Warp 3

User's Manual

2008.07

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1   About WARP3 SERIES

WARP3 SERIES is developed to manage entrance security, work place time and attendance, over-work time verification and other situation requiring the presence of the authorized personnel. Our fingerprint ID technology bypasses problems of existing security solutions such as security cards and keypad locks.

WARP3 SERIES supports various I/O protocols. Within 1 Card Reader, 128 X 64 pixel LCD screen, 10 push buttons, 6 function keys, and 1 buzzer. These equipments make WARP3 SERIES user-friendly.

2   Features

2.1   Characteristics

- **Fingerprint identification enhances security**
  Existing security measures such as security cards system and keypad locks are prone to breach by unauthorized persons through card-duplication or disclosure of set security code. Fingerprint ID system can truly restrict security access only to those authorized persons.

- **Reliable fingerprint ID algorithm**
  Our in-company developed fingerprint ID algorithm has minimized False Rejection Rate and False Acceptance Rate.

- **Entrance security, time and attendance, over-time management and other applications**
  Fingerprint ID system allows for entrance security, work place time and attendance, over-time work. Also, situations that require the presence of the authorized persons at a secured point can take advantage of our fingerprint ID system.

- **Special function keys may be configured to time and attendance and entrance access management**
  40 programmable function keys can be used to manage time and attendance. One WARP3 SERIES can be adapted to manage many different kinds of work involving site security control and time and attendance.

- **Low cost of system maintenance**
  Existing IC cards require new issuance of cards with addition of new users and lost of cards. This becomes unnecessary with fingerprint ID system. System maintenance can be lowered to negligible levels when compared to other solutions.

- **Use of stand-alone modules and working in conjunction with an ACU**
  WARP3 SERIES entrance control system may be used as stand-alone units to control entrance traffic or in multiple module configurations Utilizing Weigand/RS485 protocol to contain with an ACU. Also, direct connection to a PC is possible via TCP/IP or RS485 protocol when software library bundled. Because WARP3 SERIES content RTC and log management capabilities (up to 32,700 records), entrance security and other event management are possible without an ACU.
  Besides, WARP3 SERIES involves clock on time and record ability (32,700 logs at most), so it can be used to entrance security or other stand-alone modules.

- **Expandable and Convenience**
  WARP3 SERIES has Http Server inside, and that makes you revise the setting on line, download data, manage employees and maintain the system conveniently.

2.2 Support functions

2.2.1 User management
➢ Register a user, provide 4 type of register (1.Fingerprint   2.Password   3.RFID   4.Fingerprint+Password)
➢ Support 32 designations and departments for set
➢ Manager can depend on the real supply situation for the limit period of employee one by one
➢ Manage the entrance security and time by group
➢ The status of employee can activate or deactivate
➢ Supply employee's data, you can check every employee's number, name, status and the way of identification.
➢ Delete a user or all users

2.2.2 System management
➢ Http server inside can use IE to revise the data and manage user on line
➢ System setting has two security level includes account and password to avoid the setting status revised by a bad intention
➢ Set terminal ID, title on LCD, description, fingerprint security level, maintenance time, card ID display format
➢ Set communication status on the internet, such as IP Address, Gateway, DNS, Port Number, Host Name and DDNS.
➢ System clock setup: you can setup clock immediately by your hand or connect to the time server to revise everyday
➢ Support 40 IN/OUT trigger setup
➢ Backup and restore the user's data directly
➢ Import all user's list directly on the internet

2.2.3 Door mode
➢ 64 time set, 64 time zone setup, 32 group list, 32 holiday setup
➢ You can aimed at some entrance/exit setup location, relay trigger, lock release time zone, exit button time zone, anti pass back level, lock release time and door open delay time by connect to door lock controller or elevator controller
➢ You can define some entrance/exit, floor, parking area and attendance control by system
➢ Door status on line
➢ Configure and read door mode (normal/ forced open) by real situation

2.2.4 Log
➢ Access log: user or employee can query their access log by any computer
➢ Query by user ID, terminal ID, department, function key and time zone
➢ Query daily first in/last out for separate user
➢ Export the IN/OUT log (TXT or XLS) directly on line
➢ You can use software program to download the log instantly

2.2.5 Authentication
➢ WARP3 SERIES supply 5 authentication ways (1. fingerprint 2. RFID 3. password 4. fingerprint+ password 5. fingerprint or password)
➢ Door access setup finger+ pin time zone, card+ pin time zone

2.2.6 Real time event
➢ Display user I.D. Name on LCD at authentication time
➢ Display fingerprint status grade on LCD at authentication time and supply to fingerprint file

2.2.7 Auxiliary function
➢ Exit button
➢ Relay out (lock driver)

3 Operation window
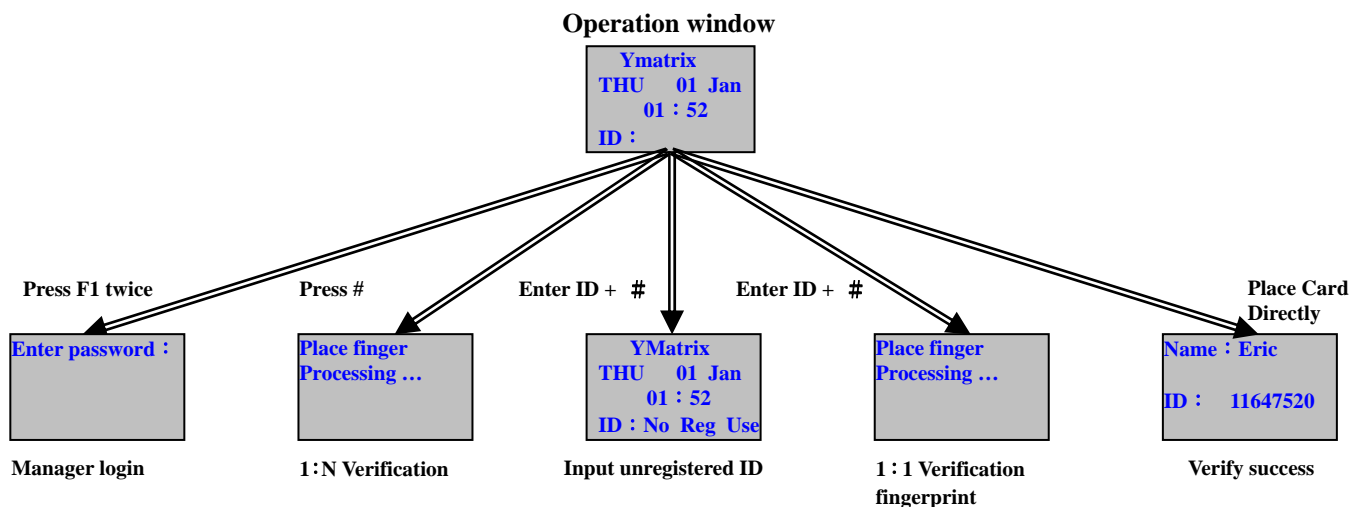
Operation window

```
    Ymatrix
THU    01  Jan
     01：52
ID：
```

| Press F1 twice | Press # | Enter ID + ＃ | Enter ID + ＃ | | Place Card Directly |

