

UBio-N Face Mini User's Guide



UNION
COMMUNITY

<Revision History>

Version	Date	Description	Firmware Version
1.0	2024-08-01	Initial Release	v000.002

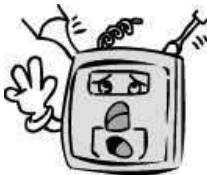
0. INDEX

<Revision History>	2
0. INDEX	3
1. Before use	4
1.1. Safety precautions	4
1.2. Specific names of the terminal	5
2. Product introduction	6
2.1. Product characteristics	6
2.2. Specifications	7
3. Environment Settings	8
3.1. Things to check before setting the environment	8
3.1.1. Setting network information	8
3.1.2. Access the settings	9
3.1.3. Device Information	10
3.2. Menu Tree	11
3.3. Application	12
3.3.1. Authentication	12
3.3.2. Facial Recognition	13
3.3.3. Mask Detection	14
3.4. System Settings	15
3.4.1. Time	15
3.5.1. Network	15
3.5.2. Sound	16
3.5.3. Camera Setting	16
3.5.4. LED Lighting	17
3.5.5. Admin PW Update	17
3.5.6. Device Configuration	18
3.5.7. Firmware Update	18
3.5.8. Initialization	19

1. Before use

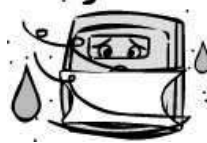
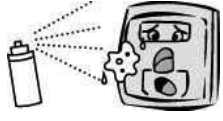
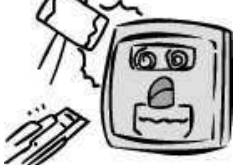
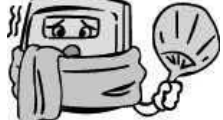
1.1. Safety precautions

● Warning

Handling with wet hands or allowing liquid to flow into it is prohibited. -> It may cause an electric shock or damage. 	Do not place a fire source near the terminal. -> It may cause a fire. 
Do not disassemble, repair, or modify the terminal at discretion. -> It may cause an electric shock, fire or damage. 	Keep out of reach of children. -> It may cause an accident or damage. 

- If the above warning is ignored, it may result in death or serious injury.

● Cautions

Keep away from direct sunlight -> It may cause deformation or color change. 	Avoid high humidity or dust -> The terminal may be damaged. 
Avoid using water, benzene, thinner, or alcohol for cleaning -> It may cause an electric shock or fire. 	Do not place a magnet close to the terminal. -> The terminal may break down or malfunction. 
Do not contaminate the fingerprint input area. -> Fingerprints may not be well recognized. 	Avoid using insecticide or flammable spray near the terminal. -> It may result in deformation or color change. 
Avoid impacts or using sharp objects on the terminal. -> The terminal may be damaged and broken. 	Avoid severe temperature changes -> The terminal may be broken. 

- If the above cautions are ignored, it may result in property loss or human injury.

※ Under no circumstances will UNION COMMUNITY be responsible for accidents or damages caused by inappropriate use of the product without referring to the user manual.

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1.2. Specific names of the terminal



2. Product introduction

2.1. Product characteristics

- Face recognition device for office and home use
- Applied with 5M camera
- Anti-Spoofing possible with dual camera (color & IR)
- RF (125kHz) and Smart Card (13.56MHz) Reader can be used together
- Access control system using network (LAN)
- Simple design

2.2. Specifications

ITEM	SPEC	REMARK
CPU	Cortex A53 Quad Core 1.8GHz)	
MEMORY	eMMC 32GByte	
	LPDDR4 / 4GByte x 1EA	
USB Interface	USB2.0 C-Type OTG 1port	FW DOWNLOAD
Camera	5MPixel Dual Camera (Color & IR)	
Wireless	Bluetooth LE	
Audio	Max 1W Speaker	
Temperature / Humidity	-20 ~ 50°C / Lower than 90% RH	
AC / DC Adapter	INPUT : Universal AC100 ~ 250V	
	OUTPUT : DC 24V	
PoE	IEEE802.3at PD, 24W (24V, 1A)	
Lock Control	EM, Strike, Auto Door	
I/O	1 Input, 1 Output	
Communication Port	TCP/IP (10/100/1000Mbps)	
	RS-232	Console
	RS-485	
	Wiegand In/Out	
Card Reader	125KHz EM & 13.56MHz Smart Card Reader, ISO14443A/B, MiFare, MiFare Plus, Felica, ISO15693, HiD iCLASS(option), HiD Prox(option)	
ToF Sensor	60Hz, 400cm, 8x8 Multizone	
SIZE	85 x 165 x 41 (mm)	

3. Environment Settings

3.1. Things to check before setting the environment

3.1.1. Setting network information

Generate QR code using NEC Initializer.

