MANUAL
WEBICS PALM

Before using the product, be sure to read this user manual and 'Safety Precautions' and use it correctly.

Keep this manual in a place where anyone who uses the product can see it at any time. The product warranty is included in this manual.

※The appearance and specifications of the product are subject to change without prior notice to improve product functions.

WEBICS
BIOMETRIC IOT SECURITY

Table of Contents

1. Precautions

1-1 Installation Precautions

1. Consult a professional for installation and repair of the product. If necessary, please contact our customer support team

2. Do not install or use the product in dusty or easily contaminated places. Dust or foreign substances may cause product failure or malfunction.

3. Do not install or use the product near devices that generate heat or moisture, such as air conditioners, heating appliances, and humidifiers, or where direct sunlight enters.

4. This product does not support the waterproof function. Be careful not to expose the product to moisture or get it wet.

5. Use this product for indoor use only.

6. Be sure to read the instruction manual to use the product correctly.

1-2 Safety Precautions

1. If the product makes an unfamiliar sound, smell or smoke, stop using it immediately and contact our customer support team.

2. Do not wipe the product with a wet towel or damp cloth. If moisture seeps into the product, it may cause fire, electric shock or malfunction. Wipe it with a soft, dry cloth.

3. Do not block the ventilation openings of the product. It may cause fire or malfunction.

4. Do not modify or disassemble the product. It may cause fire or malfunction.

5. Do not use chemicals such as thinner or acetone, chemicals, insecticides, etc., or rough cloths that may damage the exterior of the product.

2. Product Components

2-1 Components

WEBICS Palm main body
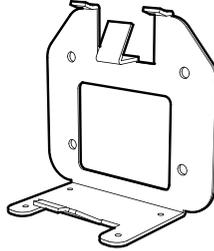
Mount Bracket
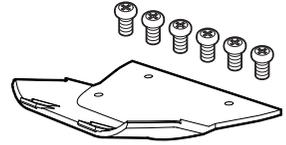
Bottom Cover Screw(6pcs)
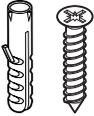
Mount Bracket Screw&
Anchor(4pcs each)
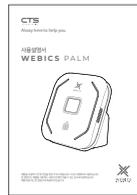
User Manual
(provided as PDF)

2-2 Sold separately (optional)

Palm Vein Register for PC

Card register
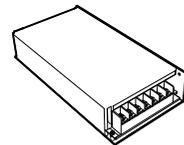
Power Supply (SMPS)

※ Product components are subject to change without prior notice due to product function improvement or product design change

2. Product Components

2-3 Safety Precautions

The following installation tools are used to install the product and are not provided as components.
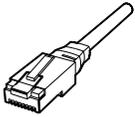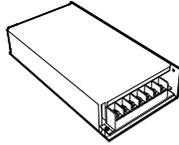
LAN cable   Power Supply (SMPS)   DC power cord   DC power cable
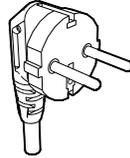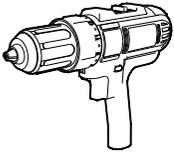
Electric drill   Drill bit   Cross-tip screwdriver   Screw anchor

- For DC cables (12V / 3A), use products with a wire length of 2 m or less.

- Check the allowable current for the power cord and power cable and use the appropriate product. DC power cord: AWG 20 or more / DC power cable: AWG 22 or more

- To make a hole on a brick or concrete wall, use a corded power drill and a concrete drill bit together.

- When fixing the product by drilling a hole on a brick or concrete wall, use a screw anchor to fix the screw.

3. Name & Function of each part

3-1 Product Front

LED

Vein sensor

RIFD sensor

3-2 Product Rear

Bracket

RJ45 Terminal

Relay Terminal(COM,NO,NC)

Power 12V DC terminal

04

4. Product Size

120mm

152mm

152mm

112mm

112mm
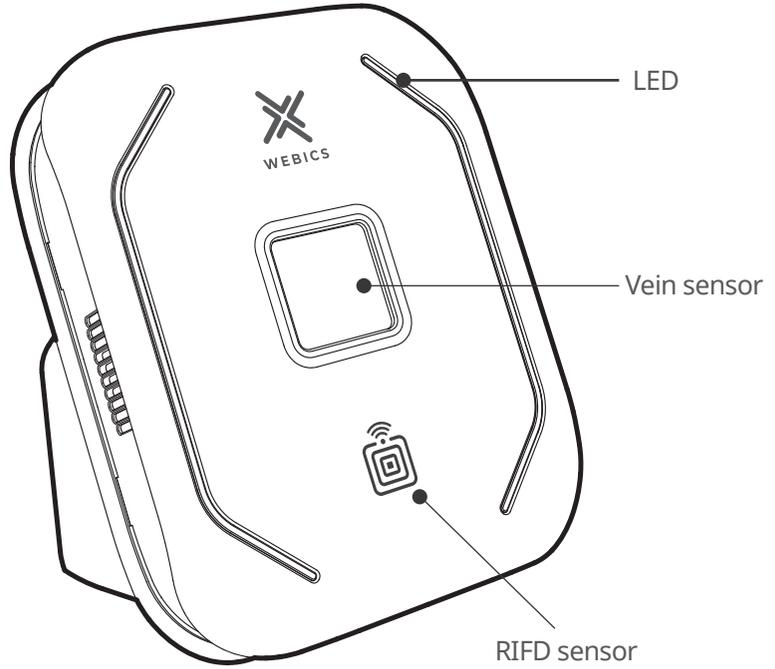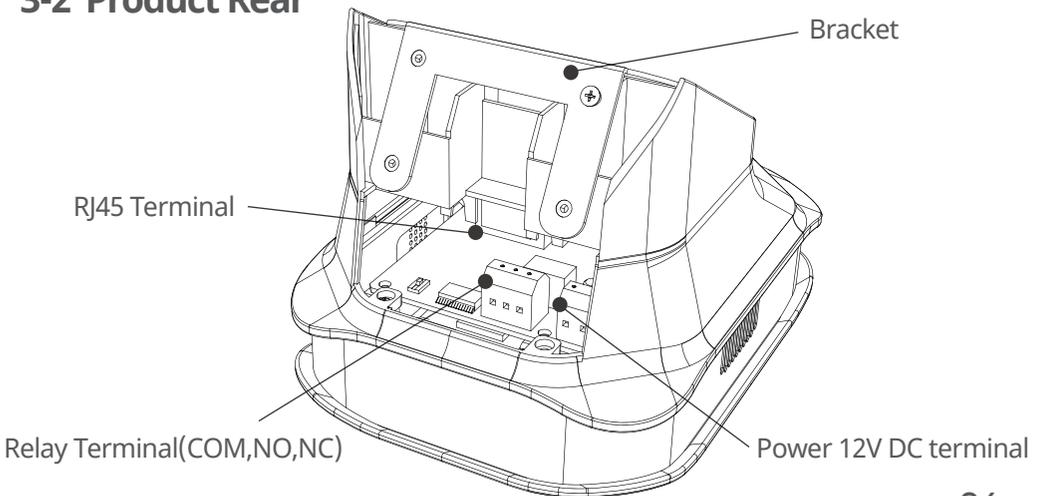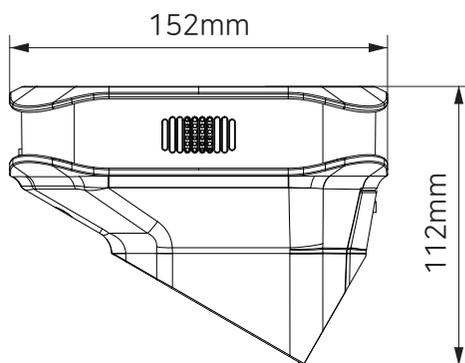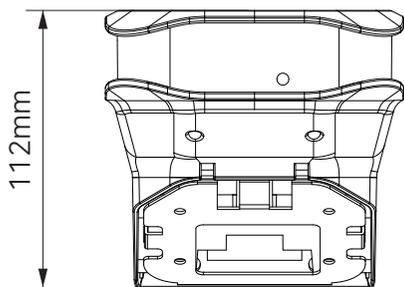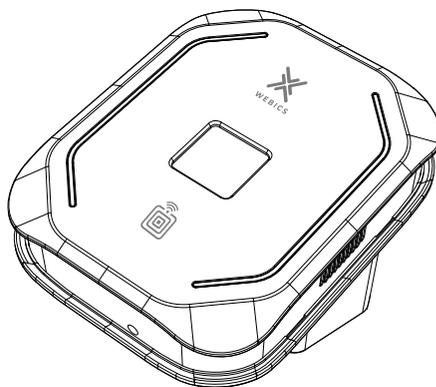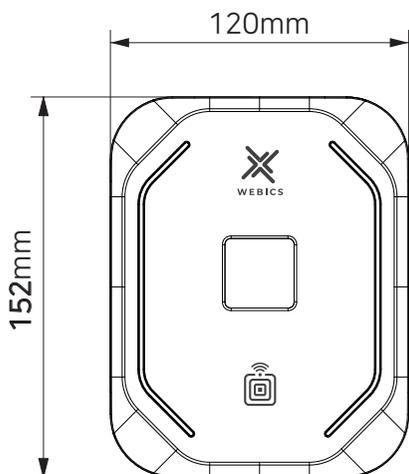
5. Installation Environment

