1 Introduction

1.1 OA3000 Introduction

OA3000 is a genuine breakthrough by Anviz in biometric identification terminals, which fully integrate fingerprint identification, RFID, camera, wireless, GPRS, multimedia and embedded system technology. Utilizing 7 inch industrial TFT true color LCD, Samsung 400MHz Arm9 high speed processor and Windows CE operation system, OA3000 can be used in all applications where fingerprint identification is required especially in governments and larges-scale enterprises as well as places where high security level is a must.



OA3000 Fingerprint Terminal

1.1.1 Feature

- Integrated touch screen
- Samsung 7 inch industrial TFT LCD of high brightness

• 10 number key, 7 function key, 6 user defined function key, 4 status key and 1 circular navigation key

• Samsung 400MHz Arm9 high speed processor. 2007 version stable core fingerprint module. Super performance. Embedded Wince5.0 operating system

Anviz optical fingerprint reader. Scratch-proof, unbreakable and durable. Well
 accept all kinds of fingerprints

• Multiple identification method: fingerprint, card, fingerprint + card, ID + fingerprint,

ID + password, card + password

• Customizable voice prompt and time attendance status. Display user picture, personal and public message. Play multi-media video file. User can select local language In the menu

• 3 million pixel camera, speaker, microphone, 2 USB and 1 RJ-45(LAN)

- Support TCP/IP, RS232/485, USB Host
- Inbuilt GPRS, inbuilt WIFI, SD card for data transfer
- Support ID, Mifare and HID card for extended function

• Optional SC021 or SC822 access controller for separate type secure access control system.

• Support real-time record download, WEB online tracking function, remote access through internet, and server identification etc.

1.2 Parameter

Item	Description
Sensor	Anviz optical sensor
LCD	Samsung 7 inch industrial TFT LCD
Identification Method	FP、ID+FP、ID+PW、FP+CARD、CARD、CARD+PW
Identification Time	<1 second
Register Method	Fingerprint, Password, (Max. 10 FP/person), card
Scan Area	22mm*18mm
Resolution	500DPI
Fingerprint Capacity	3000
Record Capacity	50000
FRR	0.001%
FAR	0.00001%
Standard Dort	TCP/IP, RS232, USB HOST, inbuilt GPRS, inbuilt Wifi,
Stanuaru Port	SD card, Wiegand
Working Current	<450mA
Sleeping Current	<380mA
Sensor	>15000V
Power	DC 12V
Temperature/Humidity	-10°C-60°C / 20%-80%

Casing Material	ABS industrial plastic
Size	204(w)*252(h)*35(d) mm
Color	Black(Customizable)

Chapter 2 Operation Guide

This chapter is mainly about appearance illustration and relevant system settings such as how to add and delete users etc.



2 Operation guide

2.1 Structure

OA3000 fingerprint identification terminal:



Illustration:

1 Camera	2 LCD	3 Speaker
4 Fingerprint sensor	5 Backspace key	6 Card punching area
7 Ring key	8 O.K. key	9 Cancel/power key
10 Down key	11 Up key	12 Numeric key/letter key
13 Menu key	14 User defined T&A status	15 T&A status key

2.2 Start the device

Plug in the 12V power supply. It starts itself. You can see the main interface as follows:



2.3 T&A management

Enter the system background: Press the button "0" and press the button "OK" to confirm. And then enter the management password: "12345". Press the button "OK" to enter the management interface.



You can enroll fingerprint, manage the users, track the records, set the parameters and so on.

2.3.1 Enroll Fingerprint

Click the item [Enroll FP]. It displays as follows:

		En	roll FP		
Enroll FP	ID	,	FP	<	7
User Manage	Name		Select	< No	>
Log Inquiry					Enroll FP
Data M/T					
System Setting					
Advanced					
Main interface					
[F1-F6]:ente	er menu, [EN	D]: confirm a	nd continue, [1 4]: c	hange,[ESC]:	exit

Enter the User ID (For example: 8101). Press the button **[**OK**]** to confirm: If the user ID is not existent, it prompts " Search no such ID. Add it or not?"

		Enroll F	P		
Enroll FP	ID	8101	FP	<	P
User Manage	Name	1	Select	NO	Enroll FP
Data M/T	ľ	Search no such ID. /	Add it or		
System Setting		Yes	No		
Advanced					
Main interface					
[F1-F6]:ente	er menu, [[ND]: confirm and cont	tinue, [† 4]: (change,[ESC]:	exit ar manage

If you want to add a new user, please chick the button [Yes]. The [Add User] window pops up:

ld User	ID	8101	_		Card No.	Г		
rch user	Name				Password			
1	Dept. name	< 总/	公司	>	Admin	<	No	>
dify user	Sex	< Ma	le	3	Group ID	<	0-NC	>
. manage	Identify mod	e	<	S	stern default	1.		
	FP access fin	stly	<	N	o response			
	Card access	firstly	<	No	o response	1,		
	PIN access fi	irstly	<	Ne	o response	,		
				~				-

Set the user Information. Click the button [Save and Next]. It will return to the [Enroll FP]. And then the user can enroll the Fingerprint.