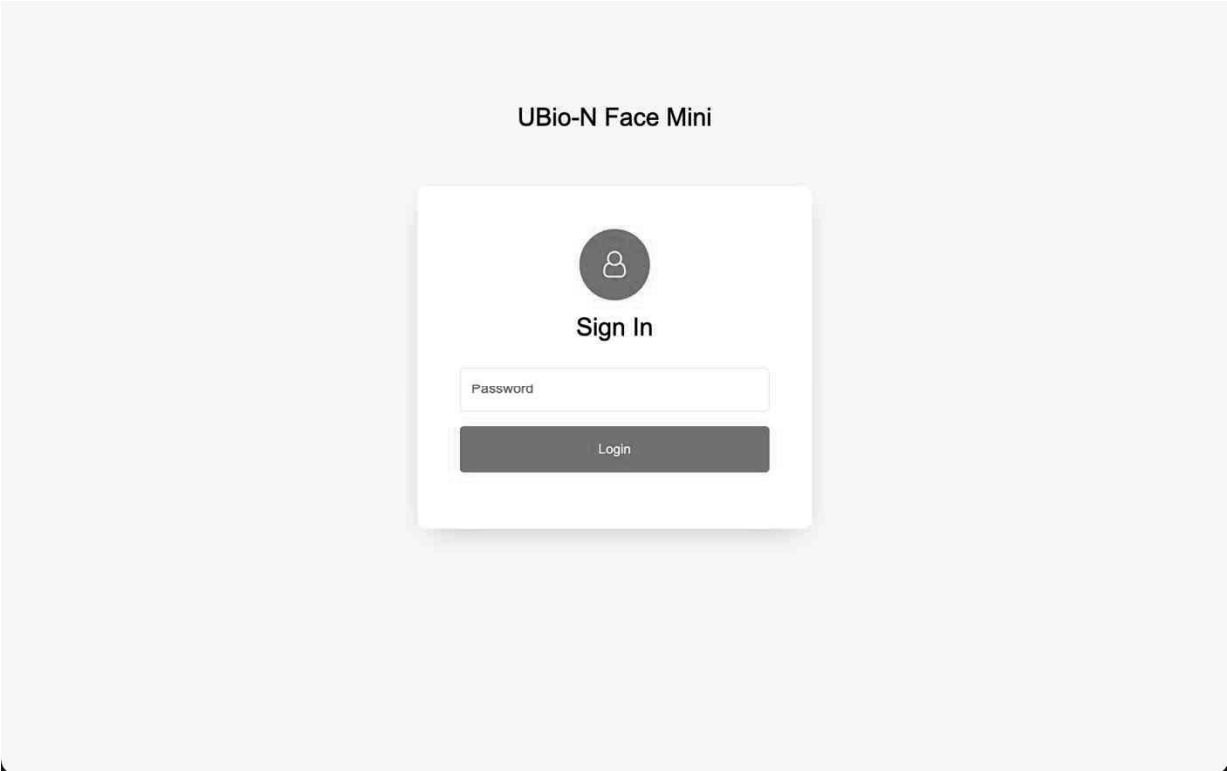


Touch the F1 and F2 buttons on the UBio-N Face Mini for 8 seconds to change to QR recognition mode.

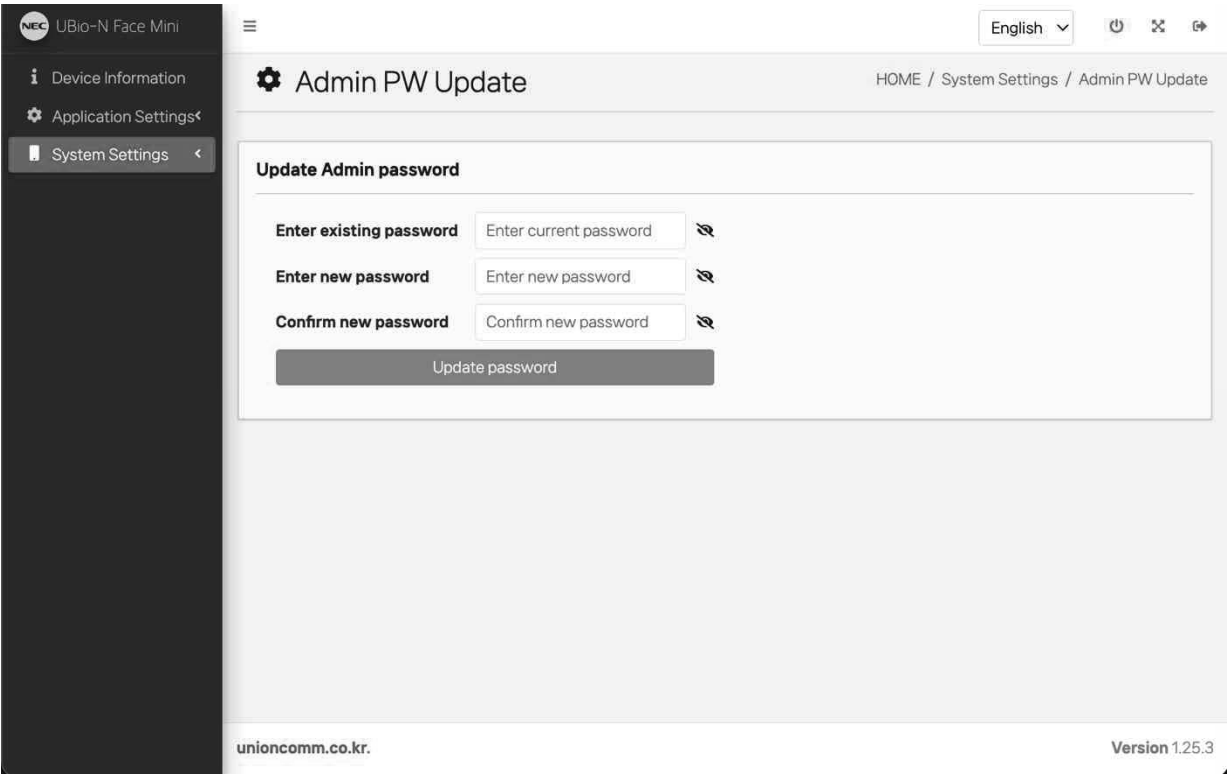
Change the network settings by recognizing the QR code with the front camera.

3.1.2. Access the settings

Connect to UBio-N Face Mini by entering network information in a web browser.

