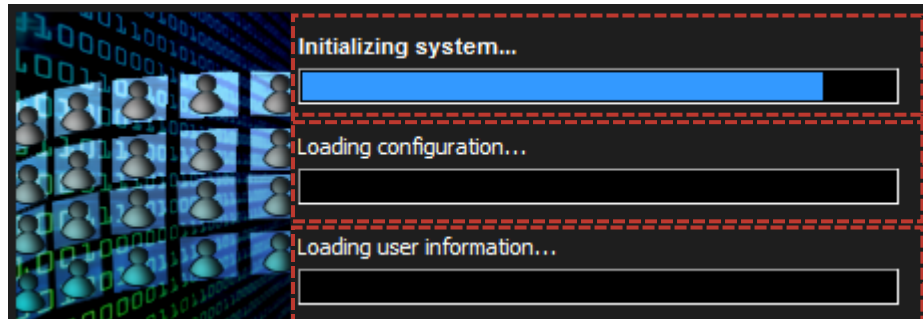


User Manual

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- ◆ This screen indicates initialization of facial recognition engine, configuration and user registration data load.



● Facial recognition engine initialization

● Loading configuration data

● Loading registered user data

- ◆ User can change the value of device channel ID, network information and facial recognition mode.
- ◆ This screen displayed at the first time system runs. Next time user can open this menu at  -> Configure.

Channel ID		A ▾ Type character 1 2 3 4 5 6 7 8 9 0 ← SAVE Cancel
IP Address		
Subnet Mask		
Gateway		
DNS	 	
Recognition Mode	☒ 1:1 ☐ 1:N ☐ Dual	

User can choose characters at drop-down box and confirm with 'Type character'

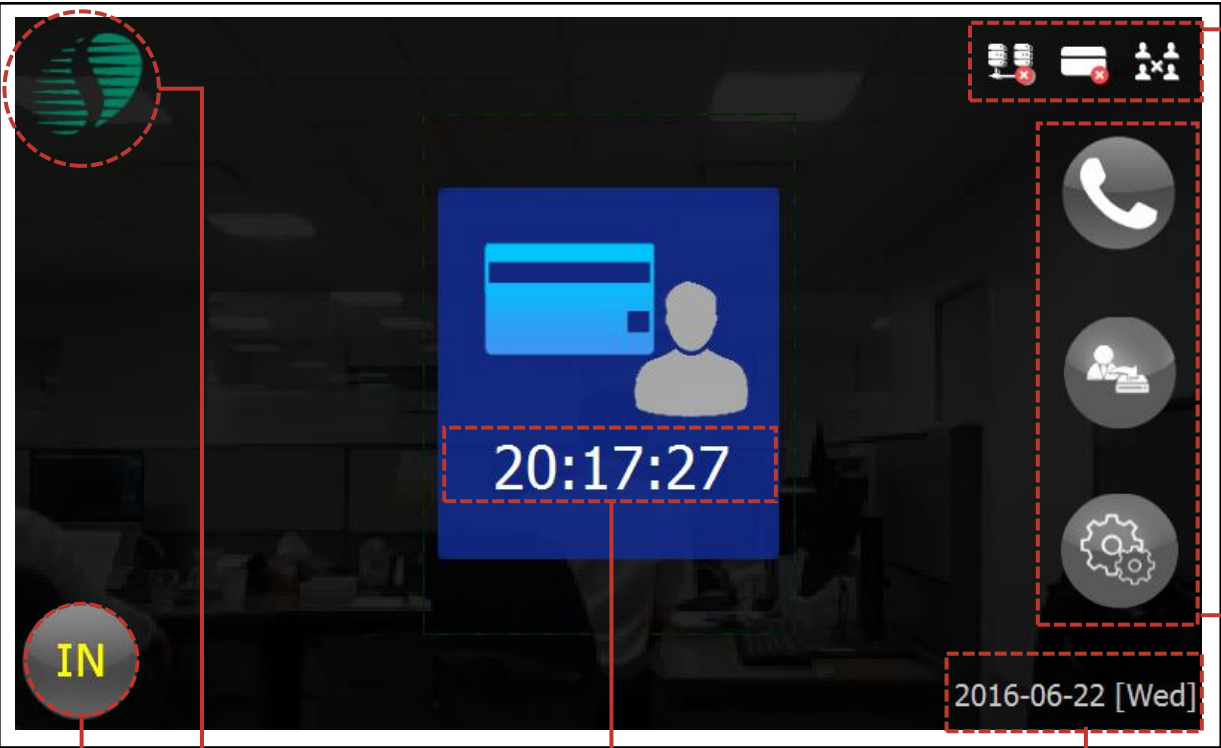
Numeric keypad. "←" to use for back-spacing

"SAVE" button to apply changed settings. If user changed network settings, device reboots.