5-1 Installation Location

- The proper height and distance for installation and use of the product depends on the user's average height and arm length.
- The recommended installation height of the product is 130 to 140 cm above the floor.
- The recommended distance to use is 40 to 50 cm from the user's body to the product.

130~140cm

40~50cm
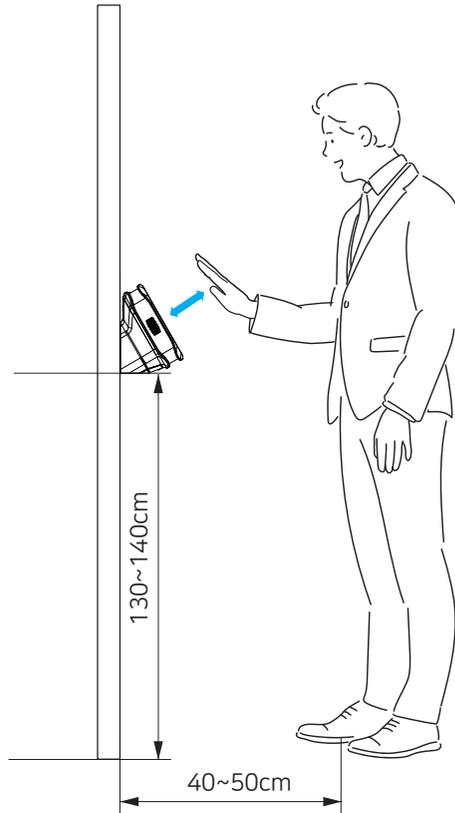
5-2 Cautions in use

- Install the product on a wall with a flat surface and perpendicular to the floor.
- Be sure to install the product indoors and out of direct sunlight.

6. Product installation

6-1 Bracket Installation

Install on a flat, hard wall

6-2 Power Connection

Power 12V DC terminal
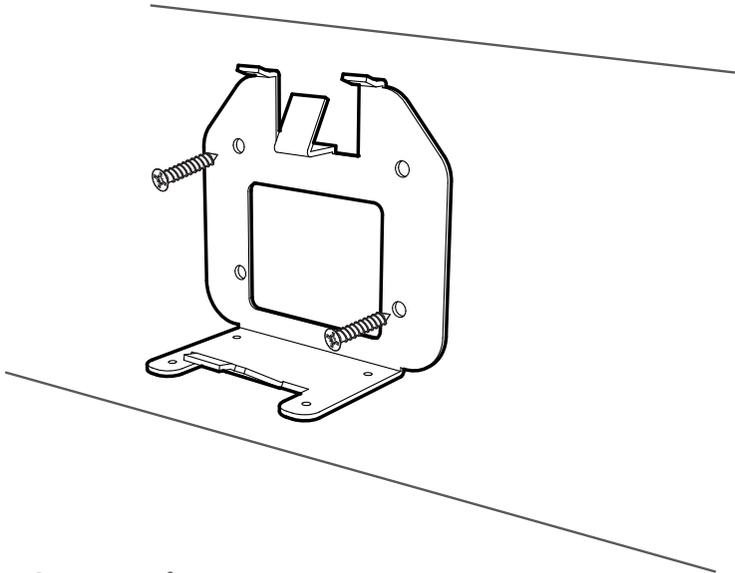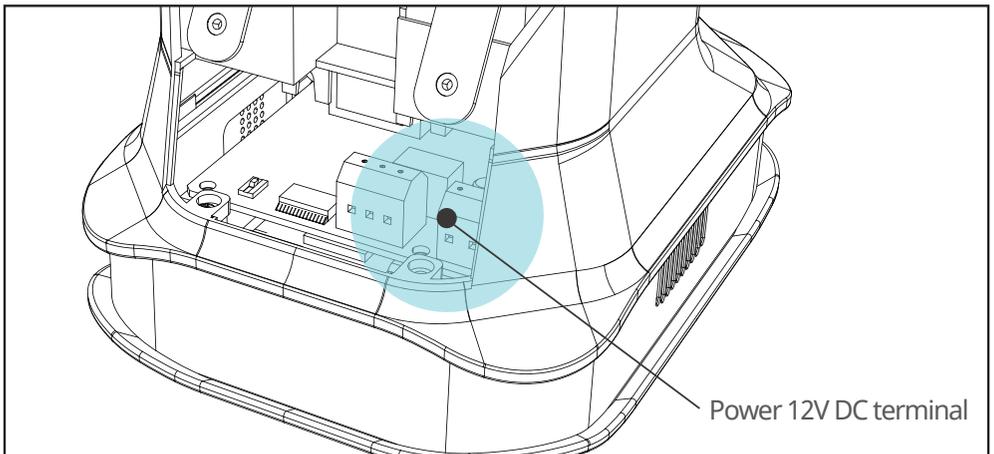
6-3 RJ45 Connection

RJ45 terminal
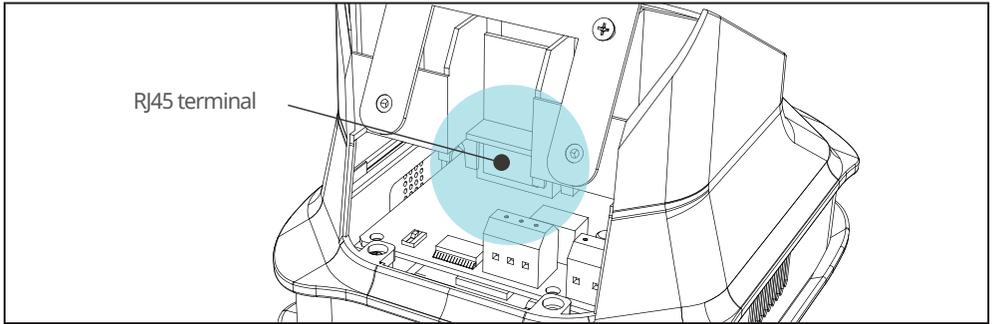
6-4 Relay terminal connection