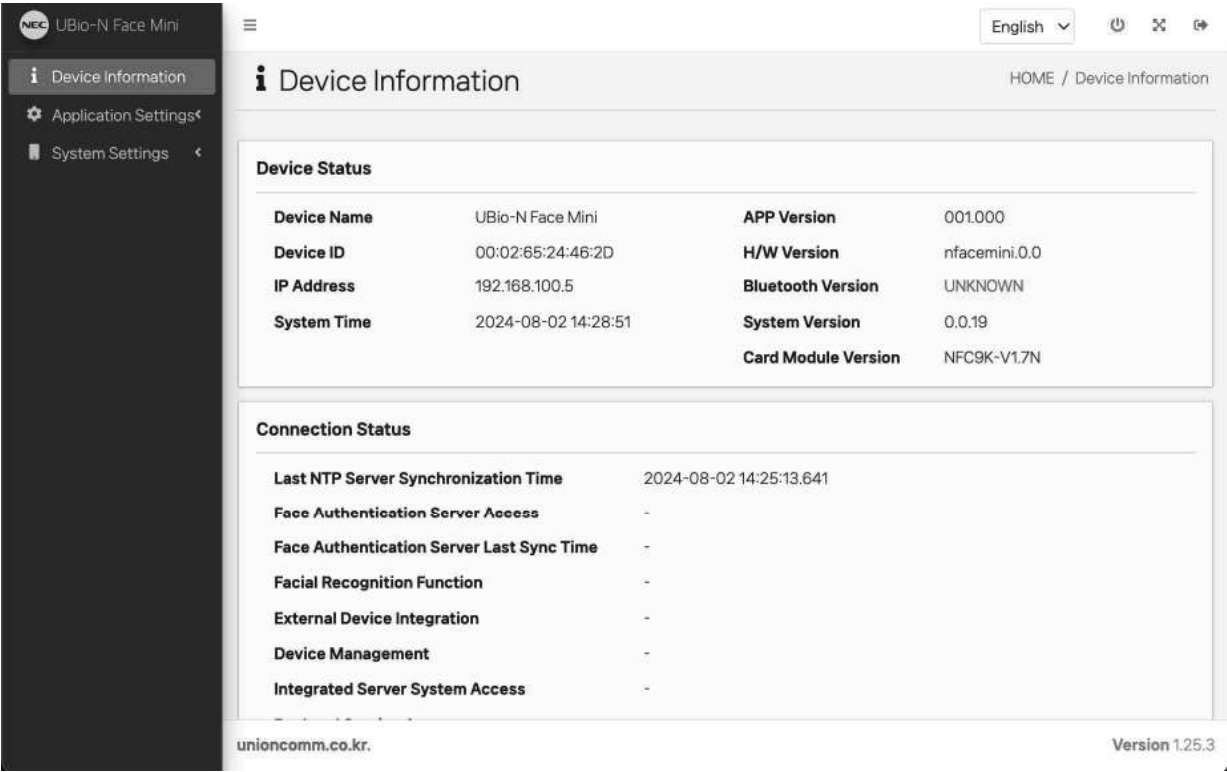


The connection port is 8080 and the initial password is admin.



Change the initial password.

3.1.3. Device Information



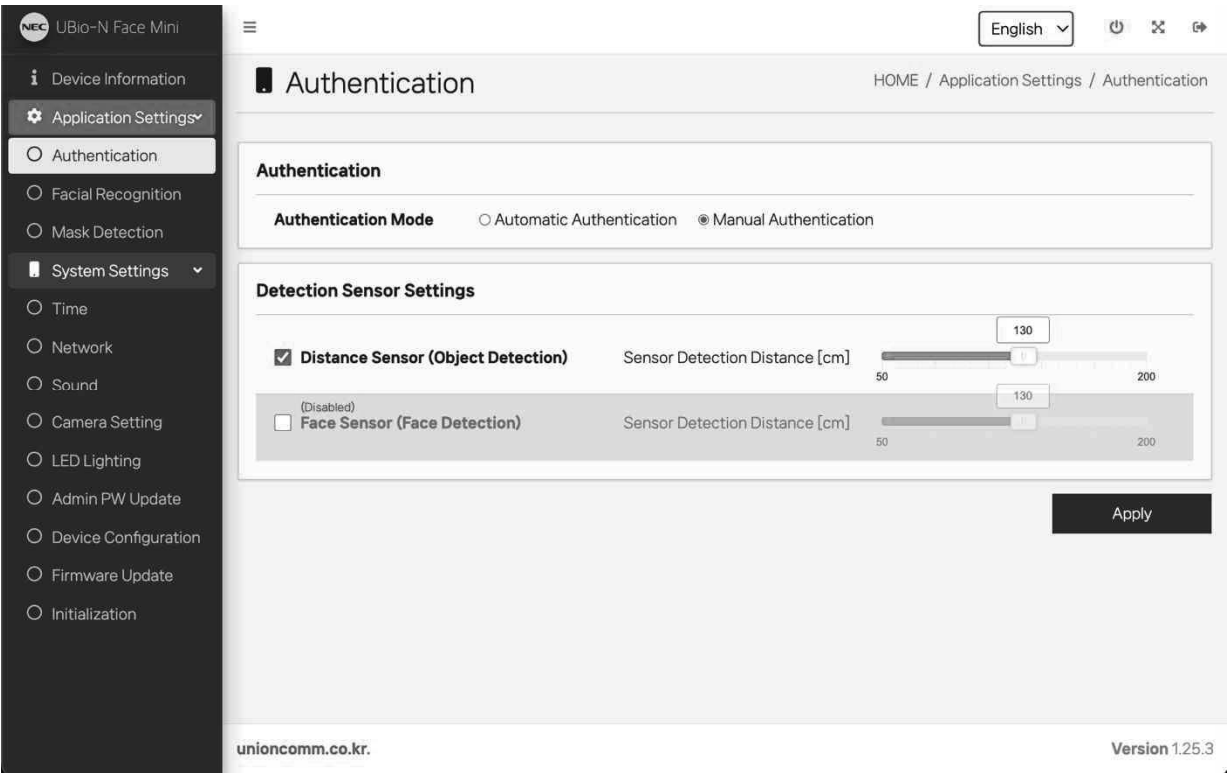
The Device's basic information is displayed.