Enter password：

Manager login

Place finger
Processing …

1：N Verification

```
   YMatrix
THU    01  Jan
     01：52
ID：No  Reg  Use
```

Input unregistered ID

Place finger
Processing …

1：1 Verification fingerprint

Name：Eric

ID：   11647520

Verify success

☞ **Function key description：**

| F1 | ：**Enter Administrator Mode** |
| | **Function key for Time & Attendance** |

| F2 | ：**Function key for Time & Attendance** |

| F3 | ：**Delete (Backspace)** |
| | **Function key for Time & Attendance** |

| F4 | ：**Function key for Time & Attendance** |

| ＃ | ：**Confirm** |

| ＊ | ：**Cancel** |

| 0 | ～ | 9 | ：**Number key** |

User password:
XXXXXXXXXX

1：1 Verification password

```
   YMatrix
THU    01  Jan
     01：52
ID：No  Reg  Use
```

Input unregistered ID

Card ID Error
User Denied

Illegal card

Place finger
Processing …

Asking fingerprint verify

Enter password:
XXXXXX

Asking password verify

4 User's Menu

4.1 For fingerprint verify user

```
                          ┌──────────────┐
                          │  YMatrix.    │
                          │ THU   01 Jan │
                          │     01：52   │
                          │ ID：         │
                          └──────────────┘
```

1：1 Verify   1：N Verify   1：1 Verify
Place card directly   Press ＃   Enter ID + ＃ or F4

```
                          ┌──────────────┐                    ┌──────────────┐
        Legal Card        │ Place finger │   Registered ID    │   YMatrix    │
                          │ Processing … │                    │ THU   01 Jan │
                          │              │                    │     01：52   │
                          └──────────────┘                    │ ID：xxxxxxxxxx│
                                                              └──────────────┘
```

Illegal Card   Success   Fail   Unregistered ID

```
┌──────────────┐    ┌──────────────┐   ┌──────────────┐    ┌──────────────┐
│              │    │ Name: Eric   │   │ Place finger │    │   YMatrix    │
│ Card ID Error│    │              │   │ Processing … │    │ THU   01 Jan │
│ User Denied  │    │ ID:  11647520│   │ Identify Failed│   │     01：52   │
│              │    │              │   │ User Denied  │    │ ID：No Reg User│
└──────────────┘    └──────────────┘   └──────────────┘    └──────────────┘
```
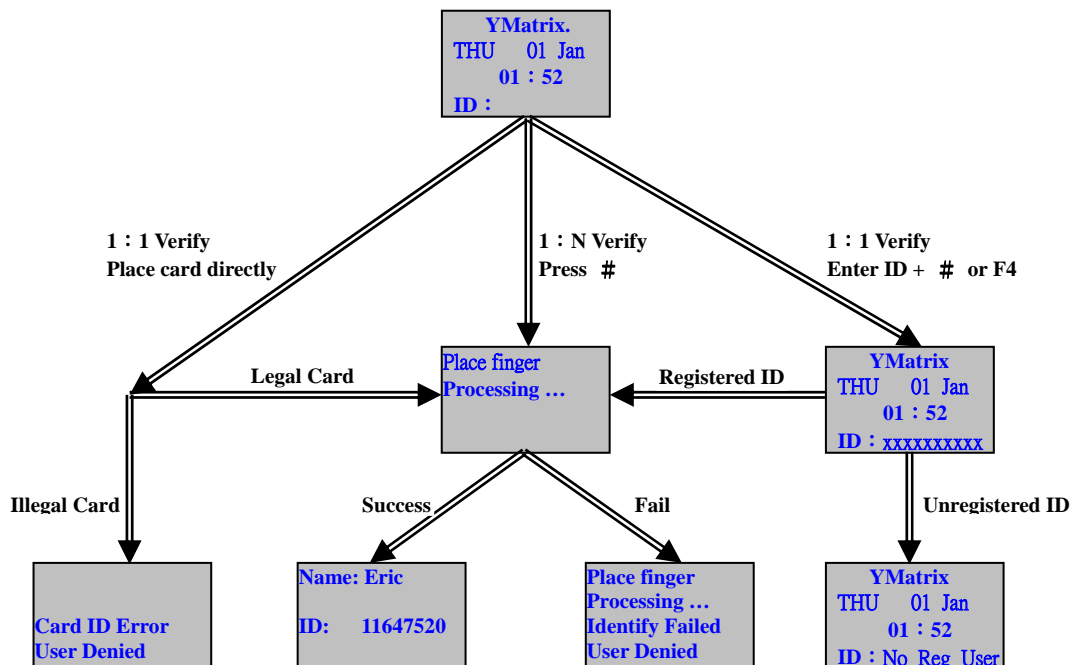
☞ **Operation description：**
  Method 1：1：1 verify , 950 users for Warp3G and 5000 users for Warp3
          Place sensor card on the coil directly
          Place finger for verify

  Method 2：1：N verify

          Place finger for verify

  Method 3：1：1 verify

  ⌨ 0 ～ 9 **Enter ID**
  ⌨ ＃ F4 **Press ＃ or F4**
  Place finger for verify

Note：1. If you use function key please press function key first
      2. If you want to show name on LCD then you must register Name to WARP 3 SERIES by

☞ **Function key description：**
  F1 ：**Enter Administrator Mode**
       Function key for Time & Attendance
  F2 ：**Function key for Time & Attendance**
  F3 ：**Delete (Backspace)**
       Function key for Time & Attendance
  F4 ：**Function key for Time & Attendance**
  ＃ ：**Confirm**
  ＊ ：**Cancel**
  0 ～ 9 ：**Number key**

4.2 For password verify user (1:1 verify)

```
           YMatrix
      THU    01  Jan
              01：52
      ID：
```

1：1 Verify   1：1 Verify
Place card directly   Enter ID + ＃ or F4

Illegal Card

```
Card ID Error
User Denied
```

```
           YMatrix.
      THU    01  Jan
              01：52
      ID：xxxxxxxxx
```

Unregistered ID

```
           YMatrix
      THU    01  Jan
              01：52
      ID：No  Reg  User
```

Legal Card   **Registered ID**

```
User password:
XXXXXXXXXX
```

Correct   **Error**

```
Name: Eric

ID:    11647520
```

```
Enter password:
XXXXXXXXXX
Password Error
User Denied
```

☞ **Operation description：**
   1：1 verify，max. 950 users for Warp3G and
   5000 users for Warp3
   Method 1：

   [0] ～ [9] **Enter ID**

   [#] [F4] **Press ＃ or F4**

   [0] ～ [9] **Enter password**
                   6～10 digit

   [#] Press ＃

   Method 2：
   Place sensor card on the coil directly

   [0] ～ [9] **Enter password**
                   6～10 digit

   [#] Press ＃

Note：1. **If you use function key please press function**
        key first
     2. **If you want to show name on LCD then you**
        must register Name to Warp 3 Series by
        software

