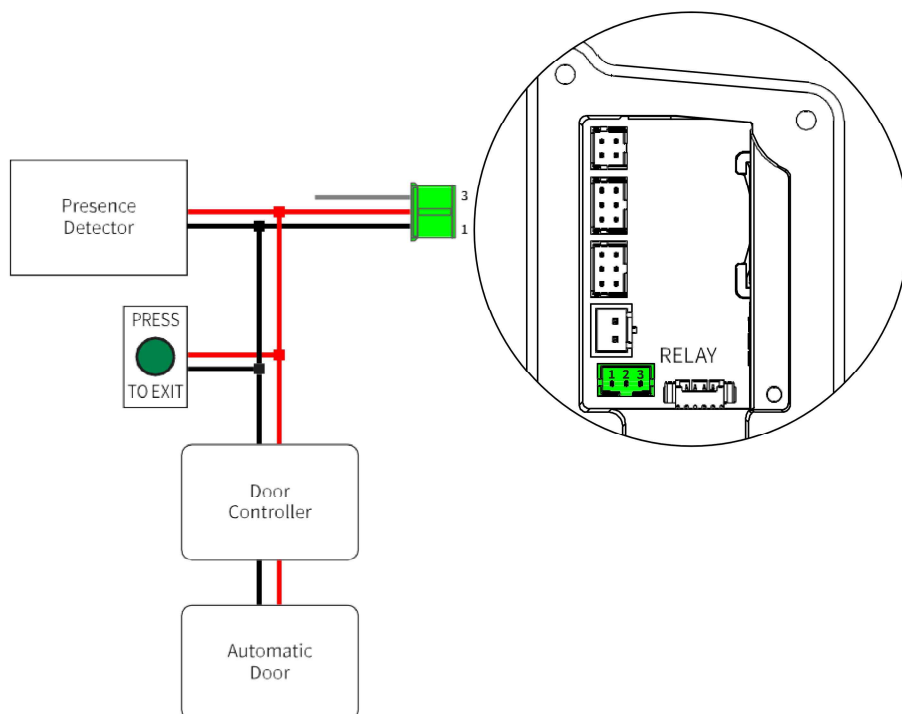


Relay Connection – Automatic Door

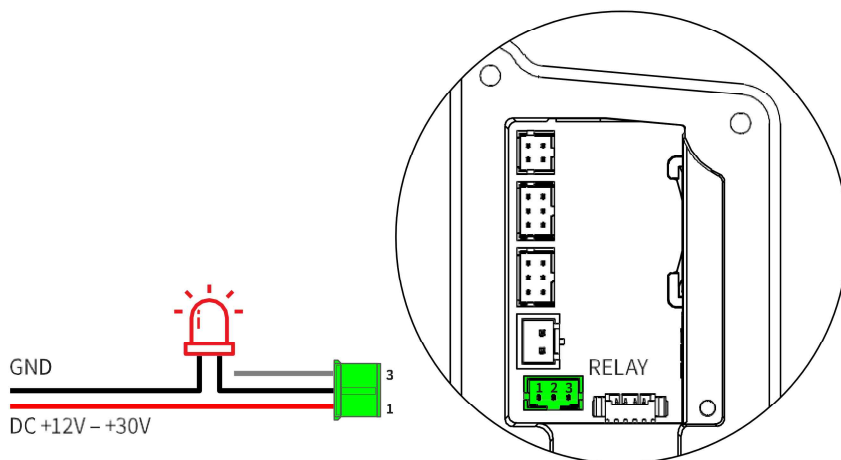
The device can be connected to an automatic door system using the relay interface.



Type	Pin No.	Pin Name	Color
Relay	1	Normally Open (NO)	Black
	2	Common (COM)	Red
	3	Normally Closed (NC)	Gray

