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TA200 Plus

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Q2i **Q** TA200 Plus **Q**

Fingerprint Color Time Attendance

USER GUIDE





TA200 Plus Color Multimedia Fingerprint Time Attendance System

USER GUIDE

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For Q2i only

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APPENDIX TROUBLESHOOTING

GETTING STARTED



Q2i Color Multimedia Fingerprint Time Attendance & Door Access Control System

IMPORTANT SAFEGUARDS

INSTALLATION LOCATION

Do not install readers in areas which are exposed to bright sunlight or rain, as the fingerprint readers are not designed to work in those areas. Bright light will interfere with reading of the sensor and fingerprint readers are not waterproof or vandal proof. It is recommended to protect your fingerprint readers with enclosure.

Go to http://accessory.fingertec.com to view the enclosure and other accessories.

USE OF SENSOR

Do not abuse the fingerprint sensor by scratching the surface, contacting the sensor's surface with heat, pressing hard during placement of fingerprint for verification. Clean the sensor occasionally with cellophane tape to maintain the performance of the sensor.

INTRODUCTION TO READER

The FingerTec® Q2i / TA200 Plus is the revolutionary product of time attendance and door access, designed with colored screen TFT display for vivid color presentation.

Storage capacity of FingerTec® Q2i / TA200 Plus is 1500 fingerprint templates and 50000 transaction logs, and it offers multiple methods of verification which include fingerprint, password and RFID card for user convenience. FingerTec® Q2i / TA200 Plus understands the needs of today's working environment which requires multitasking.

Fingerprint enrolment of every user shall be done once and these templates are downloadable into TCMS V2 software for backup and they are transferable to other readers for verification.

Every time a registered user gets verified at the readers, date and time of the transaction is stored as a transaction log. These logs can be downloaded into TCMS V2 software for reports and further analysis. Download process can be done via TCP/IP connection, USB flash disk (pen drive), RS232 connection, or RS485 connection.



TA200 Plus Color Multimedia Fingerprint Time Attendance System

		COMPLETE PACKAGE		
	SPECIFICATION			
Display area (inch)	3.5 TFT screen		6	1 Particle 1
Color resolution	65k		1 min	Bolts
Surface finishing	Acrylonitrile Butadiene Styrene (ABS)			المحطيل و
Functions	Q2i Time attendance and door access control system	Fingerprint Reader	TCP/IP Connector Jack	Screws & Bolts
	TA200 Plus Time attendance only			
FP storage	1500	(Constant of the second of th		
Transaction log	50000			atala
Connection available	TCP/IP, RS232, RS485, USB flash disk, USB host-client, Wiegand 24 bit insut and watert			
Card roador	PEID card reader	DC 12V Tower Adapter	Connector Jack (Q21 only)	USB Extension
Card capacity	4553 <i>4</i>			
Sonsor	Optical scappor with silicon coating			
Multimodia function	Short mossage display			
Software	Language available Default - English Optional - Arabic	and a state of the		FINGERIEC.
	- Indonesian - Spanish - Thai	RFID Card (5pcs)	Screwdriver	USB Flash Disk (Optional)
	- Portuguese - Chinese - French Russian - Farsi - Italian - Vietnamese - German - Italian	Financial CD	Power Cable	DC 12V Wire (Q2i only)

MATERIALS PROVIDED

- Quick Start Guide
- Hardware User Manual
- Software User Manual
- Video Guide for Hardware
- Video Guide for Software
- Sample of Enrollment Form

BASIC FEATURES







USB PORT

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

USING THE FINGERPRINT READER

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



The fingerprint reader provides 4 types of enrollment method:

FINGERPRINT ENROLLMENT

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

2 PASSWORD ENROLLMENT

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

3 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.

4 RFID CARD ENROLLMENT

Please refer to Chapter 3 for RFID Card Function.

TIPS FOR BEST FINGERPRINT ENROLLMENT



HAT 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.



VHAT YOU SHOULD NOT DO



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.

$\mathbf 2$ 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.

3 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.

4 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.

5 DON'T DO ENROLLMENT UNDER BRIGHT LIGHT OR DIRECT SUNLIGHT

It is important to note that bright light or sunlight could interfere with 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



Press M/ once.

DATE / TIME ADJUSTMENT

When first installing a fingerprint reader, it is important to set the correct date and time. Follow the steps shown to access the Date/Time adjustment menu:



Press 3 times to go to Date/Time. Press OK once.



Press OK once to save setting.



Press to go to the desired column. Enter value using keypads. Press OK once to confirm setting.



Press Esc twice to return to the main menu.

DLST stands for Daylight Saving Time. Please enter the date and time in the given column to use this feature.

