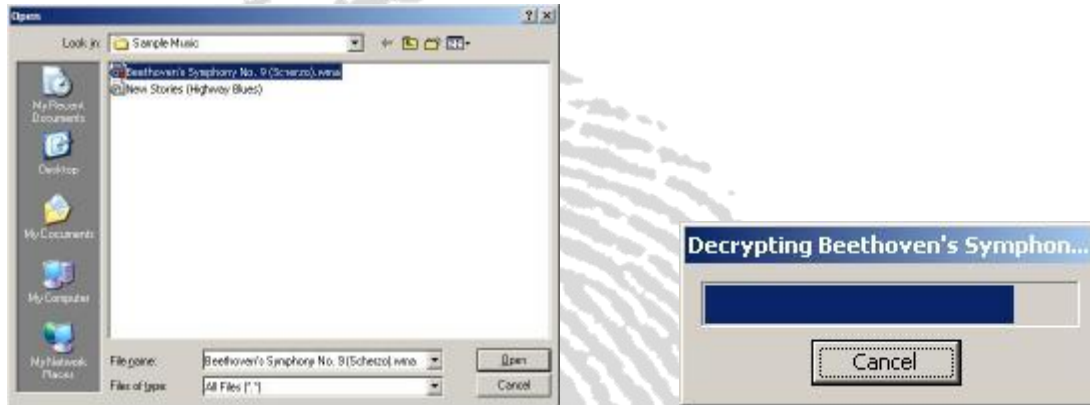
3) Once the encryption process is completed, the progress bar will automatically



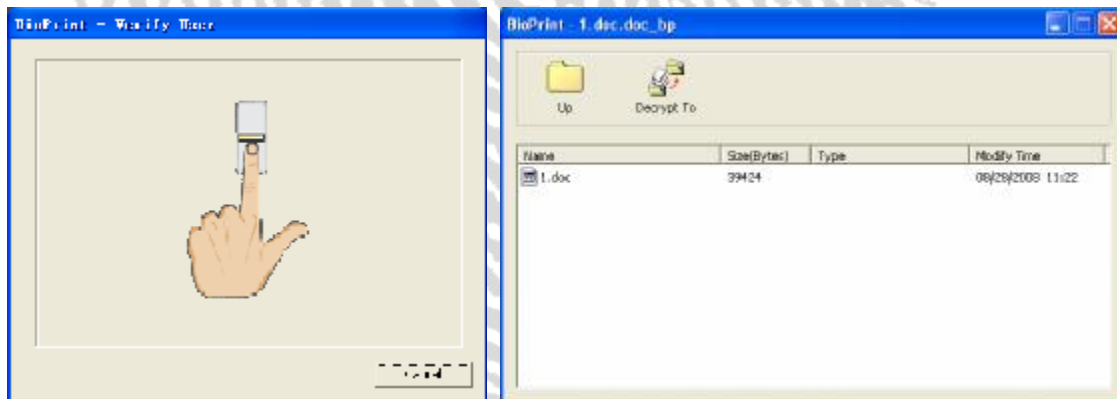
disappear. Encrypted documents will increase in a lock, such as

Decrypt a file

1) To decrypt a file, please select Confidential File in the man menu. To open a Windows file, select the dialogue box as follows:



2) After selected the file you want to decrypt, the window for fingerprint authenticating will appear.

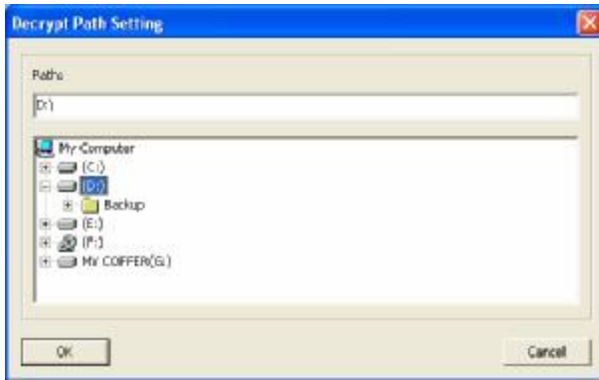


Authenticating user...

After authenticated, the window for derypted Will appear.

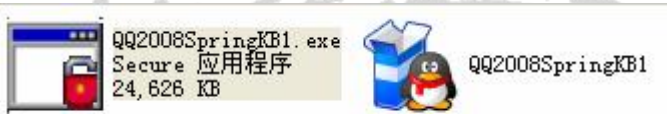


Click Decrypt To button, (as follow picture)



Set decrypt document path

Decrypting...