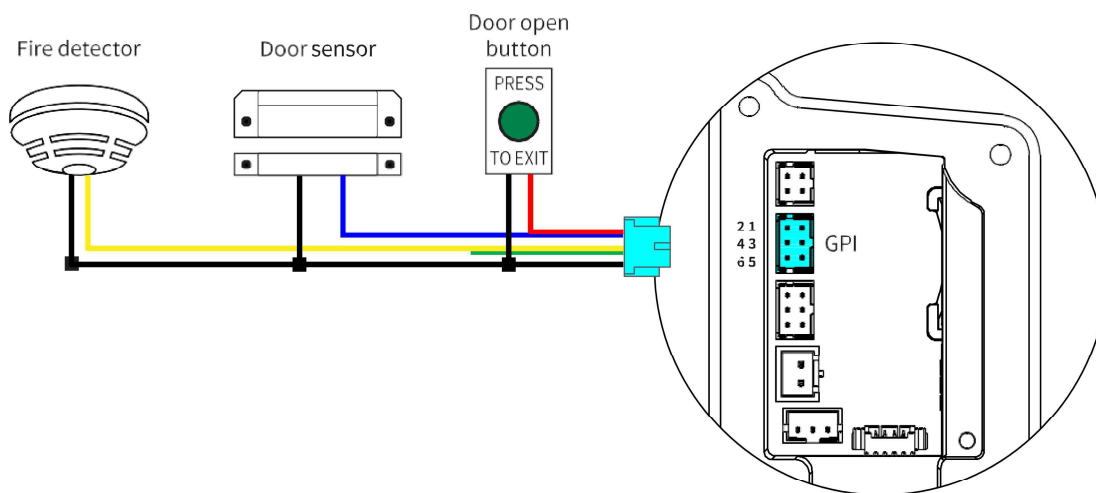
Relay Connection – Alarm Light

The internal relay interface can be connected to an alarm light for visual alerts. The relay has a nominal switching capacity of 1 A, 30 VDC or 0.3 A, 120 VAC, resistive load.



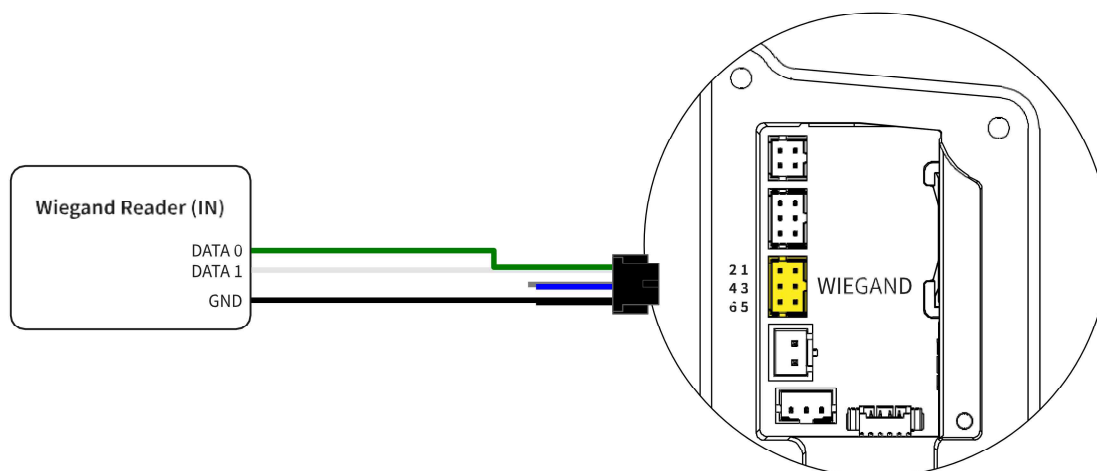
Type	Pin No.	Pin Name	Color
Relay	1	Normally Open (NO)	Black
	2	Common (COM)	Red
	3	Normally Closed (NC)	Gray

