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		Card authentication			Door open switch				
					Equipment damage sensor				
					Lock control				
					Exterior alarm control				

I. Prior to Using

1. **Component Check** | 2.Names and Functions of each part | 3.Use Precautions



Body



Blaket



12V Adaptor



Power Cable



Product Fixing
Screws

I. Prior to Using

1. Component Check | **2.Names and Functions of each part** | 3.Use Precautions

Product Appearance

Standby Screen



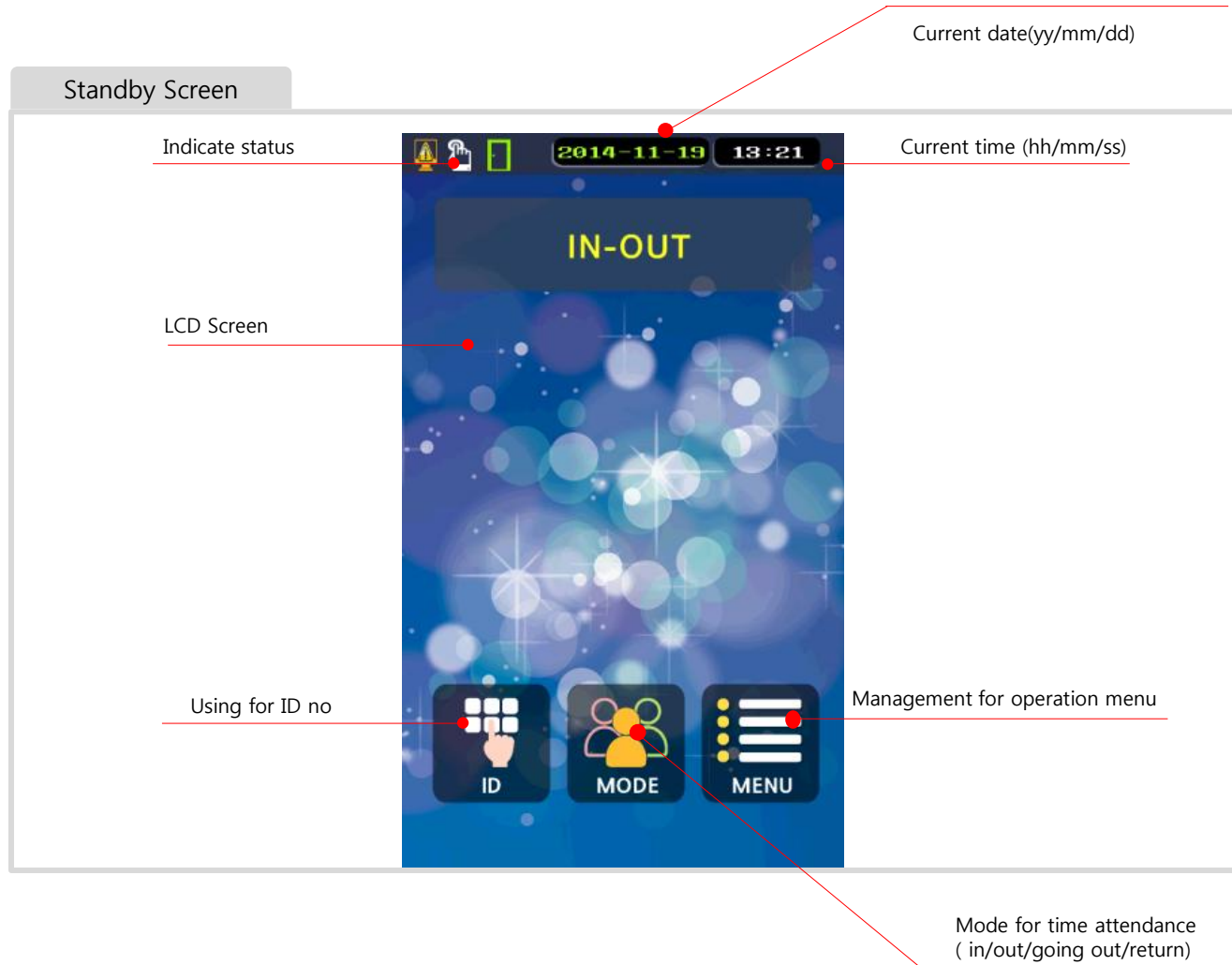
FV-100

I. Prior to Using

1. Component Check | **2.Names and Functions of each part** | 3.Use Precautions

Product Appearance

Standby Screen



I. Prior to Using

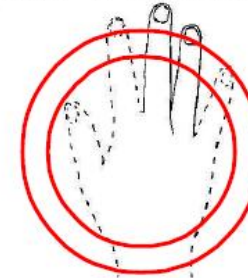
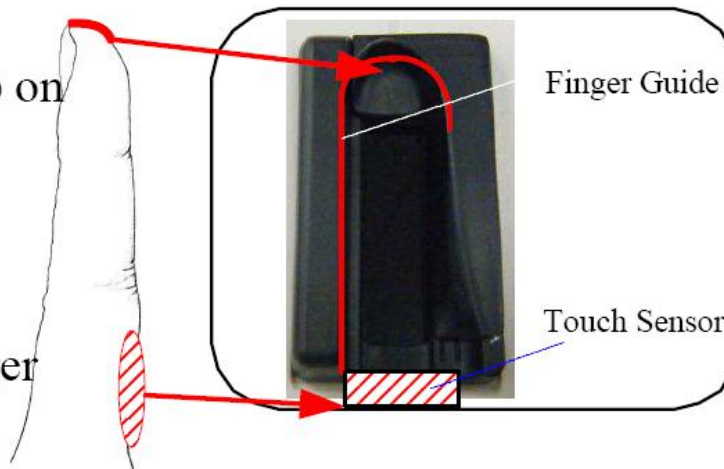
1. Component Check | 2.Names and Functions of each part | **3.Use Precautions**

Finger-vein Registration & Authentication method

HOW TO PLACE FINGER VEIN

1. Place your fingertip on the top of the authentication part

2.Contact the touch sensor with your finger base



I. Prior to Using

1. Component Check | 2.Names and Functions of each part | **3.Use Precautions**

Finger-vein Registration & Authentication method

POINTS

1. Relax your hand and open fingers gently
2. Place straight without rotation
3. Do not press the finger strongly to the authentication part

Determine the fingertip position for **placing finger at the same position every time**

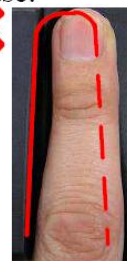


Place your finger onto the glass surface. If it has not been covered completely, a correct vein pattern cannot be captured.

Placing a finger along with the left side guide and put it down to the glass surface, then contact the touch sensor with your finger base.



Contact the touch sensor with your finger base



If there is a gap between the guide and finger, correct vein pattern cannot be captured.

I. Prior to Using

1. Component Check | 2.Names and Functions of each part | **3.Use Precautions**

Finger-vein Registration & Authentication method

Touch sensor responds, and start to capture the finger vein pattern. While capturing the vein pattern, do not move the finger until the end of a red LED emission.



Remove the finger completely **when a blip sound is heard from the device.**

I. Prior to Using

1. Component Check | 2.Names and Functions of each part | **3.Use Precautions**

Fingerprint Registration & Authentication method

Correct Finger-vein Authentication Method



Please adjust your finger stoped
Ending of round..