DLST

Enter date and time for daylight saving starts

• Standard Enter date and time to return to standard

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.



ENROLLMENT OF SUPERVISOR / ADMINISTRATOR

Once the fingerprint reader is switched on, a display on the screen will appear. 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.



Press M/ donce.



Press OK once.



Press OK once.



Press 🔽 3 times to Enroll FP and press OK.



Assign user ID of the administrator.



Place center point of fingerprint properly on the scanner. Place finger 3 times during enrollment. Read page 9 for tips on fingerprint scanning technique.



Press 5 times. Press once to select Admin.



Press OK once to save enrollment. Press Esc once to end enrollment.

New user ID.NO 2 Name Enroll FP FP Num. :0 Enroll Pwd Enroll card Card 4 Admin OK(M/<-) BACK(ESC)

Press OK once to save.



FINGerTec

One finger solves it al

22

Press OK once.



Assign user ID for the user.





08-04-14 09:09 MON

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 shown.







Press **5** times. Press **b** once to select user.







Press A 3 times to Enroll FP and press OK .

0	New user	8
ID.NO	2	
Name		
FP	Enroll FP FP Nur	
PWD	Enroll Pwd	
Card	Enroll card	
AUTH	4 User 🕨	
		OK(M/<-)
		BACK(ESC)

Press OK once to save.



Place center point of fingerprint properly on the scanner. Place finger 3 times during enrollment.



Press Esc twice to return to the main menu.

To enroll more users, repeat the 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:



PASSWORD ENROLLMENT

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



The reader verifies user, displays the ID and prompts "Thank you".



Press M/ once.



Press OK once.



If verification failed, the reader prompts, "Please try again"



Press OK once.



Assign user ID using keypads, for example 3.



BACK(ESC)



OK(M/<-)



Press 🔼 twice to Enroll Pwd and press 🛛 🗰



Press OK once to save.



Enter password maximum 8 digits. Press once.



Press OK once to save.

PASSWORD VERIFICATION

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



Press OK once to save.



Press **Esc** twice to return to the main menu.



Enter the user and press OK .



Enter password and press OK .



The reader verifies user, displays the ID and prompts "Thank you".



If verification failed, the reader prompts, "Please try again".

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 shown to delete users.



Press M/ once.



Press OK once.



Press Donce to go to Manage and press OK .



Press T to choose user ID to delete. Press M/L once.



Press 3 times to go to Del User and press OK .







Del User

System

X

Press OK once to delete user.

Press OK once to confirm.

7

3

?



Press Esc 3 times to return to the main menu.

3 RFID CARD FUNCTION

The reader supports enrollment of RFID Card. User can report time attendance and gain access by using RFID card. At the same time, users with fingerprint or password enrollment can add RFID card as well.

Each RFID card has a unique ID. During enrollment this Card ID will be read from the RFID card and stored in the reader. During verification the reader will match the ID in the card to the ID stored in the reader.



Press M/← once.

Manage

3



Press OK once.

4 New user

Press M/ once.

S.Access

Assign user for example 5.

RFID CARD

Each RFID card user must register his RFID card to the reader.

To enroll user with RFID card, follow the steps shown:



Press **5** times. Press **once to select user**.



The Card ID is captured and displayed on the screen. Press **OK** once to save.



Press 🔺 once to Enroll Card and press 🛛 🗰



Press OK once to save. Press Esc twice to return to the main menu.



Wave RFID card at the induction area to read the card.

VERIFICATION WITH RFID CARD

RFID card user can do verifications at the reader by using the following combinations: To enable this operation, configure option "Card Only" in Advance Option to "Yes"



Place RFID card at the induction area.



The Card ID and the User ID are shown on the screen, and the reader prompts, "Thank you"



If verification failed, the screen shows "Not Enrolled" and prompts, "Invalid ID"

BRIEF INTRODUCTION TO ACCESS OPTIONS

Access option function setting is the settings of user's accessibility to certain doors. It is known as Time Zone. A combination of time zones is known as Group Time Zone. There are a total of 50 time zones available in the reader. Below are some examples of Time Zone configurations and combinations of Time Zones.

Time zone	1
SUN	09:00-18:00
MON	09:00-18:00
TUE	09:00-18:00
WED	09:00-18:00
THU	09:00-18:00
FRI	09:00-18:00
SAT	09:00-18:00

Table 1.1 Time Zone 1

TIME ZONE 1

Constant access time for a period of one week.

Table 1.1 is showing the time zone 1 detailed schedule where users are only allowed access from 9am to 6pm from Monday to Sunday.