Face Recognition Mode

- ✓ One-To-One : Use face image matched with registered RFID card to check with face detected image via camera
- ✓ One-To-Many : Check face detected image from camera with all of enrolled face image.
- ✓ Mixed : One-To-One mode for RFID card tagging first, One-To-Many mode for facing to camera first

- ◆ This screen shows normal status of the system ready for user recognition.
- ◆ User can call to managing staff, check current essential status of device.



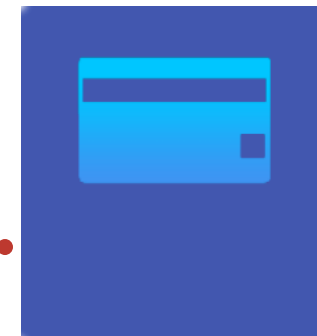
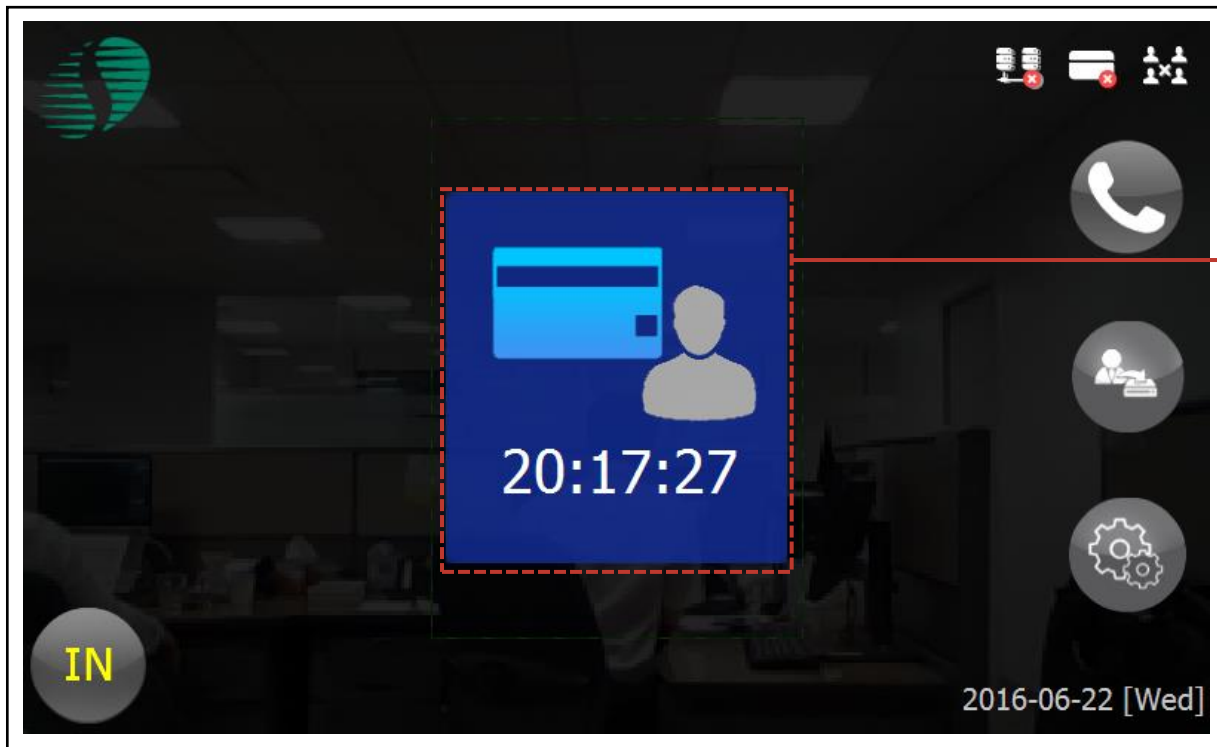
<Meanings of status icon>

	Enrolled user		Administrative mode
	One-To-One		Facial recognition is not available
	One-To-Many		Card checking is not available
	Mixed mode		Network disconnected

- Customer CI
- Shows attendance direction (IN / OUT)
- Displays current time
- Date information

- Button to call managing staff
- Button to register user
- Button to display administrative menu

- ◆ Displays current recognition mode.
- ◆ User can decide whether card tagging is need first or facial recognition is need based on central image.
- ◆  is displayed if additional information is need after RFID card tagging



