



TA100 SERIES FINGERPRINT TIME & ATTENDANCE SYSTEM

USER MANUAL

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1 • GETTING STARTED

INTRODUCTION TO FINGERPRINT READER

The fingerprint reader is designed to record time and attendance by using fingerprint, to replace the conventional punch card as well as other card systems for Time & Attendance function. The reader is capable of recognizing the recorded fingerprint templates in seconds and therefore, has been successful in eliminating buddy-punching activity, one of the major problems in human resource management.

The reader is able to store fingerprint templates from 1,500 for TA102 to 2,800 for TA103 depending on the series chosen. It is also able to record from 100,000 transactions with TA102 and 120,000 transactions with TA103, at any given time and those transactions can be downloaded and cleared up using the management software. TA100 Series also offers TA103-R, fingerprint time & attendance system with RFID card function.

Specifications	Model				
	TA100 Series				
	TA102/TA1		100T	TA103-I	
Surface finishing	Acr	ylonitrile Butadie	ne Styrene (Al	BS)	
Functions		Time Atter	ndance		
Series available	TA102	TA103	TA100	Т	TA103-R
FP template capacity	1500	2800	1000/1500 2800		
Transaction log	100000	120000	30000/100000 120000		
Connections	TCP/IF	P, RS232, RS485	i, USB flash di	sk	
Subnet mask & Gateway		Availal	ole		
Card reader		* Only for TA10	3-R model		
Card capacity		6553	5		
Scheduled bell	10 preset schedules				
Sensor	Optical sensor with silicon coating				
Software available	Language available : English, Arabic, Indonesian, Spanish, Chinese Simplified, Chinese Traditional, French, German, Malay, Russian, Farsi, Portuguese, Thai and Vietnamese.				

Complete Package

ITEM		
Fingerprint reader		
DC 5V power adapter	EE T	\checkmark
USB Cable		
A Packet of Bolt	A CAN	\checkmark
Siren Cable	Ô	V
Cable Protector	MI	\checkmark
Screwdriver	-	
TCMS V2 software CD	Towarding	
RFID cards (5 pcs) * Only for TA103-R model		√ √

Materials provided

FingerTec® TA100 Series			
Quick Start Guide			
Hardware User Manual			
Software User Manual			
Video Guide for Hardware			
Video Guide for Software			
Sample of enrollment form			

Basic Features



1 L.E.D Display

The two lights, red and green to indicate success or failure of fingerprint identification/verification.

2 LCD Screen

Screen that displays instructions and status of the reader.

3 Keypad

Keys of O-9, a Power on and off button, an OK button, an Escape/Cancel button, a Scroll up/ Check-In button, a Scroll Down/Check-Out button, a doorbell button and a menu button.

4 Speaker

Indicating success or failure of fingerprint identification by voice greetings.

5 Fingerprint Sensor

For user to place fingerprint for identification/verification.

6 RFID Card Induction Area

To place your RFID card to read by reader.



2 • USING THE FINGERPRINT READER

Fingerprint reader provides 3 types of enrollment method:

Fingerprint Enrollment

User enrolls his fingerprint template into a reader and the template will be used for future verifications.

Password Enrollment

For user who has difficulty to enroll his fingerprint due to poor fingerprint quality, he is recommended to enroll password. Password enrollment is also suitable for visitors and temporary workers.

Fingerprint and Password Enrollment

Under this option, a user can enroll both fingerprint and password at the same time. The user can either use fingerprint or password to report attendance or to gain access.

USING THE FINGERPRINT READER

This chapter will guide on how to use the reader fingerprint reader effectively. To get a good reading every time, a fingerprint enrollment for the first time must be done properly.



What you should do



Place finger flat on the fingerprint sensor. Make sure the finger's midpoint is placed at the center of the fingerprint sensor.