Relay terminal

◉ **NO Connection**

COM   NO   NC

Deadbolt /
Door Strike

◉ **NC Connection**

COM   NO   NC

- +
DC
Power supply

+ -
Deadbolt /
Door Strike
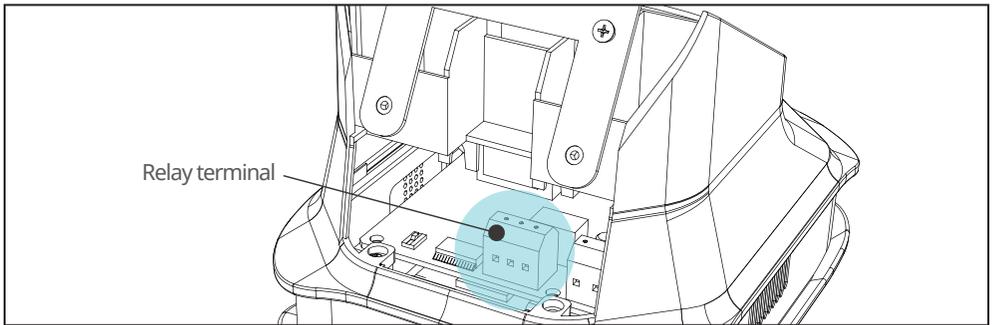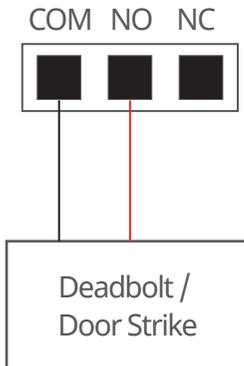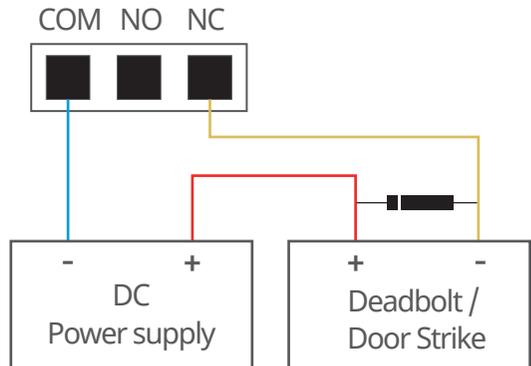
6-5 Fixing a product with the bracket

Fixing a product into three hooks
of the bracket
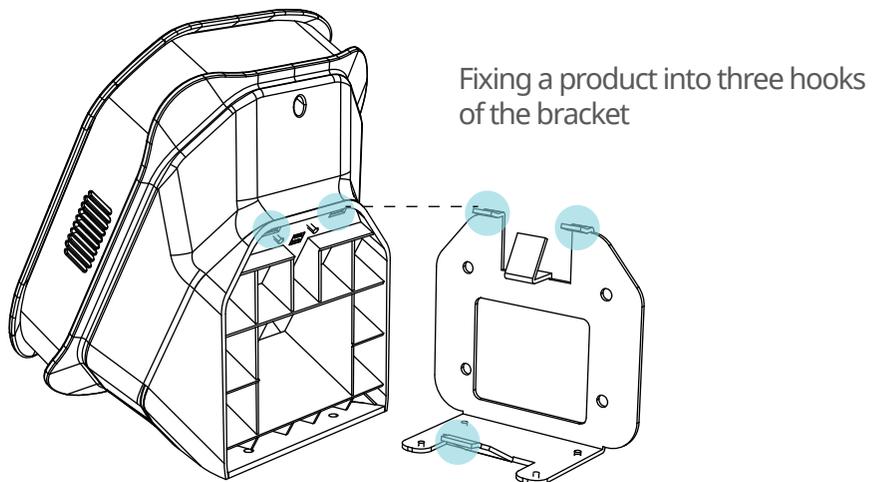
6-6 Fixing a product

After fixing the front of the lower cap,
fasten 4 screws
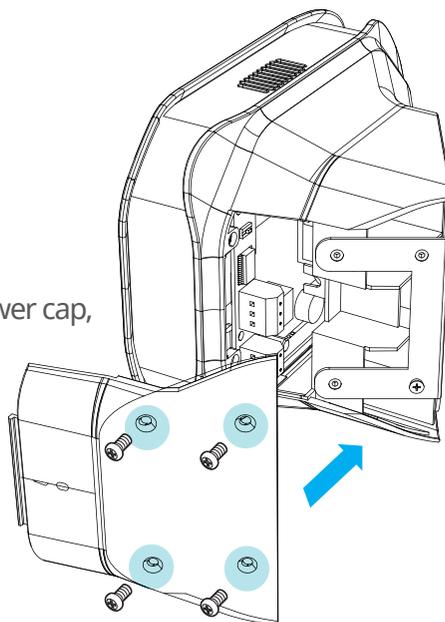
7. Managing Program

7-1 Program Download

1. Install and run the WEBICS ADMIN program using the link provided by the customer support team.

2. When the WEBICS login screen appears, log in with the appropriate ID and password to display the main screen.
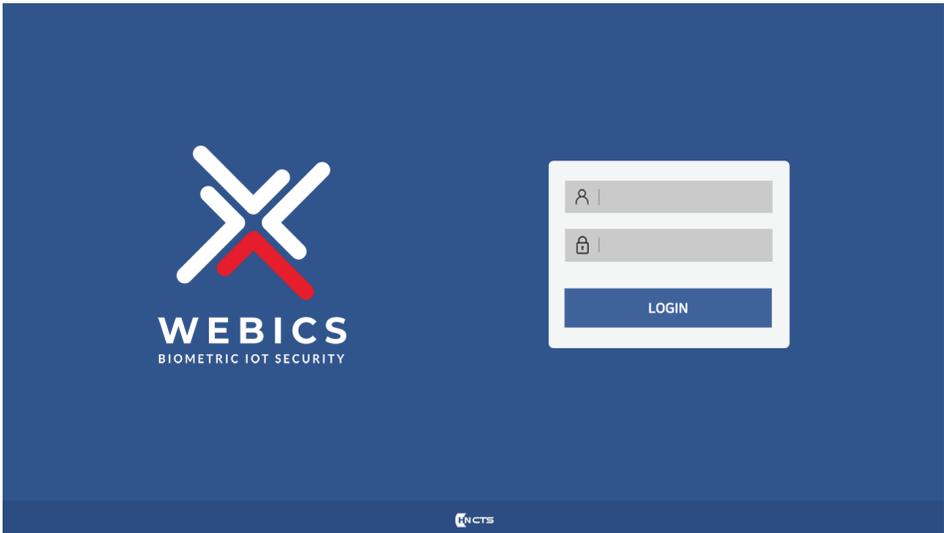
※ ID and password are provided by the Customer Support Center.