3.2. Menu Tree

Device Information		▶ Device Status ▶ Connection Status
Application Settings	Authentication	▶ Authentication ▶ Detection Sensor Settings
	Facial Recognition	▶ Face Authentication Feature Settings ▶ Face Authentication Server Settings
	Mask Detection	▶ Mask Detection
System Settings	Time	▶ Time
	Network	▶ Network
	Sound	▶ Volume Setting ▶ Customizing Sound
	Camera Setting	▶ AE Setting ▶ Image Tuning
	LED Lighting	▶ LED Lighting
	Admin PW Update	▶ Update Admin password
	Device Configuration	▶ Device Configuration ▶ Terminal Management
	Firmware Update	▶ Firmware Update
	Initialization	▶ Reset application ▶ Reset system

3.3. Application

3.3.1. Authentication



Set the authentication mode.

Automatic : After sensor recognition, automatically release the standby mode.

Manual : After sensor recognition, touch the button to release the standby mode.

Set the detection sensor.

Distance sensor: Set the recognition distance.

Face sensor: Set the recognition distance.

3.3.2. Facial Recognition

The image displays two screenshots of the UBio-N Face Mini web interface, showing the 'Facial Recognition' settings page. The interface is in English and includes a sidebar menu with options like Device Information, Application Settings, Authentication, Facial Recognition, Mask Detection, System Settings, Time, Network, Sound, Camera Setting, LED Lighting, Admin PW Update, Device Configuration, Firmware Update, and Initialization.

Facial Recognition Feature Settings

- Authentication Area:** WIDE (dropdown)
- Same User Authentications [Unit: sec]:** 1 to 30 (slider, set to 29)
- Quick Authentication Mode:** ON (toggle)
- Anti-Spoofing:** ON (toggle)
- Anti-Spoofing Settings:** Low (dropdown)
- Anti-Spoofing Alarm:** OFF (toggle)
- A-S Continuous Detection Count:** 1 to 9 (slider, set to 3)
- Face Matching Settings (Default):** 40 to 90 (slider, set to 60)
- Face Matching Settings (Mask):** 40 to 100 (slider, set to 80)
- Face Detection Distance [Unit: cm]:** 60 to 135 (slider, set to 80)

Facial Recognition Server Settings

- Server URL:** what is this? (text input)
- UserName:** myAdmin009 (text input)
- UserPassword:** (password input)
- BIS WatchListIds:**

No.	ID.
1	OMG
2	HELLO
3	WHO?
4	simple
5	한국어
- Add:** (button)
- BIS WatchListCustomIds:**

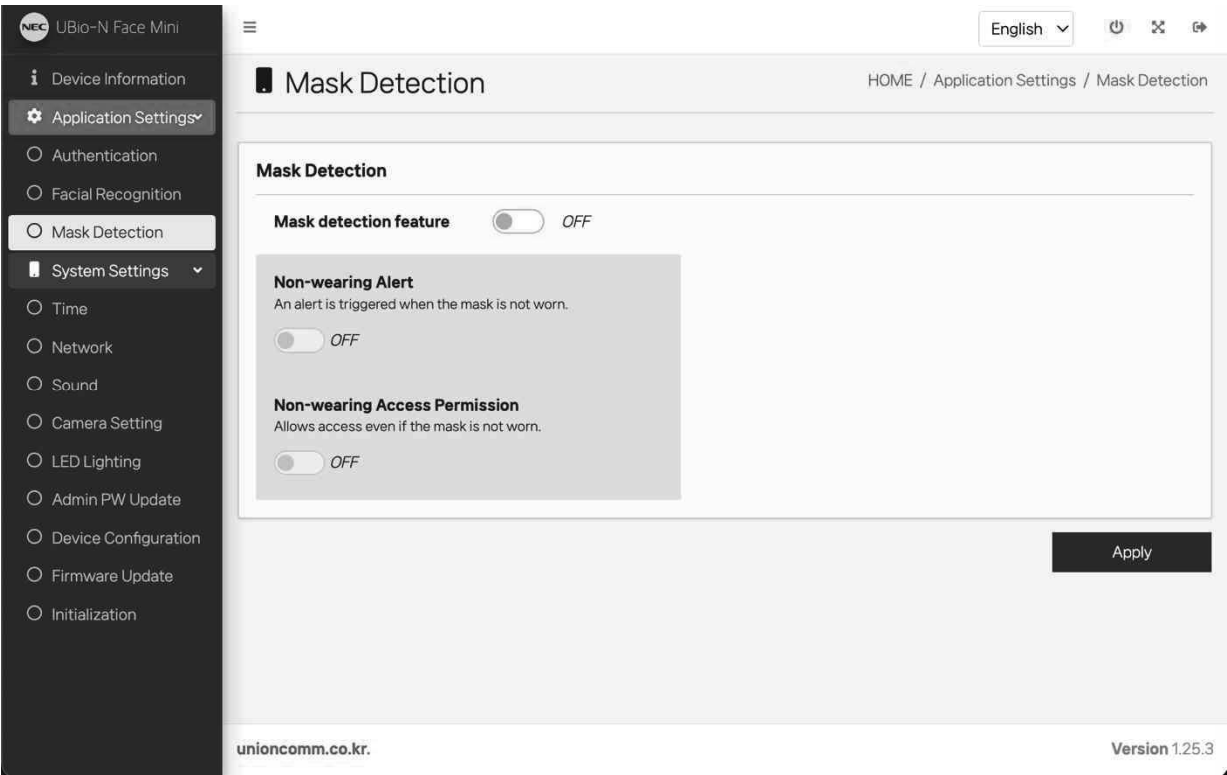
No.	ID.
1	OSGMG
2	HELLOWD
3	WHO?IS?
4	harder
5	한글101

Configure settings related to face authentication.