What you should NOT do



UPRIGHT



ASKEW



OFF CENTER



TIPS FOR BEST FINGERPRINT ENROLLMENT

There are 5 tips to get good fingerprint enrollment:

Use INDEX finger

Index finger is smaller than thumb and it can be comfortably placed on the sensor. The use of thumb is not recommended because the center points might not be placed properly on the sensor, hence cannot be read by the sensor due to its larger size.

· Make sure the finger is not wet, too dry, injured or dirty

The finger needs to be slightly moist to enable the sensor to read the minutiae points on the fingerprint.

Place the center points of your finger at the center of the sensor

The center points of a finger is an area where there is a swirl and the center points must be properly placed on the sensor during enrollment.

Don't press hard at the sensor, just place your finger on the sensor

The sensor is reading minutiae points of your finger and placing a finger properly on the sensor will prompt the sensor to read those points. Pressing your finger hard on the sensor is not necessary.

· Don't do enrollment under bright light or direct sunlight

It is important to note that bright light or sunlight could interfere with the reading of the sensor. Avoid placing the reader under direct sunlight or bright light to avoid difficulty in enrollment and future verification.

INITIAL SET UP OF THE FINGERPRINT READER

Date/Time Adjustment

When first installing the fingerprint reader, it is important to set the correct date and time.

Follow the steps below to access the Date/Time adjustment menu:



Enrollment

To assist in fingerprint enrollment, we have designed a form for the administrator to use to keep track of the enrollment detail or you can design your own form to suit to your company's requirements.

DecideralD

Ose	User Enrollment Template Form					Reader IE):		
No.	User ID	Employee No.	Name	Department	IC No.	No. of Fingers Enrolled	Date Registered	Note	Signature
				ANAPI	E				
			G	AIV					

User Enrollment Template Form

Enrollment of Supervisor/Administrator

Once the fingerprint reader is switched on, a display on the screen will appear. First, to enroll a supervisor or an administrator, who is the in-charge person to administer the fingerprint templates and the transaction data in the reader. Choose trustworthy people for this particular role.



Enrollment of Normal User

A normal user is only allowed to use reader for identity verification, and he does not have any other authorities to access the system. To add a normal user, follow the steps below:





To enroll more users, repeat the same steps above.

Fingerprint Verification

Reader supports 2 types of fingerprint verification method. User can choose either method to verify his fingerprint at the reader. 2 types of fingerprint verification methods are:

- 1 to Many (1:N) fingerprint matching
- 1 to 1 (1:1) fingerprint matching

1 to Many (1:N) Fingerprint Matching

1 to 1 (1:1) Fingerprint Matching

When you see this	Do this	When you see this Do this
Welcome 09:00 Check-In 01-01-09 THU	Place the enrolled finger prop- erly on the fingerprint sensor.	Key in the user ID as define when enrolling a finger on th fingerprint reader. For examp 1 for 00001.
FP Verify Remove finger	Wait a second before removing the finger from the fingerprint sensor.	1:1 FP Verify User ID 00001 ESC OK[Pwd] Place the enrolled finger pro
FP Verify User ID 00001 Verified	Reader verifies that the user ID is 00001.	1:1 FP Verify User ID 00001 Verified The fingerprint sensor verifie that the user ID is 00001.
FP Verify Please Try Agn.	If a finger failed to be verified by the reader, it will prompt the user to try again.	1:1 FP Verify User ID 00001 Please Try Agn. If a finger failed to be verifie by the reader, it will prompt th user to try again.

Password Enrollment

For user who cannot enroll his fingerprint, he can choose to use passwords. Follow the steps below:





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Password Verification

User with password enrollment can always use password to report attendance or gain access from the readers.