8. Device Registration

1. Select the Devices icon from the WEBICS ADMIN main screen.
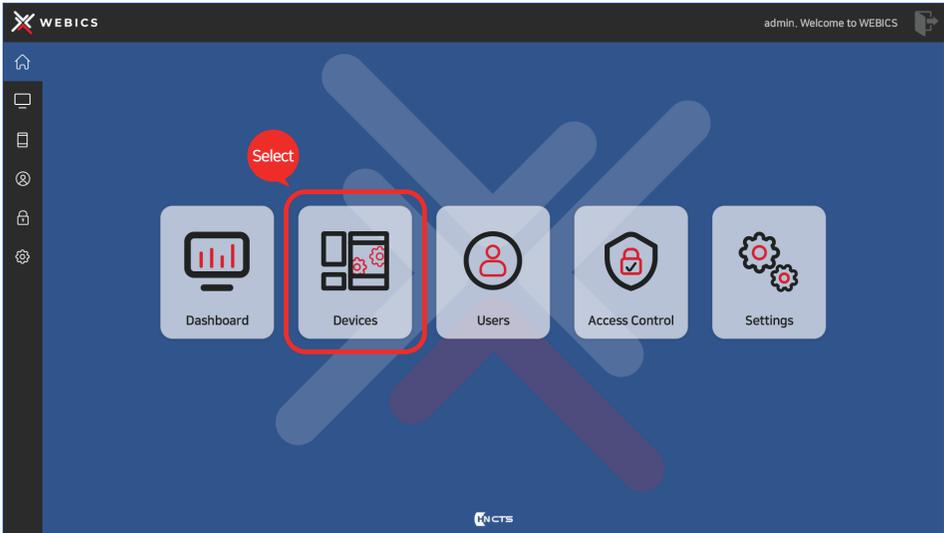
2. Select the New button.
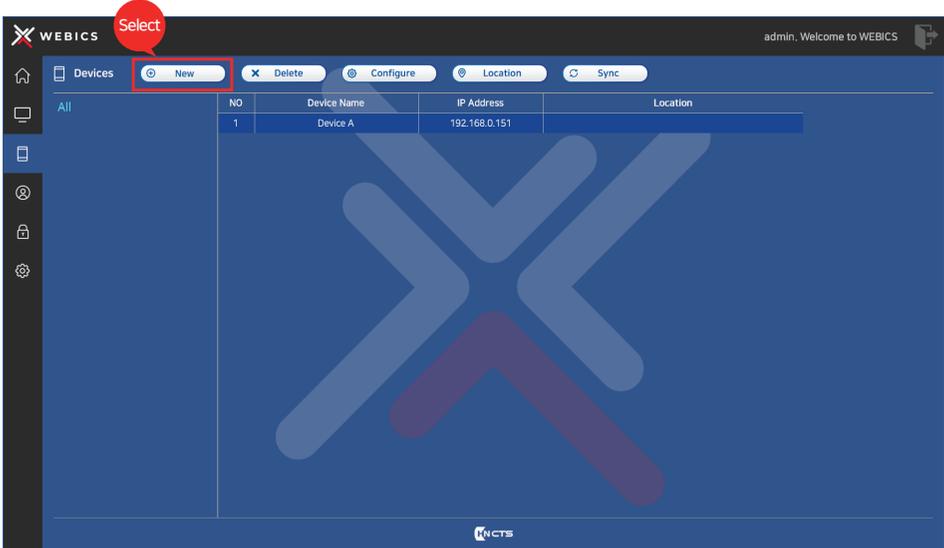
3. Select the Detect button.
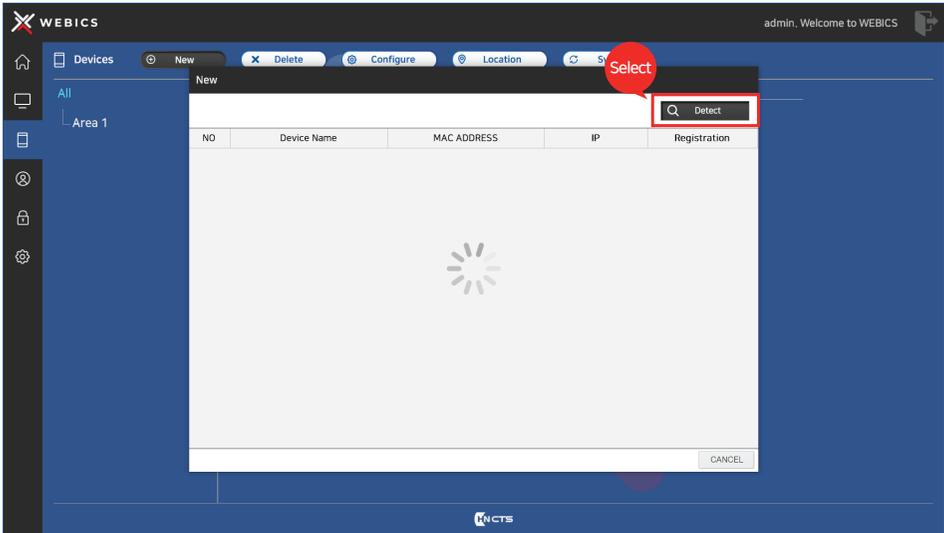
4. Select the Registration button of the discovered device.
If multiple devices are found, select the Registration button of the device to be registered.
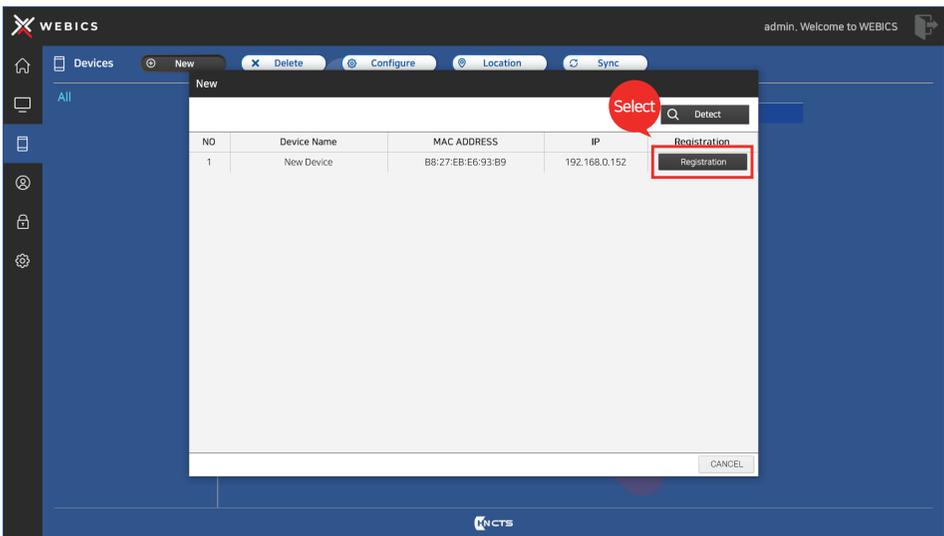
5. After entering the settings of the device, select the Save button.

