

UBio-N Face Mini User's Guide



UNION
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<Revision History>

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

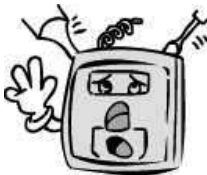
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1. Before use

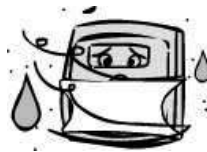
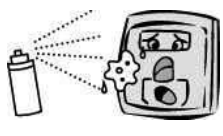
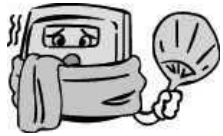
1.1. Safety precautions

● 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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12F, Daemyung Valeon bldg, 127, Beobwon-ro, Songpa-Gu, Seoul, Republic of Korea 05836
Tel : 02-6488-3000 , Fax : 02-6488-3099, E-Mail : sales@unioncomm.co.kr



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.

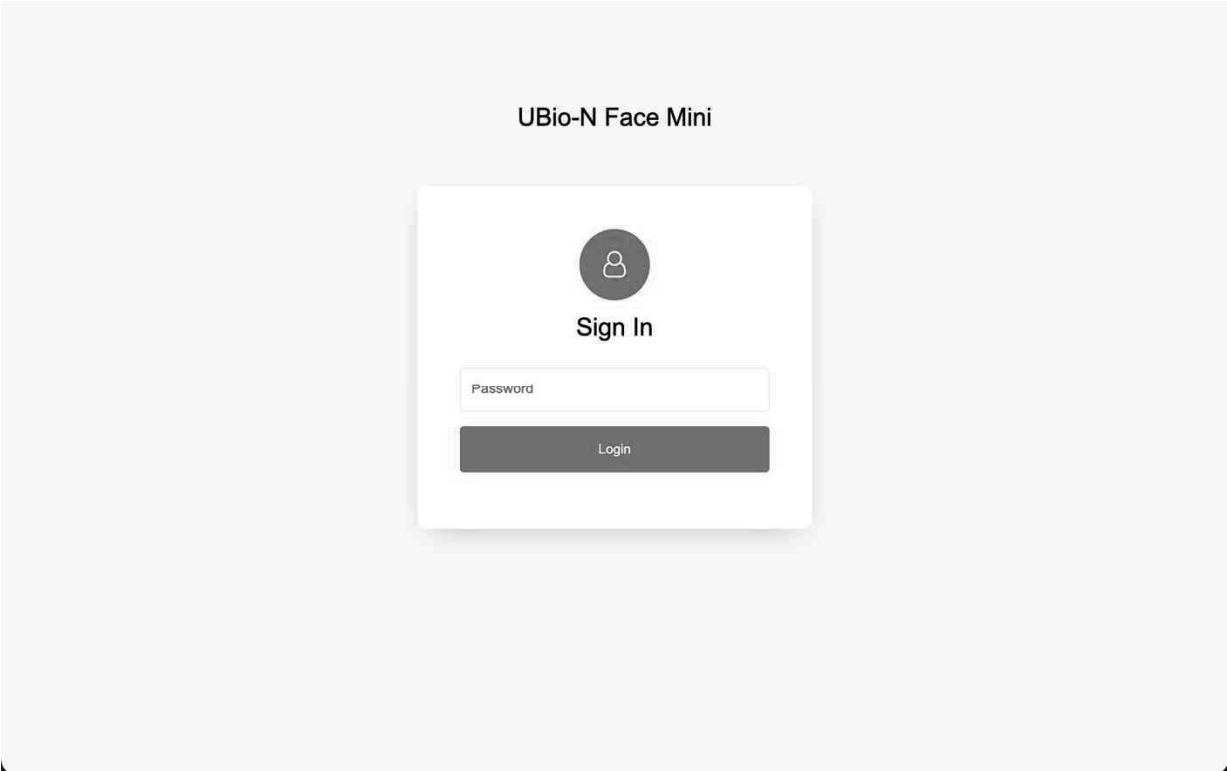


Touch the F1 and F2 buttons on the UBio-N Face Mini for 8 seconds to change to QR recognition mode.

