



MODEL: AC-F100

Biometric Terminal

User Manual







Contents


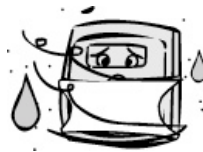



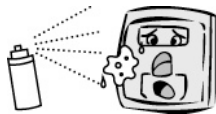

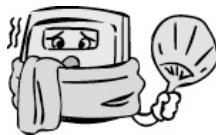
1. Before Use.....	3
1.1. Safety Precautions.....	3
1.2. Terminal Description.....	4
1.3. LED Signal During Operation.....	4
1.4. Function Key Information During Operation.....	4
1.5. Voice Information During Operation.....	5
1.6. Buzzer Sound During Operation.....	5
1.7. Correct Fingerprint Registration and Input Methods.....	5
2. Introduction.....	7
2.1. Features.....	7
2.2. Configuration.....	7
2.2.1. Standalone Configuration (AP Mode).....	7
2.2.2. Network Configuration.....	8
2.3. Specifications.....	9
3. Environment Settings.....	9
3.1. Check Items Before Setting The Environment.....	9
3.1.1. Entering Menu.....	9
3.1.2. How To Enter Menu Without Admin Authentication.....	10
3.2. Menu Configuration.....	10
4. How To Use The Terminal.....	11
4.1. Changing Authentication Mode.....	11
4.2. Authentication.....	11
4.2.1. Fingerprint Authentication.....	11
4.2.2. Card Authentication.....	11

1. Before Use

1.1. Safety Precautions

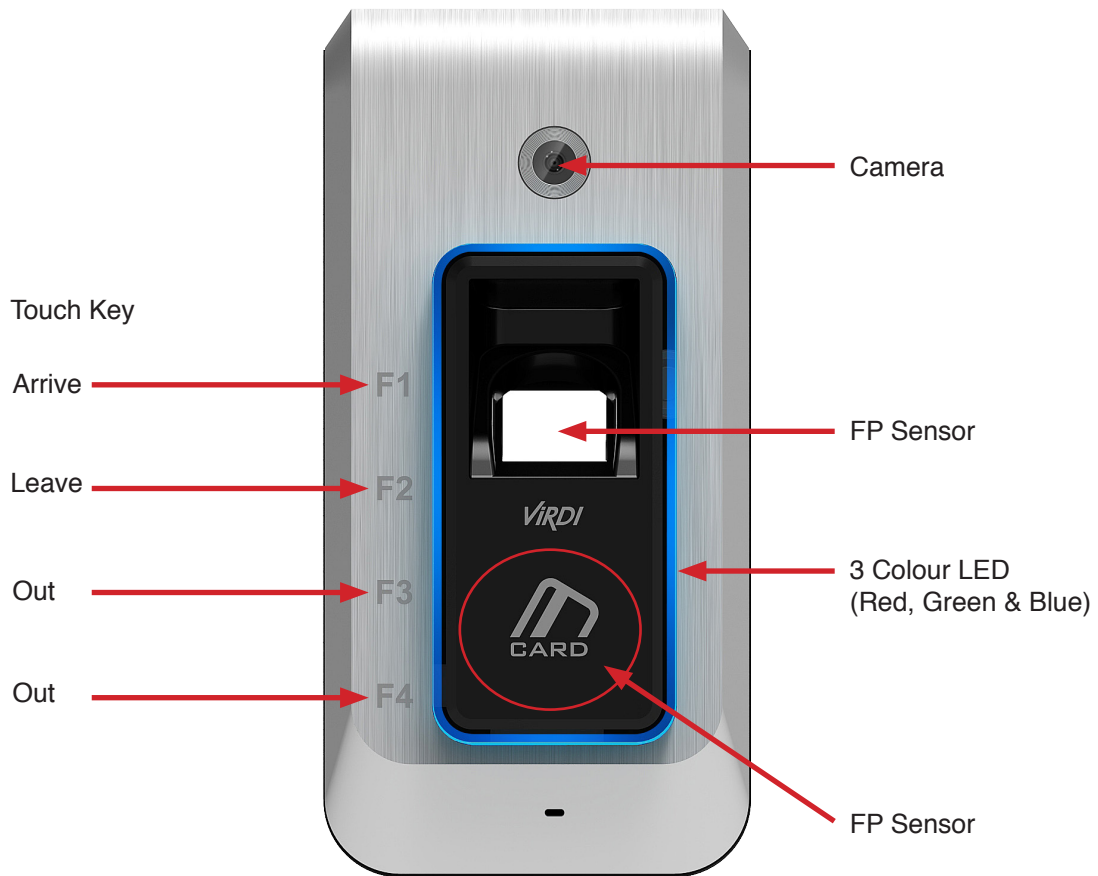
Warning		
<p>Handling with wet hands or allowing liquid to flow into it is not advised. It may cause an electric shock or damage.</p> 	<p>Do not place a fire source near the unit. It may cause a fire.</p> 	
<p>Do not disassemble, repair, or modify the unit. It may cause an electric shock, fire or damage.</p> 	<p>Keep out of reach of children. It may cause an accident or damage.</p> 	