When decrypt is finish.

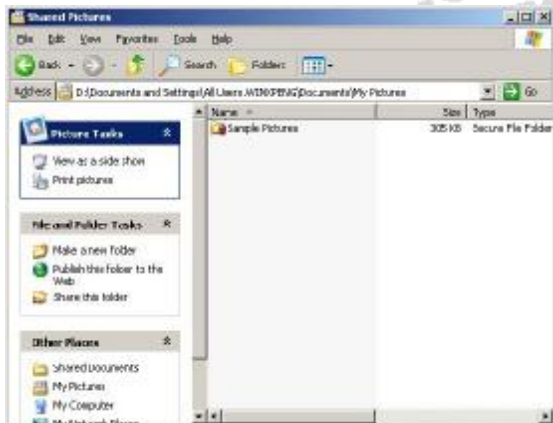
Use the right mouse button to encrypt/decrypt

Apart from using the main menu, you can also use the right mouse button to encrypt the selected file/folder. The procedures are as follows:

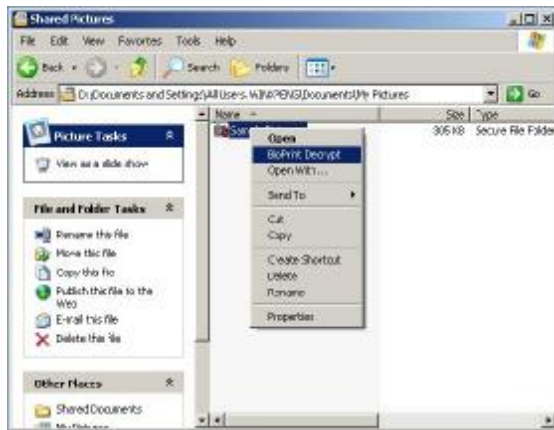
1) In My Computer, select the file/folder you want to encrypt. Click the right mouse button, select "BioPrint Encrypt", then the encrypting process will start.



2) A lock will be added onto the encrypted file or folder for distinguishing.



3) Decrypt the file: Select the file/folder you want to decrypt, click the right mouse button, select “BioPrint Decrypt”, the program will automatically execute the decrypting process.



Note: In the process of encrypting/decrypting the file/folder through the right mouse button, please make sure the Fingerprint Reader has been correctly connected to the computer and is in login state.

■ Automatic logging in web pages

This function is to help the user to fast log in the web pages. For some web pages, such as the charged email box, forum or charged website, etc., the user needs to input his ID or password to access to the information. Then the user has to remember a lot of passwords and IDs, which can also be easily forgotten. Through this function, the user can log in the web pages by authenticating his fingerprint. The process of authenticating his fingerprint replaces the process for inputting the password/ID as formerly used. After the fingerprint is authenticated, the fingerprint lock will automatically fill the user’s password/ID into the corresponding columns. Therefore, the user doesn’t need to remember the password for logging in the web pages.

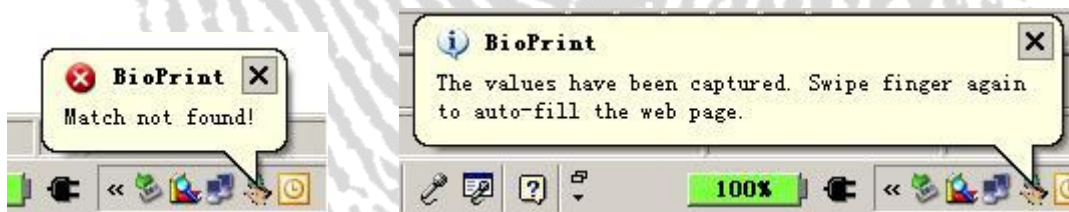
1) Enter into the web page



2) Move the cursor to the columns that require inputting the username and password. The system will remind the user by displaying the words “swipe finger to save or auto fill web data”. Then you need to input the effective password and ID.



3) Slide your finger in the correct way as instructed in “Precautions”. If not in the correct way, the system will remind you “Match Not Found”. You may adjust the sliding to try again, till the words “The values have been captured, Swipe finger again to auto-fill the web page” appears at the lower right corner of the screen.



If you forget to input the username and password, the system will remind you of inputting them.



After registration, you can log in the web pages by your finger. If you slide your finger correctly, a dialog “Match found” appeared.