Time zone	2	3
SUN	23:59-00:00	23:59-00:00
MON	08:00-12:00	14:00-18:00
TUE	08:00-12:00	14:00-18:00
WED	08:00-12:00	14:00-18:00
THU	08:00-12:00	14:00-18:00
FRI	08:00-12:00	14:00-18:00
SAT	23:59-00:00	23:59-00:00

Table 1.2 Time Zones 2 & 3

TIME ZONE 2

Variation in access for a period of one week.

Table 1.2 is showing the time zone 2 where users are allowed to access from 8am to 12pm from Monday to Friday but denied any access on the weekends.

TIME ZONE 3

Variation in access for a period of one week.

Table 1.2 also is showing the Time Zone 3 where users are allowed to access from 2pm to 6pm from Monday to Friday but denied any access on the weekends.

The Time Zone 2 and Time Zone 3 belongs to the same group of employee, therefore they can be grouped together in Group Time Zone, for example Group Time Zone 1.

There are a total of 5 Group Time Zones available for use.

Every new registered user belongs to Time Zone 1. Default grouping combination is Group 1 and default Group Time Zone 1.

Group time zone		Time zones	
1	2	3	
2			
3			
4			
5			

Table 1.3 Group Time Zones

Under a condition where Group 1 and Time Zone 1 are in factory default status, new registered user defaults in unlocking status. If the grouping of that user does not include in grouping combination setting, then user can only record time attendance but cannot unlock the door. Access option has 6 main functions

TIME ZONE SETTING

To define time zone 1 to 50.

2 HOLIDAY SETTINGS

To define time zone for holiday.

3 GROUP TIME ZONES SETTINGS

To define group time zones, a group can support up to 3 different time zones.

UNLOCK COMBINATION SETTINGS

To define different time zone combinations, and each combination is composed of different groups.

5 ACCESS CONTROL PARAMETERS

To define lock/unlock parameters

DURESS ALARM PARAMETERS

To define duress alarm parameters.

FUNCTION DESCRIPTION DEFINITION OF TIME ZONE

TIME ZONE

Range of time specified for access options. The system can define a maximum of 50 time zones. Each user can set a maximum of 3 times zones.

2 TIME REGION

A certain period of time with a format of HH:MM–HH:MM, operates in 24-hr format and accurate to the minutes. For each time zones, 7 time regions can be set.

3 ALL DAY ACCESS

00:00 to 23:59, reader allows user to access anytime in a day.

4 FORBIDDEN TIME ZONE

23:59 to 00:00, reader blocks users to access anytime in a day.

All new enrolled users are automatically assigned to Time Zone 1. It is recommended not to change any settings in Time Zone 1.

For example,

Users are allowed to access from 8:30am – 6:00pm during work time from Monday to Friday. Saturday and Sunday are off days and users are not allowed any entry.

Follow the steps to configure time zones.



Press M/ once.



3 1. New User 2. Manage 5. Sms 4. MorkCode 5. Access

Press once to choose Access and press OK .

The configured time zone is saved and reader is allowed to set the next time zone. A total of 50 time zone is available and each user can use up to 3 time zones.

After time zones settings are configured, these time zones shall be included in the Group Time Zones for the configuration to take effects.



12	2	_ (1-50	J)	_			
3				Syst	em			8
	2	Sav	ed S Oł	ucces <	sful! C	ontin. Can	ie? cel	
FRI	08	Sav 30	ed Si Oł To	ucces < 18	sfull C	ontinu Can	cel OK(M,	/<-)

Press OK once to confirm.

08:30 To 18:00

30 To 18

00 00

00

OK(M/<-)

BACK(ESC)

08

23

Press OK once to save.

Press Esc 4 times to return to the main menu.

23 59

23 59 OK(M/<-)

BACK(ESC)

00 00

00

00 00

00

59

DEFINITION OF GROUPING FUNCTION

Grouping function can segregate users into group and combine different groups into different unlocking combinations. The function provides convenience to grouping management of Access Options. The grouping function can combine as many unlocking combinations as possible from the five groups. New registered user default belongs to Group 1 but the users in Group 1 can be relocated into another group.

For example,

Here are 3 time zones, TZ1, TZ2 and TZ3. And now all 3 time zones are grouped into group time zone 2.

Follow the steps below to configure group time zone:



Press M/← once.



Press OK once.



Press once to choose Access and press OK .



Press twice to choose Group Time Zone settings and press **OK** once.



Press OK once and choose New.



Enter 2 and press 🔽 .



Press ▶ to choose Holiday as Valid.



Press and enter TZ into the column. Repeat to press to next column for next the time zone.



Move to OK and press OK to save setting.