- If the above warnings are ignored, it may result in death or serious injury.




Cautions		
<p>Keep away from direct sunlight. It may cause deformation or color change.</p> 	<p>Avoid high humidity or dust. The unit may be damaged.</p> 	
<p>Avoid using water, benzene, thinner, or alcohol for cleaning. It may cause an electric shock or fire.</p> 	<p>Do not place a magnet close to the unit. The unit may break down or malfunction.</p> 	
<p>Keep the fingerprint area clean. It cannot read fingerprints correctly.</p> 	<p>Avoid using insecticides or flammable sprays near the unit. It may result in deformation or color change.</p> 	
<p>Avoid impacts or using sharp objects on the unit. The unit may be damaged and broken.</p> 	<p>Avoid severe temperature changes. The unit may be broken.</p> 	

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

1.2. Terminal Description



1.3. LED Signal During Operation

	Abnormal	Red	Light Off : Normal Flickering : When the lid is open Light On : When authentication is failed
	Success	Green	Light On : When authentication is successful
	State	White	Flickering : Waiting for a card or FP to be read Light On : When "LED always on" is set in the terminal settings

1.4. Function Key Information During Operation

[F1] ~ [F4]	- Keys are used to modify the authentication mode
[F4 ~ Hold It Down]	- It means holding [F4] down longer than 4 seconds - It is used to enter menu

1.5. Voice Information During Operation

Action	Voice Information
Enter Fingerprint Using The Fingerprint Input Window	“Please Enter Your Fingerprint”
Authentication Successful	“You Are Authorised”
Authentication Failed	“Please Try Again”

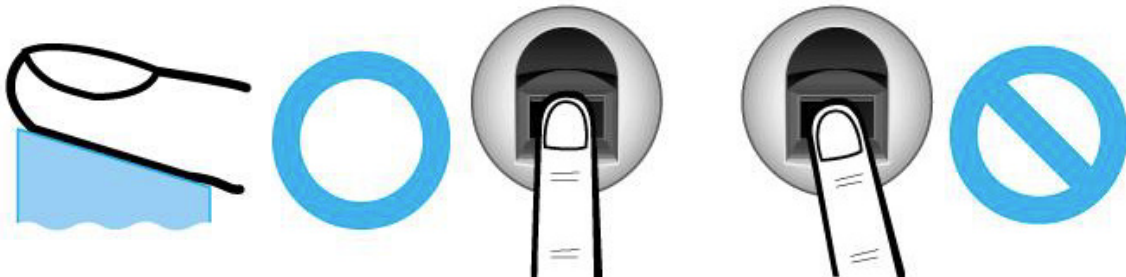
1.6. Buzzer Sound During Operation

“ppig”	Pressing a key or reading a card	When a button is pressed or a card is being read. When fingerprint input is completed, allowing the user to remove their fingerprint
“ppibig”	Failed	Authentication failed or wrong user input
“ppiriririck”	Waitong	Waiting for fingerprint input
“ppiiiick”	Successful	Authentication successful or settings for the current user are completed

1.7. Correct Fingerprint Registration and Input Methods

- Correct fingerprint registration methods

Place your index finger on the window just as you do with a finger stamp.
 Finger tip touching is not an appropriate registration or input method.
 Make sure the center of your finger touches the window



- Use your index finger.

The index finger guarantees an accurate and stable fingerprint input.

* Check if your fingerprint is unclear or damaged.
 It is tricky to recognize fingerprints on dry, wet, unclear, or injured fingers.
 Use another finger in this case.



- Cautions about fingerprint condition

Depending on the user's fingerprint condition, some fingerprints may not be used or may cause an inconvenience.

