

**Fingerprint Access Controller**

**eNBioAccess-T1**

**User Guide**

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# Chapter 1 Before Starting

**1.1 Introduction**

**1.2 Components**

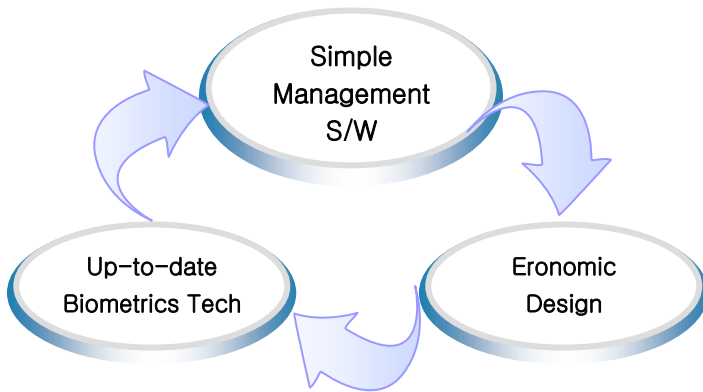
**1.3 LED Signals**

**1.4 Buzzer Sounds**

## 1.1 Introduction

Access control system **eNBioAccess-T1** of Nitgen is a superior system which organically integrated core technologies such as fingerprint verification algorithm, optical sensor, embedded design technology and software application technology which are well acknowledged throughout the world of Nitgen.

The terminals which have separately been operated are designed by considering operation efficiency of integrated monitoring and systematic managing at remote place through network.

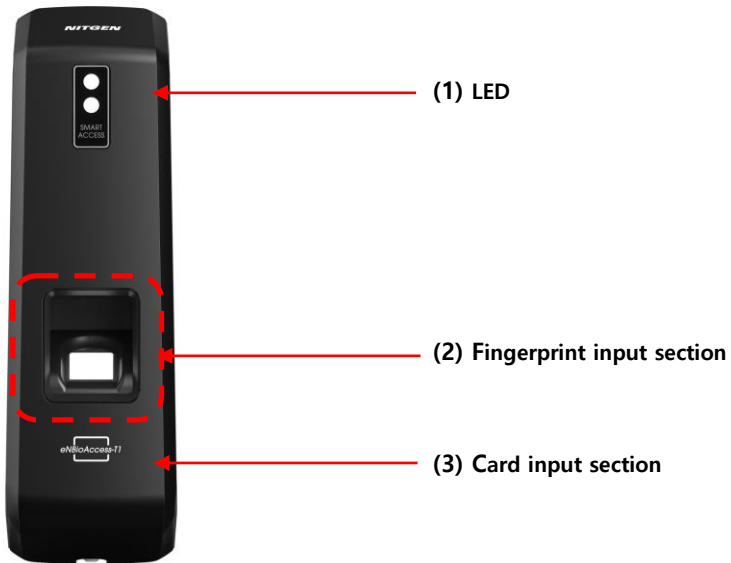


## 1.2 Components

The following shows the components of **eNBioAccess-T1**. For the details of product installation, please refer to installation guide. If any of components is missing, please contact Customer Support Team.



## 1.3 Name of each part



<Front>

No.	Name	Description
1	<b>LED</b>	Section to display various terminal information
2	<b>Fingerprint input section</b>	Section to input fingerprint for fingerprint verification
3	<b>Card input section</b>	Section to touch card for card verification

## 1.4 Configuration of external cable




※ Configuration of external connection cable



28	-		
27	-		
26	Black	GND	Ground
25	White	LNO	Lock NO
24	Gray	LlC	Lock Com
23	Brown	LNC	Lock NC
22	Red	12V	12V Out
21	Black	GND	Ground
20	Red	12V	12V IN
19	Green		E_RXN
18	Yellow		E_RXP
17	Blue		E_TXN
16	Black		E_TXP
15	-		
14	-		
13	Black	GND	Ground
12	Pink	WI1	WieIN1
11	Brown	WI0	WieIN0
10	Yellow	WO1	WieOut1
9	Orange	WO0	WieOut0
8	Blue	R4B	RS485B
7	Green	R4A	RS485A
6	Black	GND	Ground
5	Green	DM1	DoorM1
4	Yellow	DM0	DoorM0
3	Orange	EXT	EXIT
2	-		
1	-		



