1

# **Bio-Eagle**



## Biometrics Time Attendance & Access Control

## Directory

1. Introduction	4
1.1 Basic Concepts	6
1.1.1 User Enrollment	6
1.1.2 User Verification	7
1.1.3 Match Threshold Levels	7
1.1.4 User ID Numbers	8
1.1.5 Authority (status) Levels	8
1.1.6 Start-up window	8
2.1 How to place the finger	9
2. Enrollment and Verification Procedures	11
2.1 Enrolling Users	11
2.2 Testing an Enrollment	17
2.3 Enrolling a User with the Display Finger	Option
On	17
2.4 Verifying Your Identity	
2.4.1 Start-up window	18
2.4.2 Password Verification	18
2.4.3 ID number & Fingerprint	19
2.5 Hints for Successful Enrollments	20
3. System Options	22
3.1 System Options	
3.1.1 Date Time	23
3.1.2 Changing the Default Language	23
3.1.3 Advanced Options	23
3.2 Power Manager	24
3.3 Communication Option	25
3.4 Log Options	
3.5 Access Options	
3.6 Auto Test	
4. Download fingerprints & AC Records	

4.1 Install Attendance Management System	27
4.2 Connect PC and Bio-Eagle with RS232	28
4.3 Setup PC Com port rate: 115200 or 9600	28
4.4 Connecting and Download AC Records	31
4.5 Upload staff's name to TAP-01	35
4.6 Connect PC and TAP-01 with TCP/IP	38
5. System Information	39
6. Trouble shooting	39

### **1. Introduction**

This chapter shows the Bio-Eagle Fingerprint T&A basic concepts and how to place the finger.

Figure (Model: Bio-Eagle)



Figure (Model: Bio-Eagle) keypad

1	2	3	ESC
4	5	6	•
7	8	9	•
۲	0	ОК	MENU

### **Keypad Definition**



### **1.1 Basic Concepts**

This section contains definitions and descriptions of Time Recorder Fingerprint T&A Concepts, including:

·User Enrollment

·User Verification

·Match Threshold Levels

·User ID Numbers

·Authority (Status) Levels

The two most important TimeClock Fingerprint T&A Functions are user enrollment and user verification.

### 1.1.1 User Enrollment

6

Enrollment is the process of create an ID number and scanning a user's finger to create a template three times. This template is associated with a user ID number and stored.

During user verification, the stored template is compared to the current fingerprint scan to confirm the user's identity.

Enrollment is performed at designated Time Recorder units. The user can verify on the time recorder that enroll his fingerprint. The enrollment process takes approximately 2 seconds.

Up to ten fingers can be enrolled for the same ID number, so the user may have more verifications way.

Ideally, everyone finger on each hand should be enrolled so that if the user injures the enrolled finger had, an alternate finger template is available. While recording the finger type is optional, it is recommended such as left or right index, so that at verification the user is prompted as to which finger to use.

### 1.1.2 User Verification

Verification occurs when a user either enters an ID number or places a finger in the fingerprint sensor, then input password for comparison with the stored template.

#### 1.1.3 Match Threshold Levels

The Mach Threshold is a number that represents the degree to which verification is examined to ensure that the person is the person claimed.

The Match Threshold Levels establishes a balance between False Acceptance Rate (FAR) and False Rejection Rate (FRR). FAR measures how often a non-authorized user is falsely recognized and granted access to the system. FRR measures how often an enrolled and authorized user, who should be granted access to the system, is denied on the basis that the system did not recognize him.

You can set match threshold levels on a per-use basis. For the fingerprint verification is difficult, you can adopt ID & Fingerprint verification (match one to one).

Raising the threshold increases security, while lowering it increases throughout. The correct balance is essential.

For users with worn or damaged fingers, match threshold levels can (and should) be reduced.

Different sites have different requirements.