Card only



One-To-One

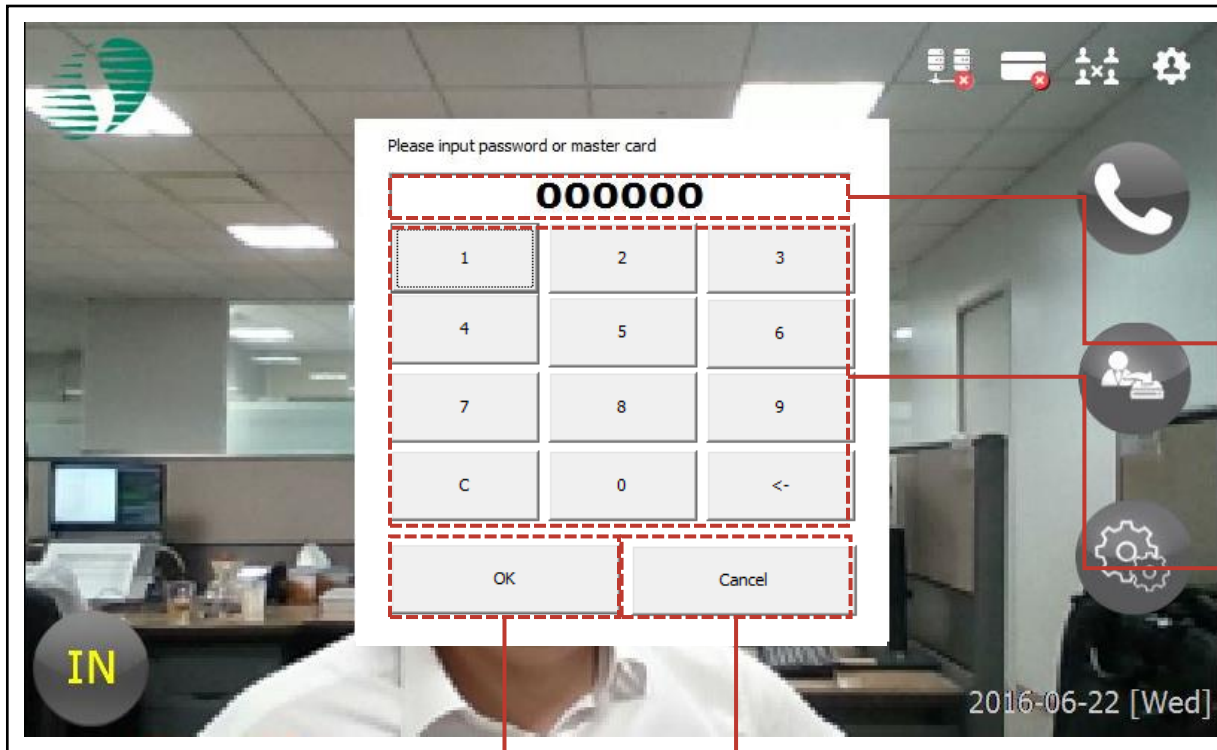


Mixed mode



SAS card tagging message

- ◆ User can enter into administrative menu after password input.
- ◆ Password screen supports numeric keypad and master RFID card.



Password screen will be displayed before using this function.



Displays current input status

Shows numeric keypad.

