

# User Manual

## 1 Preface

Thank you for purchasing finger vein identification private box. Please read this manual carefully before use and keep it properly after reading. Next, we will explain how to use the private box.

### 1.1 Notes about safty.

- This product is suitable for indoor environment. Please avoid using it in outdoor or harsh environment. (For example, it is not suitable for use in kitchens and washrooms.)
- This product does not guarantee waterproof and fireproof performance.
- This product is suitable for general service use. This product is not suitable for use with high reliability requirements that may affect the safety of life and property. If it is used for these purposes, we will not be responsible for the consequences. (For example, it is not suitable for keeping chemicals and medical devices.)
- Do not disassemble and modify the product, otherwise it may cause failure.

• **Do not put the spare key into the box under any circumstances!**

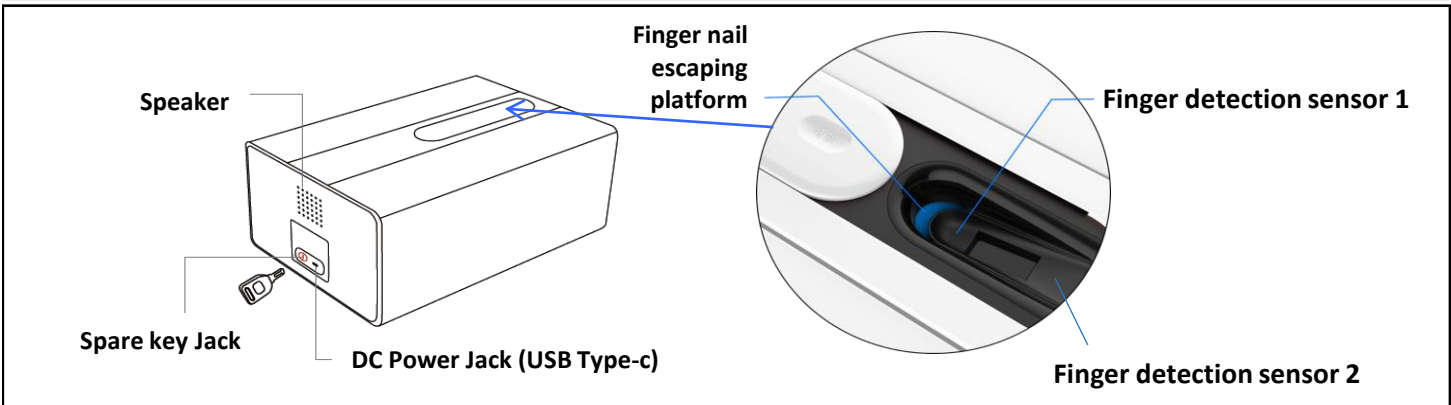
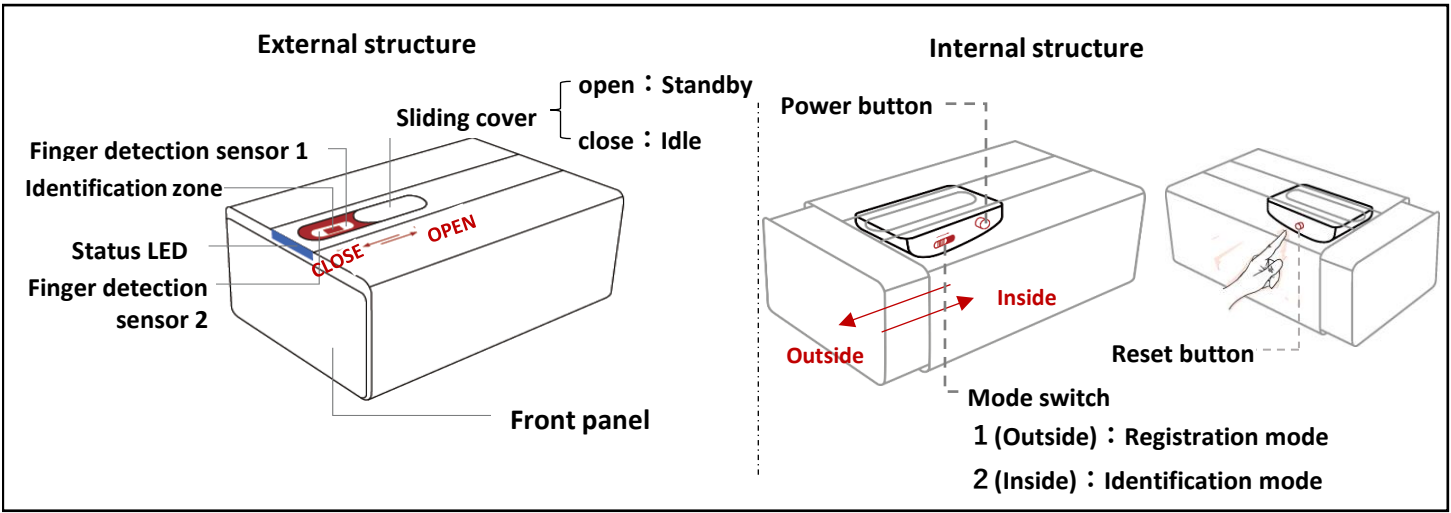
**Otherwise, it may not be able to open the box in extreme cases** (while the power button is not pressed and the finger vein is not registered).