☞ **Function key description：**

   [F1] **：Enter Administrator Mode**
           Function key for Time & Attendance

   [F2] **：Function key for Time & Attendance**

   [F3] **：Delete (Backspace)**
           Function key for Time & Attendance

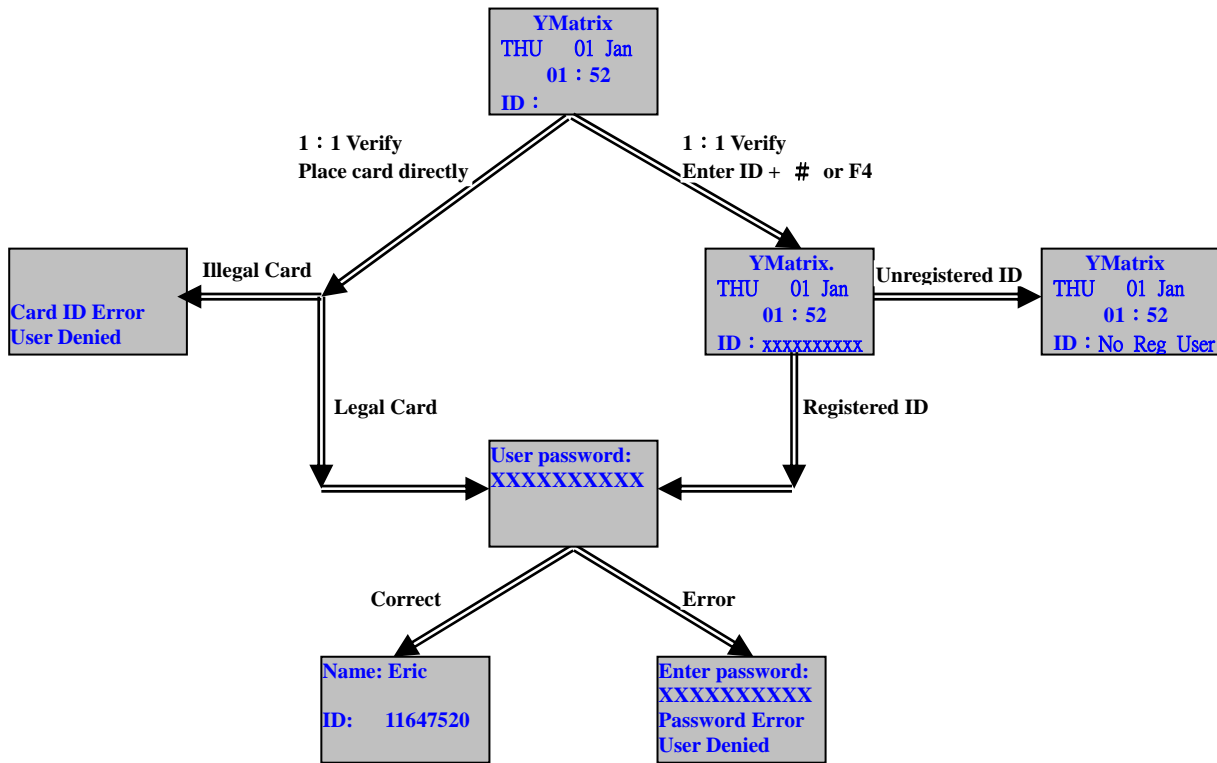   [F4] **：Function key for Time & Attendance**

   [#] **：Confirm**

   [*] **：Cancel**

   [0] ～ [9] **：Number key**

4.3 For card verify user (1:N verify)

```
        YMatrix
THU    01 Jan
         01：52
ID：
```

1：N verify
Place sensor card
on the coil directly

Legal card   Illegal card

```
Name: Eric

ID:      11647520
```

```
Card ID Error
User Denied
```
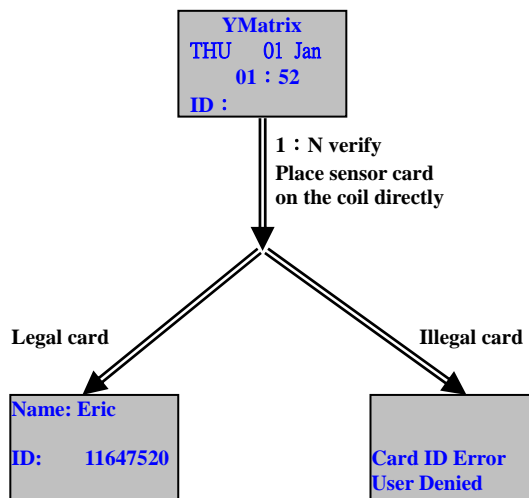
☞ **Operation description：**

    1：N verify，max. 950 users for Warp3G and 5000 for Warp3
    Place sensor card on the coil directly

Note：1. If you use function key please press function key first
      2. If you want to show name on LCD then you must register Name to Warp 3 Series by

☞ **Function key description：**

F1	：**Enter Administrator Mode**
	Function key for Time & Attendance

F2	：**Function key for Time & Attendance**

F3	：**Delete (Backspace)**
	Function key for Time & Attendance

F4	：**Function key for Time & Attendance**

#	：**Confirm**

＊	：**Cancel**

0 ～ **9**	：**Number key**

4.4   For fingerprint + password verify user

```
                              YMatrix.
                          THU    01 Jan
                                 01：52
                          ID：
```

1：1 Verify
Place card directly

1：N Verify
Press ＃

1：1 verify
Enter ID + ＃

Legal Card → Place finger Processing …   ← **Registered ID**

```
                                                      YMatrix
                                                  THU    01 Jan
                                                         01：52
                                                  ID：xxxxxxxxx
```

Illegal Card   **Success**   **Fail**   **Unregistered ID**

```
Card ID Error       User password:       Place finger        YMatrix
User Denied         XXXXXXXXXX           Processing …    THU    01 Jan
                                         Identify Failed         01：52
                                         User Denied      ID：No Reg User
```

Correct   **Error**

```
Name: Eric          Enter password:
                    XXXXXXXXXX
ID:    11647520     Password Error
                    User Denied
```

☞ **Operation description：**
Method 1：1：1 verify，max. 950 users for Warp3G and 5000 users for Warp3

Place sensor card on the coil directly
Place finger for verify

| 0 | ～ | 9 | **Enter password 6～10 digit** |

| ＃ | **Press ＃** |

Method 2：1：N verify，less than 100 users

| ＃ | **Press ＃** |

Place finger for verify

| 0 | ～ | 9 | **Enter password 6～10 digit** |

| ＃ | **Press ＃** |

Method 3：1：1 verify，max. 950 users for Warp3G and 5000 users for Warp3

| 0 | ～ | 9 | **Enter ID** |

| ＃ | F4 | **Press ＃ or F4** |

Place finger for verify

| 0 | ～ | 9 | **Enter password 6～10 digit** |

| ＃ | Press ＃ |

Note：1. If you use function key please press function key first
2. If you want to show name on LCD then you must register Name to Warp3 Series by software

☞ **Function key description：**

F1 ：**Enter Administrator Mode**
　　　Function key for Time & Attendance

F2 ：**Function key for Time & Attendance**

F3 ：**Delete (Backspace)**
　　　Function key for Time & Attendance

F4 ：**Function key for Time & Attendance**

＃ ：**Confirm**

＊ ：**Cancel**
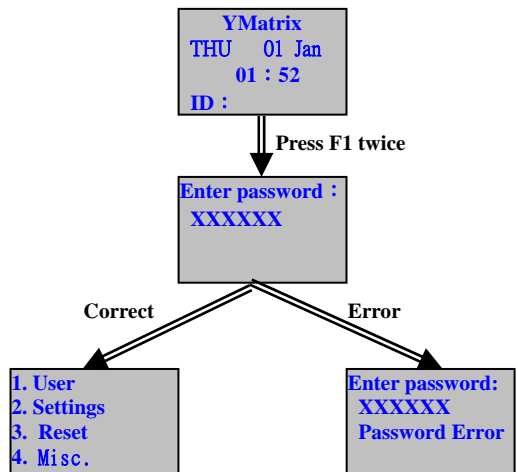
0 ～ **9** ：**Number key**

4.5　Fingerprint or Password verify user

Operation is same as **4.1**、 **4.2** and the priority is Password > Fingerprint (for sensor card 1：1 verify).