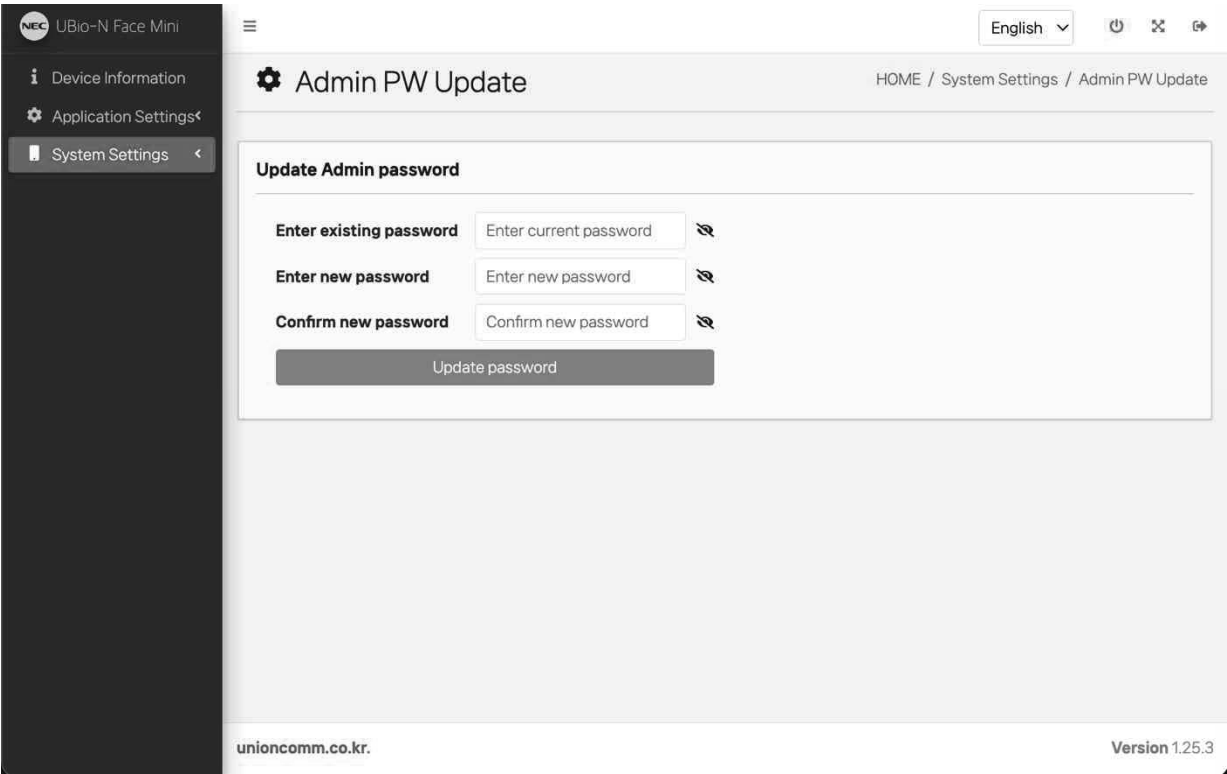
Change the network settings by recognizing the QR code with the front camera.