	Default TZ		
01	TZ01,TZ00,TZ00		
02	TZ02,TZ00,TZ00		
PageUp:	¥ PageDown: #	Edit: OK	Func: MA
. age op.	The second secon		

Press OK once to confirm. Press Esc 4 times to return to main menu.

DEFINITION OF USER ACCESS SETTINGS

User Access Options is to process correlative setting according to user's requirements.

Enter Access Options menu to check user's Access Options status.

User Access Options include user grouping setting, use group time zone and user time zone.

Grouping divides registered users into several groups making them managable.

Use group time zone is whether the user uses default time zone of the belonged group.

User time zone is for user to set user's unlocking time, and select number of time zone already being set.

For example,

User ID 00001 is assigned to Group Time Zone 2. Follow the steps to assign user into group time zone.





press OK

4	Name		FP	PWD
2			1	
			14	-
PageUp: Ӿ	PageDown: #	Edit: OK	Func:	M/J

Press T to select the user ID 00001 and press M/- button.

5 No.	-9		FP	PWD
Search User			1	
Record			1	
🚺 Edit				
Del User				
New User				
User Access	<u>≠</u>	Edit: OK	Fu	nc: M/J

Press to choose User Access and press OK .



Enter 2 as Group Time Zone 2 and 🔽 .



Press ▶ to choose Grp TZ.



Press **v** twice and press **OK**.



Press **Esc** 3 times to return to the main menu.

DEFINITION OF HOLIDAY SETTINGS

User access time can control reader during holiday. The access time zone might vary during holiday and the time zone for holiday can be preset.

During configuration of the time zone for holiday, the time range for the time zone is time to block users to gain access.

Example,

Users are allowed to access during holiday from 8:00 to 12:00. Therefore, you must configure in time zone as below

13:00 – 23:59

This is the time range to block users to gain access from the reader. Please kindly take note, time zone for holiday has a different concept than the normal time zone.

Example of settings

Select a public holiday for example 1st May. The reader is set to disallow any access during holiday. Follow the steps shown to configure holiday settings.



Press M/ once.



Press OK once.





Press OK once to choose Time Zone settings.



Enter a value to choose for time zone (1~50), for example 5. Press **OK** once.



Press and enter TZ into the column. Repeat to press 🔽 to go to the next column for the next time range.



Press OK once to save settings. Press Esc once to return to the previous page.



Press **v** to choose Holiday settings.





0	Dates	TZ
1	New	
	Edit	
PageUp:	PageDown: # Edi	t: <mark>OK</mark> Func: <mark>M/4</mark>

Press OK once to choose NEW.



Preset time zone for holiday in Time Zone settings, for example 5.

No.	01			
Start	01	м	01	D
End	01	м	01	D
τz	01			

Enter number of holiday, for example 1.



Move to OK and press OK to save settings.



Press 🔽 to enter date range of holiday.



Press **Esc** to return to the previous page.



Press T to select Group Time Zone setting and press OK .



Press OK once.



Choose Group Time Zone to apply holiday, for example 1. Press **OK** once.



Under holiday column, press **b** to change to Invalid.



Press Esc 4 times to return to the main menu.

USER UNLOCK COMBINATION SETTINGS

In order to allow user to use different time zone groups, please set the followings accordingly:

- Comb1 value set to 1
- Comb2 value set to 2
- Comb3 value set to 3
- Comb4 value set to 4
- Comb5 value set to 5

ACCESS CONTROL PARAMETERS

This page allows administrator to configure accessibility of readers. There are total 8 options ready for configuration. Follow the steps to enter to access control parameters.



Press 4 times to choose Access Control Parameters and press OK .

Options available and their functions

1 LOCK (1-10S)

To adjust the unlocking time after verification.

2 DSEN. DELAY (1-99S)

To delay door sensor from triggering alarm system when door is not closing. This function only works when a door sensor is attached to the reader.

3 DSEN MODE

To choose the type of door sensor attached to the reader. There are NO (normally opened) and NC (normally closed) available. Choose NONE if no door sensor is attached.

4 ALARM DELAY (1-99S)

To delay the reader from triggering alarm system.

5 ALARM COUNT (1-9 TIMES)

To adjust the maximum verification failures of users. When the maximum is reached, reader will trigger alarm system.

🙆 CLOSE TZ

Door is always locked during the predefined time period, so users cannot gain access after verification.

7 OPEN TZ

Door is always unlocked during the predefined time period, so users do not need to verify their identities but can gain access.

VALID HOLIDAYS

Choose Valid to enable the holiday settings. Choose Invalid to disable the holiday settings.