Deleting Users

The system also allows deletion of user from the system. This is important as employees come and go. Therefore, for those who had left the company, their fingerprint templates or records must be deleted from the system to avoid any misuse of the system. Only an administrator or a supervisor has the rights to delete user. Follow the steps below to delete any user:

When you see this	Do this	When you see this Do this
Welcome 09:00 Check-In 01-01-09 THU	Key in the user ID by using keypad	Wencome Op:00 Check-In 01-01-09 THU
1:1 FP Match User ID 00003 ESC OK	Press OK to confirm that it is the correct ID. OK Press once to confirm	User Manage Options Sys Info OK Press once
Pwd Affirm User ID 00003 ESC OK[PWD]	Key in the matching password by using keypads	Enroll User Enroll Admin > Delete OK Press once
Pwd Affirm User ID 00003 Verified!	The FingerTec® fingerprint reader verifies that user ID user ID is 00003	User ID 00001 ESC OK Key in user ID Press once



User will be deleted from the reader following the above steps.



3 • THE OTHER FUNCTIONS

-

SYSTEM OPTION

Options

- System option enables user to configure the following areas:
- System Opt Power Mng Comm Opt
- Date & Time Setting
- Date & Time Format
- Languages
- Advance Options

Reset Opts	to restore all settings back to original factory settings	
Del Attlogs	to clear all attendance log stored in reader	
Clear all Data	to clear all user data (i.e user name, ID number)	
Clr Admin Pri	to clear administrators' privilege	
Del Slogs	to delete all records of action performed by an administrator or a supervisor.	
Show Score	to show the quality of image captured during verification, the maximum is 50	
Match Thr	to configure sensitivity of the optical sensor for 1:N matching	
Must Input ID	to disable 1:N matching method	
1:1 Thr	to configure sensitivity of optical sensor for 1:1 matching	
Adj VOL(%)	to adjust the volume of greeting voice.	

POWER MANAGEMENT

Op	tions	•	
•	System Opt Power Mng Comm Opt		This ei

This enables user to manage the reader in the following areas:

Shut down	to enable a specific time for reader to shut down	
Lock power	To lock power button to avoid shutting off of a reader accidentally or intentionally by unauthorized person.	
Schedule bell	toconfigure schedule for bell (siren) ringing and also bell (siren) delay	

COMMUNICATION OPTION

 Options

 System Opt Power Mng
 User can configure communication methods and settings in this option.

 Comm Opt
 Those options are:

Baud rate	to adjust baud rate of connection with RS232 or RS485
Dev num	the number of reader in an installed environment
IP Addr	to configure the IP address of reader
Netmask	to configure same Net mask as environment, and reader can suit into same network structure.
Gateway	to configure same Gateway as environment, and reader can suit into same environment.
Ethernet	to enable or disable Ethernet as communication method
RS 232	to enable or disable RS232 as communication method
RS 485	to enable or disable RS485 as communication method
COMM key	communication key between reader and software, always set to "O"

LOG OPTION

Options Power Mng Comm Opt Log Opt	This option allows reader to alert user when it is reaching storage limit.
-------------------------------------	--

Alm SuperLog	reader will automatically alert users when remaining administrators' logs storage is reaching the preset value.
Alm Attlog	reader will automatically alert users when remaining transaction logs storage is reach- ing the preset value.
ReCheck Min	transaction logs of same user happen within preset time period is ignored by system.

AUTO TEST

Options Comm Opt Log Opt -

-

Auto test

SYSTEM INFO

This option allows reseller/technicians to run test to the reader to identify any error. Please do not run test without guidance/supervision from resellers/technicians.

Options

Log Opt

Auto test

Sys Info

User may check the information stored in the reader under this option.

The information includes:

User Cnt	to show total of users in reader			
FP Cnt	to show total of fingerprints templates in reader			
Att Log	to show total of atte	endance log in reader		
Admin Cnt	to show total of adr	ninistrators in reader		
Pwd Usr	to show total of pas	sword users in reader		
Super Logs	this item is used by technicians for testing purpose			
Free Space Inf	to show empty spaces which are available in reader			
Dev Info	FPCnt (100)	to show the number of fingerprints templates stored in reader		
	AttLog (10k)	to show the amount of attendance log could bestored in reader		
	Super Logs	for testing purpose		
	Manu time	ne manufacturing time of reader		
	Serial Num	serial number of reader		
	Manufacturer	Irer name of manufacturer		
	Device name	name of reader		
	Alg Version	to show the algorithm version used by the reader		
	Firmware ver	e ver to show the firmware version used by the reader		

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4 • INSTALLATION & COMMUNICATIONS

Note

This Chapter is meant for qualified installer only. The installation of reader shall be handled by a well-trained installer. If you are not a qualified installer, you can ignore this Chapter or this Chapter serves as a reference for all types of connections available for the reader only.