3.1.2. Access the settings

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



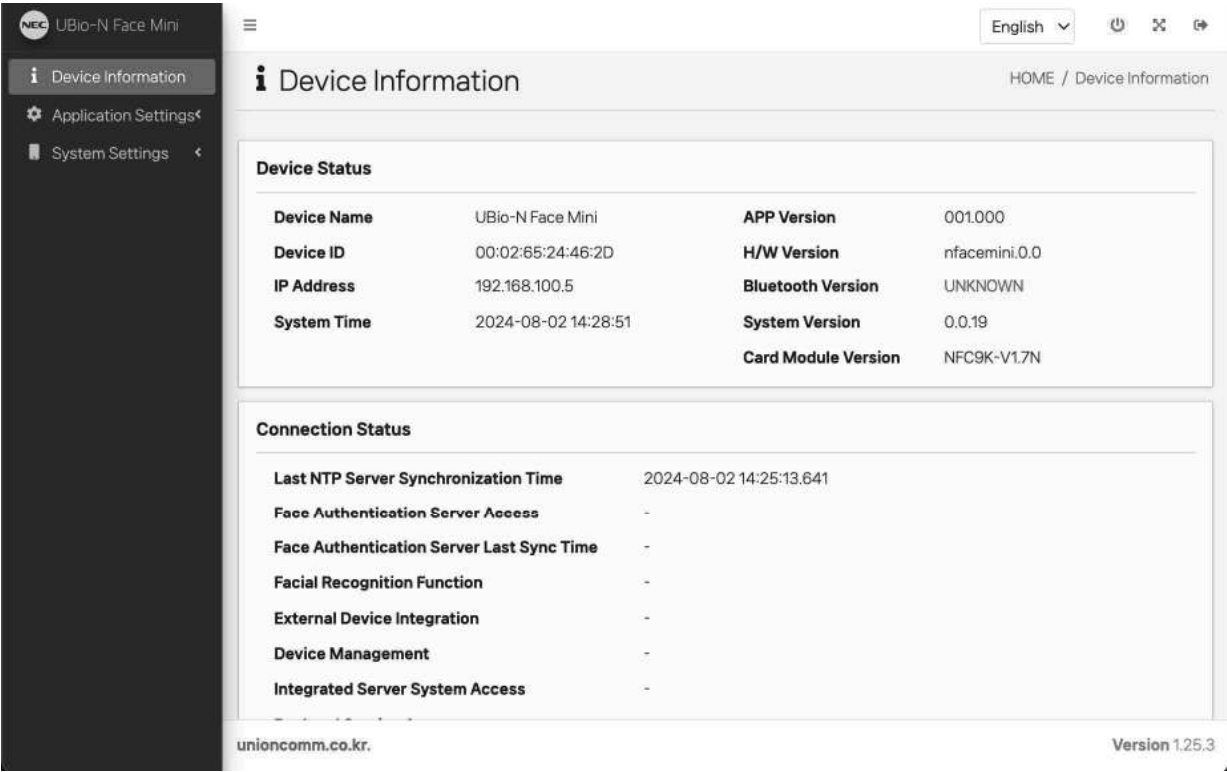
The connection port is 8080 and the initial password is admin.



Change the initial password.



3.1.3. Device Information



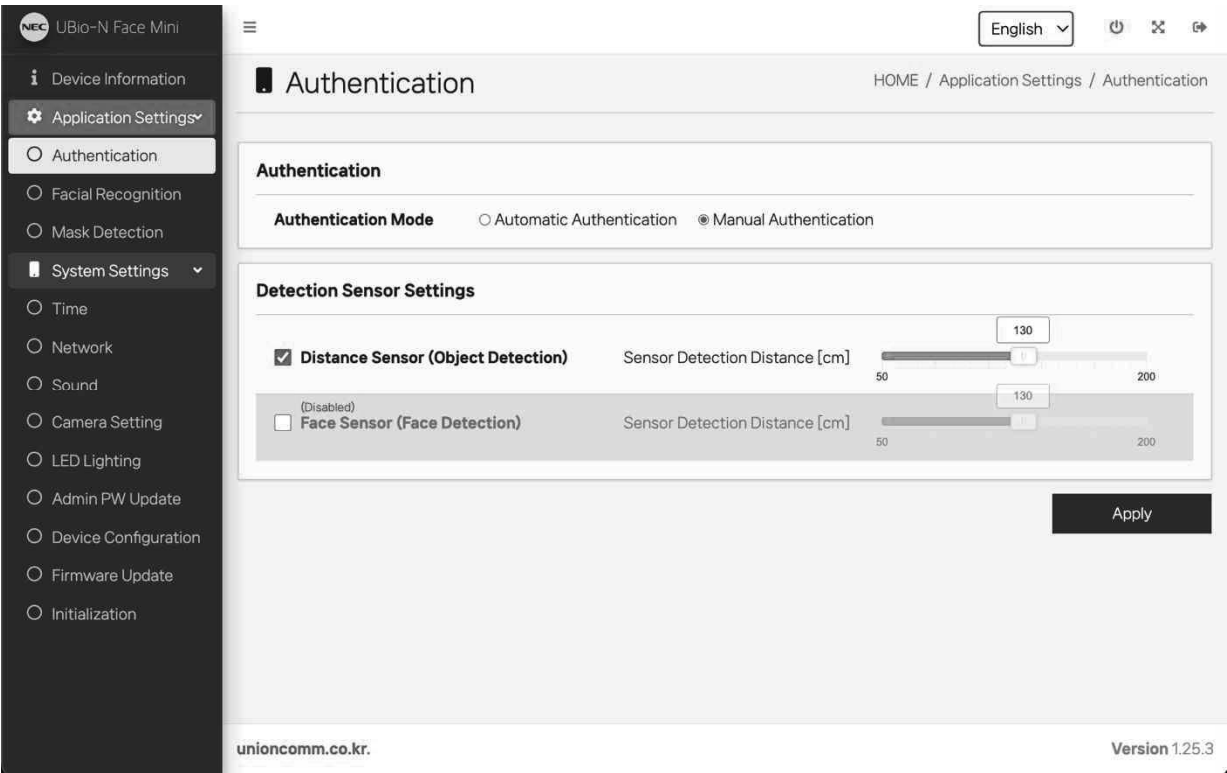
The Device's basic information is displayed.