- If the fingerprint is damaged or very unclear, then it cannot be recognised. Please use a password instead in this case.
- When a finger is dry, breathe on the finger for smooth operation.
- For kids, it may be tricky or impossible to use the unit because their fingerprints are too small or very unclear. It is recommended to register their fingerprints every six months.
- For the elderly, it may not be possible to register their fingerprints if there are too many fine lines on the fingerprints.
- It is recommended that you register more than 2 fingerprints.

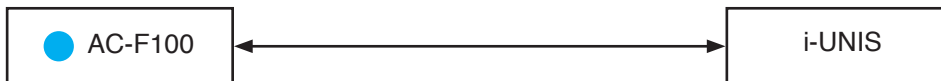
2. Introduction

2.1. Features

- IP65 Outdoor Rating – Die Cast Casing : The terminal can be installed outdoor.
- **Understated Design**
 - Simple and understated design with minimum interface reflected without LCD
 - Pursuit of convenience and luxury from simplicity
- **WiFi Direct Communications**
 - Installation is simply done using WiFi and settings of keypad and LCD can be done using a smartphone without extra device.
 - Interworking with Unis server, it can be used as various management systems such as Access Control, T&A and so on.
- **Interworking Smartphone application**
 - No need to interwork with PC
 - Functions of enrolling users and searching for logs are provided by a smartphone application.
- **1.3 Mega Pixel Camera**
 - The camera is used to save image logs and check them.
- **Convenient Auto Sensing function**
 - Simple authentication process without any key input; simple fingerprint touching is sufficient.
- **Simply authentication using fingerprints**
 - Due to Biometrics fingerprint recognition technology. It is not necessary to carry a password, card, or key, etc., or to worry about robbery. This improves the level of security.

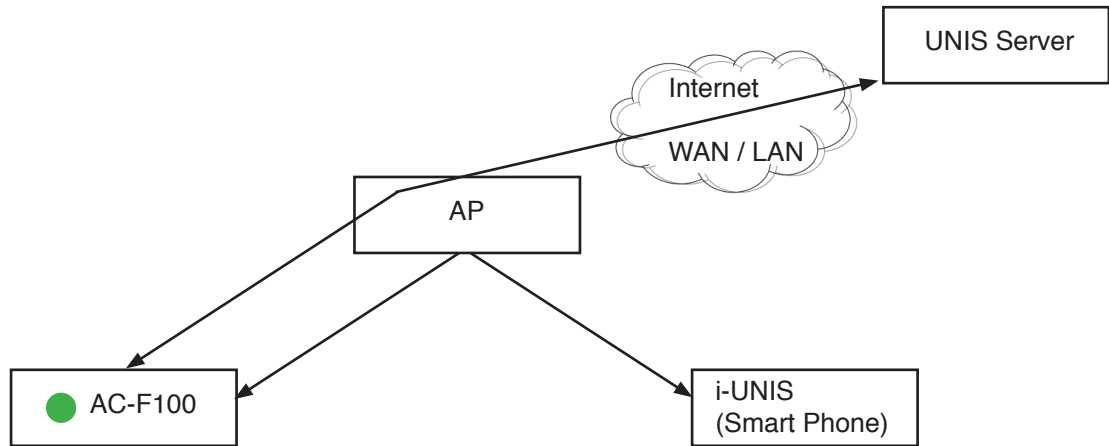
2.2. Configuration

2.2.1. Standalone Configuration (AP Mode)

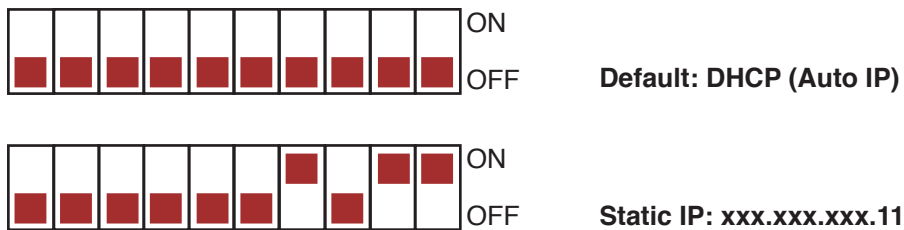


- In a case of Smart-I performs AP function
- A smartphone is connected to terminal AP, and communicate.
- Name of default AP: smartiAP_Serial No., Password:1234567890 [WEP64:Shared]
- Terminal network set value
- IP: 192.168.0.1, Subnet Mask: 255.255.255.0, Gateway:192.168.0.1
- Basic setup when released from a factory

2.2.2. Network Configuration



- In a case of the AC-F100 has already connected to specific AP
- A smartphone connects to the same AP and communicates with the terminal
- Name of default AP: unisSvrAP, password: 1234567890 [WPAPSK_AES]
(It can be modified on smartphone application)
- Server AP setup above can be modified in terminal settings menu of smartphone application.
- IP address of the terminal is automatically given when connected to AP,
If you want a static IP address, you can use DIP switch (No.3 – No. 10) on the back of the terminal like the picture below to modify.