Use 2nd finger or 3rd Finger

Incorrect Finger-vein Authentication Method

1



Do not twist your
finger

2



Do not reach
ending point

3

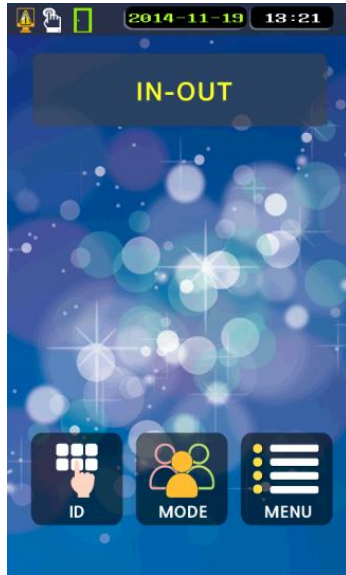


Do not over
ending point

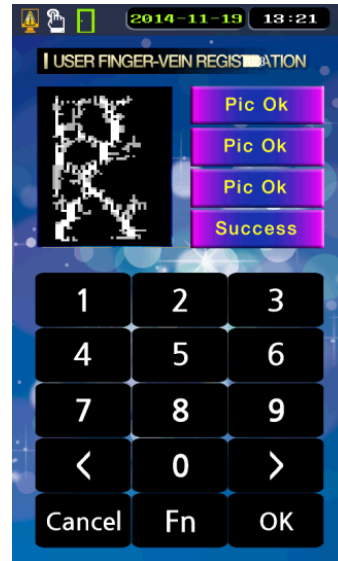
1. Must be stay your finger in ending point during 1-2 second
2. Keep clean your finger.
3. You see in front of screen in scan. Take a picture.,

I. Prior to Using

1. Component Check | 2.Names and Functions of each part | 3. use precaution | **4. Authentication algorithm**



1 | Finger-Vein



2 | Authentication 3 times

Pleas 3 time registration on same fingers.
If you registration different fingers then it,s fail.

1) Authentication step (4 steps)

1 st step	2nd step	3rd step	4th step
Take a picture	Correct	Analysis	scan

2) 설정에 따른 인증방법의 종류

Enable	Active	Disable	Non active
Gate	System setup	ID&PW	ID + Password
ID&FV	ID + Fingervein	RF&FV	Card + Fingervein
RF&PW	Card + password	FP	Fingervein only
ID	ID only	RF	Card only

※ You can adjust authentication method by select.

II. Basic system

1. User / Master Registration & Authentication | 2. User / Master Modify | 3. Delete

User Registration Master Registration Card Registration Password Registration Process Time

User Fingerprint Registration

1 **Menu** click button
To enter the main menu screen.

2 **Click** the button user management
To enter User Management

3 **[1]** 등록을 메뉴를 클릭합니다

4 **인증 번호 입력** (4자리 ~ 10자리)
한후에 OK를 클릭 합니다

II. Basic system

1. User / Master Registration & Authentication | 2. User / Master Modify | 3. Delete

User Registration

Master Registration

Card Registration

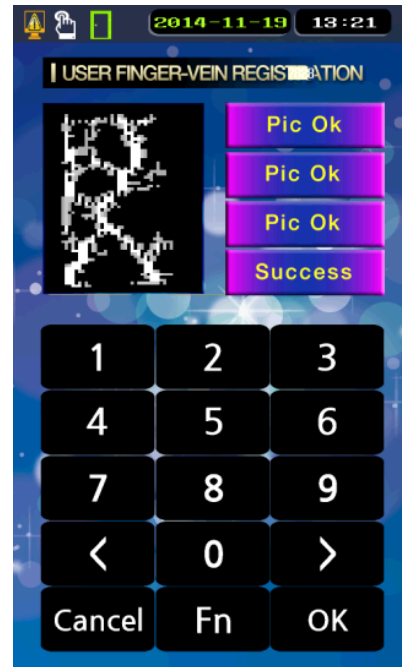
Password Registration

Process Time

User Fingerprint
Registration



5 | [1] click on Finger-vein Icon



6 | "Following the voice message
"Validate your finger-vein "put
on your finger to sensor 3
times