Face Authentication Feature Settings: Configure settings for the face auth feature.

Face Authentication Server Settings: Configure settings for the face authentication server.

3.3.3. Mask Detection



Configure settings related to mask detection.

Non-wearing Alert: An Alert is triggered when the mask is not worn.

Non-wearing Access Permission: Allow Access event if the mask is not worn.

3.4. System Settings

3.4.1. Time

UBio-N Face Mini

English

HOME / System Settings / Time

Time

Time Zone (Timezone) Asia/Tokyo

Automatic Time Setting ☒ ON

NTP Server 1 time.nist.gov

NTP Server 2 time.google.com

Manual Time Setting Change Time

Apply

unioncomm.co.kr Version 1.25.3

Set the time zone and NTP server.

3.5.1. Network

UBio-N Face Mini

English

HOME / System Settings / Network

Network

☒ Automatically receive IP settings

☐ Use the following IP address (manual setting)

IP Address 192 . 168 . 0 . 2

Subnet Mask 255 . 255 . 255 . 0

Default Gateway 192 . 168 . 0 . 1

Primary DNS Server 8 . 8 . 8 . 8

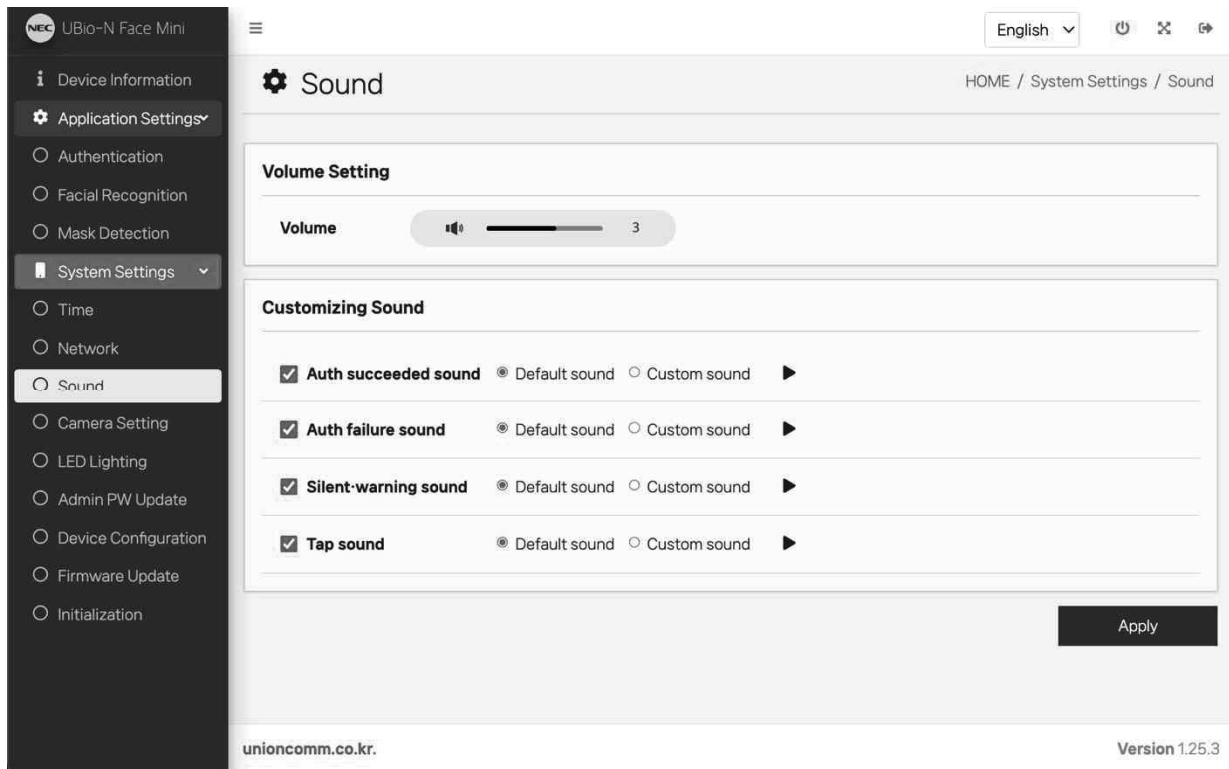
Secondary DNS Server 4 . 4 . 4 . 4

Apply

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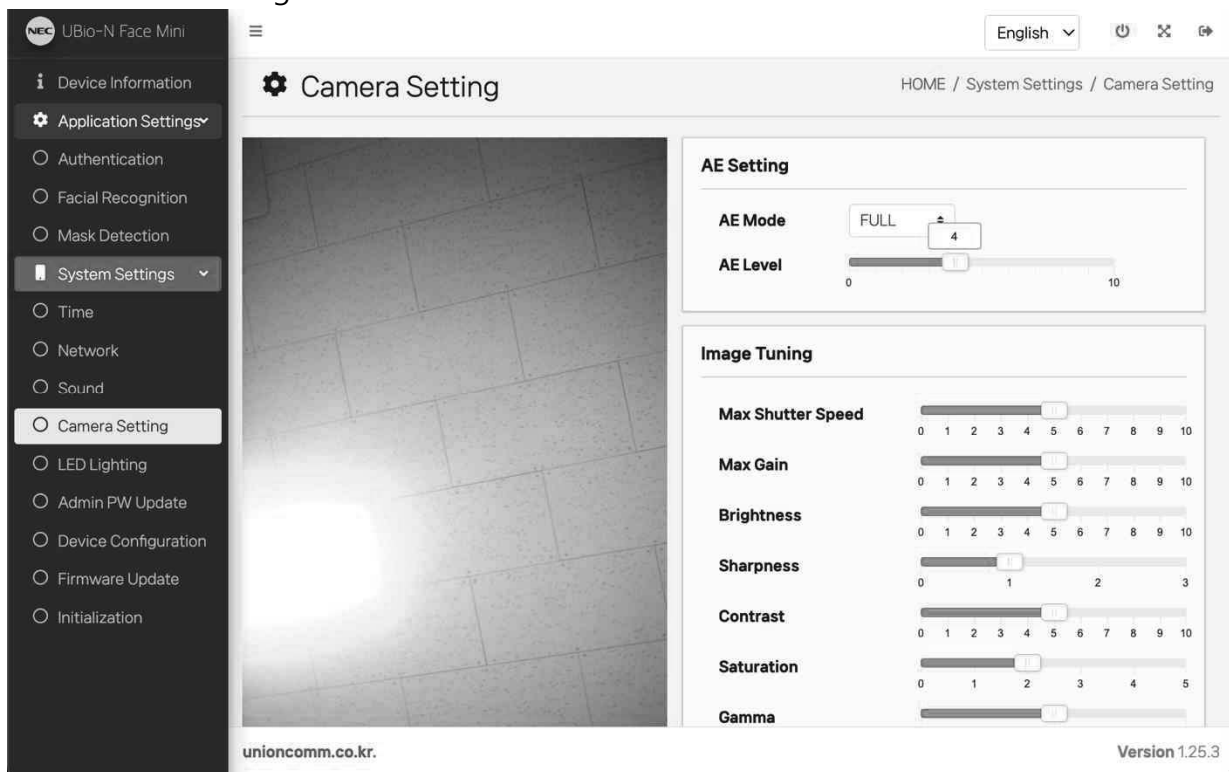
Set network information.

3.5.2. Sound



Set up the sound.

3.5.3. Camera Setting



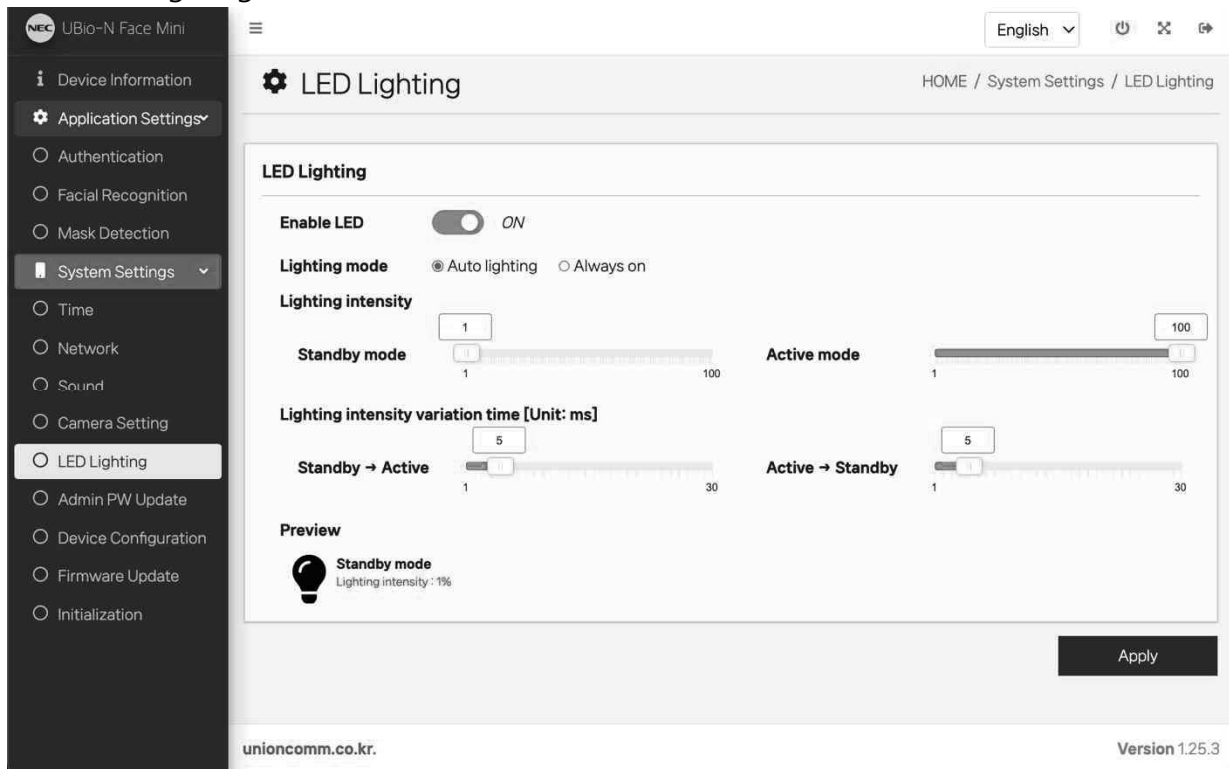
Set up the camera.