## 1.4 LED signals

	Error	Red	OFF: normal ON: ON for 1 second if verification fails blinker: blinker at the interval of 1 second if the cover is open
	Successful	Green	ON: ON for 2 second if verification is successful
	Status	Blue	blinker: Waiting for input of card or fingerprint ON: normal

## 1.5 Buzzer sounds

Beep	Finger is pressed or card is touched	Card is read. Fingerprint input is finished and user can take finger OFF.
Beep, beep	Verification is failed	Verification is failed or user input is wrong
Long Beeping	Waiting for Input	Waiting for input of fingerprint or card
Short Beeping	Verification is successful	verification is successful

# Chapter 2 System Configuration

**2.1 Network Mode**

**2.2 Independent Mode**

## 2.1 Network mode

This mode is to control/manage by connecting the terminals to Access Manager Pro.

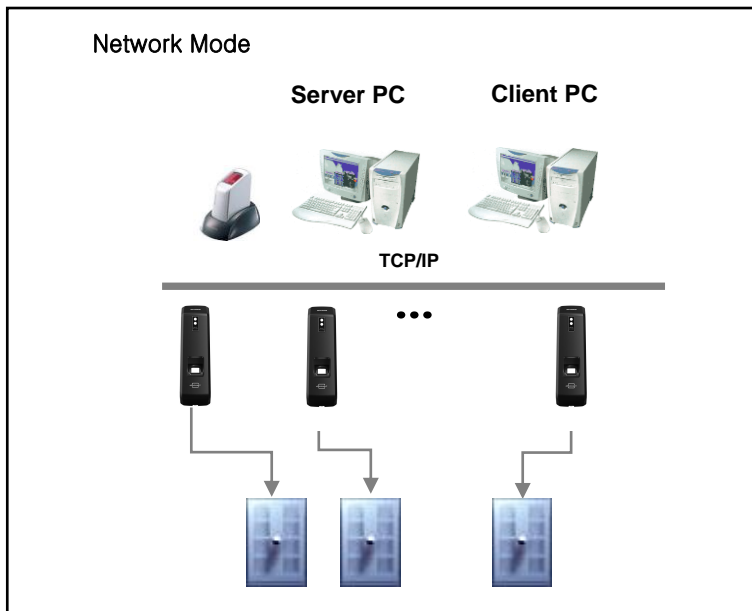


Figure2.1 Network configuration

## 2.2 Independent Mode

This mode is to independently control/manage without connecting terminal(s) through network.