DURESS ALARM PARAMETERS

The fingerprint reader will trigger alarm system after a duress fingerprint is verified successfully. It is advisable:

> 1 to use different fingers to do daily clocking mechanism and to trigger duress alarm

> > OR

2 to use different verification to do daily clocking mechanism and to trigger duress alarm.

Follow the steps shown in page 38 to configure duress alarm parameters:



Press M/ once.





Press OK once.



Press 5 times to choose Duress Alarm Parameters and press OK .

Options available and their functions

If users would like to use the same fingerprint for daily clocking and to trigger duress alarm, administrator must enable either one of the following functions.

1 HELP KEY

Select [Yes] to enable. Hold the **▼** for 3 second followed by the fingerprint verification. Successful verification will trigger alarm system.

1:1 TRIG

Select [Yes] to enable. Enter user ID followed by fingerprint verification to trigger alarm system. During daily clocking mechanism, all users use 1:N fingerprint verification. All 1:1 fingerprint verification process will trigger alarm system.

1:N TRIG

Select [Yes] to enable. Place finger on scanner for fingerprint verification to trigger alarm system. During daily clocking mechanism, all users use 1:1 fingerprint verification. All 1: N fingerprint verification process will trigger alarm system.

PWD TRIG

Select [Yes] to enable. Enter user ID and password for verification to trigger alarm system. During daily clocking mechanism, all users use fingerprint verification. Any password verification process will trigger alarm system.

ALARM DELAY

To delay the reader to trigger alarm system after verification.



If user would like to enroll another finger to trigger duress alarm, please disable all of the above options. Please see the next page to learn to enroll/define a finger to trigger duress alarm.

TO DEFINE DURESS FINGERPRINT

If users would like to use different fingers for daily clocking mechanism and to trigger duress alarm, users must enroll with more than 1 fingerprint (2 or above).

Example, index finger for daily clocking activities and thumb as duress finger.

When duress finger is used for verification, it will trigger alarm system as well. Administrator does not need to enable any of the verification methods in Duress Alarm Parameters.

Follow the steps shown to define duress finger.













Press **v** to choose the user ID and press **M**/-**u**.



Press 🔽 to choose User Access and press OK

^		Desci	ription	
	1-01		The 01Sur	n of FPS
	1-02	2	The 01Sur	n of FPS
	»: <mark>米</mark>	PageDown: #	Edit: OK	Func: M/J

Press to choose the fingerprint to use as duress finger, and press OK .

User ID-01: first enrolled fingerprint. User ID-02: second enrolled fingerprint.



Press vice to go to Manage.



Press Esc once to end process. Press OK once.

 Description

 □
 1-01
 The 01Sum of FPS

 □
 1-02
 The 01Sum of FPS

Press **OK** once to select the enrolled fingerprint as duress finger.



Move to OK and press OK once to save settings. Press Esc 3 times to return to the main menu.

5 OTHER USEFUL FUNCTIONS

USB PEN DRIVE

If reader is installed far from a PC or encountering cabling problem that is causing disruption of data download, user can transfer data via USB flash disk (pen drive).

To use USB pen drive with reader, plug in your USB pen drive and follow the steps shown.



Press **v** to Pen Drive.



Press OK once. Choose the option by OK button. Unplug USB flash disk when process complete.

The functions of the USB flash disk include:

DOWNLOAD RECORD

To download transaction logs from reader into USB pen drive.

2 DOWNLOAD USER

To download users from reader into USB pen drive.

3 DOWNLOAD SMS

To download all short messages stored inside reader into USB pen drive.

4 UPLOAD USER

To upload users from USB pen drive to reader.

5 UPLOAD PICTURE

To upload users' pictures from USB pen drive to reader.

6 UPLOAD SMS

To upload predefined short messages from USB pen drive to reader.

UPLOAD THEME

To upload new theme to reader. Please refer to http://user.fingertec.com to learn to configure theme and upload to reader.



The reader is providing work code feature. The work code feature allows user to key in a predefined number after fingerprint or password verification. User will key in a number after fingerprint or password verification. User will key in related work codes to show purpose of their clocking data.

Table below is showing examples of work code function predefined by number:

Reasons	Work code
Check In	00
Check out	01
OT start	04
Done	05
Sick leave	10
Half day leave	12
Emergency leave	11
Meeting client	20
Outstation	21

These numbers are predefined by user in the software and represent different reasons, such as "10" for sick leave, "11" for emergency leave.

TO DEFINE WORK CODE



Press M/ once.



Press **b** to choose Work Code and press **OK** button.



Press OK once.





Choose NEW and press OK .



Enter number to represent work code.



By using the T9 input method, input the name









Press Esc 3 times to return to the main menu.