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 Settings (Top Screenshot):

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

Facial Recognition Server Settings (Bottom Screenshot):

- Server URL:** what is this?
- UserName:** myAdmin009
- UserPassword:** [masked]
- BIS WatchListIds:**

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

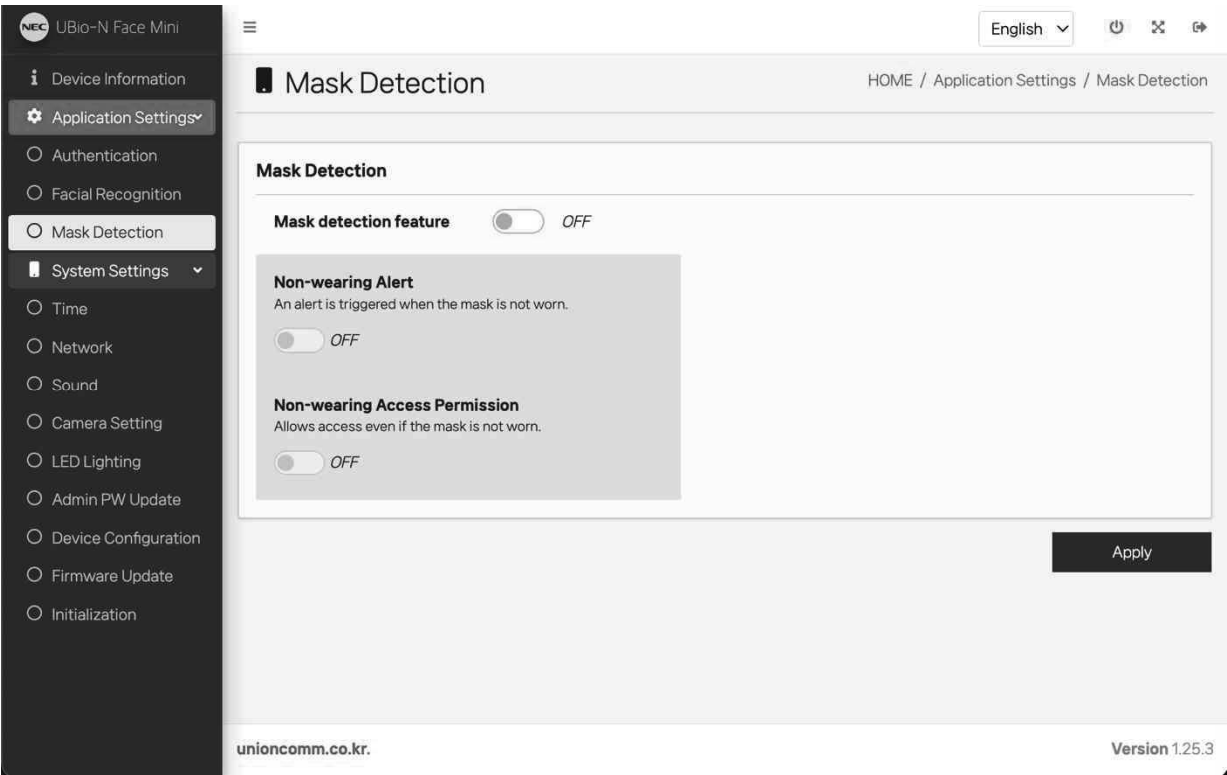
No.	ID.
1	OSGMG
2	HELLOWD
3	WHO?IS?
4	harder
5	한글101