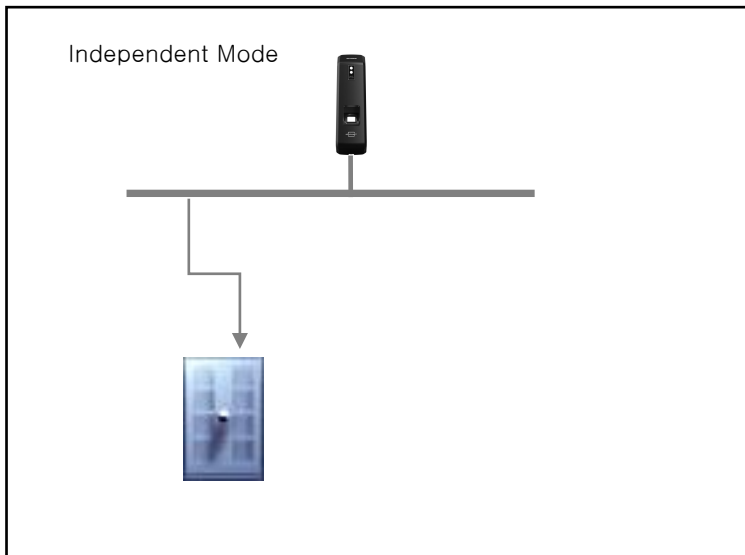


Figure2.2 Terminal Configuration

# Chapter 3 How to Use

## 3.1 Network Setting

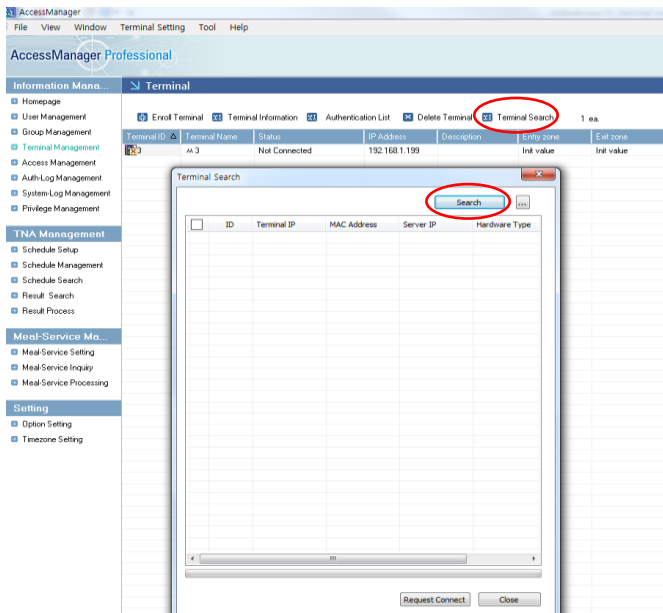
## 3.1 How to Set Network

### 3.1.1 Default setting at factory

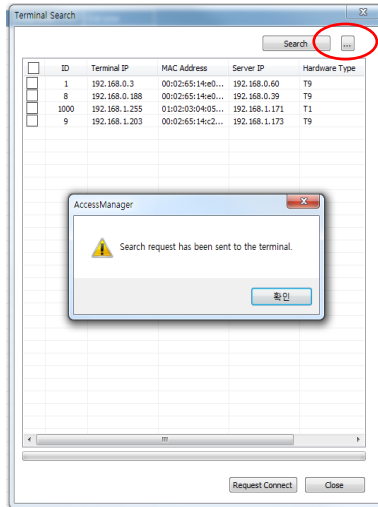
- DHCP mode: Not used
- Terminal ID: 0
- Server IP: 192.168.0.171
- Terminal IP: 192.168.0.2
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.0.1

### 3.1.2 Searching terminal in Access Manager Pro.

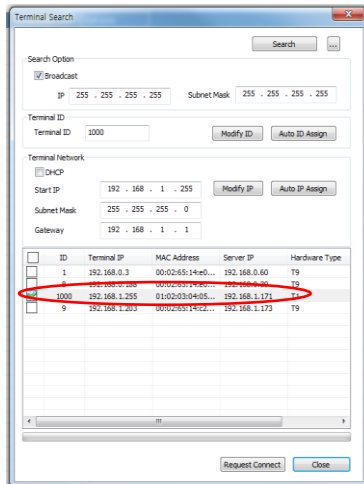
Execute 'Terminal Search' in terminal management menu of Access Manager Pro to set terminal IP.



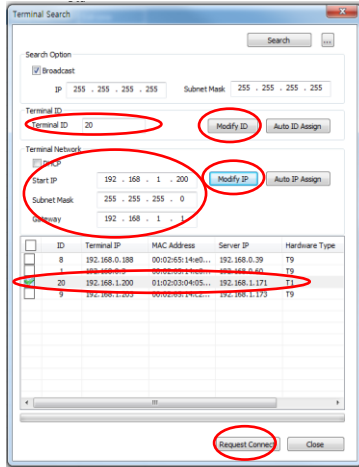
Click 'Search' button in the screen above to display terminals not registered at Access Manager Pro as shown below.



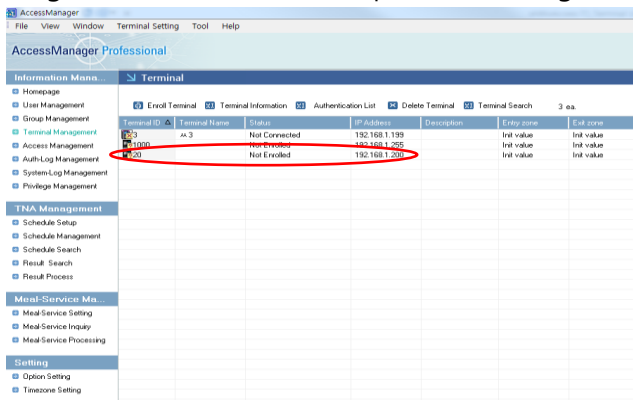
Click "..." button to display detail setting screen as shown above.



To modify terminal ID and Network setting, check terminal to be set first, input value to be changed, and click "Modify ID" or "Modify IP" button to modify the value of the relevant terminal.