CONNECTIONS AVAILABLE

On the top side of the reader, there are four connections.

TCP/IP Port

This port is for connection in LAN environment. A straight RJ45/cat. 5E cable should be plugged here to connect to a network switch/hub. A crossover RJ45 cable is for direct connection to a PC's network port.

USB Port

To upload/download users information, password, fingerprint and transaction logs via USB flash disk.



Note

RJ45/cat. 5E cable is not included in the reader package.

RS232/RS485 Port

The port is for connection of RS232/RS485 communication type.

RS232 is a serial communication cable connecting from this port at one end to a serial port of a PC at another end

RS485 cable extender should be connected to this port and the other of the cable should be connected to an optional RS232/RS485 Data Converter before it can be connected to the serial port of a PC.

Power Adapter Port

This port is for the power connection. Plug the power adapter here.

POWER SUPPLY CONNECTION



DC 5V power adapter

TA100 Reader

Power Button

- 1. Connect DC 5V power adapter to the reader.
- 2. Turn on the power supply.
- 3. Press the power button to switch on or shutdown the reader.

COMMUNICATION CONNECTION

IP Addr 192. 168. 1.201	
ESC	ОК
Comm Ont	•
Comm Opt	
Ethernet	Yes
RS232	No
RS485	No

TCP/IP Connection

- Setup the IP address by network configuration The machine default IP address is 192.168.1.201; this is a legal and available IP address in many LAN environment. If the host IP address is 192.168.1.X and it is in the same network region, then this IP can be used directly. If not, please make sure that you have changed the IP address accordingly.
- 2. Setup of Ethernet.

Access Menu select "Options" > "Comm. Opt" > "Ethernet", select "Yes" to enable Ethernet function.

Note

- When RS232/RS485/Ethernet is enabled, only the Ethernet function will be enabled while the RS232/RS485 will be disabled.
- 3. Turn the power off.
- 4. Plug the network plug to the Ethernet interface.
- 5. Turn the power on.

Ethernet 10/100Base-T Crossover Cable



This cable can be used to cascade hubs, or for connecting two Ethernet stations back-to-back without a hub. It works with both 10Base-T and 100Base-TX.

Joint 1	Pin	Joint	t 2 Pin	
TX+	1 •	• 3	RX+	
TX-	2 •	• 6	RX-	
RX+	3 •	——• 1	TX+	
RX-	6 •	• 2	TX-	

Ethernet 10/100Base-T Straight Thru Cable

This cable will work with both 10Base-T and 100Base-TX and is used to connect a network interface card to a hub or network outlet. These cables are sometimes called "whips".

Con	nector Pin	Cable Color	Connecto	or
TX+	1 •		• 1	TX+
TX-	2 •	Orange	• 2	TX-
RX+	3 •		• 3	RX+
	4 •	Blue	• 4	
	5 •	White/Blue	• 5	
RX-	6 •	Green	• 6	RX-
	7 •		• 7	
	8 •	Brown	• 8	

Comm Opt	•
• RS232	Yes
RS485	Yes

RS232 Connection

1. Setup of RS232

Access to Menu, select "Options" > "Comm. Opt" > "RS232", select "Yes" to enable RS232 function.

- 2. Turn off the reader.
- 3. Plug the RS232 cable to the RS232 port of the PC.



RS485 Single Connection

Comm Opt	•
RS232	Yes
RS485	Yes

1. Setup of RS485

Access Menu, select "Options" > "Comm. Opt" >

"RS485", select "Yes" to enable RS485 function.