Enter **"ID ＋ ＃"**will run fingerprint verify,**"ID + F4"**will run password verify.

5 Administrator Menu

Administrator menu allows new user registration and deletion, and system configuration. **Press "F1" twice to enter**。

```
        YMatrix
   THU    01 Jan
        01：52
   ID：
```

Press F1 twice

```
Enter password：
XXXXXX
```

Correct   **Error**

```
1. User
2. Settings
3.  Reset
4. Misc.
```

```
Enter password:
XXXXXX
  Password Error
```

☞ **Operation description：**

| F1 | **Press F1 twice** |

| 0 | ～ | 9 | **Enter 6 digit password default value is 111111** |

| # | **Press #** |

| 0 | ～ | 9 | **Press 1～4 to select** |

| F1 | F2 | **Press F1/F2 to Page Up/Page Down** |

| ＊ | **Press ＊ to exit** |

☞ **Function key description：**

| F1 | ：**Enter Administrator Mode/Page Up** |

| F2 | ：**Page Down** |

| F3 | ：**Delete (Backspace)** |

| F4 | ：**No use** |

| # | ：**Confirm** |

| ＊ | ：**Cancel** |

| 0 | ～ | 9 | ：**Number key** |

5.1 Menu page #1

5.1.1 User REG: register a new user

5.1.1.1 Fingerprint verify user
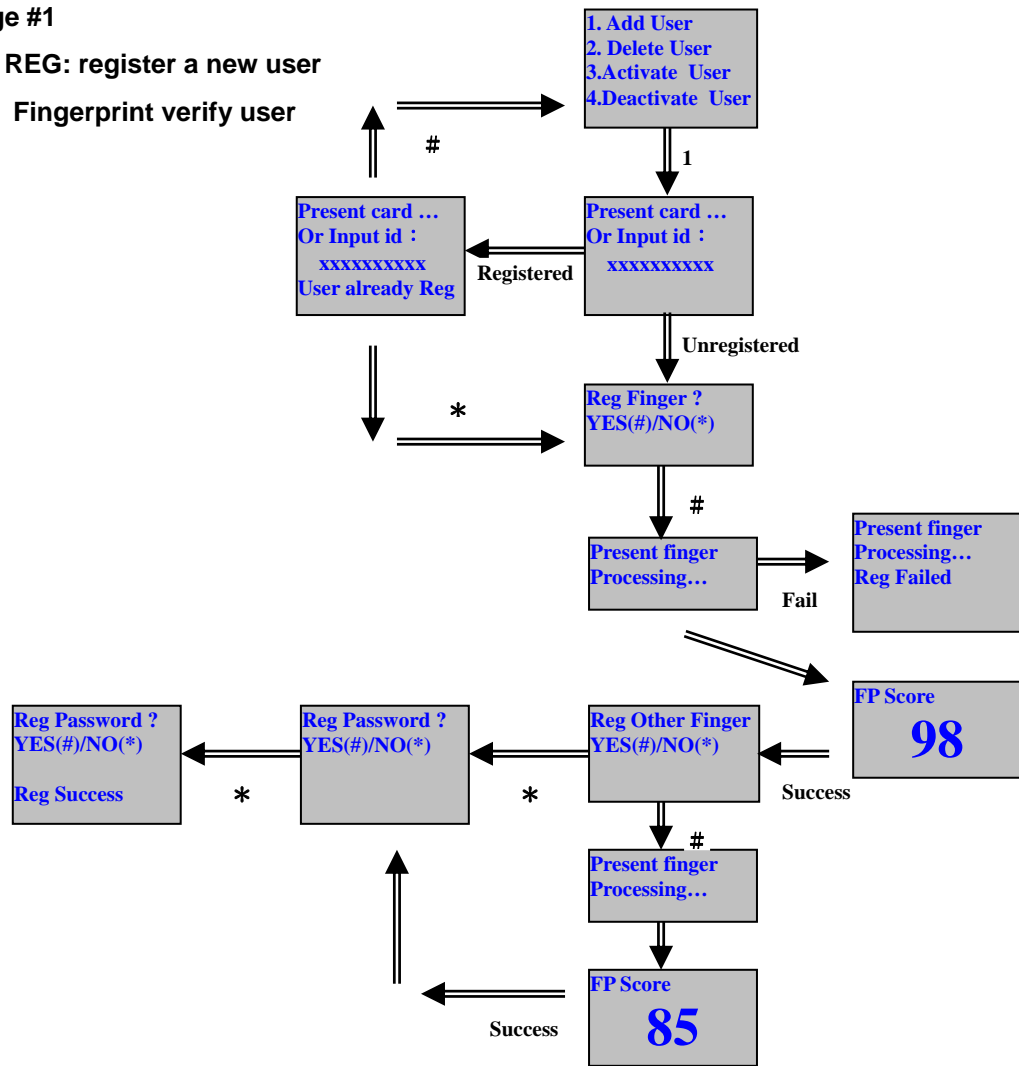
```
                                              1. Add User
                                              2. Delete User
                                              3.Activate  User
                                              4.Deactivate  User
                              #
                                                    │ 1

Present card …                    Present card …
Or Input id：          Registered  Or Input id：
   xxxxxxxxxx       ◄──            xxxxxxxxxx
User already Reg                          │ Unregistered

                    *             Reg Finger ?
                              ──► YES(#)/NO(*)
                                          │ #
                                                          Present finger
                                  Present finger          Processing…
                                  Processing…          ►  Reg Failed
                                              Fail

                                                          FP Score
Reg Password ?      Reg Password ?   Reg Other Finger        98
YES(#)/NO(*)     ◄  YES(#)/NO(*)   ◄ YES(#)/NO(*)      ◄
                 *                 *              Success
Reg Success                                 │ #
                                  Present finger
                                  Processing…

                                  FP Score
                                     85
                       Success
```