If the User ID is already existent in the system, which is added on terminal or uploaded through communication software, then user info will be shown. Please select the FP number to be enrolled, then press the button **(**OK**)** to enroll the fingerprint.

Note: One user can enroll 10 fingerprints.

Please place you finger on the scanner window when the system prompts " Place your fingerprint".

		Enrol	I FP	
Enroll FP	ID	8101	FP	< 0 - no >
User Manage	Name	8101	Select	< No >
Log Inquiry		Please pla	ce your finger	Enroll FP
Data M/T				
System Setting				
Advanced				
Main interface				
[F1-F6]:ente	r menu, [ENI	D]: confirm and c	ontinue, [† 4]: c	hange,[ESC]: exit

After it captures one fingerprint template for the finger successfully, it prompts "The 1 time enroll FP successfully. Please remove finger".

		Enroll	FP	
Enroll FP	ID	8102	FP	< 0 - no >
User Manage	Name	[Select	< 1st FP >
Log Inquiry	The 1 tim	ne enroll FP succe	ssfully.Please re	move finger. Enroll FP
Data M/T	[[]]			
System Setting				
Advanced				
		1.500		
Main interface				

Remove the finger. And place the same fingerprint on the scanner window again. It captures the second fingerprint template for the finger.

		Enro	li FP		
Enroll FP	ID	8102	FP	< 0 - no >	
User Manage	Name		Select	< 1st FP >	
Log Inquiry	The 2 tin	ne enroll FP succ	essfully.Please rer	nove finger.	nroll FP
Data M/T	63.55				
System Setting					
Advanced					
CONTRACTOR OF A DATA SALES AND A					

Remove the finger. And place the same fingerprint on the scanner window again. It captures the third fingerprint template for the finger.

		Enrol	I FP	
Enroll FP	ID	8101	FP	< 0 - no >
User Manage	Name	8101	Select	< No >
Log Inquiry	P	lease choose a go	od quality FP to s	Enroll FP
Data M/T		ເຊິ່ງ ໂ		
System Setting	1. Sala		10	(heller))
Advanced	Contraction of the second seco	200		
	1.4			
and the second se		CONTRACTOR OF THE OWNER		

Please select a better fingerprint template for the finger by click the fingerprint image on the touch screen. If you click the first fingerprint image, the system prompts " You select FP No.1. Please save it."

		Enrol	FP		
Enroll FP	ID	8101	FP	< 0 - no	3
User Manage	Name	8101	Select	< 1st FP	>
Log Inquiry		You select FP N	o.1. Please save i	ti	Enroll FP
Data M/T		and i			
System Setting	din.		11 12	16300	200 N
Advanced	de la construction de la constru	2018			
	100				
and the second second		instanting to			and a second

Click the button 【Enroll FP】, one message box pops up:

		Enrol	FP		
Enroll FP	ID	8101	FP	< 0 - no	>
User Manage	Name	8101	Select	< 1st FP	>
Log Inquiry		You select FP N	o.1. Please save i	tl	Enroll FP
Data M/T		Save FP No. 1!	1		્યાન્ટ
System Setting	din.	ОК		in and the	200
Advanced	line in the second	2013			
	Che La				
		and the second se			and the second second

Press the button **[**OK**]** to save the fingerprint template.

2.3.2 User Manage

We can add, delete and modify the user.

Click [User Manage] in the main interface, it displays as follows:

	User Manage
Add User	Instruction:
Search user	Add User: Input user ID, or other info if needed. Modify User: Just and the set of the
Modify user	 Search user: search users based on condition, delete/modify user available.
Dept. manage	 Department manage: add, modify and delete department.
User Manage	
[F1-F6]:ente	r menu, [END]: confirm and continue, [1 4]: change, [ESC]: exit

2.3.2.1 Add User

Click the 【Add User】, it displays as follows:

Add User	ID	Г			Card No.			_
earch user	Name				Password			
1	Dept. name	<	总公司	>	Admin	<	No	2
fodify user	Sex	¢	Male	>	Group ID	<	0-NC	
pt. manage	Identify mode			< 5	ystem default	1 >		
	FP access fire	stly	1	< N	o response	>		
	Card access f	irst	ly	< N	o response	>		
	PIN access fi	rstly	,	< N	o response	,		

ID: user ID. It can't be duplicated and the first digit can't be 0. The max length is 12 digit.