TO VERIFY WITH WORK CODE





Enter work code value and press OK once.



Verify your identity by your enrollment type.



System option enables users to configure the followings:

- System
- Data
- Update
- Keyboard
- Display
- Power
- Reset
- Bell





Threshold (1:1)

To configure the sensitivity of the optical scanner 1:1 matching. Range 0~50, recommended 35.

Threshold (1:N)

To configure the sensitivity of the optical scanner for 1:N matching. Range 0~50, recommended 45.

- Date format: To change the date display format.
- Keybeep: To enable or disable the keypad sound.
- Voice: To enable or disable greeting voice of reader.
- Adj. V: To adjust the volume of greeting voice.
- Work code: To enable/disable work code function.

Log alert

To instruct reader to alert user if the transaction storage is less than as configured, default is 99.

Recheck min

To instruct reader to update transaction logs of all users in a time interval, default is 10minutes.

Clear record

To delete all transaction logs stored inside the reader.

Clear all

To delete all users information and transaction logs stored inside the reader.

Clear admin

To clear administrator privilege in the reader.

Delete picture

To delete picture of users stored inside the reader.

This option is to allow installer to update the firmware version of reader. Firmware is stored inside the USB flash disk and plug to the reader. The updated process will run after you press **OK** for this option.

Key	Function	Code	Name
	Status Key		Check-In
F2	Status Key	1	Check-In
F3	Status Key	2	Break-Out
F4	Status Key	3	Break-Out
F5	Status Key	4	OT-IN
F6	Status Key	5	OT-OUT
F7	Undefine		
F8	Undefine		

KEYBOARD

This option is to configure shortcut key for Status key, Work code, View SMS or Help Key for function key F1, F2, F3, F4, F5, F6, F7 and F8.



1:1 match retry times

DISPLAY

To set the maximum number of tries when user is using 1:1 fingerprint verification method. The reader triggers alarm system when user tries more than as configured. Range 1 to 9.

Password retry times

To set the maximum number of tries when user is using password verification method. The reader triggers alarm system when user tries more than as configured. Range 1 to 9.

Clock mode

To choose the display mode of clock.

Picture delay

To configure the picture delay time, range 1 to 99 sec.

Clock delay

To configure the clock delay time, range 1 to 99 sec.

SMS delay

To configure the short messages delay time, range 1 to 999 sec.



RESET

This option is to reset reader back to default factory settings.



BELLS

This option is to configure schedule bells of reader to trigger siren, total of 56 schedules. To define schedules bells:



Press M/ once.

2			
1.User	2.Comn.	O 3.System	4.Date/Time
M B	e "	7	-
S.PenDrive	6.Auto Test	7.Record	8.Sys Info

Press ▶ to choose System and press OK .



Press 🕨 to choose Bells and press OK .

4	Time	Ring State		
Bell1		Alarm01.wav		
Bell2	00:00	Alarm01.wav		
Bell3	00:00	Alarm01.wav		
Bell4	00:00	Alarm01.wav		
Bell5	00:00	Alarm01.wav		
Bell6	00:00	Alarm01.wav		
Bell7	00:00	Alarm01.wav		
Bell8	00:00	Alarm01.wav		
PageUp: Ӿ	PageDown: #	Setting: <mark>OK</mark> On/Off: <mark>M/J</mark>		

Press to go to the desired schedule bells press OK , for example Bell 1.



Enter value to adjust times should the bell ring. Press To proceed. Press To define day to trigger the bell, example Monday. Press To proceed.





Press to adjust the ring volume. Press to proceed.



Press OK to save settings.



Enter value to adjust how many times the bell will ring for example 3. Press T to proceed.

<u> </u>				
	Time	Ring State		
Bell1		Alarm01.wav		
Bell2	00:00	Alarm01.wav		
Bell3	00:00	Alarm01.wav		
Bell4	00:00	Alarm01.wav		
Bell5	00:00	Alarm01.wav		
Bell6	00:00	Alarm01.wav		
Bell7	00:00	Alarm01.wav		
Bell8	00:00	Alarm01.wav		
PageUp: <mark>米</mark>	PageDown: #	Setting: <mark>OK</mark> On/Off: <mark>M/J</mark>		

Press Esc 3 times to return to the main menu.



Press to turn on or off. Press to proceed.

OTHER



To enable/disable the fingerprint image display on screen when user is scanning finger.

Neither show

To not show image for enrollment or verification

Both show

Show image during enrollment or verification

Enroll show

Show image during enrollment only

Match show

Show image during verification only

This option is recommended to run the installer. Installer can run the test from reader to diagnose or analyze.





