



KFV-100

Finger Vein Authentication System

Operating Manual

FCC ID : XT9KFV-100



KICsystems

Before Using

Thanks for your making purchase our finger veins authentication machine.

This manual will explain you how to use efficiently the finger veins authentication machine KFV-100.

This manual also include a brief introduce, a component of system, procedure to use, how to install, troubles that occurs on using & solutions to solve them and instructions to operate the system KFV-100.

Please use with better understanding about matters that demand special attention this system after reading this operating manual And also please ask to distributor for your help if you need a extension or a maintenance of this system.

And also please ask to a distributor of KIC system or customer support entrance (veinid@veinid.co.kr) if you want to get information, exchanging, or any kinds of support and services.

Before Using

CAUTION ! PLEASE READ CAREFULLY

This device under provision section 15.21 of FCC Rule Part 15 that changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment.

The user and installer should completely read the User Manual, and the caution before installing and operating this system. Not reading the manuals completely may result in injury or damage to the user(s), installer(s), importer(s). Installation and use of this system is acknowledgment that the user and installer have fully read the manuals and identify **KIC SYSTEM CO.,LTD. from any injuries or damages resulting from wrong use and/or installation of our system. Please take the following minimum precautions**

And also this device under provision section 15.203 of FCC Rule Part 15 that intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that user a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Matters that demand special attention

● Problems And Solutions to Solve on Personal Authentication

- **In Case of Continual Fail on Personal Authentication**

- This person has to enroll again his finger vein.
- This problem comes different current vein location from enrolled position.

- **In Case of Installing on an Iron Frame**

- Please ask to a commercial agent of KIC systems, because system may get out of order by a leakage of electricity or a short circuit.
- Trained technician will support to install the system.

- **In Case of Entrance a Material or Dust to Sensor Module**

- Please remove a material or dust on window of module with soft dry cloth.

Matters that demand special attention

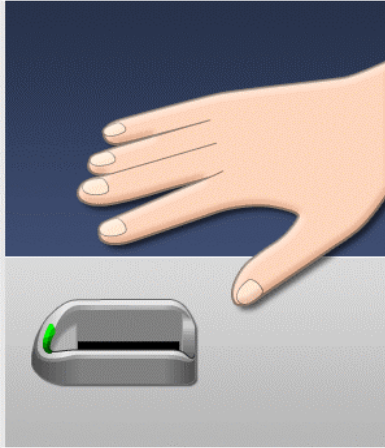
Matters that Demand Special Attention to Use

- Careful attention must be paid to system because a strong impact or vibration may be caused by out of order.
- Please install the system where don't affect by direct sun-light
If you use system under state of smoky or strange-smelling state, may cause a fire or get an electric shock. In case of above immediately have to break electric-circuit, and ask for consult to agent of KIC systems.
- Please don't disassemble, repair, reconstruction at discretion.
- Please don't install in a moist or a dusty or a splashed place, there are a danger of an electric shock or a fire.
- Don't wipe with benzene, alcohol, thinner and don't clean spray with water.
- Don't insert a chopsticks or wire or a drill, there are a danger of an electric shock or a fire.



Enrollment / Identification Process

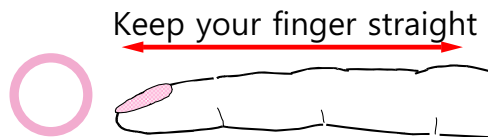
Getting Ready.



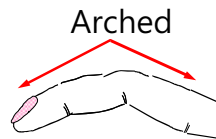
POINT Place the Palm Facing to the Device.

The biometric data will be incorrectly captured if 1) the other side of finger is presented or 2) the finger is rotated.

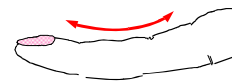
POINT Make Your Finger Straight.



If the finger is arched or bended backwards, the enrollment/identification process will fail.



Bended backwards

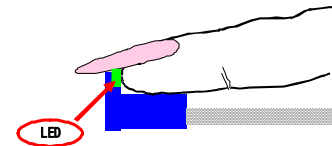


Enrollment / Identification Process

- Set the Fingertip on the Base.



POINT Set Finger to the Proper Position.

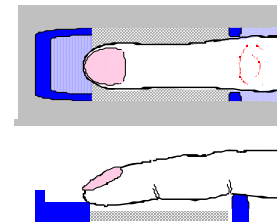
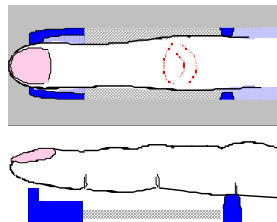


Those who have long nails must put the nail over the LED as shown above.

Place the Fingertip on the Guide in Front of the Blinking LED.

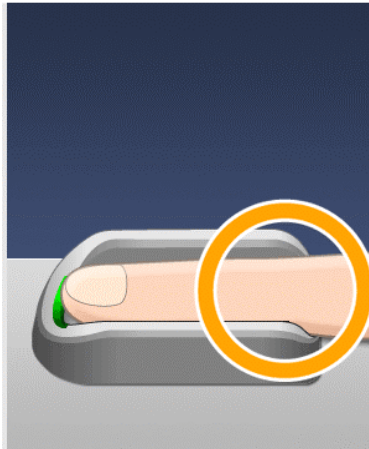


If the finger is placed improperly, the enrollment/identification process will fail



Enrollment / Identification Process

● Scan the Finger Vein Pattern.



POINT Do Not Move your Finger Whilst Scanning.