Card No.: edit is limited. When adding card number, only need to swipe user card on card area, then card no. will show in the bar.

Password: user password. The max length is 12 digit.

Identify mode: two modes, user defined mode and system default mode..

System default	Based on Advanced setting
Set	administrator can set for appointed user based on
independently	need

FP accesses firstly: terminal response when user identify fingerprint. 4 modes available: no response, password identify, card identify, access granted (identification

successfully).

Card accesses firstly: terminal response when user identify card. 5 modes available: no response, password identify, FP identify (1:1), FP+password identify, access granted (identification successfully).

PIN accesses firstly: terminal response when user identify PIN. 5 modes available: no response, password identify, card identify, FP identify (1:1), FP+password identify, access granted (identification successfully)

Click the button [Save and Next] to save.

2.3.2.2 Search User

Click the [Search User], it displays as follows:

		Sea	rch user			
Add User		N	lame	Dept.	All	
Search user	ID	Name	Dept.	Card No.	Sex	earch
Dept. manage						
User Manage						
[F1-F6]:enter	menu, [END]: confirm a	nd continue,	[1 4]: change,	[ESC]: exit	

Set the keyword for searching (ID, Name, Department...). And then click the button [Search].

You can shift the page by click the button [

[Browse the user information]: You can select the user and then click the button [...].

[Delete user] : Select the user and then click the button [].

2.3.2.3 Modify user

Click [Modify user], it displays as follows:

Add User	ю	Card	No.		
earch user	Name	Pass	word	-	
	Dept. < 불	公司 > Adm	in	< No	>
fodity user	Sex < M	ale > Grou	p ID	< 0-NC	2 >
ept. manage	Identify mode	 System default 	>	1	
	FP access firstly	< No response	>	1	
	Card access firstly	< No response	>]	
	PIN access firstly	< No response	>	1	
				-	_

Input the user ID. Click the button **(**OK**)**, it displays the user's user information. You can modify the user information. Click the button **(**Save and Next**)** to save the modified user information.

2.3.2.4 Department management

Add, delete and modify the department.

Click the 【Dept. manage】, it displays as follows:

	Dept. ma	anage
Add User Search user	—☆ Head office	Current dept Head office New dept name
Modify user Dept. manage		Instruction: 1.New dept. name can't duplicate with old one. 2.Only dept without sub-dept. can be deleted.
User Manage	Add Modify	Delete Save Cancel
[F1-F6]:enter	menu, [END]: confirm and co	ontinue, [† 4]: change,[ESC]:.exit_INIT TERMINAL

[Add department]: Select the superior department. And then click the button[Add]. Input the new department name. Click the button [Save] to save.

Notice: The department name must be exclusive.

[Modify department]: Select the department. Click the button [Modify]. Input the new department name. And click the button [Save] to save.

[Delete department]: Select the department. Click the button [Delete]. It prompts "Are you sure to delete the selected department?" Click the button [Yes] to delete the

department. Or click the button [No] to cancel.

Notice: Please delete the department's sub department before delete this department. You can not delete a department which has the sub departments.

2.3.3 Log Inquiry

Click the [Log Inquiry], it displays as follows:

		Log Ir	quiry			
Enroll FP	ID	1		Dept.	< All	>
User Manage	Start	2009- 6-24	•	End	2009- 6-24	▼ Search
Log Inquiry	ID	Name	Chec	kTime	CheckT	ype
Data M/T						
System Setting						
Advanced						
Main interface						
[F1-F6]:enter	menu, [ENI	D]: confirm and	continue	e, [1 4]: d	hange,[ESC]: ex	cit ar reasons.

Set the keywords and conditions for the Inquiry. Click the button [Search] to search the records.

You can use the button [< > >] to shift the page.

2.3.4 Data maintenance

Data M/T includes attendance log and user info export, user info import, backup database, restore database etc.

In system management interface, select 【Data M/T】 item, the interface will show as follows,



2.3.4.1 Data import

Data import is to import user info in standard format.

In [Data M/T] interface, select [Data import] item, the interface will show as follows,

ANVE	Data import
Data import	
Data export	Path Cevice FLASH > Import
Backup DB	Progess
Restore DB	Instruction: 1. Select the path to import database. 2. Select 'Import' button. 3. System starts importing to database.
Data M/T	
[F1-F6]:enter	menu, [END]: confirm and continue, [+ 4]: change, [ESC]: exit

Before importing staff info, please transfer the source file to the file folder named by terminal SN in Flash, SD card or U pen drive. Then rename the staff info file to BAK, i.e.