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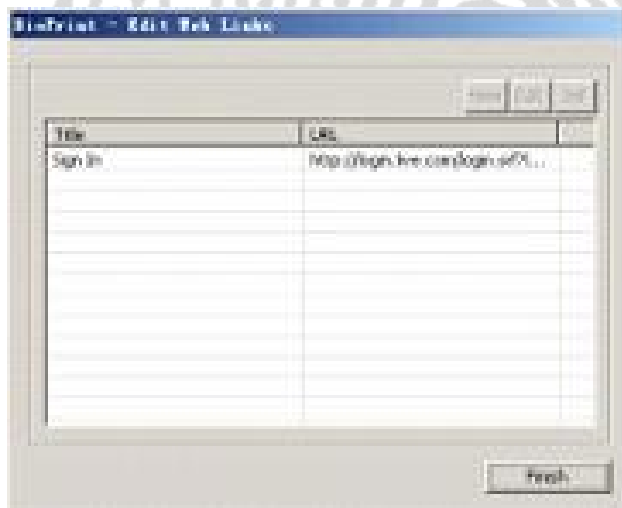
Two ways are available for you to easily use the function of automatically logging in the web pages:

- 1) Directly open the web page you want to log in, directly slide your finger on the Fingerprint Reader, the system will automatically fill the username and password and go to the next page.
- 2) Use the main menu: click “Web Link” on the main menu, select the title of the website.

Click “View” to log in the website. The software will automatically fill in the username and password and confirm them.

Click “Edit” to modify the username/password.

Click “Delete” to delete the linked information.



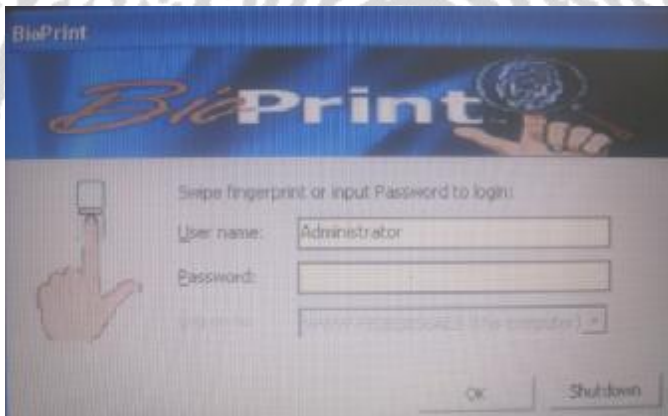
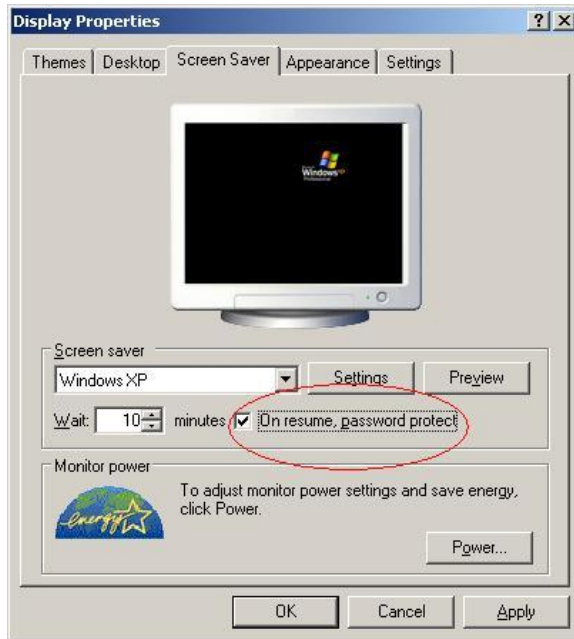
■Use the screensaver lock

1) Open Property in “Control Panel”, select “Screen Savers”, as shown in the following figure:

2) In the pull-down menu, select the screen saver you want, and select “Use Password to Protect When Recovered”, as shown in the red ring of the following figure.

3) Select “Apply” or directly click “OK” to exit the “Display Properties” window.

4) When the screen saver is recovered, the system will pop up the automatic login window, as shown in the figure: to recover from the screen saver state, you need to match your fingerprint. Of course you can also use the password to log in.



■ Use Secure Notepad

- 1) Open the main menu; select the option “Secure Notepad”.
- 2) The “Secure Notepad” window appears, then input your information, as shown in the following figure:
- 3) After inputting, click “Save”
- 4) Click Close to “Exit”.