2.3. Specifications

CPU	32Bit RISC CPU(400MHz)
Weatherproof Figure	IP65
Camera	1.3M Pixel
Touch Key	4key (F1~F4)
LED	3 Colors (Red, Green, Blue)
Memory	8M SDRAM 4M + 256M FLASH
User Capacity	1,000 User (1,000 Finger)
Log Capacity	1,000,000 Logs
Fingerprint Sensor	Optical
Authentication Speed	<1 Sec
Scan Area / Resolution	15 * 17mm / 500 DPI
FRR / FAR	0.1% / 0.001%
Communication Port	Wi-Fi :KCC-CRM-WWW-WIZFI210 (Smartphone Application or UNIS Server Communication) RS-485 (Lock Controller Communication) Wiegand Out (External Device Communication)
Card Reader	125KHz RF or 13.56MHz Smart
AC / DC Adapter	INPUT : Universal AC 100 ~ 250V OUTPUT : DC 12V UL, CSA, CE Approved
Temperature / Humidity	-20 ~ 50 / Lower than 90% RH
Size	68.0mm * 138.0mm * 41.3mm

3. Environment Settings

3.1. Check Items Before Setting The Environment

3.1.1. Entering Menu

► **[Hold (F4) down] → (Blue LED light flickering) Admin authentication → (Red & Green LED lights on) Menu mode**

When you hold [F4] down longer than 4 sec, you enter menu.

At this moment, if a registered admin exists, blue LED light is flickering and it is waiting for administrator authentication.

When card or FP authentication is successful, you enter menu, red and green LED lights are on in order to classify menu mode.

Press [F4] or do not press any button for longer than 10 sec, it will automatically go back from menu mode to waiting for authentication mode.

3.1.2. How To Enter Menu Without Admin Authentication

This is how to enter menu when a registered admin card is lost or when admin is away so FP authentication is not possible.

- Remove the bracket on the back of the terminal and keep the lid open.
- DIP switch No. 3 to No. 10 on the back of the terminal should be “ON” as below.



- Keep this condition above, and hold [F4] down longer than 4 sec. Buzzer sound will go off and then you can enter menu.

► Keep DIP switch “OFF” after modifying set value.

3.2. Menu Configuration

Waiting for Authentication Mode	Checking Terminal Mode	[F1~ Long] —→ Blue LED light on for 1 sec : AP Mode Green LED light on for 1 sec : Network Mode
	Rebooting Terminal	[F2~ Long] —→ (Buzzer sound) Rebooting terminal (Try it when smartphone application cannot connect to the terminal.)
Menu Mode [F4 ~ Long] —→ Admin Authentication	Changing Terminal Mode (AP←→Network)	[F1~ Long] —→ (Buzzer sound) Rebooting terminal after changing mode
	Delete Logs	[F2~ Long] —→ (Buzzer sound) Delete all logs including images on the terminal.
	Initializing Set Value	[F3~ Long] —→(Buzzer sound) Change all set values on the terminal to default and go to AP Mode. Users and logs are not deleted.
	Factory Initialization	Place a finger on the fingerprint sensor and [F4~Long] —→ (Buzzer sound) Delete all Set value, users, logs on the terminal and go back to AP Mode.

4. How To Use The Terminal

4.1. Changing Authentication Mode

Press a key to change authentication mode.

Start a shift [F1], Finish a shift [F2], Start a break [F3], Return from a break [F4]

4.2. Authentication

4.2.1. Fingerprint Authentication

When you place your fingerprint on the fingerprint sensor, light of the sensor is on as buzzer sound goes off, and then it receives the fingerprint. Do not remove your finger until buzzer sound goes off after light of the sensor is off completely. Light of the sensor is not on if there are no registered users.

4.2.2. Card Authentication

Swipe a card on the card input area.



GENIE CCTV LTD.

CCTV House, City Park, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1LT
Tel: +44 (0) 1707 330541 Fax: +44 (0) 1707 330543

www.geniecctv.com