GPI Connection



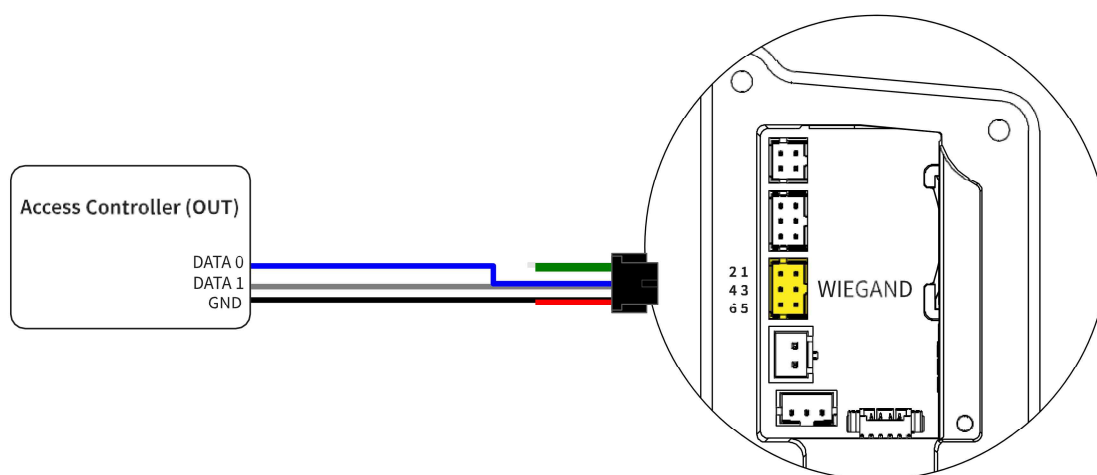
Type	Pin No.	Pin Name	Color
GPI	1	GPI 1	Red
	2	GPI 2	Blue
	3	GPI 3	Yellow
	4	GPI 4	Green
	5	Ground (GND)	Black
	6	Ground (GND)	Black

Wiegand IN Connection



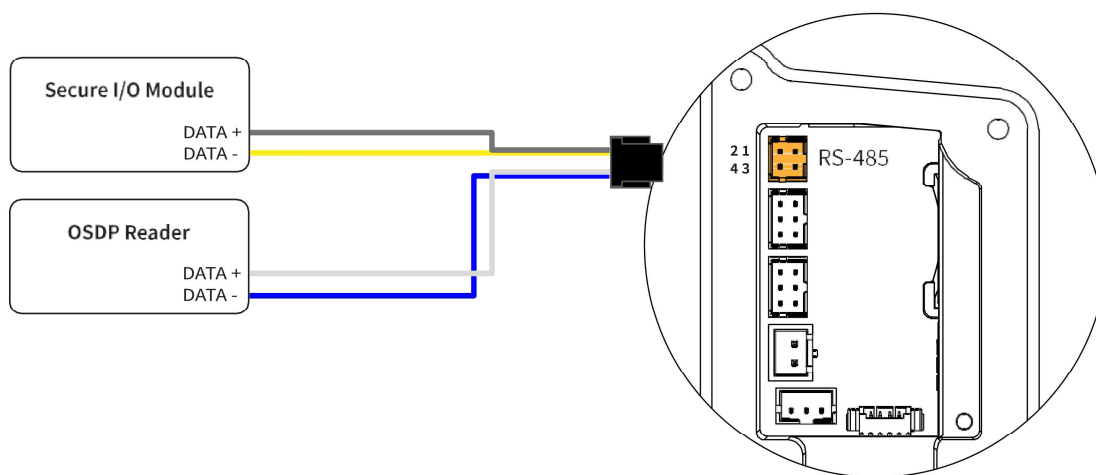
Type	Pin No.	Pin Name	Color
Wiegand	1	IN DATA 0	Green
	2	IN DATA 1	White
	3	OUT DATA 0	Blue
	4	OUT DATA 1	Gray
	5	Ground (GND)	Black
	6	Ground (GND)	Black

Wiegand OUT Connection



Type	Pin No.	Pin Name	Color
Wiegand	1	IN DATA 0	Green
	2	IN DATA 1	White
	3	OUT DATA 0	Blue
	4	OUT DATA 1	Gray
	5	Ground (GND)	Black
	6	Ground (GND)	Black

RS-485 Connection



Type	Pin No.	Pin Name	Color
RS-485	1	RS-485-1 DATA - (DM)	Yellow
	2	RS-485-1 DATA + (DP)	Gray
	3	RS-485-2 DATA - (DM)	Blue
	4	RS-485-2 DATA + (DP)	White

3. Using FACE CAMERA

This section describes how to use FACE CAMERA for face recognition and authentication. It gives an overview of the user interface and instructions for enrollment and authentication.

3.1. Enrollment

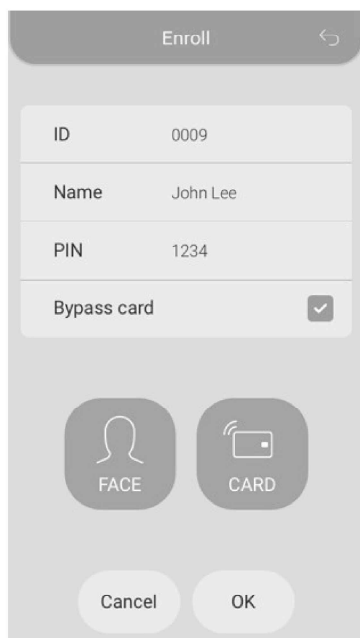
This section gives the procedural information to enroll users to the device.