- Be sure to ask your computer administrator for the setting value.
- If the IP address does not exist or if there is a conflict, the product will not operate normally.
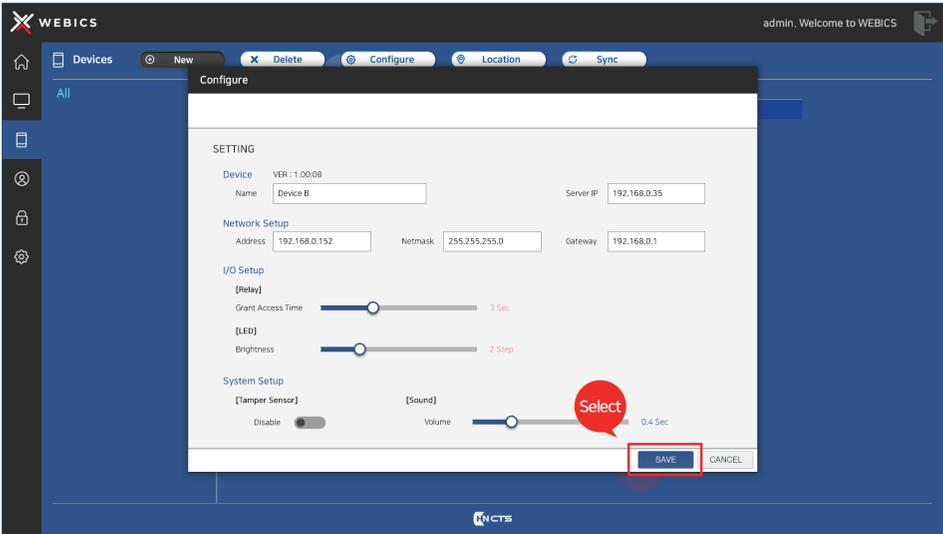
6. Make sure that the registered device is displayed in the Devices list.
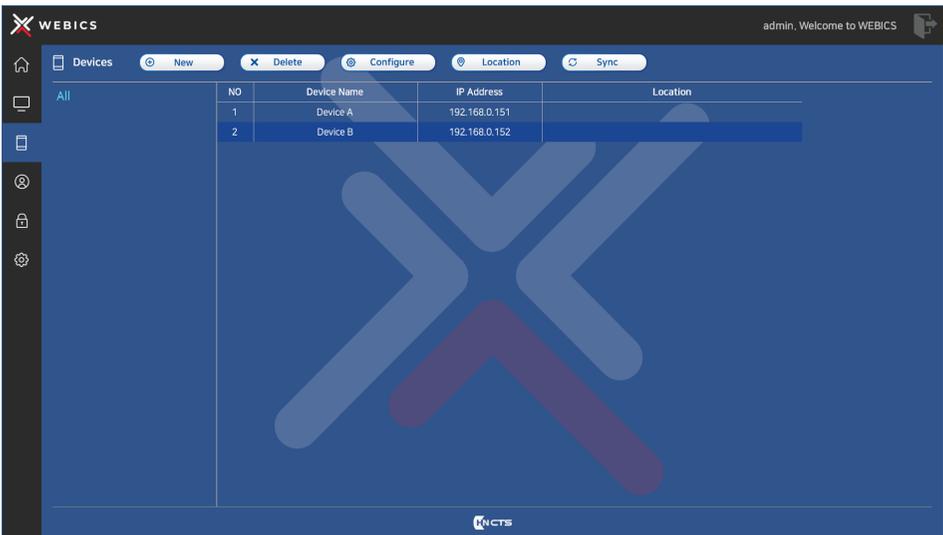
9. User Registration - Vein Registration

1. Select the Users icon from the WEBICS ADMIN main screen.
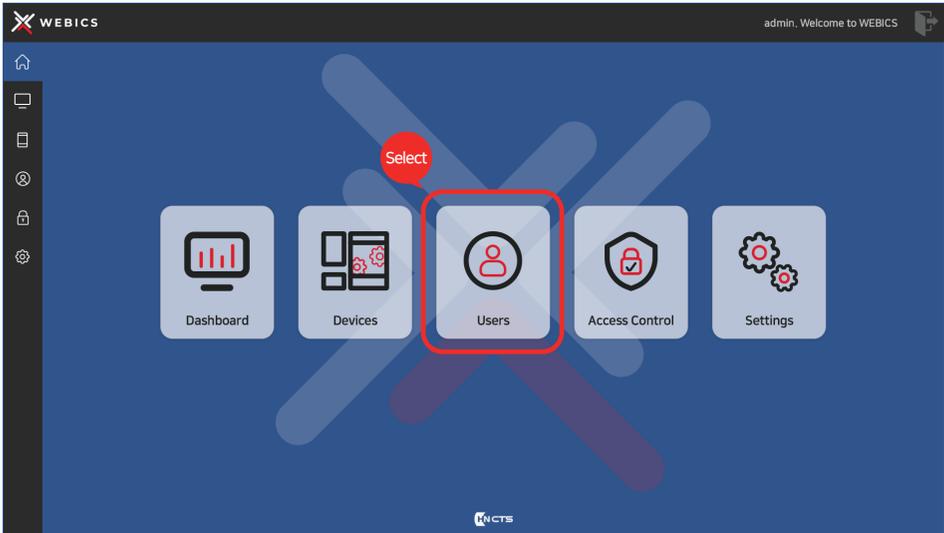
2. Select the Add button
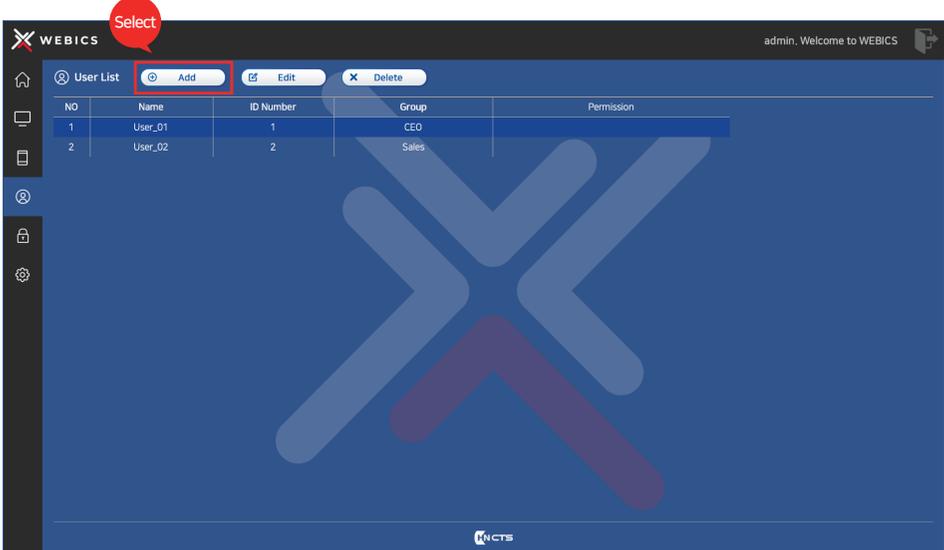
3. After entering the basic information of the user to be added, select the Palm Vein button.
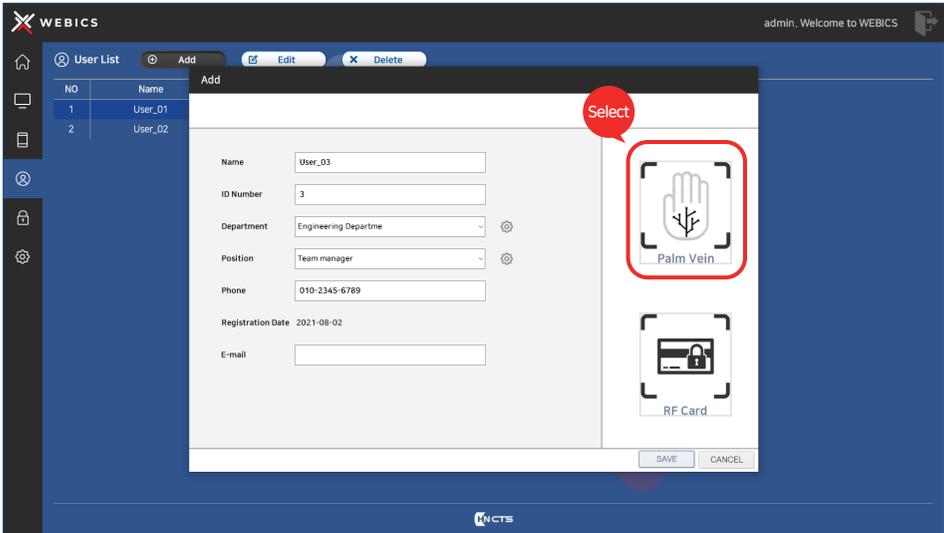
4. Select the connected register in the Palm Vein pop-up window.
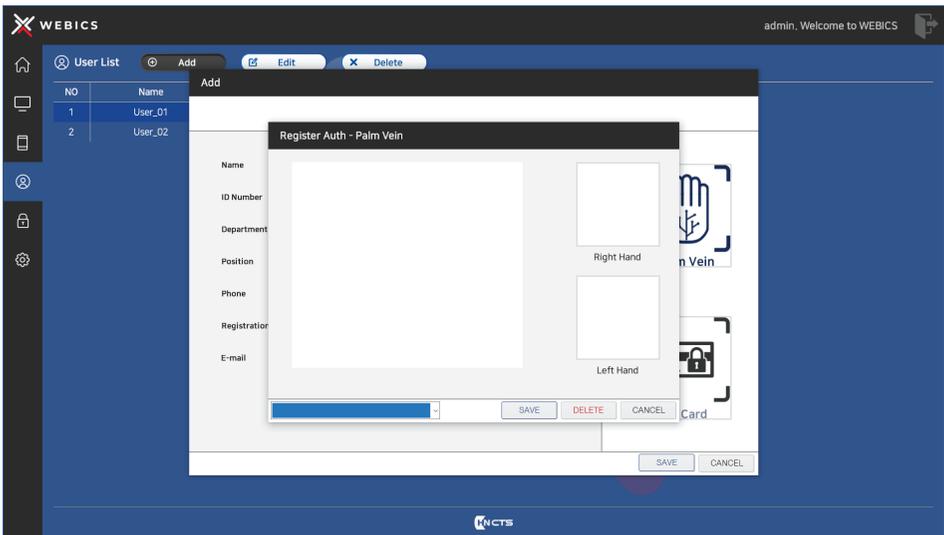
5. Register the palm vein
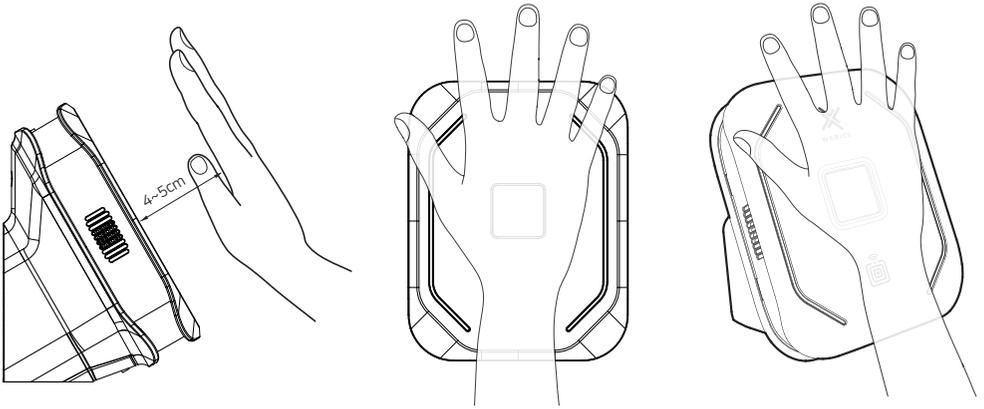
- Flatten the palm and place the center of the palm at a distance of 4-5 cm from the vein sensor.
- At this time, the palm and vein sensor should be parallel.