Table 1-1 Suggested Match Threshold Settings		Settings	
FRR	FAR	One-to-many	One-to-one

High	Low	45	25
Middle	Middle	35	15
Low	High	25	10

### 1.1.4 User ID Numbers

Before beginning fingerprint enrollment, a user is assigned User ID Number. This ID number is used to call up the fingerprint template each time that verification is requested.

ID numbers are normally called up via the keypad, but they can be called up through other means such as RF Card.

### 1.1.5 Authority (status) Levels

TAS Clock Fingerprint T&A has four authority or status levels:

'Users are people whose identity must be verified, such to gain

access to a facility or to have their attendance recorded.

·Managers can do other operations, except set advanced option

and enroll manager's authority.

Note: Without Manager status in the system, the Enroller will enroll them.

#### 1.1.6 Start-up window

Click the power button and the screen showed on, a display of a window was called the Start-up window. The following appears:



9

### 2.1 How to place the finger

1. The correct way is:

Place a finger flatwise on the sensor surface

Place it to the center of the sensor surface

2. When registering, please place finger on sensor surface for about 1 second.

3.If the quality of finger registry is very bad, please register another fingers to instead of.

### Notice :

**Correct Ways:** 

① The area of finger on the sensor surface should be

larger.

- ② Place a finger flatwise on the sensor surface
- ③ Place finger to the center of the sensor surface



### Incorrect Ways



①Touching ②put on the left ③Put on the right





④not straight ⑤Put on the lower place

Note: Please adopt the correct way to place the finger; this company assumes no responsibility for errors from the use of the Time Recorder. This company reserves the right to revise document and to make changes from time to time in the contents here of without obligation to notify any person



of such revision or changes.

### 2. Enrollment and Verification Procedures

This chapter describes how to enroll and verify users on the Fingerprint T&A verification system.

The following topics are included:

·Enrolling User

·Testing an Enrollment

·Enrolling a User with the Display Finger Option On

·Verifying Your Identity

·Hints for Successful Enrollments

Note: You must have Enroller, Manager, or Supervisor status to enroll users. For information on status levels, see "Authority (Status) Levels" on 1.1.5.

#### **2.1 Enrolling Users**

If this is the first enrollment in a new or empty system, everyone will become an enroller.

If there is a manager in the system, you will have Manager status to enroll a new user.

There are three ways of enrollment; fingerprint enrollment, password enrollment, fingerprint & password are suitable for three differences crowds. Fingerprint enrollment suited the most people 11

who have better quality fingerprints; Fingerprint & Password suited few people who enrolling successful, but verification was difficult; Password enrollment suited 1% people who verification unsuccessful.

To start the enrollment process, identify yourself firstly-press [Menu], enter your ID number or fingerprint, and then verify your identity.

Note: If this is the first enrollment in a new or empty system, you will not be prompted for verification.

The following message appears on the display:

MENU	
User Manage	
Option	
Svs Info	

Press [OK], access the User Manager, the following message display:



Press [OK], access the User Enrollment, the following message display:



Fingerprint Enrollment

(1) Access the Enroll Fingerprint to press [OK], the following display:

Enroll Fp	
New Enroll ?	

(2) Press [OK], the following appears:

Enroll No. 00008	

(3) Input the enrolling number (the range is 1 to 65534), press [OK], the following appears:



(4) If the test is successful three times in a row, the following appears:

New E	Enroll
	00008-1
ESC	ОК

Note: 00008-1

The last number 1 means the first fingerprint.

Press [OK], the previous message continues to be displayed while the template is created.

If your identity cannot be verified, you are prompted to try again. And you must restart the verification procedure (step 3).

2. Password Enrollment

(1) Access the password enrollment, press [OK], the following appears:

Enroll Pwd	
New Enroll ?	

(2) Press [OK], the following appears:



(3) Input the enroll number (the range is 1 to 65534), press [OK], the following appears:

New Enroll	
Input Pwd	****
ESC	OK

Note: The password range is 1 to 5.