Staff info file: BAK.YGstaff FP file: BAK.ZWstaff log file: BAK.KQWhile postfix name are the following meaning,

YG represents staff, ZW represents FP, KQ represents attendance log.

Select source file path, click 【Import】 button to start importing data to system database. After completed, progress bar will be 100%.

2.3.4.2 Data export

Data export includes user info and attendance log export.

In 【Data M/T】 interface, select 【Data export】 item, the interface will show as follows,



[User export]: click [User export] item in [Data export], the interface will show as follows,

	User export
User export Att. log export	Path Device FLASH > Export Progress
	Instruction: 1. Select path to export staff info. 2. Click 'Export' button. 3. System export finish.
Data export	

Select the path to export staff info. Flash, SD card and U pen drive are optional. Click 【Export】 button to start the exporting. There will be two files named by .YG (staff info) and by .ZW (FP templates) created in the selected path. i.e. staff info file BAK20090716.YG and staff fingerprint templates file BAK20090716.ZW

Staff info name: BAK+ export date + postfix name (.YG)

Staff fingerprint template name: BAK+ export date + postfix name (.ZW)

[Att. log export] : click [Att log export] item in [Data export], the interface will show as follows,

	Att. log export
User export Att. log export	Begin Date 2009- 6 전 · End Date 2009- 6-24 ·
	Path Cevice FLASH Export
	Progess
Data export	Instruction: 1. Select the date of Att. log needed to export. 2. Select exporting Att. log path. 3. Click 'Export' button. 4. Export Att. log finish.

Firstly set the attendance log begin and end data to export, then select the exporting path (Flash, SD card, U pen drive are optional), click 【Export】 button to start exporting process. There will be attendance log file (.KQ) in the file folder named by SN. i.e. BAK20090716.KQ.

Attendance log file name: BAK + export date + postfix name (.KQ)

2.3.4.3 Backup Database

Click 【Back	.up DB 🕽 item ii	n 【Data M/T】	, the interface will	show as follows,
-------------	------------------	--------------	----------------------	------------------

	Backup DB
Data import	
Data export	Path V disk Backup DB
Backup DB	
Restore DB	
	Instruction: 1. Select the path to backup database. 2. Select 'Backup database' button. 3. System starts to backup database.

Select the path to backup database (Flash, SD card and U pen drive are optional).

Then click **[**Backup DB**]** button to start the backup process. After completed, there will be a file named by FP3000.DB created in the path.

2.3.4.4 Restore Database

Click 【Restore DB】 item in 【Data M/T】, the interface will show as follows,

	Restore DB
Data import Data export	Path U Disk Restore DB
Backup DB	
Restore DB	Instruction: 1. Select source path of database needed to restore. 2. Click 'Restore database' button.
Data M/T	
[F1-F6]:enter r	nenu, [END]: confirm and continue, [1 4]: change,[ESC]: exit an economic

Select the path to restore database (Flash, SD card and U pen drive are optional). Click 【Restore DB】 button to start the restoring. After completed, progress bar will be 100%.

2.3.5 System Setting

System setting is to do configuration for all system, including basic info, device, fingerprint, attendance, display, and time setting.

Select [System Setting] in [System Setting], the interface will show as follows,



2.3.5.1 Basic Info

Basic info mainly includes serial number, fingerprint number, staff number,

attendance log number and firmware version.

Select 【Basic Info】 in 【System Setting】, the interface will show as follows,

	Basic Info		
Basic Info	SN	12345	
Device Setting	Company name	ANVIZ R&D	
FP Setting	FP No	Used:1/Total:3000	
Att. Setting	Staff No	Used:1/Total:3000	
Display Setting	Log No	Used:1/Total:50000	
Set Time	Firmware Ver.	1.1.2.01	
System Setting			
[F1-F6]:enter me	nu, [END]: confirm and o	ontinue, [4]: change,[ESC]: exit	

SN: the unique mark of terminal. Modification is limited.

Company name: user company name.

FP No.: enrolled FP number/total FP capacity

Staff No .: enrolled user number/total user capacity

Log No.: existed attendance log/total log capacity

Firmware ver: firmware version of the terminal

2.3.5.2 Device Setting

Device Setting includes volume adjustment, Autoexecute, exit, and touchscreen calibration functions.