"C" clears all input

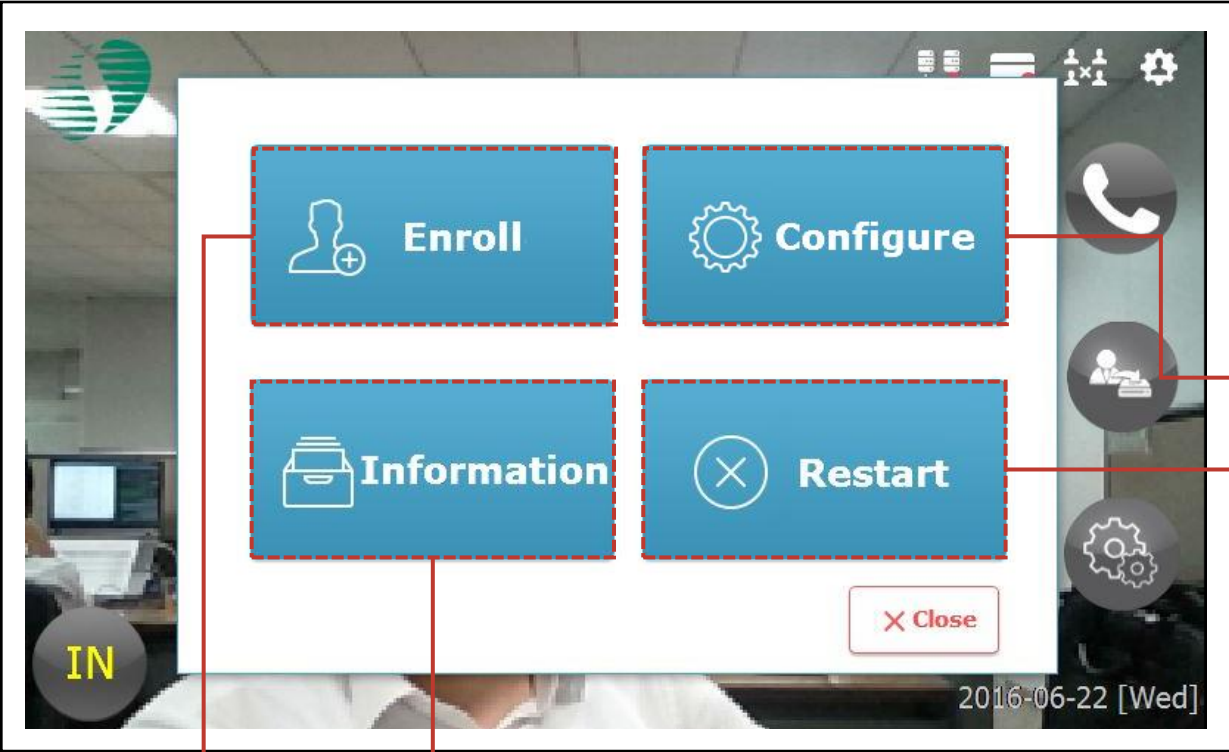
"<-" removes last input character

Cancel password input and remove current window

Password checking

- If password matches move to administrative menu.
- If any password was entered move to main screen.
- If password not matches, device displays error message.

◆ Administrative menu supports register user, manage the configuration, checking system information, system restart.



 And password authenticated

Settings screen

Setting menus for device channel ID, network information, recognition mode.

Channel ID		A	Type character	
IP Address		1	2	3
Subnet Mask		4	5	6
Gateway		7	8	9
DNS		0	←	
Recognition Mode	☒ 1:1 ☐ 1:N ☐ Dual	SAVE Cancel		

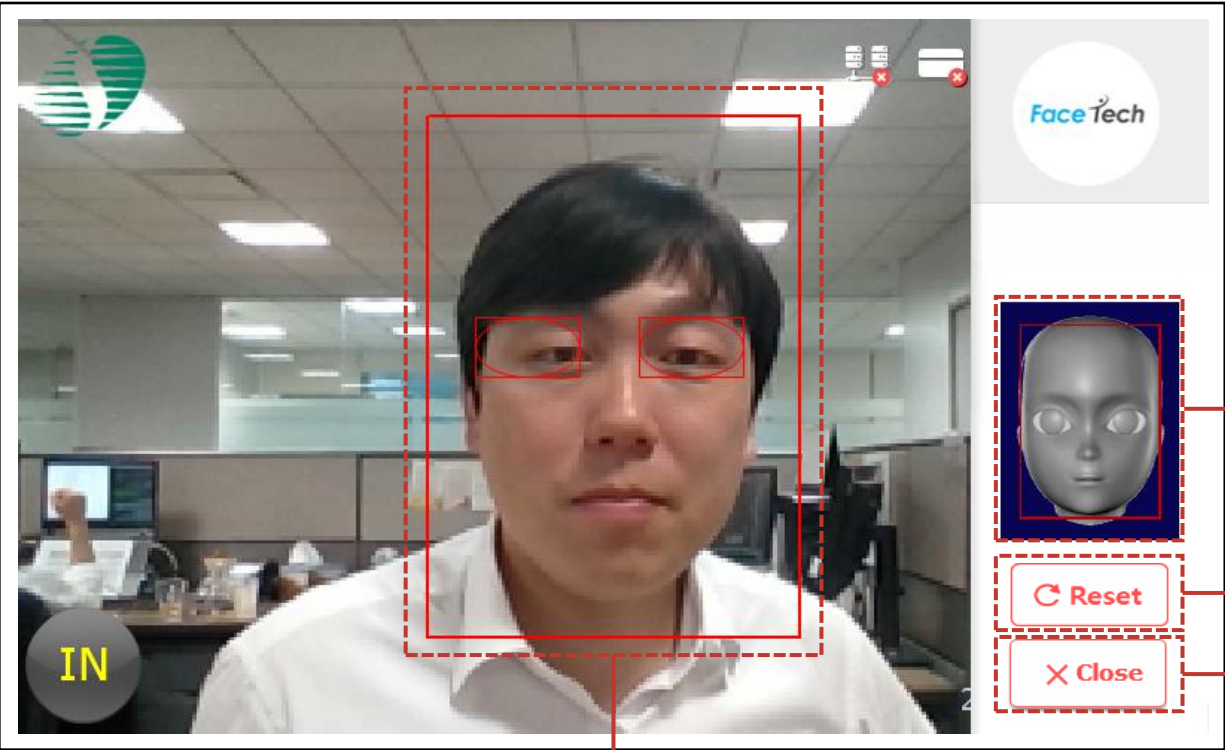
Displays device information

- Channel ID, version, update date, recognition mode, number of users and number of face images.