### 1.2 Package list

BOX.....	1
Spare key.....	2
Charging Cable (USB Type-C) .....	1
Manual.....	1

Status list (LED) :	
■ (R):	Identification fail
■ (G):	Identification pass
■ (Y):	Battery charging (Lighting)
	Low voltage warning (flickering)
■ (B):	Standby

## 2 Product structure and function description



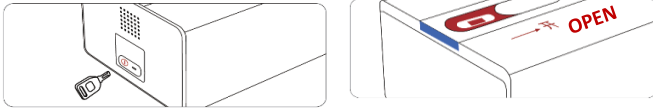
## 3 Hardware parameters

Product Name	Finger Vein Identification Private BOX	Input(charging/Emergency power supply)	DC 5V, 1A or More (USB Type-C)
Model	PB-FV01	Battery capacity (mAh)	4400 (Lithium battery)
		Standby time (days)	≥90

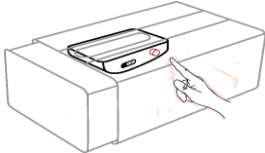
Applicable Finger Width (mm)	10~25	Use Environment	Temperature	0 ~ 4 0 °C
Number of registrable samples	≤200 Fingers (1 finger/time)		Humidity	30 ~ 8 0 %Rh (No frosting)
Product size (mm)	412(L)*290(W)*181(H)	Storage and transportation Environment	Temperature	- 1 0 ~ 6 0 °C
Net weight (kg)	11kg		Humidity	20 ~ 9 0 %Rh (No frosting)

#### 4 Operation steps

Step1: After unpacking, please open the door with the spare key and open the sliding cover.

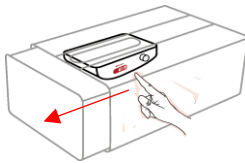


Step2: Press the power button. (POWER ON)

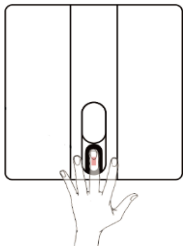


Step3: Turn the Mode Switch to the outside . (Registration Mode)

※In Registration Mode, the door cannot be closed.



Step3: Register Finger vein samples.



①Open your hands.

②Select a finger.

The index finger or middle finger is preferred.

③Straighten the finger naturally.

No muscle tension!

④The fingertip and finger foot are attached to two sensors respectively.

⑤The registration starts while both sensors sense finger. if the registration is successful, a voice prompt will be triggered as below:

"one registration is completed, please reposition your finger, register more than 5 times for one finger."

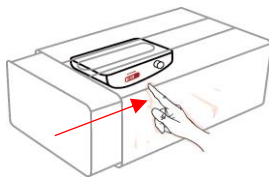
⑥Repeat step ⑤.

**One finger** should be registered more than **5 times**.

**One user** should register more than **2 fingers**.

Step 4 : Turn the Mode Switch to the inside . (Recognition Mode)

※In Recognition Mode, the door can be closed.



Step5: Close the door and start to use the BOX.

#### 5 Supplementary notes

- Finger bending and muscle tension are easy to lead to recognition failure, so it is very important to relax and straighten fingers naturally.
- A vibration(pounding, carrying...)sensor is embeded. An alarm will be triggered while a vibration is sensed. The alarm lasts for 20 seconds. We can stop the alarm with a successful finger vein identification.
- If the door is not closed within one minute after opening, the alarm of "beep - beep -" will be triggered. The alarm will last for one minute unless we close the door.
- **All the finger vein samples will be cleared if we keep pressing the reset button for 6 seconds !**  
At the same time, the voice prompt "all the finger vein samples have been cleared, please register finger vein samples again." will be triggered.
- After recognition, sometimes we can hear a sound like"da-da-da-", don't worry about it !  
This is the retry action of unlocking, and it is a normal phenomenon.
- This product conforms to the ROHS standard.

## 6 FCC Warning

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.