1. Press **Menu icon**(☰) in the upper-left corner of the main screen.
2. Press **User**.
3. Press the **Plus** icon in the bottom.
4. Type **ID** and **Name**.
5. Press one or more credential type buttons (FACE, CARD) to add to the user.
 - For **FACE**, let the user stand in front of device and complete the face capture.
 - For **CARD**, put the card on the device's card reader. When the CSN (card serial number) appears on the screen, press **OK**.



Optionally, select **Bypass card** to allow the user to get access permission by using a registered card alone regardless of authentication mode

6. Press **OK** to complete the enrollment.

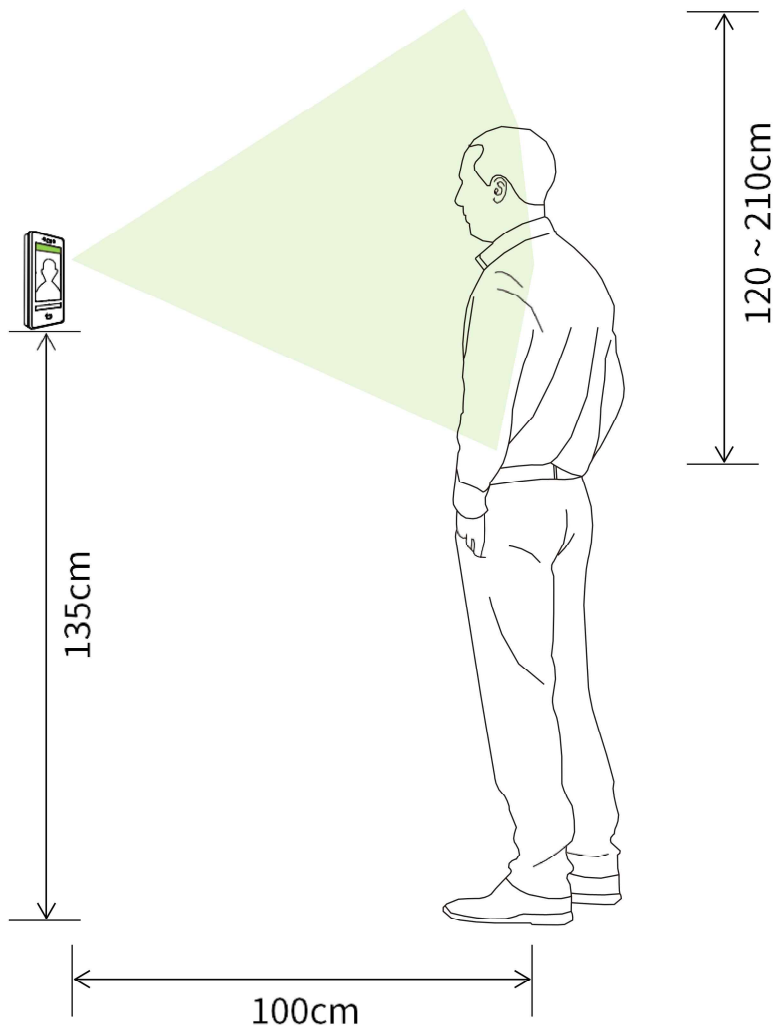


The screenshot shows the 'Enroll' screen with the following details:

- ID:** 0009
- Name:** John Lee
- PIN:** 1234
- Bypass card:** ☒
- Buttons:** FACE (with face icon), CARD (with card icon)
- Footer:** Cancel, OK