(4) Input the password, press [OK], the following appears:

New Enroll
Input Pwd *****
Pwd Affirm *****
ESC OK

(5) Input the password again, press [OK], the following appears:

New En	roll
00008-P	
ESC	OK

Note: 00008-P

The last letter P means password.

Press [OK], the previous message continues to be displayed while the template is created.

3.Fingerprint & Password

Access the Fingerprint& Password, press [OK], the following appears:

Fp & Pwd	
New Enroll ?	

(2) Press [OK], the following appears:

New Enrol	1
Enroll N	lo 00008
ESC	OK

(3) Input the password (range is 1 to 65534), press [OK], the following appears:

New Enroll	
Place Finger	

(4) If the test is successful three times in a row, the following appears:

New Enroll	
Input Pwd	****
ESC	OK

(5) Input your password, the following appears:



(6) Input the password again, press [OK], the following appears: Note: 00008-1P

The second from the last 1 means one fingerprint The last letter P means password.

New Enroll	
000	008-1P
ESC	OK

Press [OK], the previous message continues to be displayed while the template is created.

#### 2.2 Testing an Enrollment

Ask the users to place their finger to perform a test verification. If the test was successful, you will adopt Fingerprint enrollment. If the poor quality of fingerprint, you will be recommended to use Fingerprint & Password.

#### 2.3 Enrolling a User with the Display Finger Option

#### On

Press [ESC] to the Display Dinger Option On, the following appears:



Note: Where system memory permits, it is advisable to have at least two fingers enrolled for a long-term user.

### 2.4 Verifying Your Identity

The workers used Fingerprint T&A to verify their identity. The system defaults to three ways of verification: Fingerprint verification, Password

verification, ID number & Fingerprint. The following appears

### 2.4.1 Start-up window

Place the finger on the sensor surface, the following appears:

Fp Verify	
Pls. Move finger	

It continues for about 0.5 seconds. If the test is successful, it will say "Thank you", the following appears:

Fp Verify
Enroll No 00008
· · •

If your identity cannot be verified, you are prompted to try again, the following appears:

Fp Verify	
Place finger Agn !	

It continues for about 0.5 seconds, return to the start-up window.

### 2.4.2 Password Verification

To start the enrollment process, enter your ID number, the

following appears:

1:1 Fp Match
Enroll No 0008

Press [OK], the following appears:

Pwd Affirm	
Enroll No	0008
Input Pwd *****	

Input correct password, press [OK], the following appears:

Pwd Affirm	
Enroll No Verfied	0008

If the password cannot be verified, the following appears:

Pwd Aff	irm	
Enr	oll No	0008
-	~ •	•

### 2.4.3 ID number & Fingerprint

To start the enrollment process, enter your ID number, the following appears:

```
1:1 Fp Match
Enroll No 0008
```

If your identity is verified, the following appears:

```
1:1 Fp Match
Enroll No 00008
```

### 2.5 Hints for Successful Enrollments

The fingerprint is of good quality, the verification speed will fast; otherwise, it will verify slowly or occur to FRR.

In order to improve the fingerprint verification quality, the following hint appears:

Table 2-1 Enrolled unsuccessful or the fingerprint of poor quality

Dry or dirty fingerprints	Solve the dry problems that rub the
	dry finger and palm.
	If the fingerprint is dry, you will
	adopt the way of wetting up the
	finger, such as rub the forehead
Have no enough to bring	The user should place a finger
pressure	firmly and squarely on the sensor
	surface.
How to select the finger?	Recommend to left or right index or

	middle finger. Use fingerprints of	
	good quality, without worn or hurt.	
	The user usually selects the	
	forefinger, if it was of a poor	
	quality, you will be recommended	
	to middle finger or ring finger.	
How to place the finger?	Place your finger firmly and touch	
	the sensor surface must be over $2/3$ .	
	The fingerprint does not touch	
	upright on the sensor surface. Do	
	not touch the finger too fast;	
	Do not move the finger on the	
	sensor surface	
The influence of the	For users with worn or damaged	
fingerprints change	fingers, the identification	
	can be influenced. If the finger	
	quality was poor, you will select	
	password verification.	
Others	However, few people's fingerprint	
	quality is too poor to verify the	
	fingerprint in gear. Please use ID &	
	Fingerprint verification, and the	
	Match Threshold	
	Levels can be reduced or use	
	password verification.	