Device reboot

Face image registration

◆ User should take five images need to regist (front, left, right, upward, downward).

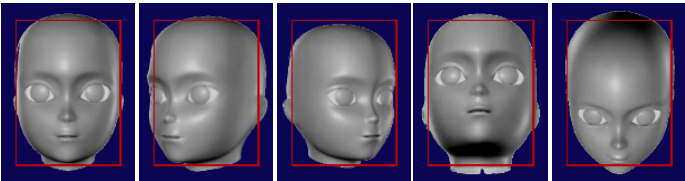


opens this menu



Enroll

Guide image for axis during registration.

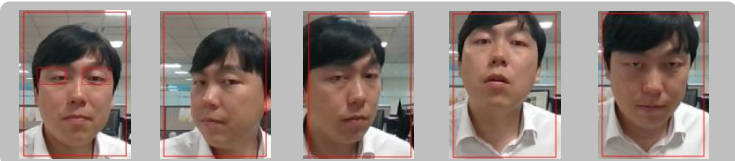


Return to first step

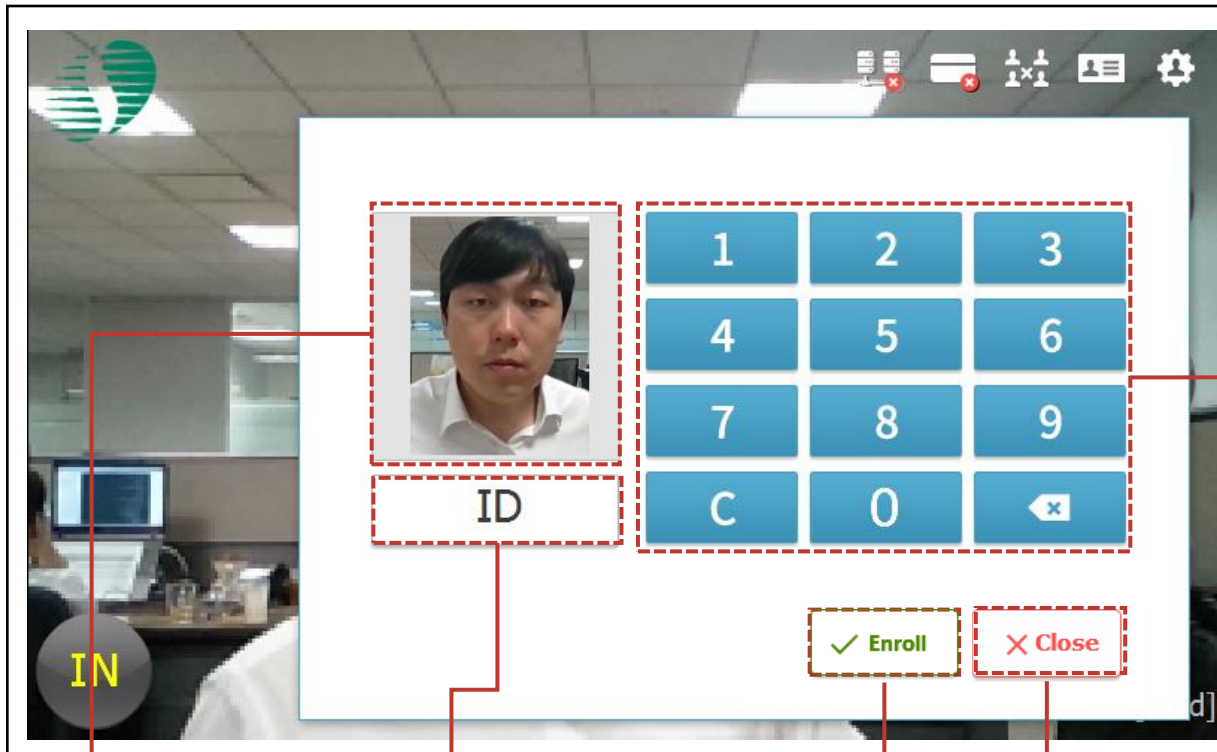
Cancel face registration
and back to main screen

Guide for face axis to register

- In case of front display face is detected if eye is fit into guide shape
- After detection of front image, register next 4 images with moving direction



- ◆ User should input user ID for personal identification.
- ◆ This screen supports both numeric keypad and RFID card.



