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Safety precautions

The list below is to keep user's safety and prevent any loss. Please read carefully before use.



Do not install the device in a place subject to direct sun light, humidity, dust or soot.



Be careful not to let liquid like water, drinks or chemicals leak inside the device.



Do not place a magnet near the pr oduct. Magnetic objects such as magnet, CRT, TV, monitor or spe aker may damage the device.



Clean the device often to remove dust on it.



Do not place the device next to heating equipments.



In cleaning, do not splash water on the device but wipe it out with smooth cloth or towel.





Safety precautions

The list below is to keep user's safety and prevent any loss. Please read carefully before use.



Do not drop the device.

Do not let children touch the

device without supervision.



Do not damage the device.



Do not use the device for any other purpose than specified.



Do not disassemble, repair or alter the device.



Contact your nearest dealer in case of a trouble or problem.





Basics of fingerprint recognition

What is fingerprint recognition?

- Fingerprint is an individual's own biometric information and does not change throughout his/her life. Fingerprint recognition is a technology that verifies or identifies an individual using such fingerprint information
- Free from the risk of theft or loss, fingerprint recognition technology is being widely used in security systems replacing PIN or cards.

Process of fingerprint recognition

- Fingerprint consists of ridges and valleys. Ridge is a flow of protruding skin in a fingerprint while valley is a hollow between two ridges. Each individual has different pattern of ridges and valleys and finger recognition makes use of such originality and uniqueness of these patterns.
- Fingerprint sensor generates 2-dimentional fingerprint image using different technology. According to the sensing technology, fingerprint sensors are classified into optical, capacitive, or thermal.
- Fingerprint template is a collection of numeric data representing the features of a fingerprint. Fingerprint templates are saved inside the memory of BioStation and used for identification.

Secure way to protect personal information

• To avoid privacy concern, Suprema's fingerprint products do not save fingerprint images itself. It is impossible to reconstruct a fingerprint image from a fingerprint template which is just numeric data of the features of a fingerprint.





How to place a finger

<u>Suprema's fingerprint products show an outstanding recognition performance regardless of the user's fingerprint skin condition or the way of fingerprint positioning. However, following tips are recommended to get more optimal fingerprint recognition performance.</u>

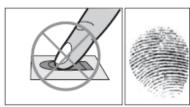
Select a finger to enroll

- It is recommended to use an index finger or a middle finger.
- Thumb, ring or little finger is relatively more difficult to place in a correct position.

How to place a finger on a sensor

- Place a finger such that it completely covers the sensor area with maximum contact.
- Place core part of a fingerprint to the center of a sensor.
 - People tend to place upper part of a finger.
 - The core of a fingerprint is a center where the spiral of ridges is dense.
 - Usually core of fingerprint is the opposite side of the lower part of a nail.
 - Place a finger such that the bottom end of a nail is located at the center of a sensor.
- If a finger is placed as in the right picture, only a small area of a finger is captured. So it is recommended to place a finger as shown in the left picture.









How to place a finger

Tips for different fingerprint conditions

- Suprema's fingerprint products are designed to scan fingerprint smoothly regardless of the
 conditions of a finger skin. However, in case a fingerprint is not read well on the sensor, please
 refer to the followings tips.
 - If a finger is stained with sweat or water, scan after wiping moisture off.
 - If a finger is covered with dust or impurities, scan after wiping them off.
 - If a finger is way too dry, place after blowing warm breath on the finger tip.

Tips for fingerprint enrollment

- In fingerprint recognition, enrollment process is very important. When enrolling a fingerprint, please try to place a finger correctly with care.
- In case of low acceptance ratio, the following actions are recommended.
 - Delete the enrolled fingerprint and re-enroll the finger.
 - Enroll the same fingerprint additionally.
 - Try another finger if a finger is not easy to enroll due to scar or worn-out.
- For the case when an enrolled fingerprint cannot be used due to injury or holding a baggage, it is recommended to enroll more than two fingers per user.





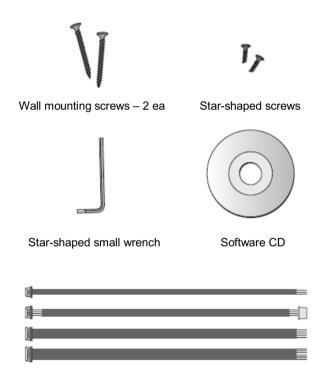
Product Contents

Basic Contents



BioEntry Plus

Wall-mounting metal bracket



3 pin, 4 pin, 5 pin, 7 pin cables - each 1 ea

8





Product Contents

Optional accessories



Secure I/O



12V power adaptor



Plastic stand



USB fingerprint scanner for enrollment on PC





Front Side

Front



- F RF card reading part
 Place an RF card over the picture
 - LED

 Display current status using seven different colors
 - Fingerprint sensing part

 Place a finger on a sensor surface

LED Status per Color

- Green: Authorization Success
- Red : Authorization Fail
- Pink : On Processing
- Flicker Blue/Sky-Blue Color per 2sec : Normal
- Flicker Red/Pink Color per 2sec : Locked
- Flicker Blue/Red Color per 2sec : Initialized Time due to the Internal Battery Discharge
- Flicker Blue/Yellow Color per 2sec : DHCP Fail
- Flicker Red Color per 2sec : Failed. Please contact to your distributor or Suprema
- Flicker Yellow Color per 2sec : Waiting Input
- Flicker Yellow Color per 1sec : Receiving IP Address from DHCP server





Bottom and Back Side

Bottom



Back