### 3. System Options

Press the [Menu], then verify your identity. The following appears:

MENU	
User Manage	
▶ Option	
Svs Info	

Access Options, press [OK], the following appears:

Option	•
► System Opt	
Power Mng	

The following topics included: System Options, Power Manage, Communication Options, Log Options and Auto Test.

### 3.1 System Options

Access System Opt, the following appears:



The setup facility covers four areas: System Options, Language, Lock and Advanced Options.

23

### 3.1.1 Date Time

Access Date Time, the following appears:

	Date T	ime							
	2	2004-01-02	2						
		08:24:35							
	ESC		OK						
То	change	the date, p	oress	and	V, the	en input	the co	rrect d	late

#### and time, press [OK]

### 3.1.2 Changing the Default Language

Access Language, press [OK], it defaults to SCH. Press  $\checkmark$  to select another language. Fingerprint T&A comes with three built-in languages, simplified Chinese, traditional Chinese, and English for all displays. Select the language that you will use, press [OK], then Press [ESC] to return the Options. The system will ask for confirmation of the displayed language. Press [OK] to accept the language displayed.

### 3.1.3 Advanced Options

Access Advanced Option, press [OK], the following appears:



Press  $\checkmark$  and  $\checkmark$  to scroll up or down the screen to select the

option.

Restore Default: restore all setup information to default.

Clear all Data: delete all enrolling fingerprints and logs.

Delete Logs: delete all logs of flash disk.

Clear Managers' rights: change the managers' rights into ordinary users' rights.

Show Score: whether show the quality value of fingerprint in the screen or not;

Match Threshold Levels: For helping in selecting threshold level settings, see Table 1.1.3.

Sound: whether use to phonic hint or not.

### 3.2 Power Manager

Access Power Manage, the following appears:

Power Mng 🔹	Power Mng	•
► ShutDown No	Sleep	No
Power On No	Idle	No

This product uses smart manage system, supports the time switch and resting features, it can satisfy the user's different demands.

Shutdown: auto shut-off in the timed.

Power on: auto open-up in the timed.

Sleep: automatic resting in the timed, press any key to enter

25

working state.

Idle and Idle Minute, they are related each other, while the idle minute is zero, the idle is closed; while the idle minute is not zero (unit was minute), for example, it is one minute, the user does not do anything in one minute, the system will enter the idle state.

Select Shutdown, press [OK], the following appears:

ShutDown	
Set OnTime Fun ?	

Press [OK], then enter Shutdown, press [ESC] to cancel.

#### **3.3** Communication Option

Access Comm Opt, the following message appears:

Comm Opt	•	Comm Opt	•
Dev Num	1	Enthrnet	No
		<b>R</b> S232	Yes

Time Recorder Fingerprint T&A support RS232, RS485, TCP/IP, whether you use Single-Board Computer (SBC) or Networking, Bio-Eagle will satisfy the user's demands.

Device Number: machine ID; the range is 1 to 255.

Baud Rate: there are three options, 9600, 38400, 115200; the speed of communication is fast, recommend to use RS232; the speed of low communication is stable, recommend to use RS485.

IP address: it defaults to IP address is 192.168.1.201.

Net Speed: Auto is recommended..

Ethernet: whether use TCP/IP protocol or not.

RS232: communication is RS232.

RS485: communication is RS485.

COMM Key: when connecting with PC, if there is a comm. Key, you need to key in it., if there is not a comm. Key, you just left the blank empty.

### **3.4 Log Options**

Access Log Opt, the following message appears:

Log Opt	
Alm Attlog	1
ReCheck Min	0

Alarm Attendance Log: when the remainder log capacity reached set numerical value, it will automatically sound a warning that logs were fulled.