Select 【Device Setting】 in 【System Setting】, the interface will show as follows,

	Device Se	tting
Basic Info Device Setting FP Setting Att. Setting	Volume CodePage Autoexecute Admin pwd Run mode	 3 2 936 < No ≥ 12345 Common mode ≥
System Setting	U, [END]: confirm and con	tem Initialization Exit hscreen Calibration tinue, [1 i]: change,[ESC]: exit arrespondence

Volume: OA3000 device prompting audio volume, default is 3.

CodePage: the mapping table between language code and Unicode. Frequently used Codepage are as follows,

codepage=932 Japanese;

codepage=936 Simplified Chinese GBK; codepage=950 Traditional Chinese BIG5;

codepage=949 Korean;

codepage=866 Russian;

codepage=437 US/Canada English; codepage=65001 unicode UFT-8;

Autoexecute: if selecting 'Yes', the program will auto run after device startup. If 'No', the program will not run.

Admin PWD: admin password is used to enter administrative menu of device. Default is 12345.

Run mode: include Common mode and Debug mode, default is Common mode.

System Initialization: it will initialize the system to factory setting and cleared all data. Backup all data is recommended.

Exit: close the running program.

Touchscreen Calibration: it is to calibrate the focus of touchscreen. Click

【Touchscreen Calibration】 button, then in the interface followed, click on the crossed symbol through cursor. When the symbol moves, repeat the step. After setting completed, the interface will prompt 'New calibration setting is finished.' Click 'Enter' button to save the new setting, 'ESC' button to exit.

2.3.5.3 FP Setting

Fingerprint Setting includes fingerprint precision setting.

Select 【FP Setting】 in 【System Setting】, the interface will show as follows,

	FP Setting		
Basic Info	Precision	S Well 2	
Device Setting			
FP Setting			
Att. Setting			
Display Setting	Instruction: 1.Precision: No	ormal, Well, Excellent.	
System Setting			
[F1-F6]:enter m	enu, [END]: confirm and o	continue, [† ‡]: change,[ESC]: exit	

Precision: it has 3 levels (Normal, Well, Excellent), default is Normal. When precision is higher, it will require better quality fingerprint.

2.3.5.4 Attendance Setting

Attendance setting includes repeat attendance interval and log alarm threshold setting.

Select [Att. Setting] in [System Setting], the interface will show as follows,



Repeat attendance interval: the interval time the same user identifies. Default is 0 (not time interval) . Setting period is 0-250mins.

Prompt: if the same finger is identified continuously in re-verify time period, only the first record will be saved in device memory.

Log Alarm Threshold: If the rest memory space for the record is less than the threshold value, the machine will alarm. Setting period is 0-5000.

2.3.5.5 Display Setting

Display setting includes system skin, language, date, time format setting.

Select 【Display Setting】 in 【System Setting】, the interface will show as follows,

	Display Se	tting
Basic Info	Skin	< FLOWER >
Device Setting	Language Date format Time format Display content	< English >
FP Setting		< dd-mm-yy >
rr setting		< 24 hr >
Att. Setting		< FP >
Display Setting		
System Setting		
[F1-F6]:enter me	nu, [END]: confirm and con	tinue, [1 4]: change,[ESC]: exit

Skin: main interface skin, 3 selections.

Language: display language types, English and Chinese are optional.

Date format: system date type: dd-mm-yy, yy-mm-dd and mm-dd-yy

Time format: system time type: 12 hr and 24 hr.

Display content: it is the display content in the pop-up window when user does attendance on OA3000. fingerprint, picture, snapshot are optional.

Fingerprint	Show user's finger image when placing it for identification
Picture	Show user's corresponding picture stored in terminal. The
	picture is named by user ID(.jpg) which are saved in 'My
	device\Nandflash\OA3000\ICON'
Snapshot	When user identify successfully, camera will take snapshot
	and show it in display window

2.3.6 Advanced

Advanced setting includes snapshot, communication, identification method and access control setting.

Select 【Advanced】, the interface will show as follows,



2.3.6.1 Snapshot

Snapshot includes snapshot save mode, path and number setting.

Select [Snapshot] in [Advanced], the interface will show as follows,

	Snapshot			
Snapshot	Snapshot save mode	¢	No save	>
Comm. Config.	Snapshot save path	<	Device Flash	>
Identify mode	Snapshot save No.	<	100	>
Access Control	Instruction:			
Group Setting	2.Snapshot save modes: 3.Snapshot save path: D 3.Snapshot save No. ava	ve/den evice f ilable:	y and save. Tash, SD card. 100-500	
Advanced				
[F1-F6]:enter	menu, [END]: confirm and continue	e, [† 1]: change,[ESC]: exit

Snapshot save mode: 3 modes, no save, pass and save, no pass and save. Default is no save.