- 2. Turn off the reader.
- Plug the RS485 cable extender to the connector. Connect another end of the cable to the RS232/485 data converter.
- 4. Connect the RS485 data converter to the RS232 port of PC.
- 5. Turn the power on.



Note

When BS485 func-



RS485 Network Connection

Comm Opt RS232 Yes ▸RS485 Yes 1. Setup of RS485

Access Menu, select "Options" > "Comm. Opt" > "RS485", select "Yes" to enable RS485 function.

Note When the RS485 function is enabled, the Ethernet will be disabled.

2. Turn off the reader.

- Plug the RS485 cable extender to the RS232/485 port on the Power Controller, and another end of the cable to the RS232/485 network.
- 4. Connect computer to the RS485 network with the RS232/485 converter.
- 5. Turn the power on.



4 • ADDITIONAL FUNCTIONS (For TA103-R only)

HARDWARE TA103-R WITH RFID CARD

TA103-R supports RFID card that has the following specifications.

EM RFID Card	
Code	64 bits
Resonance frequency	125kHz
Operating temperature	-10 ~ 50°C
Reading distance	~5cm

USER ENROLLMENT WITH RFID CARD

TA103-R provides 3 extra enrollment methods as listed below:

- RFID card only
- RFID card + fingerprint
- RFID card + password

Enrollment of RFID card only

Register RFID card in reader before using it for attendance.



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Enrollment of RFID card + fingerprint

Refer to "Enrollment of RFID card only" to enroll RFID card and then proceed to enroll the card with fingerprint as explained below:



When you see this	Do this
Backup Enroll 00001 - 0 Place Finger ESC OK	Place center of your fingerprint properly at the sensor. You need to place your fingerprint 3 times for your reader to capture your fingerprint template.
Backup Enroll 00001 - 0	This shows template has been successfully captured.
ESC OK(Save)	OK Press once to confirm
New Enroll	ESC Press once to cancel operation
Continue? ESC OK	ESC Press 5 times to return to main menu

Enrollment of RFID card + password

Refer to "Enrollment of RFID card only" to enroll RFID card and then proceed to enroll the card with password as explained below:





User Verification with RFID Card

User that have been enrolled with RFID card in TA103-R can report attendance through the following verification methods:

Card Only

To enable this operation, configure option "Card Only" in Advance Option to "Yes".

When you see this	Do this
Welcome 09:00 Check-In 01-01-09 THU	Place RFID card at the induction area.
Verify PIN Card CARD : 9067337 User ID : 00001 Verified	The Card ID and the User ID will prompt and you will hear "Thank You".
Verify PIN Card No Enroll	If verification is failed, the screen will show "No Enroll" and you will hear "Invalid ID".

Card & Fingerprint

To enable this operation, configure option "Card Only" in Advance Option to "No".

When you see this	Do this
1:1 FP Match CARD : 9067337 ESC OK (Pwd)	Place card at the induction area. Card ID is prompt. Place your finger on the scanner to capture your fingerprint.
1:1 FP Match CARD : 9067337 User ID : 00001 Verified	User ID is prompt and you will hear "Thank You"
1:1 FP Match CARD : 9067337 Please try again	lf verification is failed, you will hear "Please Try Again".

Card & Password

To enable this operation, configure option "Card Only" in Advance Option to "No".

When you see this	Do this
1:1 FP Match	Place card at the induction area.
CARD : 9067387	OK Press once
ESC OK (Pwd)	_
1:1 FP Match CARD : 9067387 User ID : 00002 Input Pwd : xxxxx	User ID is prompt OK Press once to confirm and enter your password
Pwd Affirm CARD : 9067387 User ID : 00002 Verified	You will hear "Thank You" if pass- word is correctly entered.
Pwd Affirm CARD : 9067387 User ID : 00002 Error Pwd	You will hear "Incorrect pass- word" if password is wrongly entered.