Recheck Minute: Set within compass (Unit: minute). Someone's enrollment has enrolled, then, the log twice was not displayed in the system.

### **3.5 Access Options**

Define TZ
 User Acc Opts
 GRP TZ Define
 Access Comb
 Lock

### 3.6 Auto Test

Access auto test, the following message appears:

Auto Test 🔻	Auto Test
Run All Test	Fp Reader
FLASH Test	Kev Test

In the option, you can run system device test. When the device broken down, it can analyze the cause of the device's fault and the devices were quickly and easily maintained.

It tests the Memory, LCD, Sound, Fingerprint sensor, keypad and clock. In the course of test, you should guarantee the stability of the power. Otherwise, the system's hardware was probably damaged; especially it runs the memory test.

### 4. Download fingerprints & AC Records

Install Attendance Management System
 Connect PC and TAP-01 with RS232
 Setup PC COM port rate: 115200
 Connecting and Download AC Records
 Upload staff's name to TAP-01

#### 4.1 Install Attendance Management System

Insert Disk to CD Rom and start setup procedure and complete it.(if there are any update program, please execute it, too)

### 4.2 Connect PC and Bio-Eagle with RS232

Make sure the switch of controller is pointed at RS232/RS485 The communication for TAP-01 is RS232 "Menu"->"Option"→"Comm. Opt"→"RS232"→"Yes"

Connection Bio-Eagle PC PC RS232

Connect PC and Bio-Eagle with RS485



### 4.3 Setup PC Com port rate: 115200 or 9600

if connected with RS232, 115200 is recommended, if with RS485, 9600 is recommended



(3)







### 4.4 Connecting and Download AC Records

(1)Double-click on shortcut on desktop



(2)Active this product

Attendar	ce Management Program 🔀
	Please activate this software.
-	You must activate this software within 7 day(s). Otherwise it will not work properly.
	Do you activate this product now?
	Yes 2.Click Yes.

(3)Click "Yes"

Attendance Management Program							
?	Do you want to use BioClock II to activate the software?						
~r"	Using BioClock II activate it, click "Yes", Using floppy activate it, click "No".						
	Yes 3.Click Yes.						

(4)Make sure settings are correct, then click "Connect"

Conne	ct to attendance n	nachine 🔀
	Communication type	Com Port/RS485
	Machine num.:	1 •
	Port Number:	COM2
	Baud Rate	115200
	Connect	Cancel

#### (5)Product active succeed

\_\_\_\_\_



(6)Enter "Time Recorder Communication", and again just do the same like step 4

le a a a a a a a a a a a a a a a a a a a	🐟 Attendance Management Program - [ Temp-Supervisor 9:39:49 PM] 📃 🔲 🗙								
Data	a Attendar	nce Sear	rch/Print Ma	aintenance/C	)ptions	Addin	Help		
	\$	•	<b>C</b>	0	87	A	ddin Program Mana(	gement	
	Att Log	Leave	Employees	Timetable	Sched	Bi	oClock Time Record	er Communicatio	n

(7) Check "Download user Info", then click "Execute" button to download User name and password.

No.	AC	-No. Na	ame Na	ame on Device	Upload user info	Download user info	Upload FP	Download FP
	11	1				V		
	22	2				V		
	33	3				V		
	44	4				V		
	55	5				V		



(8) Check "Download Fp", then click "Execute" button.

_0	ommunication with machine							
D	Download attendance logs Employees Machine admin							
Г	No.	AC-No.	Name	Name on Device	Upload user info	Download user info	Upload FP	Download FP
I	1	1	1					<b>M</b>
Γ	2	2	2					<b>V</b>
Γ	3	3	3					<b>V</b>
Γ	4	4	4					<b>V</b>
Γ	5	5	5					<b>V</b>
4								
							2	
	You	can edit user na	ame on time re	corder here,press e	nter to save.		v	Execute

(9)Click "Download all records" to download A.C. Records.