No save	System will not save snapshot		
Pass and save	When user identify successfully, camera will take		
	snapshot and save in the path 'My		
	device\Nandflash\OA3000\SNAP' file folder.		
No pass and save	When user identify failed, camera will take snapshot		
	and save in the path 'My device\Nandflash\OA3000\SNAP'		
	file folder.		

Snapshot save path: device Flash, SD card are optional. Default is device flash.

Device Flash	Save to terminal flash
SD card	Save to SD card. System will create ICON、SNAP two file
	folders.

Snapshot save number: snapshots capacity is 500 pieces, default is 100.

2.3.6.2 Comm. Config

Communication configuration mainly includes communication mode, real time monitor, retrieve IP mode, network interface and IP setting.

Select 【Comm. Config】 in 【System Setting】, the interface will show as follows,

Snapshot	Comm.	< Com	>
um. Config.	Real-time monitor	< Limit	>
	Retrieve IP mode	< Static	>
entify mode	Network Interface	< RJ45	>
cess Control	Server IP	192.168.0.7	
Time Zone	Device IP	192.168.0.218	
roup Setting	Subnet mask	255.255.255.0	
	Gateway	192.168.0.1	

Comm.: includes 3 communication types, Com, RS485, TCPIP

Real-time monitor: to real-time monitor time attendance log on terminal. This function must be activated before do real-time monitor for log on terminal.

Retrieve IP Mode: two types, static and dynamic. Default is static.

Network Interface: two types, RJ45 and Wifi. Default is RJ45

Server IP: the IP address of PC/Server that communicates with terminal

Device IP: terminal IP address

Subnet Mask: corresponding subnet mask of real network which terminal is connected

Gateway: gateway needed to set when connecting to Internet.

2.3.6.3 Identify Mode

Select 【Identify Mode】 in 【Advanced】, the interface will show as follows,

	Identify mode		
Snapshot	FP access firstly	< Access Granted >	
Comm. Config.	Card access firstly	< FP Identify(1:1) >	
Identify mode	PIN access firstly	< FP Identify(1:1) >	
Access Control			
Time Zone	Instruction:		
Group Setting	1. FP access first 2. Card access first 3. PIN access first	y means identify FP successfully. stly means identify card successfully. tly means identify PIN successfully.	
Advanced			
[F1-F6]:enter me	nu, [END]: confirm and contin	ue, [1 4]: change,[ESC]: exit	

FP accesses firstly: terminal response when user identify fingerprint. 4 modes

available: no response, password identify, card identify, access granted (identification successfully).

Card accesses firstly: terminal response when user identify card. 5 modes available: no response, password identify, FP identify(1:1, FP+password identify, access granted (identification successfully).

PIN accesses firstly: terminal response when user identify PIN. 5 modes available: no response, password identify, card identify, FP identify (1:1), FP+password identify, access granted (identification successfully).

Prompt: if identify mode is different with 'Identify mode', identify mode in 【Add user】 is effective.

2.3.6.4 Access Control Setting

Access control includes lock delay time, wiegand mode, fixed facility code setting. Select 【Identify Mode】 in 【Advanced】, the interface will show as follows,

	Access Cor	itrol
Snapshot Comm. Config. Identify mode Access Control Time Zone Group Setting	Relay control mode(Bell) Wiegand format Fix facility code(0-254) Lock delay time(0-15s) Instruction: 1.Relay control mode 2.Wiegand mode: WC 3.Fixed facility code	No > Wiegand 26 > 0 10 : 'Yes'(bell activated),'No'(bell invalid). 26 mode, Anviz WG, fixed facility code. period: 0-254.
Advanced [F1-F6]:enter	menu, [END]: confirm and cont	Inue, [† 4]: change,[ESC]:.exit

Relay control mode (Bell): 'Yes' is bell allowed, 'No' is bell limited.

Wiegand mode: two modes, Anivz wiegand and wiegand 26. Default is wiegand 26.

Fix facility code (0-254): if the same finger/card uploaded to two different ID terminal, the wiegand code output from the two terminal are different. So if facility code is set to be the same, then the wiegand code output will be the same.

Lock delay time (0-15s): the door connected to lock open time. Delay time period: 1—15s.

2.3.6.5 Time zone setting

Time zone setting includes checking old time zones and set new time zones.

Select 【Time zone】 in 【Advanced】, the interface will show as follows,

NV/2	Tim	e Zone		
Snapshot	Time Zone No.	< 1		>
mm. Config.	Mon Begin/End	9:00:00	18:00:00	-
Identify mode	Tue Begin/End	9:00:00	18:00:00	•
	Wed Begin/End	9:00:00	18:00:00	-
ccess Control	Thu Begin/End	9:00:00	18:00:00	•
Time Zone	Fri Begin/End	9:00:00	11:00:00	•
	Sat Begin/End	0:00:00	0:00:00	-
Group Setting	Sun Begin/End	0:00:00	0:00:00	÷
		Set		
Advanced	12			

If you need to check time zones that set previously, please select the time zone number, and the old time zones will show automatically.