☞ **Operation description：**

F1 F2 **Press F1/F2 to find User REG**

0 ～ 9 **Press 1**

0 ～ 9 **Enter ID or Place sensor card on the coil**

Press ＃

Press ＃ to register fingerprint

Place finger on the sensor to enroll fingerprint

Press ＃ to enroll second fingerprint

Place finger on fingerprint sensor

* **Press ＊ to cancel password register**

☞ **Function key description：**

F1 ：**Enter Administrator Mode/Page Up**
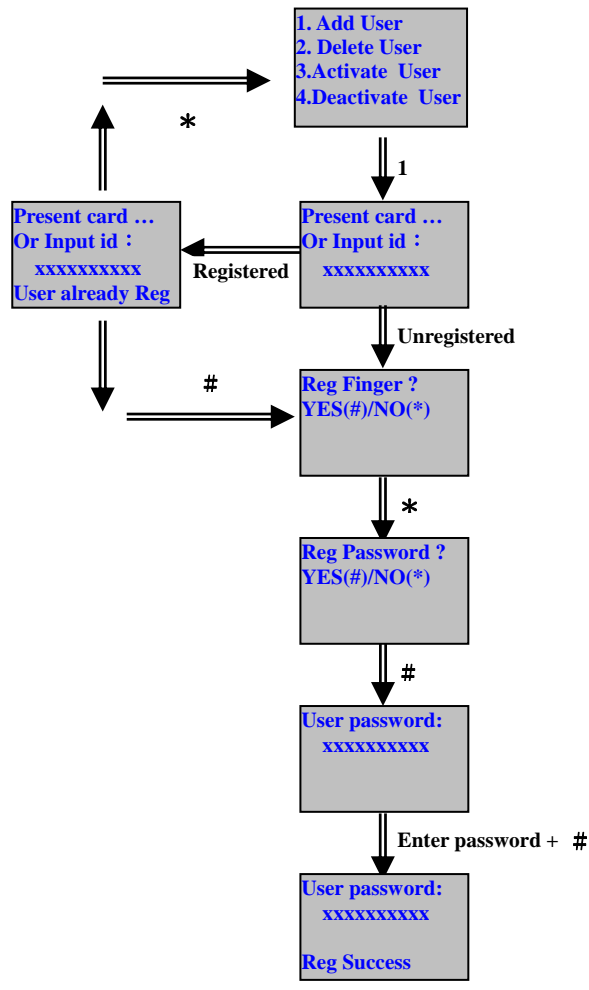
F2 ：**Page Down**

F3 ：**Delete (Backspace)**

F4 ：**No use**

：**Confirm**

* ：**Cancel**

0 ～ 9 ：**Number key**

5.1.1.2 Password verify user

```
                                    ┌──────────────────┐
                                    │ 1. Add User      │
                       ───────────→ │ 2. Delete User   │
                             *      │ 3.Activate  User │
                                    │ 4.Deactivate User│
                                    └──────────────────┘
                                           ↓ 1
      ┌──────────────────┐           ┌──────────────────┐
      │ Present card …   │           │ Present card …   │
      │ Or Input id：    │ ←──────── │ Or Input id：    │
      │    xxxxxxxxxx    │ Registered│    xxxxxxxxxx    │
      │ User already Reg │           └──────────────────┘
      └──────────────────┘                  ↓ Unregistered
              ↓                       ┌──────────────────┐
                    #                 │ Reg Finger ?     │
              ───────────────────────→│ YES(#)/NO(*)     │
                                      └──────────────────┘
                                           ↓ *
                                    ┌──────────────────┐
                                    │ Reg Password ?   │
                                    │ YES(#)/NO(*)     │
                                    └──────────────────┘
                                           ↓ #
                                    ┌──────────────────┐
                                    │ User password:   │
                                    │    xxxxxxxxxx    │
                                    └──────────────────┘
                                           ↓ Enter password + #
                                    ┌──────────────────┐
                                    │ User password:   │
                                    │    xxxxxxxxxx    │
                                    │ Reg Success      │
                                    └──────────────────┘
```

☞ **Operation description：**

| F1 | F2 | **Press F1/F2 to find User REG** |

| 0 | ～ | 9 | **Press 1** |

| 0 | ～ | 9 | **Enter ID or Place sensor card on the coil** |

| # | **Press #** |

| * | **Press *to cancel fingerprint register** |

| # | **Press # to register password** |

| 0 | ～ | 9 | **Enter password 6～10 digit** |

| # | **Press #** |

☞ **Function key description：**

| F1 | **：Enter Administrator Mode/Page Up** |

| F2 | **：Page Down** |

| F3 | **：Delete (Backspace)** |

| F4 | **：No use** |

| # | **：Confirm** |

| * | **：Cancel** |

| 0 | ～ | 9 | **：Number key** |

5.1.1.3 Card verify user

1. Add User
2. Delete User
3.Activate User
4.Deactivate User

✳

1

Present card …
Or Input id：
** xxxxxxxxxx**
User already Reg

Registered

Present card …
Or Input id：
** xxxxxxxxxx**

Unregistered

#

Reg Finger ?
YES(#)/NO(*)

✳

Reg Password ?
YES(#)/NO(*)

✳

Only Reg User ?
YES(#)/NO(*)

#

Only Reg User ?
YES(#)/NO(*)

Reg Success
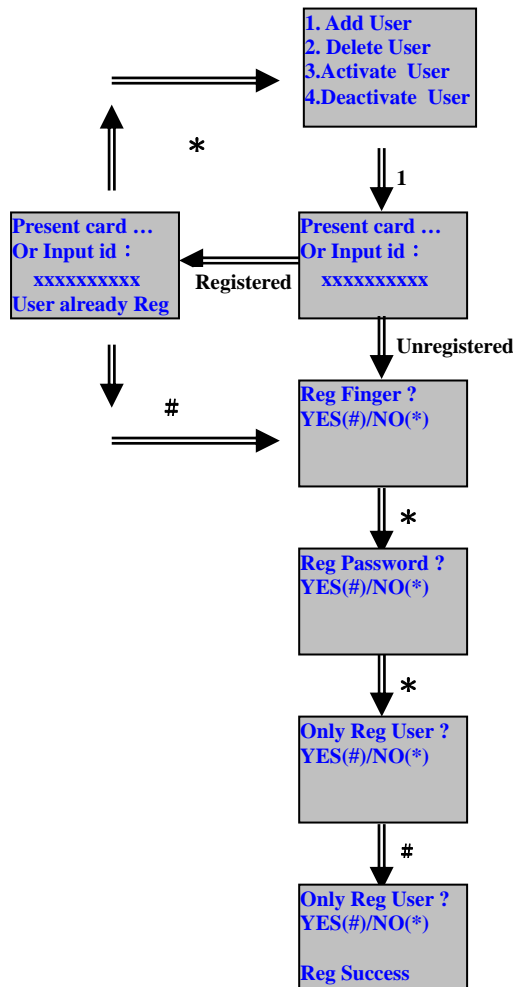
☞ **Operation description：**

F1 F2 **Press F1/F2 to find User REG**

0 ～ 9 **Press 1**

Place sensor card on the coil

✳ **Press ✳to cancel fingerprint register**

✳ **Press ✳to cancel password register**

Press # to confirm

Note：**After register success please modify open**
mode to card first , see 5.1.3