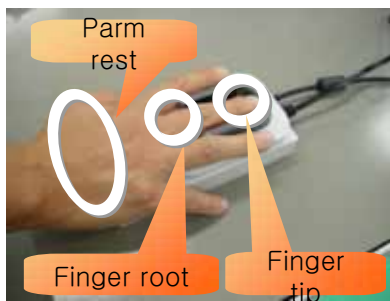
Do not move your finger until the guidance appears.

POINT Get Relaxed and Place Your Finger Lightly.

If the finger is highly tensioned, stretched or strongly pressed down to the device, the blood flow will be interrupted, which may result in the failure of the enrollment/identification process.

POINT Move Your Hand Away From the Device Each Time.

Once the process is finished, lift up your hand and set your finger again for the next process.



POINT During the Identification Process, Set Your Finger in the Same Manner You Set in the Enrollment Process.

Make sure to attach your finger to the fingertip base, the root base and the palm rest.

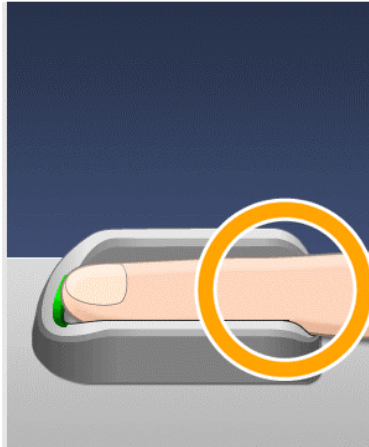
Set the finger in the same way as you set in the enrollment process. In case the position and angle of the finger is largely different, the identification process may fail.

POINT Take Off Gloves.

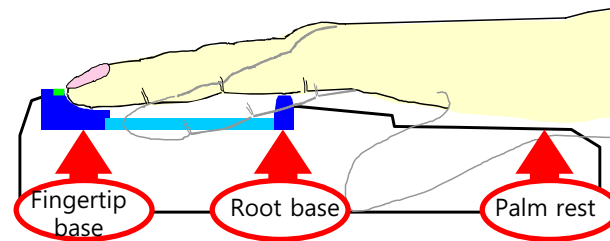
If objects such as gloves, bandages or adhesive tapes are presented, the enrollment/identification process will fail. Take off these objects before setting your finger. Do not put anything between your hand and the device.

Enrollment / Identification Process

- Set the Finger Root on the Base.

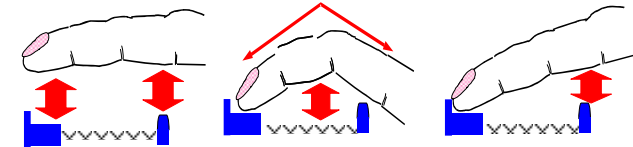


POINT Make Sure that Your Fingertip, Finger Root and Palm are All Attached Properly to the Device.

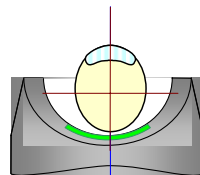
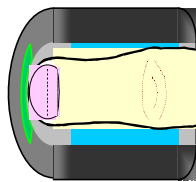


Attach Each Point

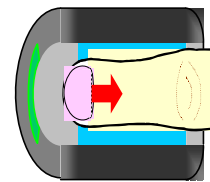
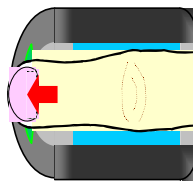
CAUTION All these three parts must be attached to device. Otherwise, the enrollment / identification process will fail.



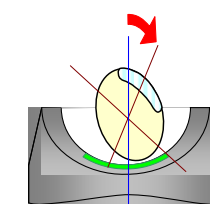
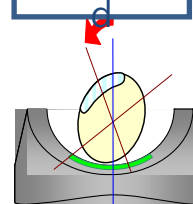
Success



Shifted



Rotate



Section Name



Customer Support

Don't disassemble system for repair or extension

Please ask to the KIC system or commercial agent or customer support center

They will provide you useful information as like followings

- support engineering
- support warranty
- help to use product under optimum condition

*** Service Charge**

1. In case of in good

- Please read operating manual in detail before asking to dispatch service engineer
- You may pay service charge if product is not out of order**

2. In case of out of order by customer's mistake

- A careless handling, repair, reconstruction at discretion
- repair by someone who don't identify by commercial agent or customer support center
- using parts that don't identified by customer support center

3. Others

- A natural disaster

Warranty card



Warranty Card

About Service

KIC Systems Co., Ltd. guarantee for our product by customer damage compensation rule as like followings.

- Please ask to agent purchased or customer service center.
- Please write down the purchasing data on warranty card.

Model name : KVV-100 (TOUCH COLOR) / KVV-100 (KEY)

Purchasing date : _____DY _____MT _____YR Serial No :

Agent :

Free of Charge

Warranty period is 1 year from purchasing data the product. We do free of charge service normal problems and functional errors by normal using within warranty period.

Contents		Guarantee	
		Within Warranty	Out of Warranty
Major problem within 10days from purchasing data		Change	---
Repair	3 times as same problem	Free of charge	Charge
Beyond repair	Have spare parts	Change	Charge(after depreciation)
	No spare parts	Change	Depreciation price * 10%

Memo



Memo



Questions and After Service

You have a trouble or a inconvenience to use product, please make contact to following contact point

- * Customer consulting department : 02-866-1188
- * After service : 02-866-1188 Fax:02-866-5012
- * Address : #1002 ACE Techno Tower III,
197-48 Guro-dong, Guro-gu, Seoul,
Korea, 152-779
- * Time : 9:00 am - 6:00 pm
- * Others : Asking about program and receiving A/S
- * Web site : <http://www.veinid.com>