This is to allow administrator to view the transaction logs of users. Administrator needs to enter the user ID, start date and finish date to proceed.

Follow the steps on page 50:



Press M/ once.



Press to choose Record and press OK .





Enter user ID and press 🔽





Enter start date and press 🔽



Transaction logs found and displayed on screen. Press Esc times to return to the main menu.

SYSTEM INFO



This option is to allow installer to check the information of reader, such as storage, firmware, algorithm etc.

	SysInfo	
ecords Dev	ice	
	DeviceName ikiosk 100 Serial Num 521463 Mac Address 00 : 17 : 61 : 00 : 00	: 01
Alg Version	Biobridge VX9.0	
Firmware Ver	Ver 4 . 0 . 1(build 72)	
Manufacturer	FingerTec	
Manu Time	2007-10-1216:57:18	

SHORT MESSAGE DISPLAY



This option allows administrator to input message to view by individual or all users after verification. To configure short message.



Press 🕨 to choose SMS and press OK .

Press M/ once.



Select User and press OK ..



press OK .

		New SMS			
Start	2008	Y 04 M 14	D 15 H 17	м	
Start Valid	2008 60	Y 04 M 14 Minute	D 15 H 17	м	
Start Valid Type	2008 60 Reserv	Y 04 M 14 Minute	D 15 H 17	M	

Enter the content of short message by T9 input method. Press to proceed.



If Public or Reserved is selected, press OK to save settings. Press Esc 3 times to return to the main menu.

0		New SMS		×
meeting	at room A			
Character I.	booo	V 04 M 14	D IT.	177.04
Start	2008	Y 04 M 14	D 15	17 M
Start Valid	2008 60	Y 04 M 14 Minute	D 15 H	17 M
Start Valid Type	2008 60 Personal	Y 04 M 14 Minute	D 15	17 M

Enter the start time for message to be displayed. Press to proceed.



If Personal is selected, press F8 to proceed.

 Enter the valid time for message to be viewed, for example 60 minutes. Press
 to proceed.

8 Press > to choose recieptent of the message. Public: Message display to all users after verification.

Personal: Message only display to selected users only. Reserved: Message saved but not

display to any users.



Press OK to choose user to display the message. You can choose multi users. Press Esc once to exit. Press OK once to save settings. Press Esc 3 times to return to the main menu.

T9 INPUT METHOD

Administrator can enter alphabets, symbols or numbers during configuration at the reader, for example the user name, the content of short messages, etc. Administrator needs to use T9 input method to enter information.



Press M/ once.



Press OK once.

For example

To input user name by T9 Input Method:



Press 🕨 to select Manage.



Press 🕨 to select the user ID and press OK .



Assign user ID by pressing keypad, example 2. Press • once to start T9 input.





Press 5 and select 4 for letter K. Repeat the process to input.





Press OK once to save.



Press Esc 3 times to return to the main menu.

6 INSTALLATION & COMMUNICATIONS

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 reference for all types of connections available for the reader only.

CONNECTIONS AVAILABLE



Back of Q2i Reader



Back of TA200 Plus Reader



Connector Port

ACCESS CONTROL CONNECTION

To link reader with door lock systems and alarm system.

2 COMMUNICATION CONNECTION

TCP/IP Connection to provide TCP/IP communication to computer via LAN cable.

RS232 Connection to provide RS232 communication to computer via RS232 cable.

RS485 Single Connection to provide RS485 communication to computer via RS485 cable. RS485 Network Connection to provide RS485 communication to computer via RS485 network.

3 POWER SUPPLY CONNECTION To provide DC 12V to reader to operate.



COMMUNICATIONS CONNECTION

TCP/IP CONNECTION

The reader can be connected to the computer by 4 ways. Please follow the steps shown to configure to connect via TCP/IP.



Press M/ once.



Press to Comm. Press OK once.



Select Network and press OK

	Net	t Setting		
IP Address	192	168	1	205
Subnetmask	255	255	255	0
SateWay	192	168	1	1
Net Speed	4 Auto	D	•	
Net Speed	4 Auto	D		6





Press OK to save settings.



Press OK to confirm.



Press Esc twice to return to the main menu.

8 Power off the reader.

Plug network plug into the network port of reader and network point.

Turn on power and continue to configure Security (see Security on page 62-63 for more details). In this page you will need to enter the values.

IP address

To enter the IP address of the reader to suit into the network environment.

Subnet mask

To enter the subnet mask of the network environment.

Gateway

To enter the gateway of the network environment.

Netspeed

To select the network speed of the reader, 10M, 100M or Auto. Recommended to use Auto.



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.



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".