Set terminal ID, Terminal Network item and click Connection Request button on the bottom to display terminal as not registered status in Access Manager Pro screen and to complete the setting.





# Chapter 4

## Attachment

**4.1 How to Input Fingerprint**

**4.2 Troubleshooting**

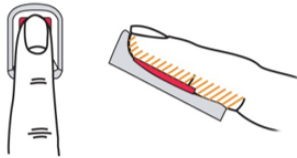
**4.3 Product Specification**

## 4.1 How to input fingerprint

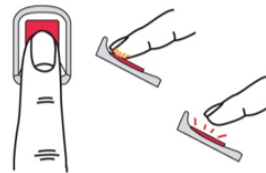
To prevent verification error, input fingerprint observing the followings for registration and verification of user fingerprint.

- ① Maximize input area and evenly press the finger. Supposing that it is 0% when finger is pressed with no force and it is 100% when finger is pressed with max force, softly press it with about 70~80% of force.
- ② Place core of fingerprint at the center. In general, core of fingerprint is in the same line with semicircular part of nail. Hence, place semicircular part of nail at the center of fingerprint input window while inputting fingerprint.

Correct way to input fingerprint



Wrong way to input fingerprint



## 4.2 Troubleshooting

### <Time for fingerprint verification is too long or verification failed>

1. If the server is used as business use or personal when terminal is in network mode and operating with 1:N (server) verification type, it may take long for verification and verification rate can be reduced due to server load. It is recommended that a dedicated server is set up.
2. Check for a scar on a finger or foreign material on the sensor. In case of foreign material, wipe it away. If scar is big, contact the administrator to reregister another fingerprint.
3. If state of fingerprint is not good, lower personal security level in user information and try 1:1 verification.
4. If the RF card which is registered with ID of the relevant user is verified, existence of a user will be checked when verification is failed. Check whether the relevant user is registered.

### <Fingerprint input continues failure>

If state of fingerprint is dry or wet, sometimes normal input is difficult because fingerprint image point is not reached. If it is wet, wipe it with something like dry towel. If it is dry, breathe on the finger or put some oil and try again.

### <RF card verification continues failure>

1. Check if the card type is same with the card type which is set in 'Information management → terminal management → terminal information → terminal setting → RF card type' of "Access Manager Pro."

**<network is disconnected>**

1. Check whether terminal is registered in 'Information management of "Access Manager Pro." → terminal management'.
2. In case of terminal which is not registered, check the setting of the relevant terminal in 'Information management → terminal management → terminal search -> search → '...' of "Access Manager Pro.".
  - ① Check server IP to which "Access Manager Pro." is installed.
  - ② Check whether terminal ID is correctly set.
  - ③ In case of no using of DHCP, check the related information.

**<Verification is successful but the door won't open>**

1. Check for time at which access is limited by time zone.

**<User registration continues failure>**

The product is set to network mode as default value. If network link is not normal in network mode, user registration is impossible.

Check the state of network link.

**<System is unstable or not working>**

1. Select terminal in 'Terminal management' of "Access Manager Pro." and click "terminal restart" in the right button menu to restart terminal.

2. If server management program is being used, restart the server.
3. If normal operation is failed even after checking all of these, please contact Customer Support Team.

## 4.3 Product Specifications

Item	Description
CPU	32Bit RISC CPU (400MHz)
Memory	64MB DRAM, 4MB Flash
LED	3 Color (Red, Green, Blue)
Fingerprint sensor	Optical type / 500 DPI
Verification type	Fingerprint, RF card
Verification speed	Within 1:1 < 0.2 seconds Within 1:N < 1 second (Based on 2,000 fingerprint)
Fingerprint capacity	2,000 fingerprints : 1,000 users (Registration of 2 same fingerprints)
Log capacity	100,000 logs
Comm. interface	TCP/IP, Wiegand In/Out (26/34bit)
Lock	Deadbolt, EM Lock, Door Strike, Automatic Door
Tem. / Humidity	-20~60 °C / <RH 90%
Certificate	KC, CE, FCC
Dimension	75(W) x 182.5(L) x 39.2(D) mm

### User notice for each KC (Korean Certification) device

Device	User notice
Class A device (business use Telecomm. & Broadcasting Equipment)	This device is registered for business use (Class A) and EMC. Hence, sellers or users must be cautious of this. This device is to be used in area excepting home.