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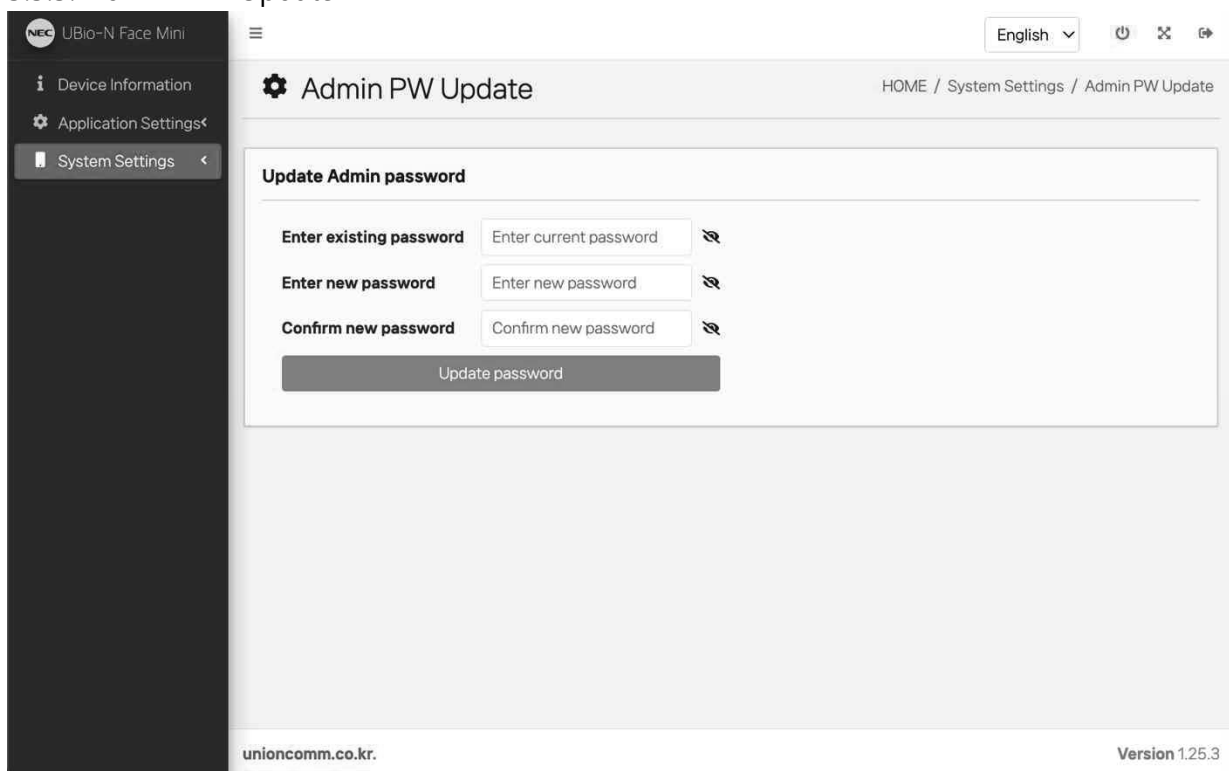


3.5.4. LED Lighting



Set up the LED Light.

3.5.5. Admin PW Update



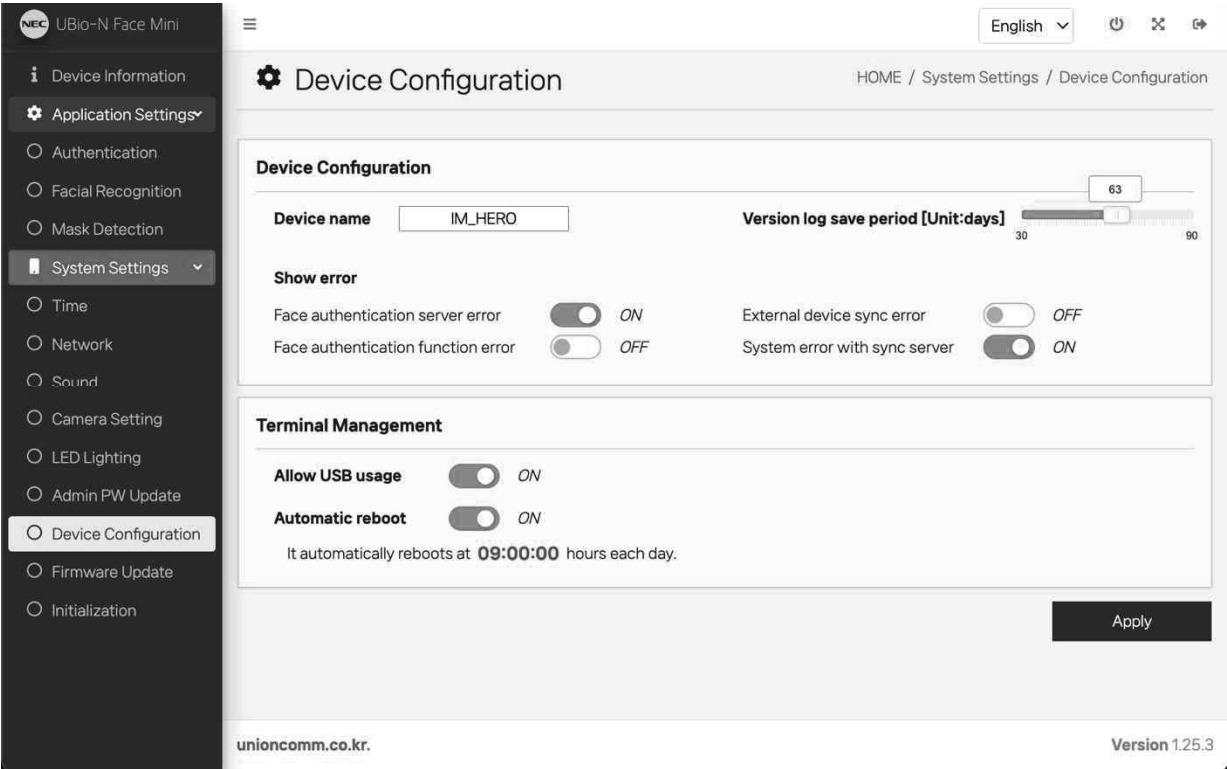
Change the admin password.