58 CHAPTER 6 • INSTALLATION & COMMUNICATIONS

RS232 CONNECTION

Please follow the steps shown to configure RS232.



Press M/ once.



Press **b** to Comm. Press **OK** once.



Select RS232/485 and press OK .











Press OK to confirm.



Press OK twice to return to the main menu.

·····

8 Power off the reader.

9 Plug RS232 cable into reader and computer.

Turn on power and continue to configure Security (see Security on page 62 for more details).

In this page you will need to enter the value.

- Baud To define the baudrate of the connection.
- RS232 Select Yes to enable.
- RS485 Select No to disable.
- USB Select Yes to enable.



RS485 CONNECTION

Please follow the steps shown to configure RS485.



Press M/← once.



Press to Comm. Press OK once.



Select RS232/485 and press OK .



Enter the desired value.



Press OK to save settings.



Press OK to confirm.



Press Esc twice to return to the main menu.

- 8 Power off the reader.
- Plug RS485 cable to data converter then into reader and computer.
- Turn on power and continue to configure Security (see Security on page xx for more details).

In this page you will need to enter the value.

Baud

To define the baudrate of the connection.

RS232 Select Yes to enable.

RS485 Select No to disable.

USB

Select Yes to enable.



RX-

RS232 /RS485

Data Converter

Ð

RS232

cable

PC.

SECURITY

You need to define the followings after you select your communication method.

DEVICE ID

This is the ID of the reader for the software to recognize and connect to it. It starts from 1 to 254. Please make sure you define the Device ID after you configured the communication method. The Device ID of the reader must match with the ID in the software or the connection will fail.

PASSWORD

This is the security password for software to connect to the reader. Please always keep it as default, 0 because the software comes with product key and activation code for security purpose.



Connector Port/Connector Pin



Select RS232/485 and press OK .



Enter the desired value.



Press OK once.



Press OK to save settings.



Press OK to confirm.



Press **ESC** twice to return to the main menu.



Appendix • TROUBLESHOOTING

How to power on and shut down the FingerTec® reader?

To power on, press the ON/OFF button once. To shut down, press and hold the ON/OFF button for 3 second.

I cannot connect the FingerTec® reader to the PC. Every time I try, the software prompts "Unable to connect" message. What should I do?

Please check communication settings in Menu > Option > Comm. Opt. Please see more details in chapter 6.

3 The FingerTec® reader has difficulty recognizing my fingerprint. It takes many tries before I am verified. What should I do?

Please make sure that your finger is not too oily or too dirty because the oil and dirt will cover the minutiae points of the fingerprints, thus making reading difficult. Make sure the FingerTec® reader is not facing direct sunlight because it will disturb the reading of the sensor. To deal with light interference, cover the reading area when you want to verify your fingerprint. If this occurred often, kindly ask for re-registration.

Alarm goes off every time when I place finger on the sensor. Why did such thing occur and what should I do?

The finger you used was defined as a duress finger. Once a duress finger is verified, it will trigger the FingerTec® reader to activate the alarm. To undefine your finger as a duress finger, follow these steps: Menu > Option > Access options > Duress Option > Duress FP > Undef Duress FP > Enter your user ID

5 When the FingerTec® reader is turned on, the red LED is blinking all the time. Is there any problem with the reader?

There is nothing wrong with the FingerTec® reader. The red LED blinks to indicate FingerTec® reader is on standby. When a finger-print is verified, the LED will turn green to indicate successful verification.

The FingerTec® reader is accidentally turned off by a staff. Would we lose all the transaction data and fingerprints in that FingerTec® reader?

All transaction data and fingerprints in the FingerTec® reader is safe in the event of power shutdown because all the information is stored in the memory of the reader. This information can only be deleted via software or it can be manually purged in Advance option.

1 How to define the short message and assign it to certain users?

Refer to page 51 for instructions to define short messages. The easier way to define the short message is by using TCMS V2 software.

B Do I need to clear the unwanted or outdated short messages in the reader?

Not necessary, as those messages will be deleted automatically after the predefined time period has expired.

9 During enrollment I heard "duplicate finger". Why was that?

The "duplicate finger" voice message is to alert user if the enrolling finger is found to have existed in the FingerTec® reader. User must use other finger to enroll.

I waved my RFID card to a FingerTec® reader but it did not respond. What could be the reason?

Please make sure that your RFID card is registered to the FingerTec® reader, before you use it. Please also make sure that your user ID is assigned into the verification group that supports RFID card.

Do I need to stop the USB pen drive like we usually do when used in computer before we could unplug it from the reader?

Not necessary because once download or upload operation is completed, it is safe for you to remove the USB pen drive from the reader.