☞ **Function key description：**

F1 ：**Enter Administrator Mode/Page Up**

F2 ：**Page Down**

F3 ：**Delete (Backspace)**

F4 ：**No use**

：**Confirm**

✳ ：**Cancel**

0 ～ 9 ：**Number key**

5.1.1.4 Fingerprint + Password verify user
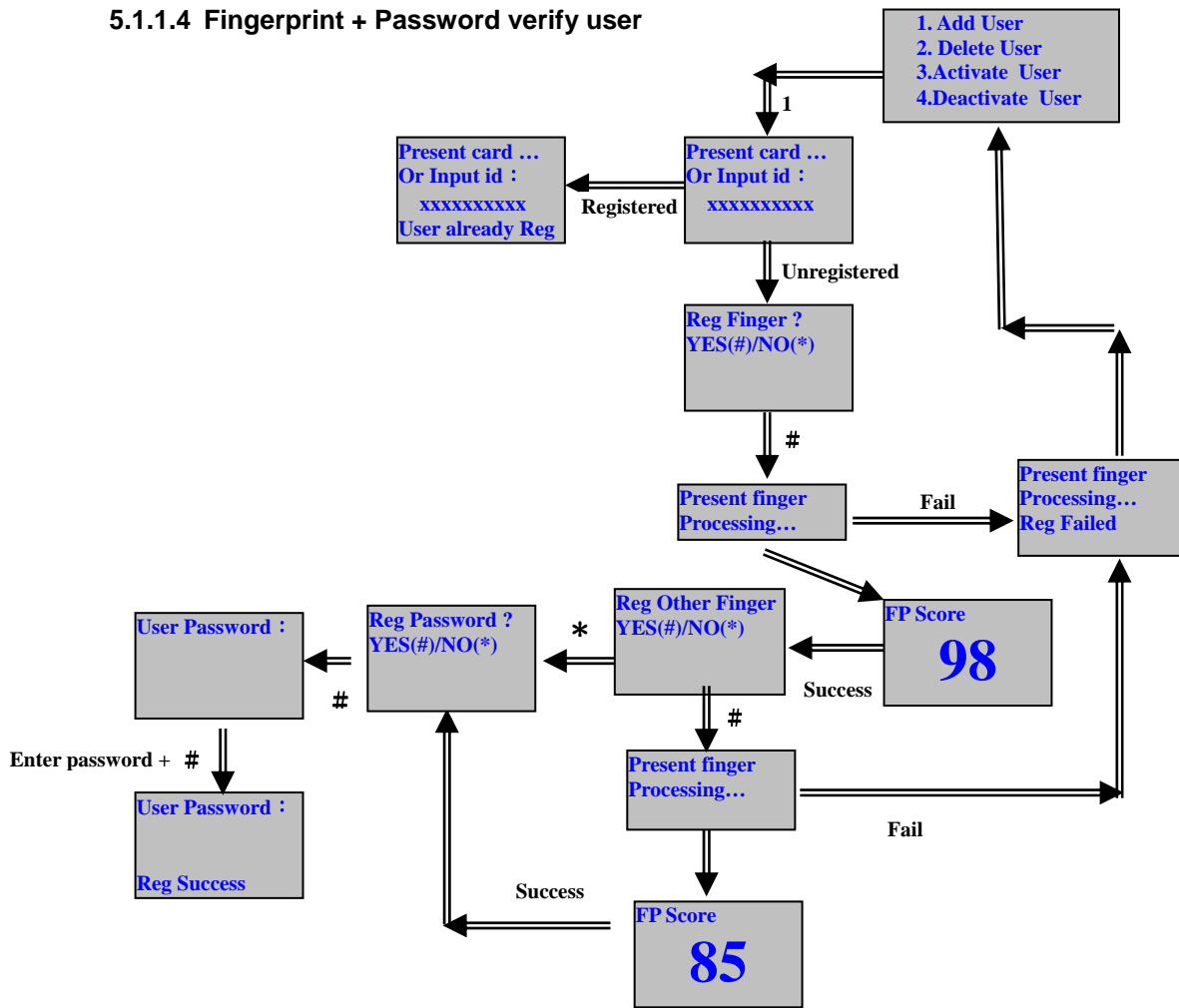
1. Add User
2. Delete User
3.Activate User
4.Deactivate User

1

Present card …
Or Input id：
xxxxxxxxxx
User already Reg

Registered

Present card …
Or Input id：
xxxxxxxxxx

Unregistered

Reg Finger ?
YES(#)/NO(*)

#

Present finger
Processing…

Fail

Present finger
Processing…
Reg Failed

Reg Other Finger
YES(#)/NO(*)

FP Score
98

Success

*

Reg Password ?
YES(#)/NO(*)

#

User Password：

Enter password + #

User Password：

Reg Success

#

Present finger
Processing…

Fail

FP Score
85

Success

☞ **Operation description：**

F1 F2 **Press F1/F2 to find User REG**

0 ～ 9 **Press 1**

0 ～ 9 **Enter ID or Place sensor card on the coil**

Press #

Press # to register fingerprint

Place finger on the sensor to enroll fingerprint

Press # to enroll second fingerprint

Place finger on fingerprint sensor

Press # to register password

0 ～ 9 **Enter password 6～10 digit**

Press #

☞ **Function key description：**

F1 ：**Enter Administrator Mode/Page Up**

F2 ：**Page Down**

F3 ：**Delete (Backspace)**

F4 ：**No use**

：**Confirm**

* ：**Cancel**

0 ～ 9 ：**Number key**

5.1.2 User Del: Del One User

```
1. Add User
2. Delete User
3.Activate  User
4.Deactivate  User
```

⇓ 2

```
Present card …
Or Input id：
   xxxxxxxxxx
```

Unregistered   **Registered**

```
Present card …
Or Input id：
   Xxxxxxxxxx
Unreged User
```

```
Present card …
Or Input id：
   xxxxxxxxxx
Del Success
```
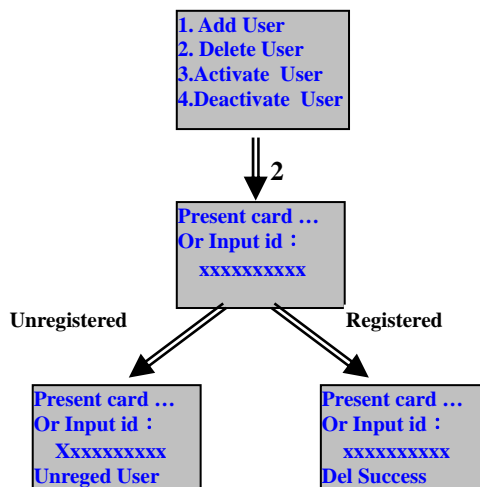
☞ **Operation description：**

| 0 | ～ | 9 | **Press 2** |

| 0 | ～ | 9 | **Enter ID or Place sensor card on the coil** |

| # | **Press ＃** |

☞ **Function key description：**

| F1 | ：**Enter Administrator Mode/Page Up** |

| F3 | ：**Delete (Backspace)** |

| # | ：**Confirm** |

| ＊ | ：**Cancel** |

| 0 | ～ | 9 | ：**Number key** |

5.1.3 User Set: Set user's verify type
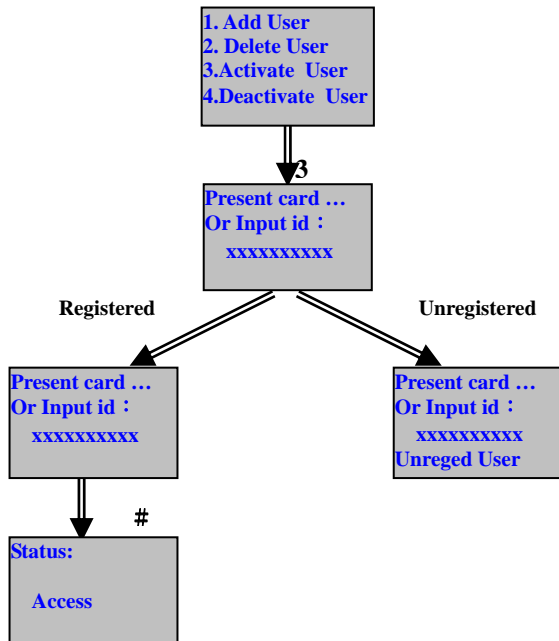
```
1. Add User
2. Delete User
3.Activate  User
4.Deactivate  User
```