This screen will be displayed after registration of 5 face images

Numeric keypad.

C clears all input

← removes last input character

Entered ID

User ID will be displayed in this field

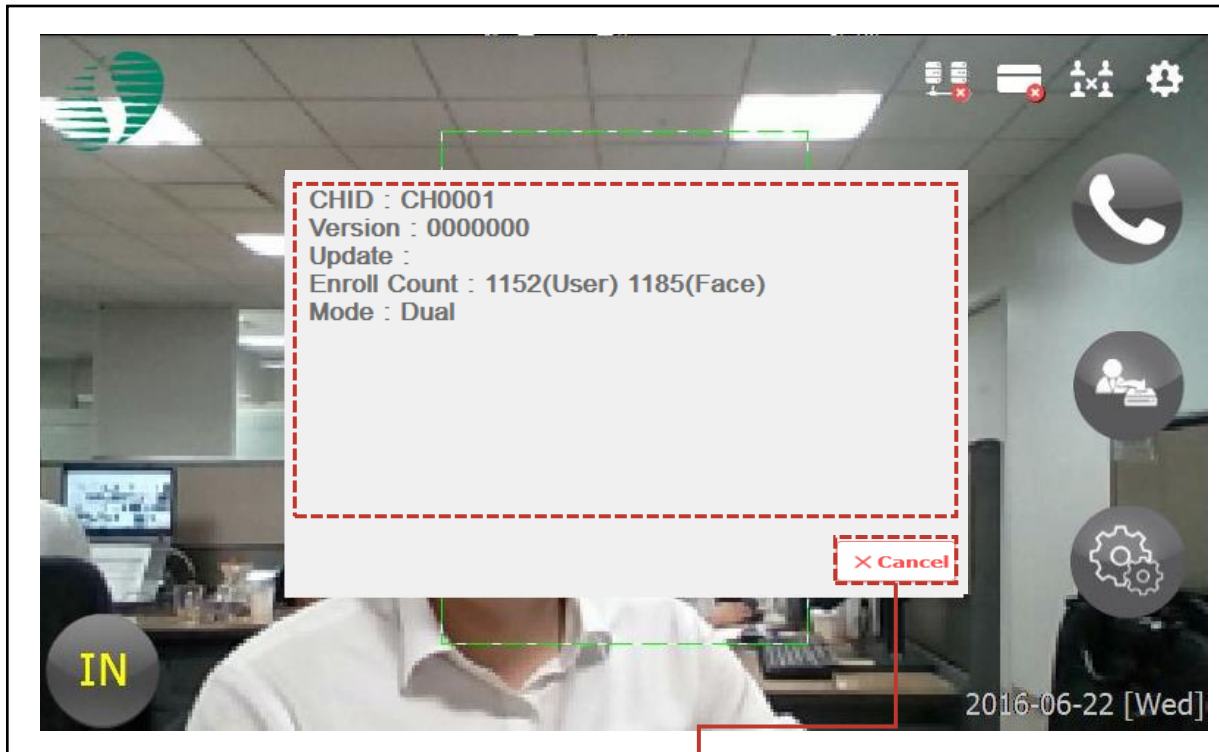
Display front image of five

Cancel face registration and back to main screen

Register user with ID

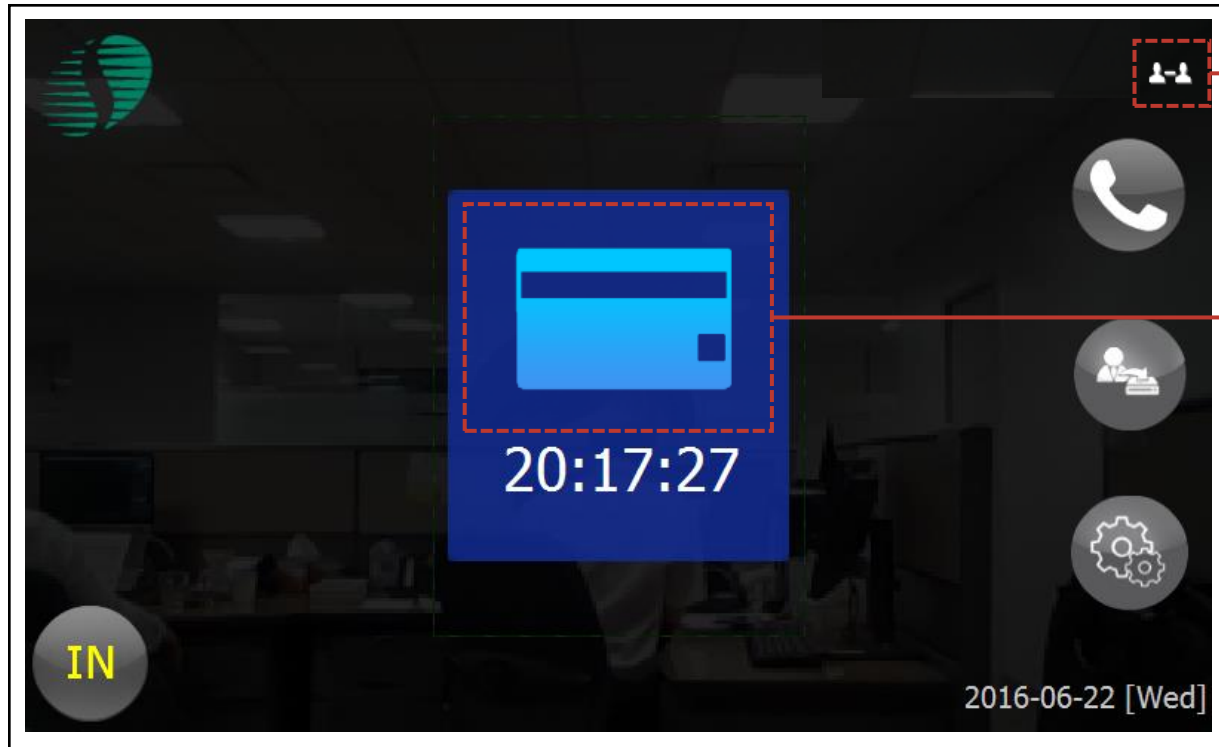
- If user is exists, additional features are register.
- Warning message is display if user do not input ID.

- ◆ This screen provides system information such as channel ID, SW version, update date, enroll count, recognition mode.



Back to main screen

- ◆ If facial recognition mode is One-To-One, user should tag RFID card first to access system.



● One-To-One mode indication

- When user tag card to device, square image will be disappeared.
- If face is in the green square, facial recognition is come into action.
- Compare face image from camera and enrolled data with RFID card.



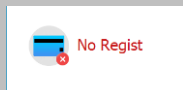
19:32:49
161436

Success case, displays authenticated time and user ID then open gate.

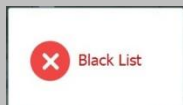


19:06:37

Displays time when authentication failed.