6. If the vein is properly registered

Registering　　　　　　　　　　**Registration completed**
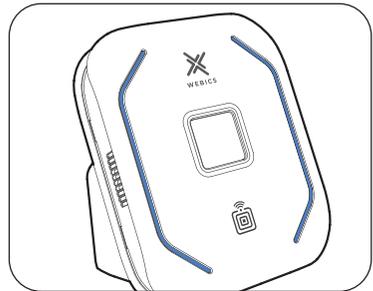
※ Caution: The vein recognition works well when user registration is correct.
For vein registration, please register 2 times per user.

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9. User Registration - Card Registration

• **Repeat the steps below for vein registration.**

1. Select the Users icon from the WEBICS ADMIN main screen.
2. Select the Add button.
3. After entering the basic information, select the RF Card button.
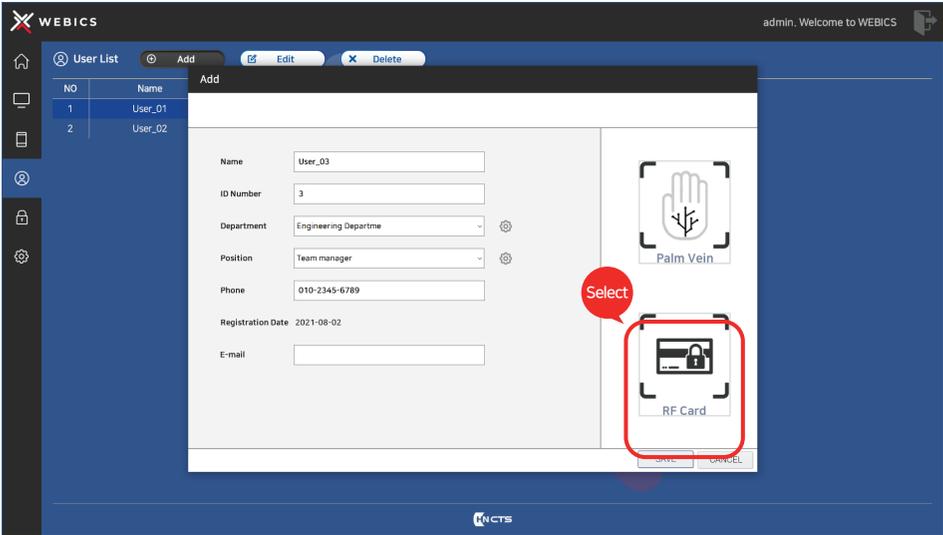
4. Check the RF Card registration pop-up.
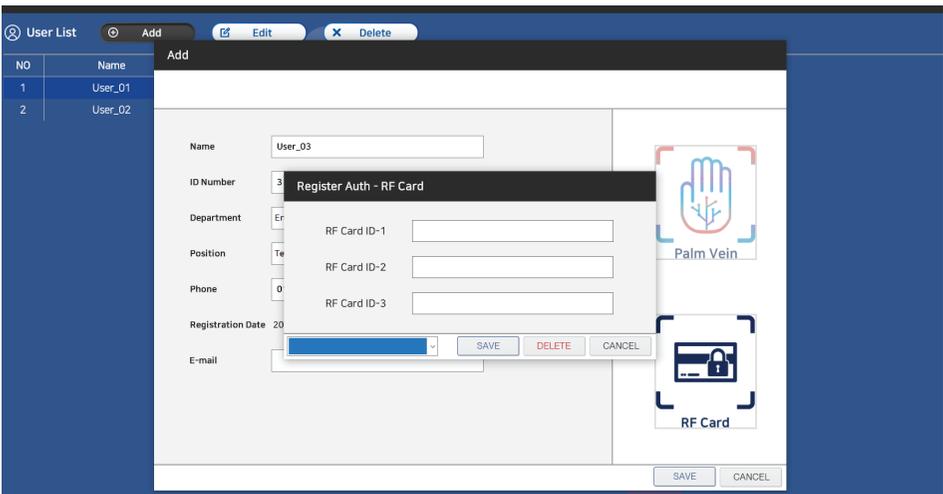
5. Click the device selection drop box and select the device you want to register.