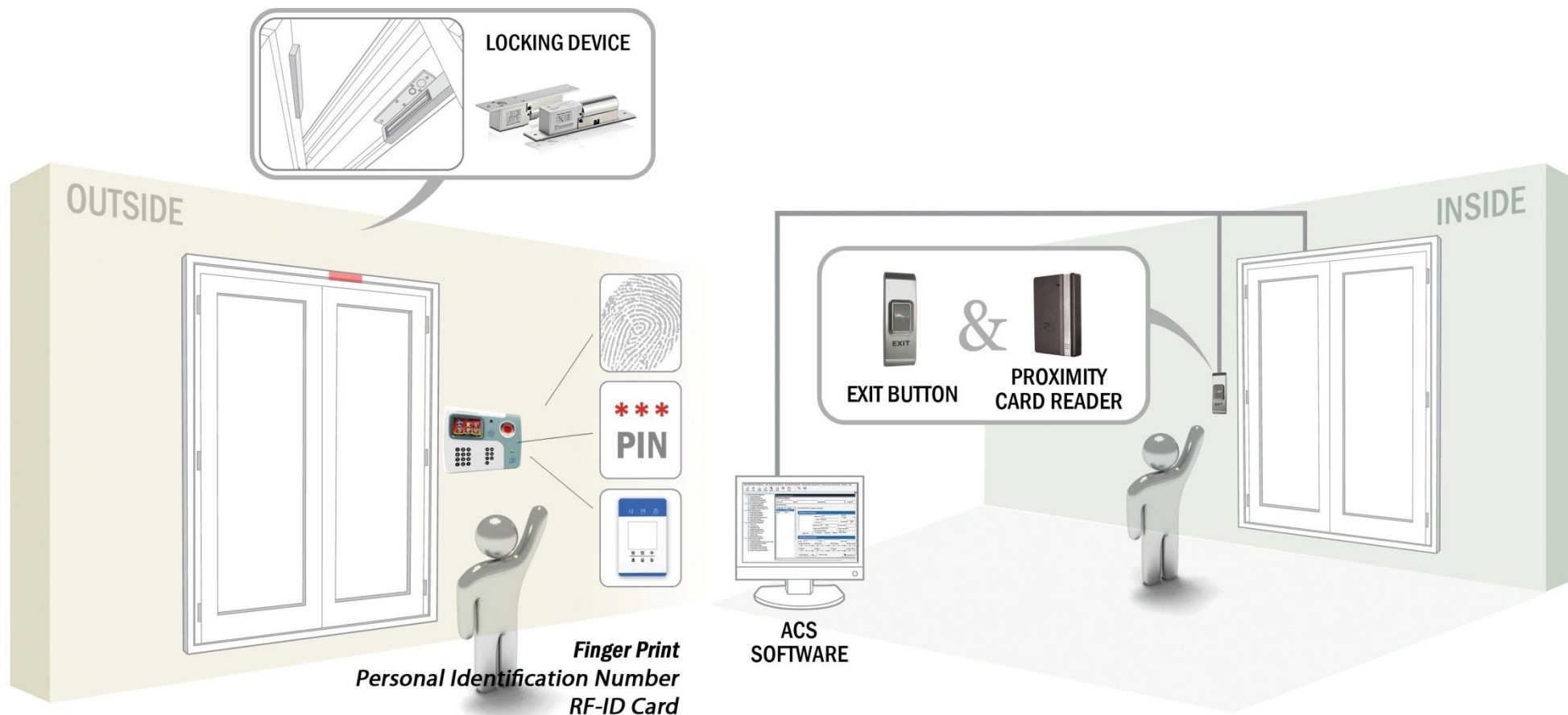
7 | After 3steps for registration, with
voice message "Registered"
complete to register