ADVANCE OPTION

Card Only

User can configure reader to read the card ID from RFID card only for verification. If the reader is configured to this option, it can support up to 65534 card users.

If the "Card Only" option is disabled, user must present the card followed by fingerprint for verification. Make sure that fingerprints have been enrolled in the TA103-R prior to verification. The maximum number of fingerprint enrollment per card is 10. The total number of RFID cards supported by the system depends on the number of fingerprint templates enrolled in the reader.

If the "Card Only" option is enabled, the model can support 2800 fingerprints and 65534 RFID card users.

Follow the steps below to choose your option.



Adjust Volume [Adj Vol (%)]

User could adjust the volume of a speaker in the TA103-R. The volume parameter is represented by percentage [%]. The higher the percentage is, the louder the speaker will be.



COMMUNICATION OPTIONS (COMM OPT)

NetMask

You may configure the NetMask of a reader so it will suit to your network environment.



Gateway

Another way to access to a reader through the Internet is through configuration of Gateway.



PENDRIVE MNG

Download Attendance Log

To download attendance log from reader to a flash disk, plug in the flash disk into the reader and press "OK" to start downloading process.



Download User

To download user from unit to a flash disk, plug in the flash disk into the reader and press "OK" to start user download from reader to flash disk.

Upload User

To upload users from reader to a flash disk, plug in the flash disk into the reader and press "OK" to start user download from reader to a flash disk.



SOFTWARE

The software allows RFID card numbers that have been enrolled into TA103-R transfered to all other connected readers. The technique of saving and transferring of RFID card number is similar to those of fingerprint and password.

Note

Please use software to manage RFID card.

These functions are available in the latest software starting from TCMS V2.1.1 Version T. For software upgrade, go to http://user.fingertec.com

FINGERPRINT MANAGEMENT

& User Fingerprint Management											
	privile	ge and ma he buttons	it templates stored in PC o inual input password. s below to download user							Department:-	•
	No.	User ID	Name	Department	Fingerprint	User Name	Privilege	Password	Card	Disabled	
Ī	1	000001	John Bacon	Engineering	1		User		1840595		T
Ī	2	000002	Jennifer Beckham	Information Technold	1		User		9063228		
	3	000003	Calvin Steve	Production	1		User				
	4	000004	Roland Utah	Sales	1		User				ΤIJ
	5	000005	Veron Taylor	Technical Support	2		User				\mathbb{I}
											$I \mid I$
											\mathbb{I}
											$I \parallel$
											$I \mid I$
											$I \mid I$
	Help Enroll User Delete User Delete User (Terminal) Delete User (PC) Save User Close										

The above diagram is showing the Fingerprint Management page with a new column named Card. This column stores and displays the RFID card numbers that have been enrolled for users. This RFID card number is originally printed on the RFID card surface with a maximum of 10 numeric numbers.

The RFID card number will only be displayed in software if user is enrolled with an RFID card. The Card column will be empty if users are enrolled with fingerprint or password only.

DOWNLOAD OF RFID CARD USERS FROM READER

Download Users from Terminal

Use this function to download all (including new) or selected user(s) data from selected terminal to PC. You can either choose to download fingerprints, username + privilege + password, or both data set.

You may select the ran ID	ge of records by:
User ID	000001 John Bacon
(Al	000002 Jennifer Beckham
	000003 Calvin Steve
C None	000004 Roland Utah
C Some	000005 Veron Taylor
	v
Selected data:	✓ Fingerprint ✓ Username + Privilege + Password
Help	<u>Apply</u> <u>Cancel</u>

Press the Download User button in Fingerprint Management page to start the download process. First, select the reader ID to download users from. You may select the users enrolled with RFID card to be downloaded into TCMS V2. You can also choose "ALL" to download all users enrolled in the reader, by fingerprints, passwords or RFID cards.