Name	User_03
ID Number	3
Department	En
Position	Te
Phone	0
Registration Date	20
E-mail	

Register Auth - RF Card

RF Card ID-1

RF Card ID-2

RF Card ID-3

Device B   SAVE   DELETE   CANCEL

Palm Vein

RF Card

7. After selecting a device, press the card number input field to change to the registration mode.

Name	User_03
ID Number	3
Department	En
Position	Te
Phone	0
Registration Date	20
E-mail	

Register Auth - RF Card

RF Card ID-1

RF Card ID-2

RF Card ID-3

SAVE   DELETE   CANCEL

Palm Vein

RF Card

7. When you touch the card or ring to be input on the card recognition position of the product, the card number is automatically entered.

Name	User_03	
ID Number	3	
Register Auth - RF Card		
Department	Er	
	RF Card ID-1	4204432830
Position	Te	
	RF Card ID-2	
Phone	0	
	RF Card ID-3	
Registration Date	20	
	Device B	SAVE DELETE CANCEL
E-mail		

Palm Vein

RF Card

8. Click the Save button.

Name	User_03	
ID Number	3	
Register Auth - RF Card		
Department	Er	
	RF Card ID-1	4204432830
Position	Te	
	RF Card ID-2	
Phone	0	
	RF Card ID-3	Select
Registration Date	20	
	Device B	SAVE DELETE CANCEL
E-mail		

Palm Vein

RF Card

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9. If the card or ring is registered normally, the color of the RF Card button changes to the registered color.

Name	User_03	
ID Number	3	
Department	Engineering Departme ⌄	⚙
Position	Team manager ⌄	⚙
Phone	010-2345-6789	
Registration Date	2021-08-02	
E-mail		

Palm Vein

RF Card

RF Card → RF Card
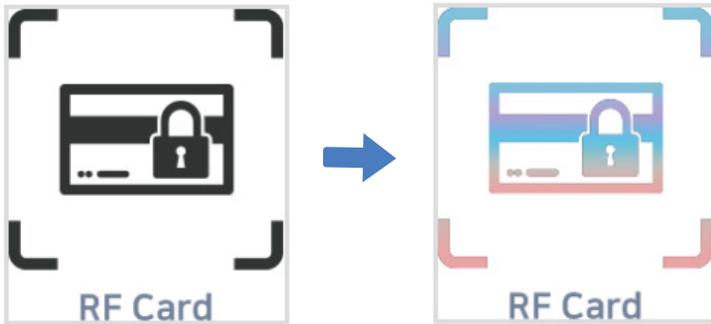
10. Managing Access Rights
- Accessible Device Settings for Each User

1. Select the Access Control icon from the main screen
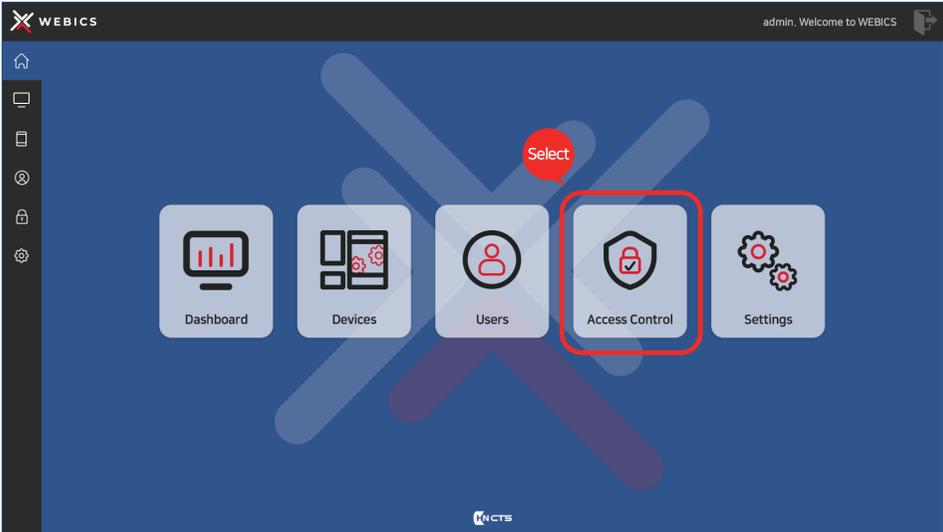
2. Check the registered user list and registered equipment list displayed.
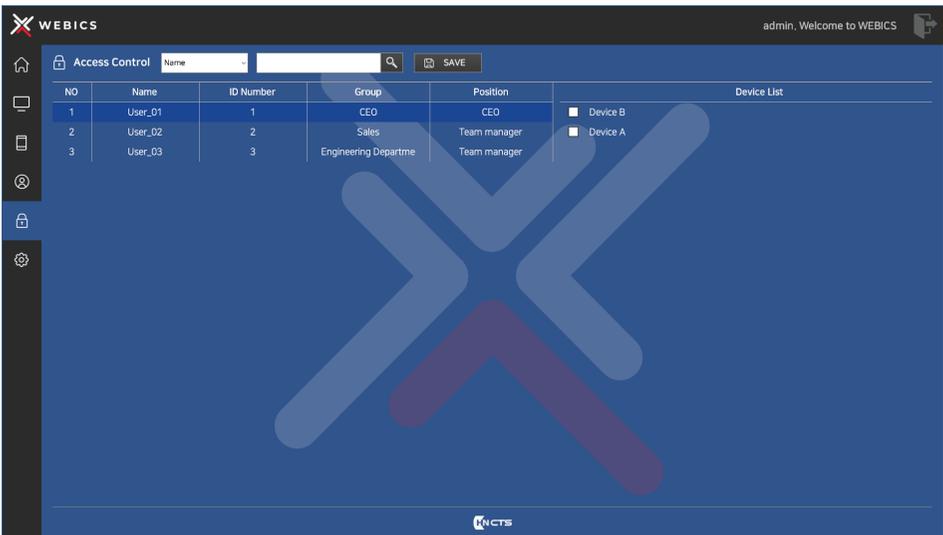
3. Select the users whose permissions you want to change, and then specify which devices they can access.