↓ 3

```
Present card …
Or Input id：
   xxxxxxxxxx
```

Registered   **Unregistered**

```
Present card …
Or Input id：
   xxxxxxxxxx
```

```
Present card …
Or Input id：
   xxxxxxxxxx
Unreged User
```

↓ #

```
Status:

   Access
```

☞ **Operation description：**

| 0 | ～ | 9 | **Press 3** |

| 0 | ～ | 9 | **Enter ID or Place sensor card on the coil** |

| # | **Press ＃** |

☞ **Function key description：**

F1 ：**Enter Administrator Mode/Page Up**

F3 ：**Delete (Backspace)**

：**Confirm**

∗ ：**Cancel**

0 ～ **9** ：**Number key**

5.1.4 User Closed: Closed user's verify type
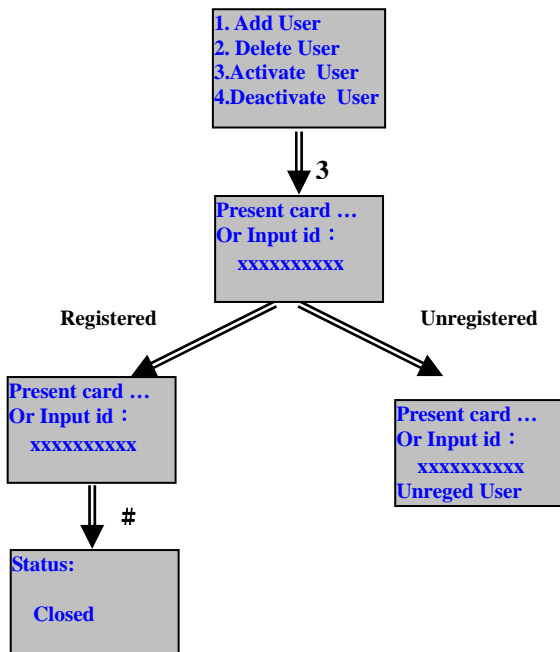
```
1. Add User
2. Delete User
3.Activate  User
4.Deactivate  User
```

↓ 3

```
Present card …
Or Input id：
   xxxxxxxxxx
```

Registered   **Unregistered**

```
Present card …
Or Input id：
   xxxxxxxxxx
```

```
Present card …
Or Input id：
   xxxxxxxxxx
Unreged User
```

↓ #

```
Status:

   Closed
```

☞ **Operation description：**

| 0 | ～ | 9 | **Press 4** |

| 0 | ～ | 9 | **Enter ID or Place sensor card on the coil** |

| # | **Press ＃** |

☞ **Function key description：**

F1 ：**Enter Administrator Mode/Page Up**

F3 ：**Delete (Backspace)**

：**Confirm**

∗ ：**Cancel**

0 ～ **9** ：**Number key**

5.2 Menu page #2

5.2.1 Time: Set time、date and week of Warp3 series
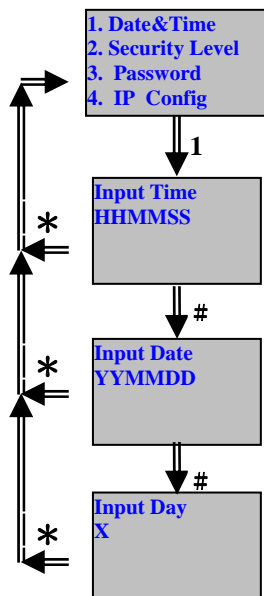
```
1. Date&Time
2. Security Level
3.  Password
4.  IP  Config
```
↓1
```
Input Time
HHMMSS
```
*

↓#
```
Input Date
YYMMDD
```
*

↓#
```
Input Day
X
```
*

☞ **Function key description：**

F1 ：**Enter Administrator Mode/Page Up**

F3 ：**Delete (Backspace)**

：**Confirm**

∗ ：**Cancel**

0 ∼ **9** ：**Number key**

☞ **Operation description：**

0 ∼ **9** **Press 1**

Set Time

0 ∼ **9** **Enter time HHMMSS**

**Press #**

Set Date

0 ∼ **9** **Enter date YYMMDD**

**Press #**

Set Day

0 ∼ **9** **Enter week 1∼7**

**Press #**

5.2.2 Secure Level: Set system security level (for Warp3G only)

1	2	3	4	5
Low				High

High security level will decrease FAR (false acceptance rate) while increasing FRR (false rejection rate). Oppositely, lower security level will increase FAR while decreasing FRR。

☞ **Operation description：**

1. Date&Time
2. Security Level
3. Password
4. IP Config

2

Security level
X (1 – 5)
Current level
2

#

Set Success
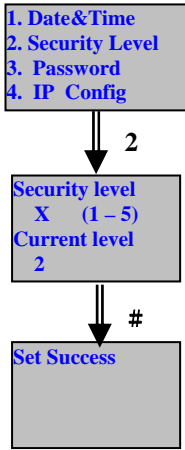
0	～	9	Press 3
0	～	9	Enter level 1～5
#	Press #		

☞ **Function key description：**

F1	：Enter Administrator Mode/Page Up
F3	：Delete (Backspace)
#	：Confirm
＊	：Cancel
0 ～ 9	：Number key

5.2.3 Manager P/W: Change system password

1. Date&Time
2. Security Level
3. Password
4. IP Config

3

Input New P/W
XXXXXX

Input P/W Again
XXXXXX

Match   Mismatch

Input P/W Again
XXXXXX
P/W Set Success

Input P/W Again
XXXXXX
Input P/W Error
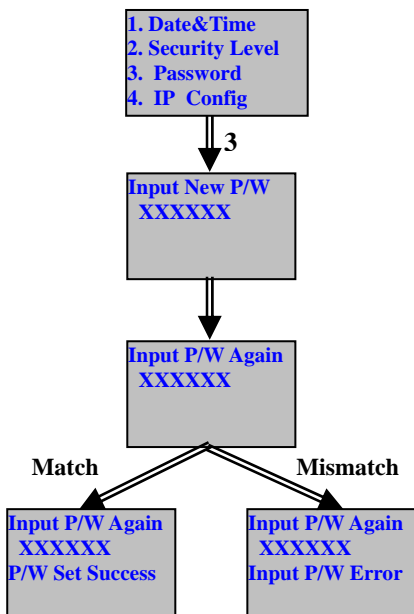
☞ **Operation description：**

0	～	9	Press 3
0	～	9	Enter 6 digit password
#	Press #		
0	～	9	Enter 6 digit password
#	Press #		

☞ **Function key description：**

F1	：Enter Administrator Mode/Page Up
F3	：Delete (Backspace)
#	：Confirm
＊	：Cancel
0 ～ 9	：Number key

5.2.4 IP Config: Set IP data of Warp3 series

```
1. Date&Time
2. Security Level
3.  Password
4.  IP  Config
```

↓ **4**

```
IP: 192168000012
SM: 255255255000
GW: 192168000001
IP:
```

↓ **#**

```
CHIYU  Tech.
THU     01  Jan
        01：52
ID：
```
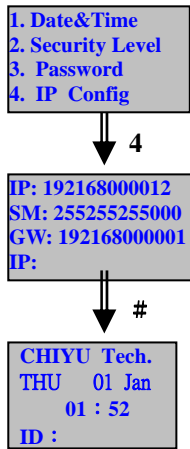
Note：The format of **IP**、subnet mask and gateway are as follow
**If you want to set IP as 192.168.0.12 then enter 192168000012
If you want to set subnet mask as 255.255.255.0 then enter 255255255000
If you want to set gateway as 192.168.0.1 then enter 192168000001**