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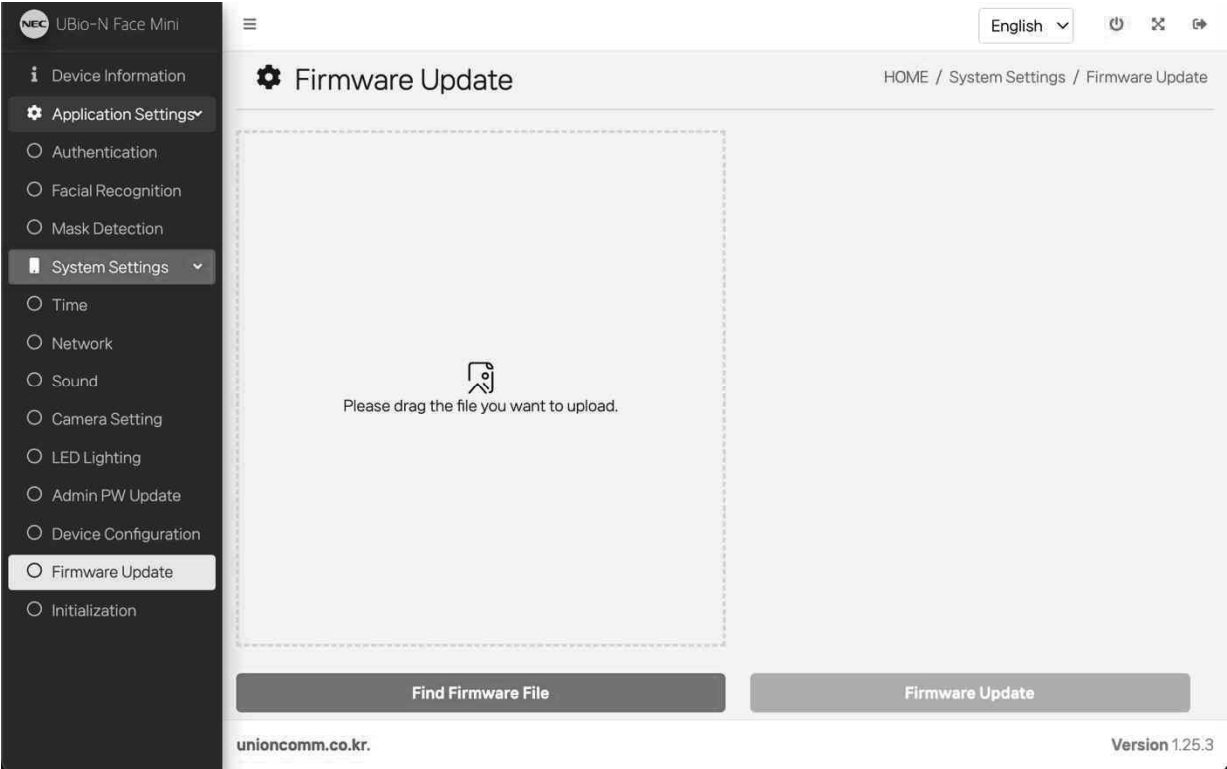


3.5.6. Device Configuration



Change terminal settings.

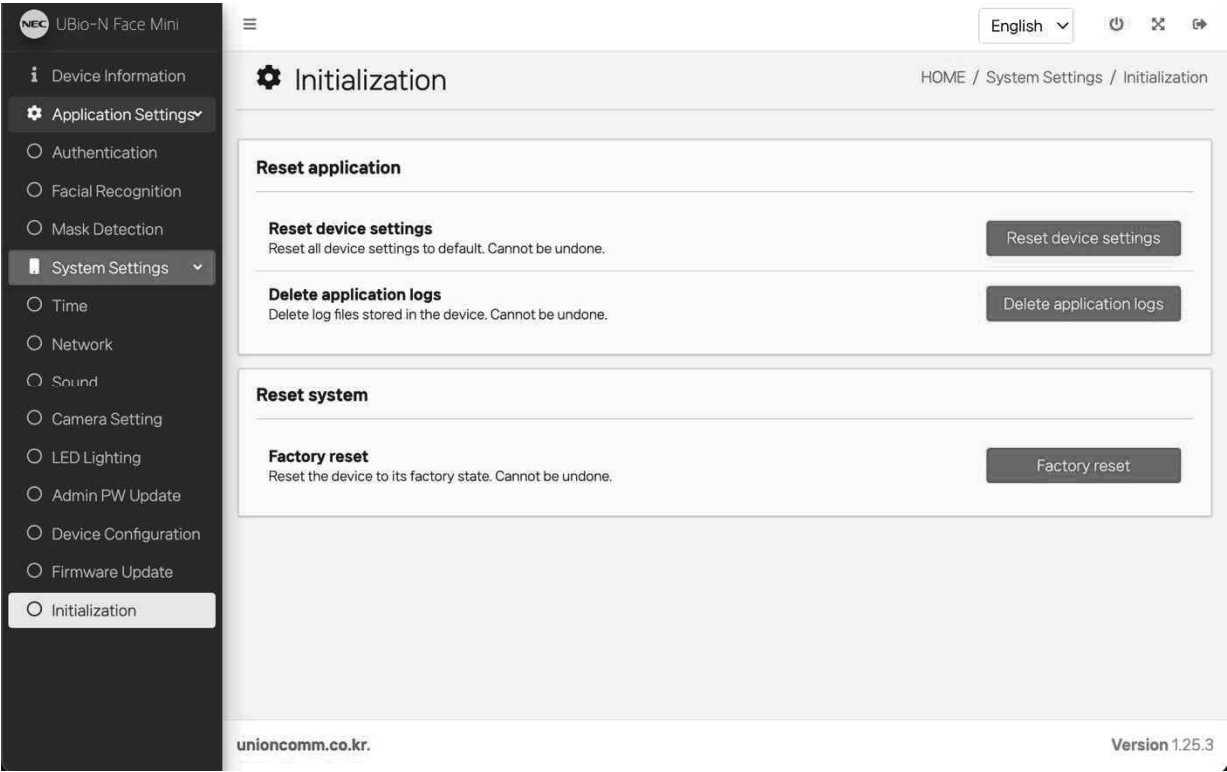
3.5.7. Firmware Update



Update Firmware.



3.5.8. Initialization



Initializes the terminal.

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.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Caution

THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE.

SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

IMPORTANT NOTE : FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.