　※ You can select multiple users. / Select the device checkbox
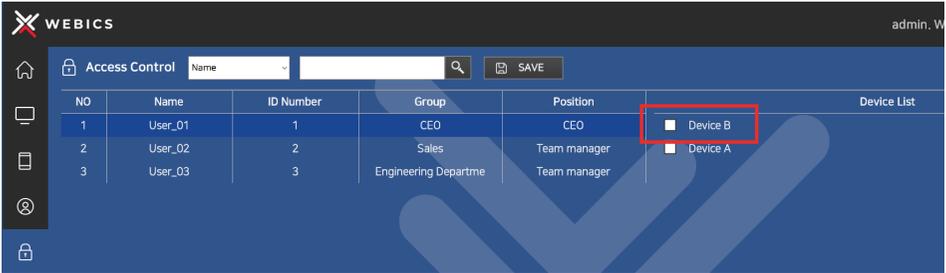
4. You can search for users in the top menu. You can select a search option from dropbox.
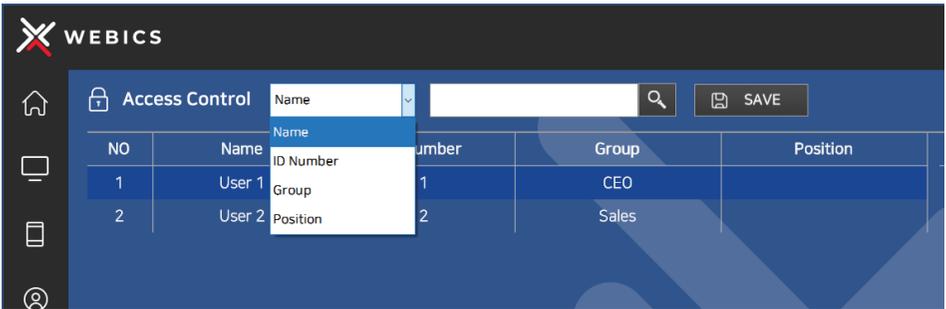
5. Click the Save button to save the settings
　※ When you click the Save button, the information stored in the server is synchronized with the device.
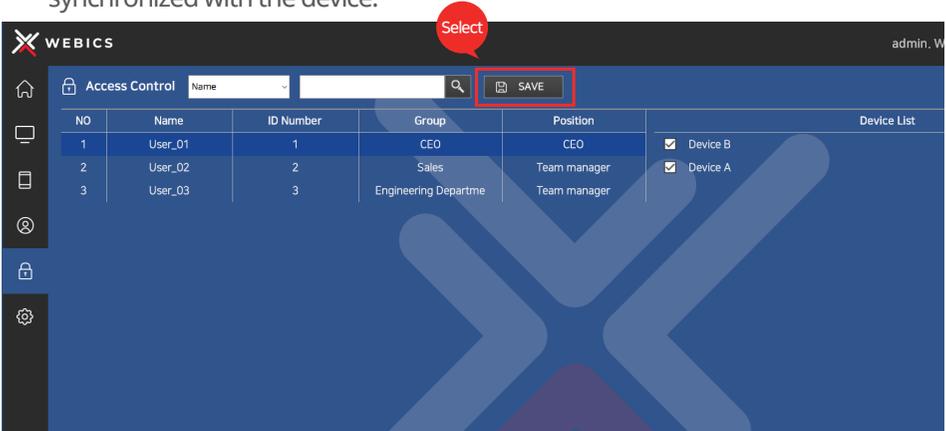
11. Product Use

11-1 Recognizing Veins

Fully spread your fingers and place your palm parallel on top of the vein sensor.
Align the center of your palm with the center of the sensor. Then adjust the
distance between the vein sensor and the palm of your hand to be about 4 to 5 cm.
Wait without moving your palm while the vein sensor detects a vein.

RFID CARD
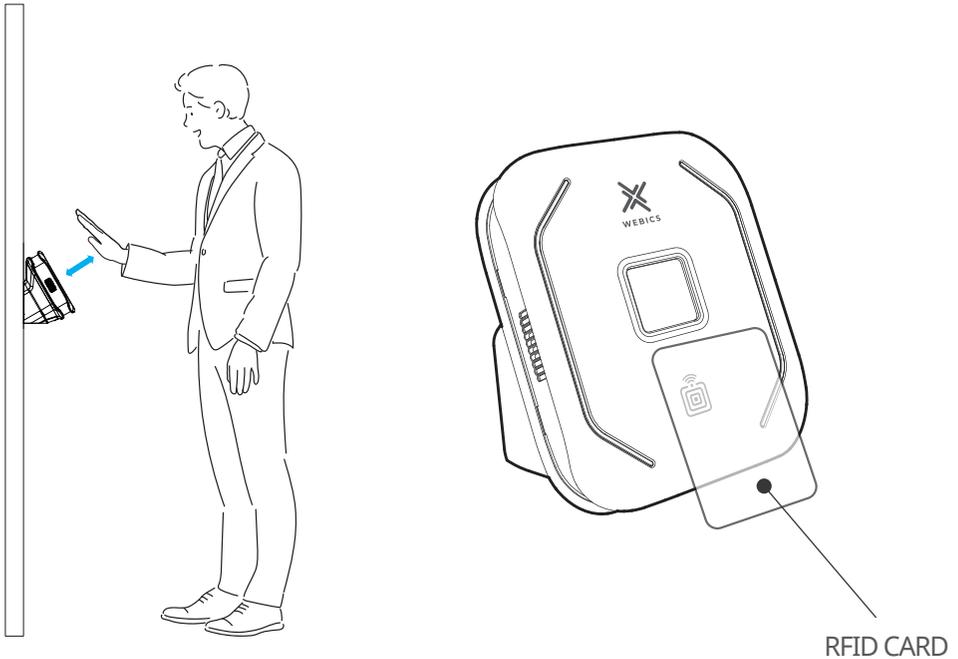
11-2 Recognizing a card

Touch the card to the product's RFID recognition sensor (RFID image section).

12. LED indication Cases

12-1 Status In Use

Standby
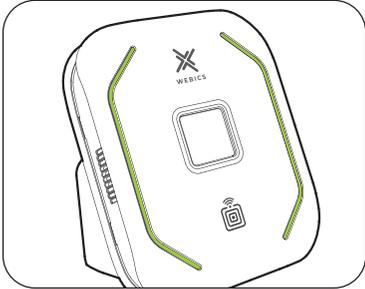
Authenticating
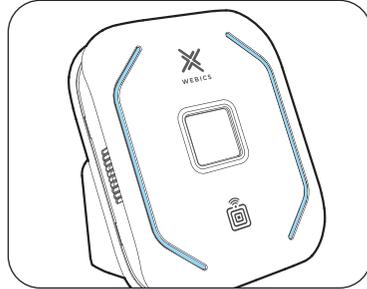
Authentication completed

Authentication failed

12-2 Registration Status

Registering

Registration completed

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13. Product Specifications

Product Surface

Keep the product clean by cleaning it regularly. Contamination of the product surface, especially the vein sensor area, may affect product performance Gently wipe the product with a dry fabric or cloth.

- When cleaning the product, do not use alcohol, acid solutions, or strong chemical cleaners.
- The product may be damaged and the product may not function properly.
- If the product is strongly scratched or impacted, the product may not operate normally.

Firmware

Firmware can help to improve product functions and provide new functions. When a new version of the firmware is available, update information is provided on the homepage (www.ctstechno.com).

Product Specifications

Item	Specifications
CPU	Cortex-A53 64-bit SoC 1.4GHz
RAM / Storage	1G / 16G
Encryption	AES256
Status display	LED color change
Operation mode	Palm vein, RFID
Built in RFID reader	
Event log capacity	100,000 events
Management SW	WEBICS ADMIN
Communications	Ethernet
External interface	Relay3P, RJ45
Operating temperature / Humidity	0 ~ 50 ℃ / 5 ~ 80 %
Power	12V DC / 3A
Dimension	120 (W) X 152 (D) X 112 (H) mm
Weight	
Housing materials	
Color	

Palm recognition mode specifications

Item	Specifications
Recognition range	35~7.6cm
FAR / FRR (%)	1.0000001/0.01
Max. Capacity	500