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

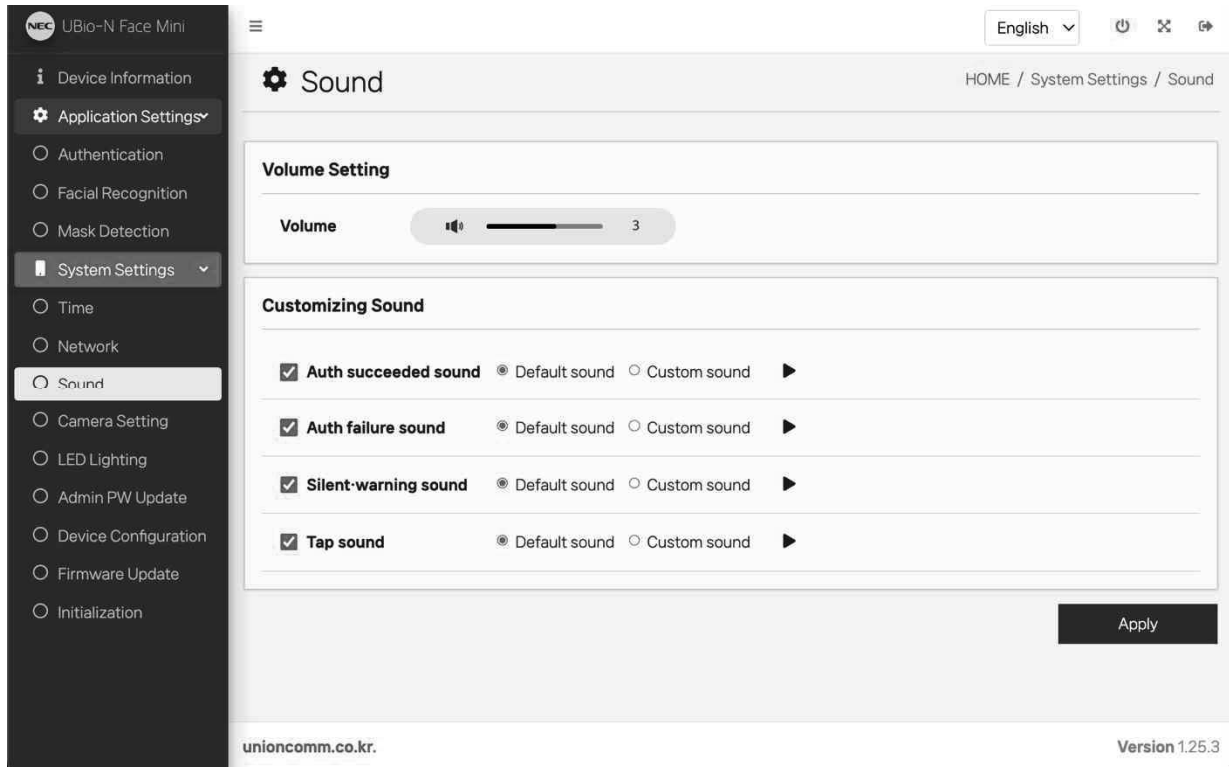
Secondary DNS Server 4 . 4 . 4 . 4

Apply

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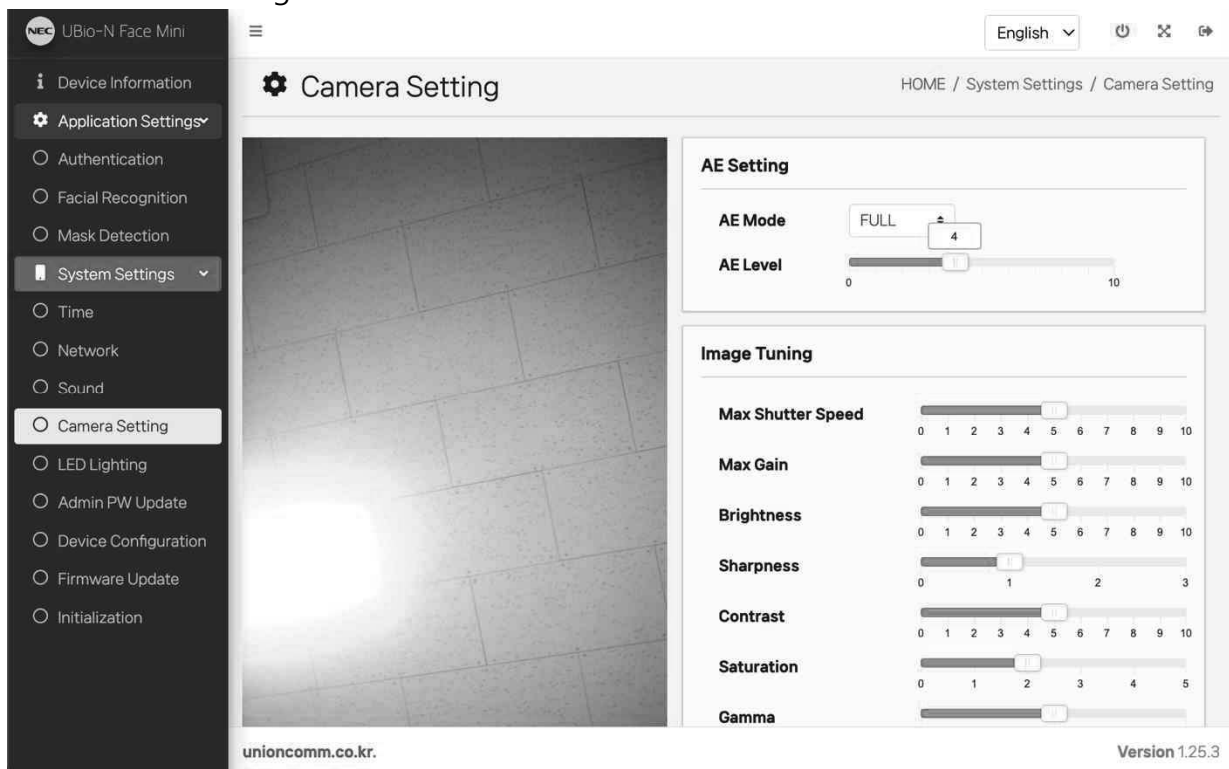
Set network information.

3.5.2. Sound



Set up the sound.

3.5.3. Camera Setting



Set up the camera.

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12F, Daemyung Valeon bldg, 127, Beobwon-ro, Songpa-Gu, Seoul, Republic of Korea 05836
Tel : 02-6488-3000 , Fax : 02-6488-3099, E-Mail :sales@unioncomm.co.kr