Δ¢	ownload a	attendance log	I <u>S    E</u> mployees   M	lachine <u>a</u> dmin				
	No.	AC-No.	Time	Verify code	Machine no.	Clock In/Out		
0	•							
L								
L								
					Down	load all red	ord fror	n
					machin	е		
				2	$\square$			
N	ote: Rep	eat record will	not be saved to da	itabase.				
		Download al	I record		Clear	r record on Tin	ne Recorde	er

..... ----sh

Dov	vnload att	endance log	s <u>E</u> mployees Mac	hine <u>a</u> dmin				
	No.	AC-No.	Time	Verify code	Machine no.	Clock In/Out		
	115	1	04-02-15 11:28	'y fingerprint	1	C/In		
	116	1	04-02-15 11:28	y finge				
	117	2	04-02-15 11:29	iy finge 🛛 🖸	Download	successfu	lly	
	118	2	04-02-15 11:29	iy finge				
	119	2	04-02-15 11:29	'y fingerprint	1	C/In		
	120	2	04-02-15 11:29	y fingerorint	1	C/In		
	121	2	04-02-15 11:29	y fin Attend	ance Mana	igement Pro	ogram	
	122	2	04-02-15 11:29	hu fin	Record	number of do	wnloaded	1: 132
	123	2	04-02-15 11:29	Savir 🥄	Record	number of sa	ved: 32	
	124	1	04-02-15 11:30	- `	New enr	rolled users: 0	)	
	125	2	04-02-15 11:30	'y fin	_			
	126	2	04-02-15 11:30	'y fin		OK		
	127	2	04-02-15 11:30	y fin <del>gorporx</del>				
	128	2	04-02-15 11:30	y fingerprint	1	C/In	°	
	129	2	04-02-15 11:30	y fingerprint	1	C/In		
	130	2	04-02-15 11:30	y fingerprint	1	C/In		
	131	2	04-02-15 11:30	y fingerprint	1	C/In		
	132	1	04-02-15 11:30	y fingerprint	1	C/In		
No	te: Repea	it record will i	not be saved to datab	oase.				
	1	Download all	record		Clear	r record on Tin	ne Recor	der

(10)Download successfully

### 4.5 Upload staff's name to Bio-Eagle

(1)Enter "Employee Maintenance"

	🐟 Attendance Management Program - [ Temp-Supervisor 3:51:22 PM]								_ 🗆 🗵
	Data Att	endance	Sea	arch/Print	Maintenance/Options	Addin	Help		
I	<b>F</b>	Ę	5	de la	000 Department List		Ctrl+D		
	Att Log	) Lea	ave	Employe	🜈 Employee Mainter	iance	Ctrl+E	it	

	A C LA C			
💊 Employee List				_ 🗆 ×
- > >   🛃 👪	► ► <b>+</b> ▲	• 🛷 🕺 📔		
Department:	AC No.	ID No.	Name	Ge 🔺
OUR COMPANY	▶ 1		John	Ma
- Production Dep	2		Lily	Fe
Sales Dep	3		Tom	Ma
	4		Linda	Fe
	5		Candy	Ma
	•	N		
AC No. 🚺			Name John	
Gender M	a	•	ID Number	
Nationality			Office Tel.	
Title		_	Home Tel	
(3)Enter "Time Reco	order Commu	nication"		
💊 Attendance Managem	ent Program - [ To	emp-Supervisor 9:39:	49 PM]	×
Data Attendance Search/	'Print Maintenance/	Options Addin Help		
	🧬 🕜	Addin Pro	gram Management	
Autog Leave Er	npioyees i imetable	BioClock T	ime Decorder Communi	cation

BioClock Time Recorder Communication

(2)Input Names, then out of this window

(4) Click "Connect"

Conneo	t to attendance m	achine	x
I	Communication type	Com Port/RS485	
	Machine num.:	1	
	Port Number:	COM2	
	Baud Rate	115200 💌	
		X Cancel	

(5) Check "Upload user info", then click "Execute" to upload name and password.