8 | **Finish!** Click the Finish Icon

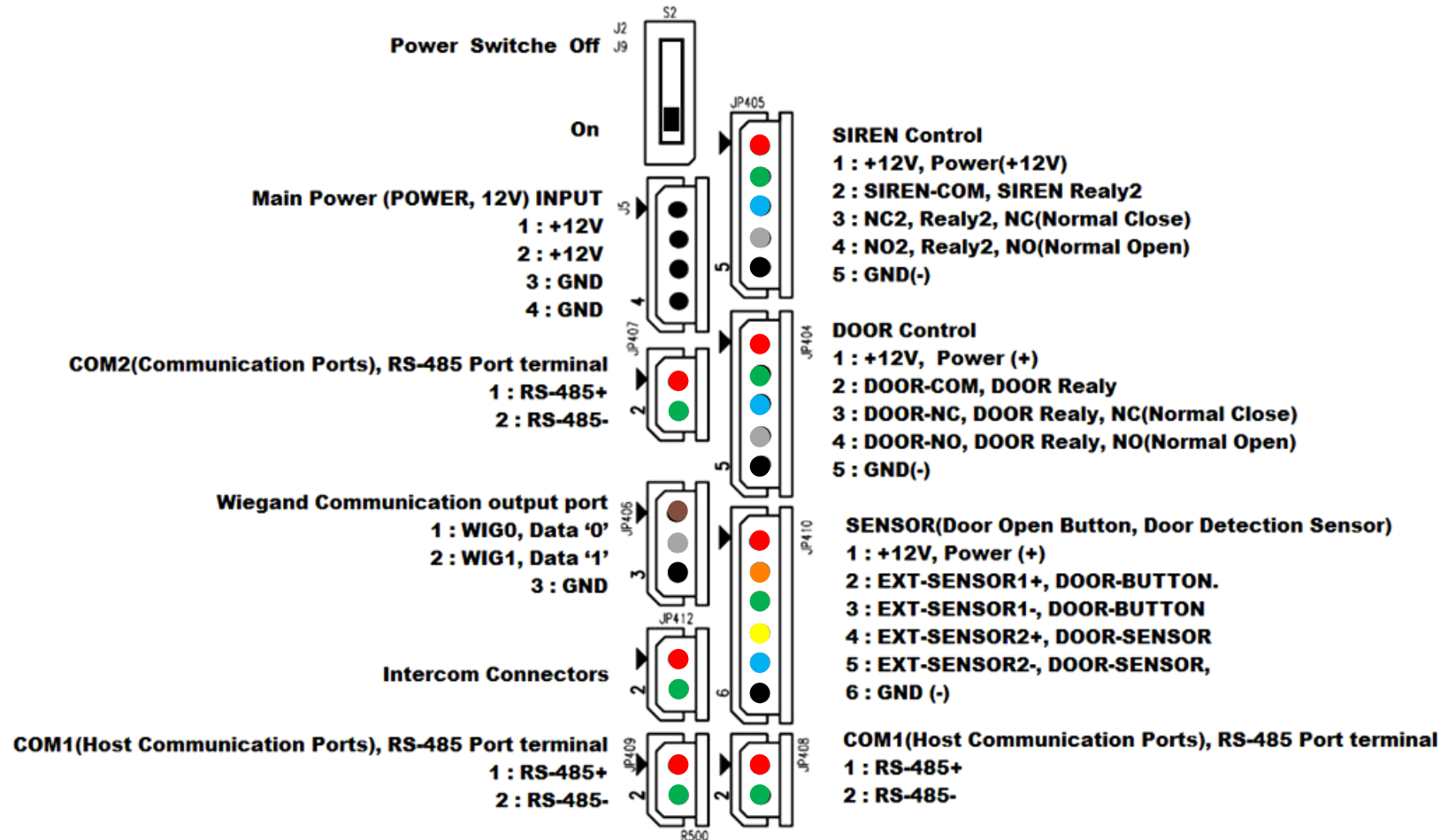
VI. SYSTEM CONFIGURATION & INSTALLATION

1. Total Solutions for Access Control Technologies



VI. SYSTEM CONFIGURATION & INSTALLATION







2.Line Connection



VI. SYSTEM CONFIGURATION & INSTALLATION

3.Types of door locks

- Fail Safe Type(Unlock) : if the power is cut, door is opened
- Fail Secure Type(Lock) : if the power is cut, door is closed

Dead Bolt		EM-Lock	Electric Strike		Auto Door
IMAGE					
					
Fail Safe	Fail Secure		Fail Safe	Fail Secure	
Voltage output Connect Wet Contact					Contact output Connect Dry Contact

FCC Information to User

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 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.



Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : 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

IMPORTANT NOTE:

IMPORTANT Safety Instruction:

CAUTION	
To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside, refer servicing to qualified personnel.	
	This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.
	This symbol, wherever it appears, alerts you to the important operating and maintenance instructions in the accompanying literature. Please read the manual.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this equipment near water.
- 6) Do not use near any heat sources such as radiators, heat resistors, stove, or other equipment that produce heat.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

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