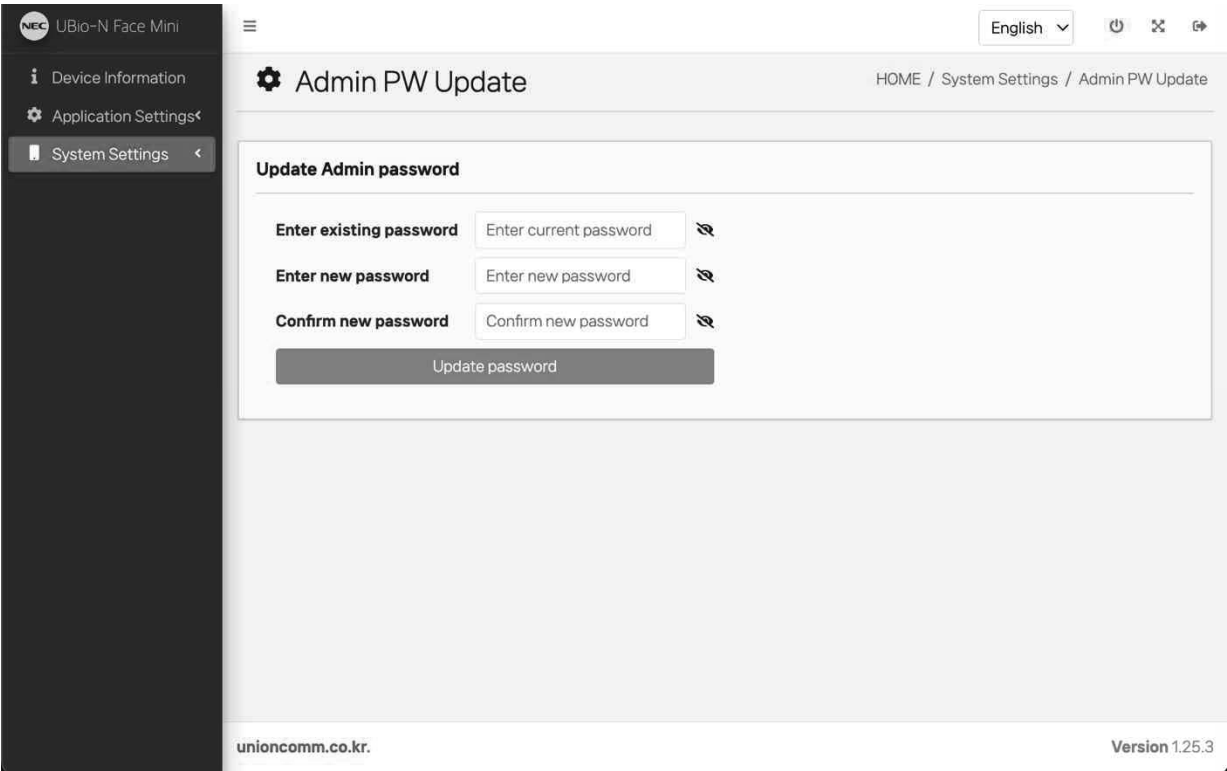


3.5.4. LED Lighting



Set up the LED Light.

3.5.5. Admin PW Update



Change the admin password.



3.5.6. Device Configuration

The screenshot shows the 'Device Configuration' page of the UBio-N Face Mini web interface. The left sidebar contains a menu with 'System Settings' expanded, showing options like Time, Network, Sound, Camera Setting, LED Lighting, Admin PW Update, Device Configuration (selected), Firmware Update, and Initialization. The main content area has a header 'Device Configuration' and a breadcrumb 'HOME / System Settings / Device Configuration'. Below this, there are two sections: 'Device Configuration' and 'Terminal Management'. The 'Device Configuration' section includes a 'Device name' field with 'IM_HERO', a 'Version log save period [Unit:days]' slider set to 63, and a 'Show error' section with three toggle switches: 'Face authentication server error' (ON), 'Face authentication function error' (OFF), 'External device sync error' (OFF), and 'System error with sync server' (ON). The 'Terminal Management' section includes 'Allow USB usage' (ON) and 'Automatic reboot' (ON) toggle switches, with a note 'It automatically reboots at 09:00:00 hours each day.' An 'Apply' button is at the bottom right. The footer shows 'unioncomm.co.kr' and 'Version 1.25.3'.

Device Configuration

HOME / System Settings / Device Configuration

Device Configuration

Device name: IM_HERO

Version log save period [Unit:days]: 63

Show error

Face authentication server error: ON

Face authentication function error: OFF

External device sync error: OFF

System error with sync server: ON

Terminal Management

Allow USB usage: ON

Automatic reboot: ON

It automatically reboots at 09:00:00 hours each day.

Apply

unioncomm.co.kr

Version 1.25.3

Change terminal settings.