Please include "Fingerprint" and "Username + Privilege + Password" before you start any download process. The new downloaded users will appear in light blue color. Please enter their details i.e. name, department, username for future reference.

rivile	ge and manu the buttons b	al input password.	C database for the eac						Department:-	Ŧ
No.	User ID	Name	Department	Fingerprint	User Name	Privilege	Password	Card	Disabled	-
-	000001			1		User		1840595		T_
	000002			1		User		9063228		t
	000003			1		User				1
	000004			1		User				T
	000005			2		User				T
										T
										I
										I
										Ι
4										۴Ľ
										-

Press Save User button to save the users and their data.

UPDATE OF RFID CARD USERS TO READER

Update Users to Terminal
Use this function to update all or selected user(s) data from PC to selected terminal. You can either choose to update fingerprints, username + privilege + password, or both data set.
You may select the range of records by:
User ID 000001
Selected data:
Help Cancel

Note

Press Update User in Fingerprint Management page to start any update process.

Select the reader ID to update users to. You may select the user enrolled with RFID card to update to TA103-R, or to other readers that support RFID card users. You can choose "ALL" to update all users to all readers, by fingerprints, passwords or RFID cards.

You must include "Fingerprint" and "Username + Privilege + Password" before update process begins.

RFID cards can only be used in reader with RFID functions such as TA103-R. Fingerprints and passwords that are enrolled in reader with RFID functions can be used in all readers.

- I can't turn on the fingerprint reader. When I pressed the power button, nothing happened.
 Check if your fingerprint reader's LCD screen is lighted and there is a beep sound when the reader is turned on. If not, make sure the power is turned on at the electrical supply outlet.
 Check the connection of the power adapter to an electrical supply outlet; it may not be fitted properly.
 If you have confirmed that there is no problem with the power supply, your fingerprint reader may need to be repairing. Kindly contact your reseller.
 I can't connect the fingerprint reader to the PC. Every time I try it, the software prompts "unable to connect" message.

able to connect" message.

- Check the settings on the reader to see if TCP/IP or RS232/RS485 connection is enabled.
- Check whether the COMM key is used, default is 0.
- For TCP/IP connection, check the IP address.
- For the RS232/RS485, the baudrate for the reader and software must be the same. Make sure that the DevID is correct
- After changes are made, restart the fingerprint reader.
- 3 The fingerprint reader has difficulty recognizing my finger. It takes many tries before I am verified.
- · Please make sure that your finger is not too oily or too dirty because the oil and dirt will cover the minutia points of the fingerprint, thus make reading difficult.
- Make sure that the reader is not facing direct sunlight because it will disrupt the readings of the scanner. To deal with light interference, cover the scanning area when you want to do finger verification.

4 When the fingerprint reader is on, the red LED is blinking. Is there something wrong?

There is nothing wrong with the reader. The red LED blinks to indicate that the reader is on the standby mode. When a fingerprint is verified, the LED will turn to green.

The fingerprint reader was accidentally shut-5 down by a staff. Will we lose all the transaction data in the reader?

All the transaction data up until the minute the reader was shutdown staved in the reader and can be downloaded to the PC by using the software. The data will only disappear if it has been downloaded to the PC.

The fingerprint reader did not voice "Thank 6 You" or "Please Try Again" during verification. What should I do?

You may enable the voice function under Advance Option. The voice option might have been disabled.

7 When I tried to enroll my fingerprint into the fingerprint reader, the reader produced "Duplicate Finger" voice message. Why is that?

The "Duplicate Finger" voice message will only be produced if the enrolling finger is found to have existed in the reader. Choose another finger.

The fingerprint reader produces "The clock is 8 full" every time I perform verification. What should I do?

This means that the transaction storage of the reader is full. Download the data from the reader to the PC by software. After download process has been performed. the data will be deleted automatically.

9 Could I configure the device to shut down or power on automatically?

The schedule can be configured in the Power Management Option. This is advisable as to let the device takes a break after a long-hour usage.

10 My previous card access system left me the old cards. Can I use these cards to work on TA103-R?

TA103-R will only read or write RFID card. Please make sure that your card is RFID card match with the specifications explained in page 28.

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