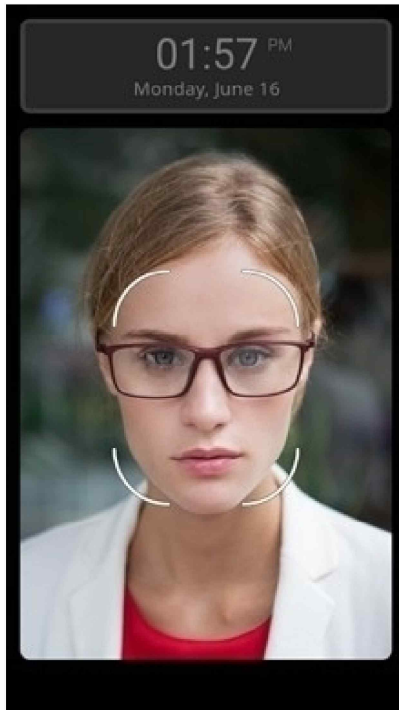
3.2. Authentication

FACE CAMERA detects and displays the subject's face over 2.0 meters from the system on the high-resolution color display. The subject will simply and naturally walk toward the face capture range of 0.4 to 2.0 meter. Once the system recognizes the subject, the result will be displayed immediately with indication line over the subject's face image.

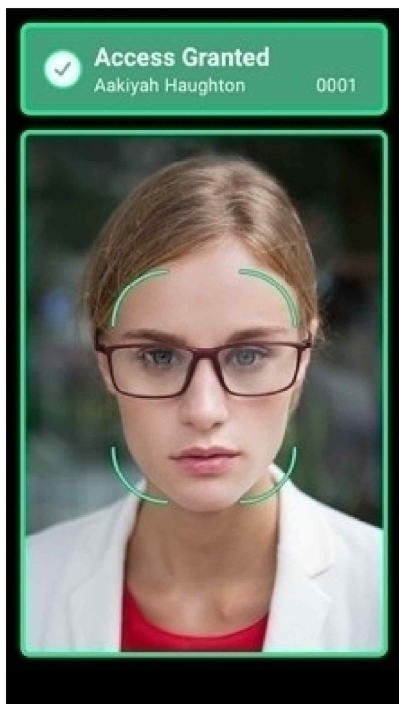


Capture height range at recommended camera installation height of 135 cm

1. Position yourself in front of device, while looking at screen. White scan frame appears around the face when your face is detected.



2. Authentication result is displayed on the top of the screen depending on whether your face is recognized successfully.



4.2. Technical Specifications

Specification	Description
CPU	Octa core ARM with NPU
Number of cameras	Two (2)
Illumination	One visible (white) and one near-infrared (NIR) LED for optimal face detection and operation in low ambient light conditions
Dimensions	82 x 182 x 27 mm (without wall plate), 82 x 182 x 28 mm (with wall plate)
Weight	380 g (without wall mount plate), 465 g (with wall mount plate)
Display	4.96 inch (nominal), touch screen
Operating capture range	40 cm to 200 cm Configurable maximum operating distance
User height range	120 cm to 210 cm (with system installed at 135 cm)
Face extraction (encoding) and matching algorithm	YES, on-board algorithm functions included as standard
Authentication speed	Within 0.5 second
Enrollment speed	Within 3.0 second
Fake face detection	YES
Data base size, on-board	Maximum 50,000 subjects in 1:N mode (authentication)
Text Log	3,000,000
Image Log	10,000
Audio In / Out	Embedded microphone and built-in speaker
RF card reader	Standard ISO/IEC 14443 A/B, MiFare, DesFire, FeliCa, and HID



HID card support

- 13.56 MHz, 1CH: OMNIKEY chipset
- HID Prox™ (125 kHz, 1CH)

BLE Bluetooth 5.2 (BLE Only, 2402~2480 MHz, 40CH)

Specification	Description
I/O connections	RJ45 for Ethernet (10/100/1000), Wiegand IN, Wiegand OUT, GPI x 4, dry contact relay, RS-485 (2 channels), tamper, factory reset, SIM socket (optional), USB 2.0 host (Maintenance Use)
OSDP compatibility	V2 supported 2 channel master or slave through RS-485 port
PoE	Optional (IEEE 802.3af), DC 48V
Power requirements	DC 15V (An external power supply may be included depending on the product configuration.)
consumption	Maximum 15 W
Operating temperature	-20 to 50 °C
Operating humidity	10 to 90% non-condensing
IP/IK rating	IP65, IK06
Certifications	CE, FCC(2AJY5-NF-3-BPIM), KC, UKCA, RoHS
Model	Basic : NovaFace-3-BPIM Derivative : NovaFace-3-BPM / NovaFace-3-BIM / NovaFace-3-BM Derivative : NanoFace-3H (OEM, Same specifications as the basic model)