Ū.	ommunication with machine								
D	Download attendance logs Employees Machine admin								
_									
	No.	AC-No.	Name	Name on Device	Upload user info	Download user info	Upload FP	Download FP	
I	1	1	1		<b>V</b>				
	2	2	2		<b>V</b>				
	3	3	3		<b>V</b>				
	4	4	4		V				
	5	5	5		<b>V</b>				

•

You can edit user name on time recorder here,press enter to save. Note: User Info includes user name and password User name that emotulis invalid	*\	Execute Back



(6)Names have been uploaded to Machine successfully. If you need to upload fingerprints to another m/c, please check the column of "Upload FP', then click on "Execute" button.

ommunication with machine									
Download attendance logs Employees Machine admin									
-	No. 140 No. New New Protect University Developments of the State								
-	INU.	AC-NO.	Name	Name on Device	opioau user mio	Download user into	opioau rr	Downloau FF	
Ī	1	1	John						
	2	2	Lily						
	3	3	Tom						
	4	4	Linda						
	5	5	Candy						
_									

	2
You can edit user name on time recorder here,press enter to save. Note: User Info includes user name and nassword User name that empty is invalid	Execute Back

### 4.6 Connect PC and Bio-Eagle with TCP/IP

Connect PC and Bio-Eagle with TCP/IP

1.Make sure the switch of controller is pointed at TCP/IP

2. The communication for TAP-01 is TCP/IP

"Menu"->"Options"  $\rightarrow$  "Comm Opt"  $\rightarrow$ " IP Addr"  $\rightarrow$  "213.10.15.124" (use fixed IP address.

"Menu"->"Options"→"CommOpt"→"Ethernet"→"Yes"

"Menu"->"Options"→"Comm Opt"→"RS232"→"No"

"Menu"->"Options"→"Comm Opt"→"RS485"→"No"

"Menu"->"Options"  $\rightarrow$  "CommOpt"  $\rightarrow$  "NetSpeed"  $\rightarrow$  "Auto"

The download and upload procedure, please reference chapter 4.1,

4.3 , 4.4 , 4.5.

Note: If the controller box is reset, please restart the box by pulling off the wire, if reset the comm. Options, please restart the Bio-Eagle.

### **5.** System Information

Access [Menu] to Sys Info, press [OK], the following appears:

Sys Info 🔻			Sys Info	•
User Cnt	206		Admin Cnt	0
Fp Cnt	173		Pwd User	37
Sys Info Pwd User Res Space	▲ 37			

It displays user numbers, password numbers, fingerprint numbers, manager and log numbers in the screen. You can see some information such as the remainder log capacity in the memory; the device capacity, the defaults date; machine number and OEM's information are in the system.

### 6. Trouble shooting

1. Cleaning

From time to time, the optical platen, the keypad and display window require cleaning. Since working environments differ, it is not possible to define when cleaning should be performed. Following is guide:

Item	Cleaning Frequency		
Keypad and display window	Cleaning when visibly dirty and		
	hard to read. See cleaning the		
	keypad and		
	Display below.		
Optical platen	Do not over clean. The platen is		
	designed to work under greasy or		
	dirty conditions.		
	However, do clean if the platen is		
	Obstructed or people are		
	reporting deteriorating		
	Performance. See cleaning the		
	Optical Platen below.		

Table 5-1 Cleaning Schedule

2. Cleaning the Keypad and Display

To clean the keypad and display, use the same cleaning products as for the platen, and wipe dry.

3. Cleaning the Optical Platen

Clean the optical platen as follows:

(1) If dusty or gritty, first blow on the platen to clean off any loose particles.

Spray on a light coating of a window cleaning product or other similar neutral detergent.

Warning: Do not use any other cleaner or the platen may become damaged.

41

(3) Using a non-abrasive and intone, pat dry. Be careful not to scratch the platen. If lint particles adhere to the platen surface, below them off when the platen is dry.

## User Manual