If setting time zones, select time zone number firstly, i.e. 1, then set the time zone period, click [Set] to save after setting completed.

2.3.6.6 Group Setting

Group Setting includes groups that already set checking, and new group setting.

Select 【Group Setting】 in 【Advanced】, the interface will show as follows,

	Group S	Setting
Snapshot Comm. Config. Identify mode Access Control	Group No Time zone 1 Time zone 2 Time zone 3 Time zone 4	
Time Zone Group Setting Advanced		Set
[F1-F6]:enter me	nu, [END]: confirm and c	continue, [1 4]: change,[ESC]: exit

Select group number, then select time zone number needed to set. i.e. set group 2 including time zone 1. click 【Set】 to save the setting.

2.4 Identification

In the main interface, press F1-F6 button and attendance status button to set. After completed, you can do attendance.



If user identify successfully, the main interface will show as follows,

7 Appendix

7.1 Communication and Power Interface





TCP/IP

DC/12V

Rx/485A	TX/485B	EGND	N_C	COM	N_0	WG_D0	WG_D1	EGND	GND	+12V	
---------	---------	------	-----	-----	-----	-------	-------	------	-----	------	--

RX/485A RS485 Signal Input;

TX/485B 485 Signal Output;

EGND External Ground;

- N_C Dry contact signal connector (normal close)
- COM Dry contact signal public connector
- N_O Dry contact signal connector (normal open)
- WG_D0 Wiegand Signal D0
- WG_D1 Wiegand Signal D1
- EGND External Ground
- GND Ground
- +12V 12V Power in
- 7.2 Set communication method

Snapshot	Comm.	< Com	>
mm Config	Real-time monitor	< Limit	>
	Retrieve IP mode	< Static	>
dentify mode	Network Interface	< RJ45	>
ccess Control	Server IP	192.168.0.7	
Time Zone	Device IP	192.168.0.218	
roup Setting	Subnet mask	255.255.255.0	
	Gateway	192.168.0.1	

7.2.1 RS232 communication

Set the "Comm." as "Com" in the menu [Advanced] - [Comm. Config.]. And then connect the PC and the machine through RS232 cable.



And you should also set the communication method as RS232 in the communication software.

📑 Terminal Management		
Terminal Info No. Unit S/N Unit Name Device Group T&A status Real status	Communication Method C USB C TCP/IP C RS485 COM	
	<u>0</u> K	Cancel

7.2.2 RS485 communication method

Set the "Comm." as "RS485" in the menu 【Advanced】 - 【Comm. Config.】.

And then connect the PC and the machine through RS485 cable.



And you should also set the communication method as RS485 in the communication software.

📃 Terminal Hanagement		×
Terminal Info No. 1 Unit S/N 1 Unit Name 1 Device Group Group1 T&A status Real status	Communication Method C USB C TCP/IP C RS485 COM1	
	<u>0</u> K	<u>C</u> ancel

Notice: You must input the right Unit S/N.

7.2.3 TCP\IP communication method

Run the T&A program in the OA3000. Enter the background of the OA3000 T&A system.

	Comm. Con	fig.
Snapshot	Comm.	< Com >
Comm. Config	Real-time monitor	< Limit >
	Retrieve IP mode	< Static >
Identify mode	Network Interface	< RJ45 >
Access Control	Server IP	192.168.0.7
Time Zone	Device IP	192.168.0.218
Group Setting	Subnet mask	255.255.255.0
	Gateway	192.168.0.1
Advanced	Gateway	192.108.0.1

And then please set the OA3000's IP settings in the menu $\$ [Advanced] - [Comm. Config.] .

For instance: There is one T&A machine and one PC.

1. Use the static IP address in wired network.

The settings in the OA3000 [Advanced] \rightarrow [Comm. Config.] is set as follows:: Comm. TCP/IP Real-time monitor limit Retrieve IP mode Static Network interface RJ45 Server IP 192.168.0.7 (Notice: The server IP must be as same as the connected PC's IP address.) 192.168.0.218 (Notice: It is the OA3000's IP address.) Device IP Subnet Mask 255.255.255.0 (It is as same as the connected PC) Gateway 192.168.0.1 (It is as same as the connected PC.)