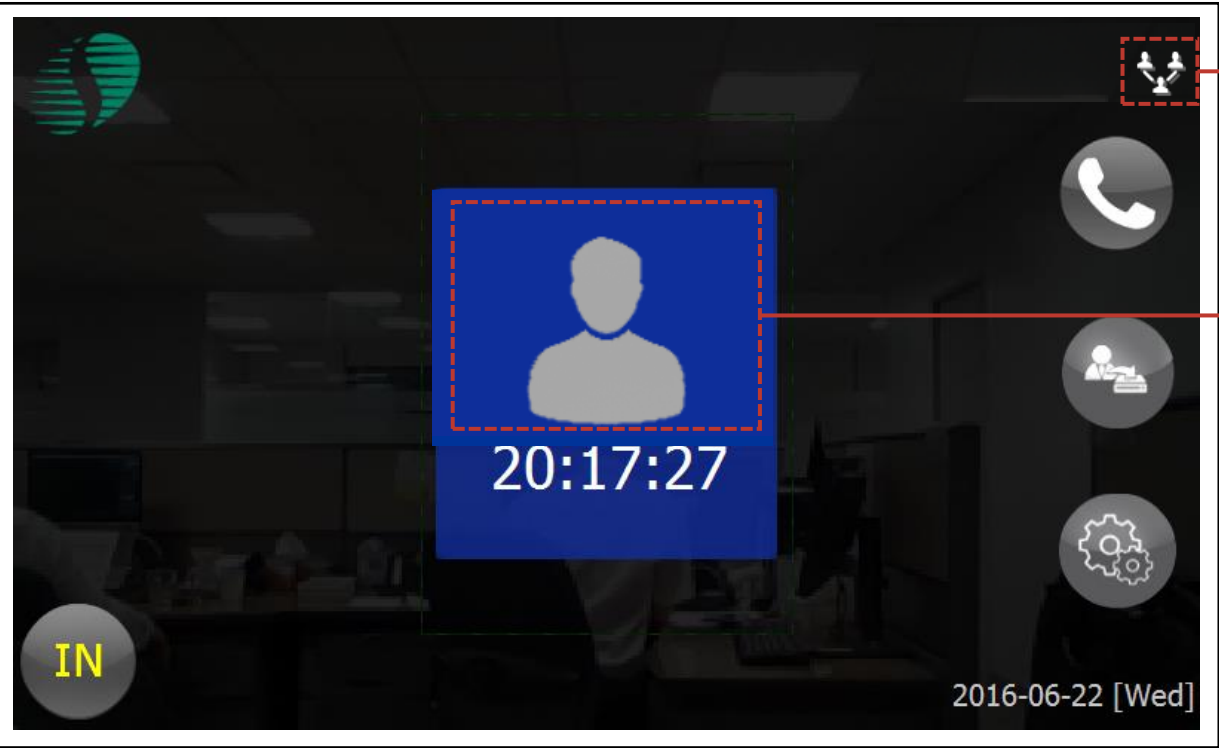


No face data available matching with RFID card.
Device would not run facial recognition.



User of RFID card is in black list.
Device would not run facial recognition.

◆ Authenticate with user's face only.



Indicator for One-To-Many mode.

Guide Image

- If face is in the green guide line, facial recognition is come into action.
- Check face image from camera and whole user's image



19:32:49
161436

Success case, displays authenticated time and user ID then open gate.



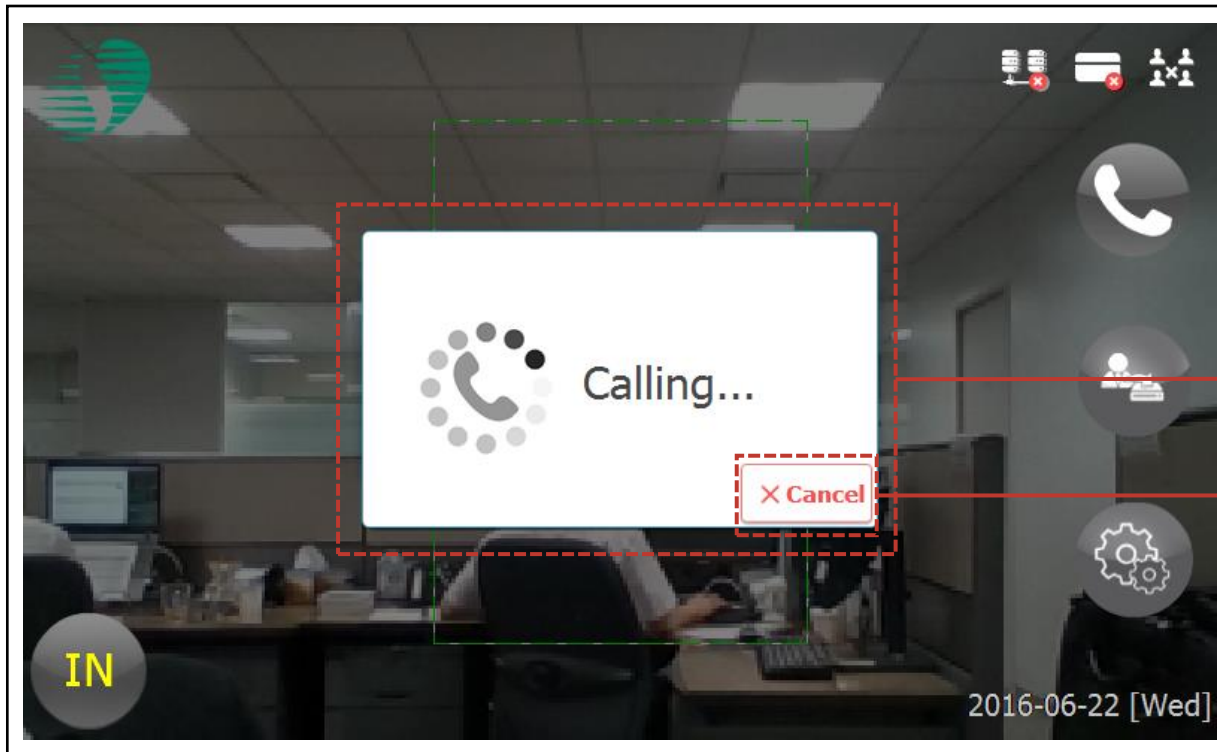
19:06:37

Displays time when authentication fails.

Please come close forward

Displayed when user's face is to small for detecting.

- ◆ The guest or not enrolled user will use this function to access.
- ◆ If user use this function, system will send streaming images to system or manager to get grant for accessing



is come into call function

- While displaying this popup, camera preview is send to manager.
- Manager can check person in front of device decide whether opens door or not.
- Stop to call manager, back to main screen



Not Responding...

If manager is not answered in dedicated seconds this popup is displayed and back to main screen.

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.

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.

Caution

Any changes or modifications (including the antenna) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

Thank You.