3.5.7. Firmware Update

The screenshot shows the 'Firmware Update' page of the UBio-N Face Mini web interface. The left sidebar is the same as in the previous screenshot, with 'Firmware Update' selected under 'System Settings'. The main content area has a header 'Firmware Update' and a breadcrumb 'HOME / System Settings / Firmware Update'. Below this, there is a large dashed box with a file upload icon and the text 'Please drag the file you want to upload.' At the bottom, there are two buttons: 'Find Firmware File' and 'Firmware Update'. The footer shows 'unioncomm.co.kr' and 'Version 1.25.3'.

Firmware Update

HOME / System Settings / Firmware Update

Please drag the file you want to upload.

Find Firmware File

Firmware Update

unioncomm.co.kr

Version 1.25.3

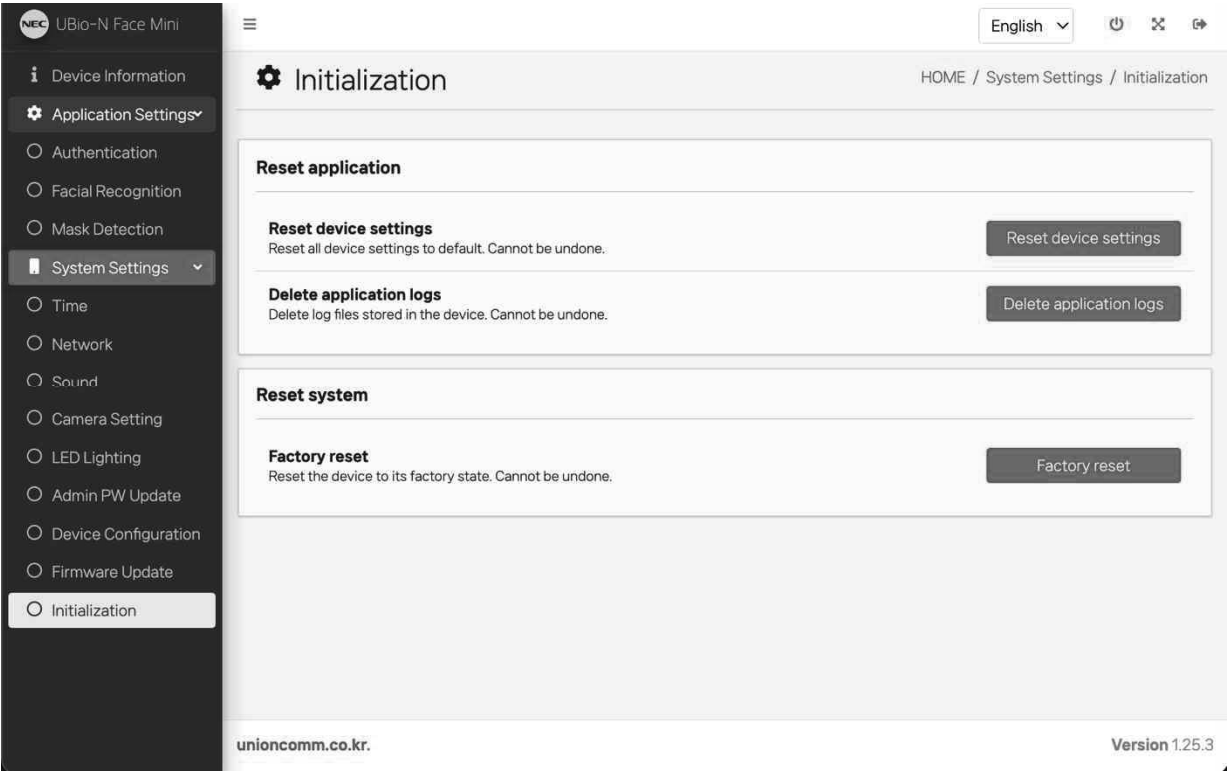
Update Firmware.

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12F, Daemyung Valeon bldg, 127, Beobwon-ro, Songpa-Gu, Seoul, Republic of Korea 05836
Tel : 02-6488-3000 , Fax : 02-6488-3099, E-Mail :sales@unioncomm.co.kr



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.