PC's IP settings:

IP address	192.168.0.7
Subnet Mask	255.255.255.0
Gateway	192.168.0.1

2. Obtain the IP address automatically in wired network.

Tł	he settings in the OA	000 【Advanced】→	Comm. Config.	is set as follows::
Сс	omm.	TCP/IP		
Re	eal-time monitor	limit		
Re	etrieve IP mode	Automatic		
Ne	etwork interface	RJ45		
Se	erver IP 19	2.168.0.7 (Notice:	The server IP must	be as same as the
connec	cted PC's IP address)		
IP	address			
Sı	ubnet Mask			
Ga	ateway			
P	C's IP settings:			
IP	address	192.168.0.7		
Su	ubnet Mask	255.255.255.0		

When you obtain the IP automatically in wired network, you can not see the Device's IP in the OA3000's T&A program background. You should exit the OA3000 T&A program and see the auto-assigned IP address in the Windows CE OS. Double click

the icon 🕮 on the bottom right corner, following window pops up:

CS89001	<u>ok</u> X CS89001	<u>ok X</u>
IP Information IPv6 Information	IP Information IPv6 Information	
☐ Internet Protocal (TCP/IP)	Internet Protocal Version 6(TCP/IPv6)	
Address Type: Static	Property Value	
Address Type. Onaid	Default Gateway Not Available	
IP Address: 192.168.0.218	Global Not Available	
Output March 255 255 255 0	Site Local Not Available	
Subriet Mask. 200.200.200.0	Link Local fe80::222:caff:fe00:1%5	
Default Gateway: 192168.0.1	6to4 Not Available	
Delauli Galeway. 132.100.0.1	Auto Tunnel Not Available	
Deta	alls Auto Tunnel2 Not Available	
	Auto runners 1800.5618.132.100.0.216362	
Renew	[4]	

3. Use static IP address in the wireless network

The settings in the OA3000 [Advanced] \rightarrow [Comm. Config.] is set as follows::

	Comm.	TCP/IP	
	Real-time monitor	limit	
	Retrieve IP mode	Static	
	Network interface	WIFI	
	Server IP	192.168.0.7	(Notice: The server IP must be as same as the
con	nected PC's IP addres	s.)	
	Device IP	192.168.0.21	8 (Notice: It is the OA3000's IP address.)
	Subnet Mask	255.255.255	5.0 (It is as same as the connected PC)
	Gateway	192.168.0.1	(It is as same as the connected PC.)
	PC's IP settings:		
	IP address	192.168.0.7	
	Subnet Mask	255.255.255.	0
	Gateway	192.168.0.1	

4. Obtain the IP address automatically in wireless network

	The settings in the C	DA3000 [Advanced] \rightarrow [Comm. Config.] is set as follows:
	Comm.	TCP/IP
	Real-time monitor	limit
	Retrieve IP mode	Automatic
	Network interface	WIFI
	Server IP	192.168.0.7 (Notice: The server IP must be as same as the
con	nected PC's IP addre	ss.)
	IP address	
	Subnet Mask	
	Gateway	
	PC's IP settings:	
	IP address	192.168.0.7
	Subnet Mask	255.255.255.0
	Gateway	192.168.0.1

When you obtain the IP automatically in wired network, you can not see the Device's IP in the OA3000's T&A program background. You should exit the OA3000 T&A program

and see the auto-assigned IP address in the Windows CE OS. Click the icon the bottom right corner, following window pops up:

5	}	
5		on

Information	IPv6 Information	Wireless Inform	ation
Internet Pro	tocal (TCP/IP)		
Address Type	: Static		
IP Address:	192.168.11.	12	
Subnet Mask:	255.255.255	.0	
Default Gatew	vay: 192.168.11	.1	
			Details
Default Gatev	vay: 192.168.11	.1	Details

Click the item "Wireless information" and choose a wireless access point. And then click the button "Connect" to make connection.

JWLC51		OK X	VNUWLC51	OK X
Information IPv6	Information VVireless Information		IP Information IPv6 Information Wireless Information	
Internet Protoca	I Version 6(TCP/IPv6)		Select a network and press connect or right-click for more	
Property	Value		options. To add a new network, double-click 'Add New'.	
Default Gateway Not Available Global Not Available Site Local Not Available Link Local fe90.2127bffe45.bcdb%6 6to4 Not Available				
Auto Tunnel Auto Tunnel2 Auto Tunnel3	Not Available Not Available fe80::5efe:192.168.0.218%2		Status: Connected to 0016014BCE2C Signal Strength: Good Notify me when new wireless network s are Available	
<u>.</u>		2	Connect	Log

Notice:

1. If you want to obtain the IP address automatically, the OA3000 must be connected to a wireless network switch which supports the DHCP.