☞ **Operation description：**

| 0 | ～ | 9 | Press 3 |

| 0 | ～ | 9 | Enter IP、Subnet mask、Gateway |

| # | Press **#** |

☞ **Function key description：**

| F1 | ：Enter Administrator Mode/Page Up |

| F3 | ：Delete (Backspace) |

| # | ：Confirm |

| ＊ | ：Cancel |

| 0 | ～ | 9 | ：Number key |
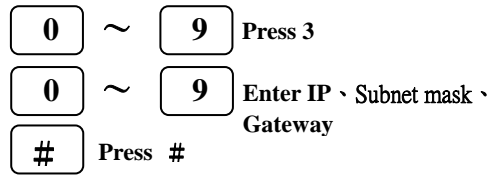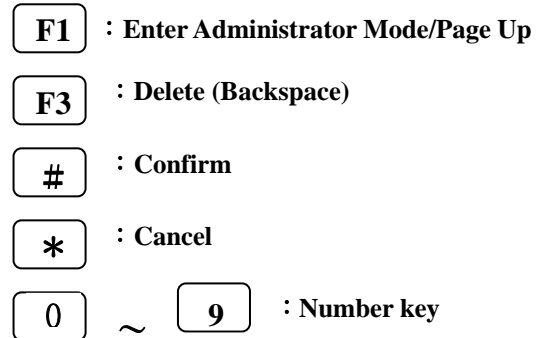
5.3   Menu page #3

5.3.1 Del Users: Delete all users

```
1. Del Users
2. Del Logs
3. IP    Config
4. Del Group
```

↓ **1**

```
Del Users
Are You Sure ?
YES(#)/NO(*)
```

↓ **#**

```
Del Users
Are You Sure ?
YES(#)/NO(*)
Deleting …
```

↓

```
Del Users
Are You Sure ?
YES(#)/NO(*)
Del Success
```

☞ **Operation description：**

| 0 | ～ | 9 | Press 1 |

| # | Press **#** |

☞ **Function key description：**

| F1 | ：Enter Administrator Mode/Page Up |

| F3 | ：Delete (Backspace) |

| # | ：Confirm |

| ＊ | ：Cancel |

| 0 | ～ | 9 | ：Number key |
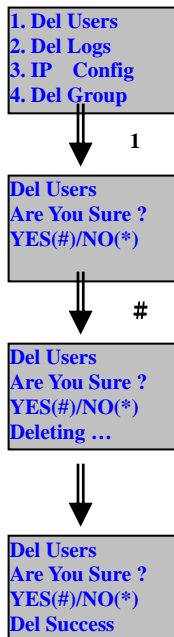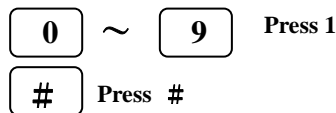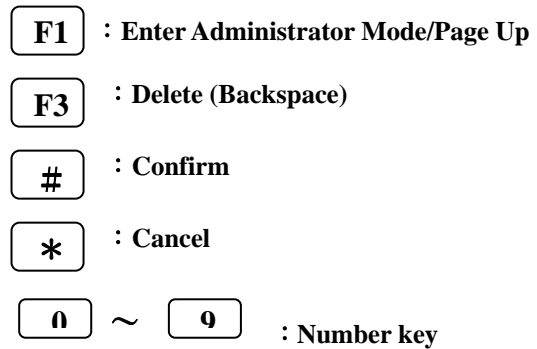
5.3.2 Del Logs: Delete all logs
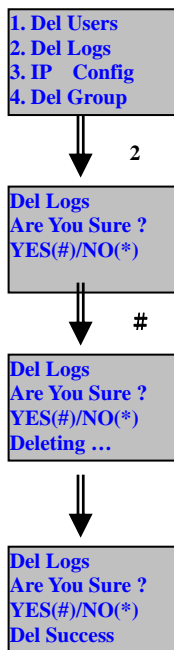
```
1. Del Users
2. Del Logs
3. IP    Config
4. Del Group
```

↓ 2

```
Del Logs
Are You Sure ?
YES(#)/NO(*)
```

↓ #

```
Del Logs
Are You Sure ?
YES(#)/NO(*)
Deleting …
```

↓

```
Del Logs
Are You Sure ?
YES(#)/NO(*)
Del Success
```

☞ **Operation description：**

| 0 | ～ | 9 | **Press 2**

| # | **Press #**

☞ **Function key description：**

| F1 | ：**Enter Administrator Mode/Page Up**

| F3 | ：**Delete (Backspace)**

| # | ：**Confirm**

| * | ：**Cancel**

| 0 | ～ | 9 | ：**Number key**

5.3.3 IP Config: Reset IP

```
1. Del Users
2. Del Logs
3. IP    Config
4. Del Group
```

↓ 3

```
Reset IP    Config
Are You Sure ?
YES(#)/NO(*)
```

↓ #

```
Please  wait….
```

↓

```
CHIYU  Tech.
THU    01  Jan
      01：52
ID :
```
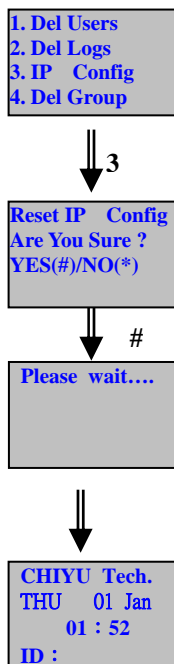
☞ **Operation description：**

| 0 | ～ | 9 | **Press 3**

| # | **Press #**

☞ **Function key description：**

| F1 | ：**Enter Administrator Mode/Page Up**

| F3 | ：**Delete (Backspace)**

| # | ：**Confirm**

| * | ：**Cancel**

| 0 | ～ | 9 | ：**Number key**

5.3.4 Del Group

```
1. Del Users
2. Del Logs
3. IP    Config
4. Del Group
```
↓ 4
```
Del GP/TZ/HD
Are You Sure ?
YES(#)/NO(*)
```
↓ #
```
Del GP/TZ/HD
Are You Sure ?
YES(#)/NO(*)
Del Success
```
↓
```
CHIYU  Tech.
THU    01 Jan
        01：52
ID：
```

☞ Operation description：

| 0 | ～ | 9 | Press 4

| # | Press #

☞ Function key description：

| F1 | ：Enter Administrator Mode/Page Up

| F3 | ：Delete (Backspace)

| # | ：Confirm | 0 | ～ | 9 |

| ＊ | ：Cancel
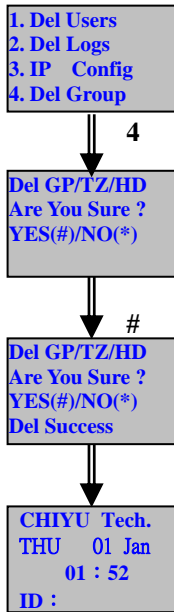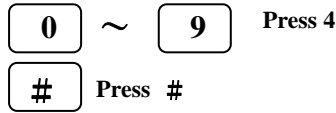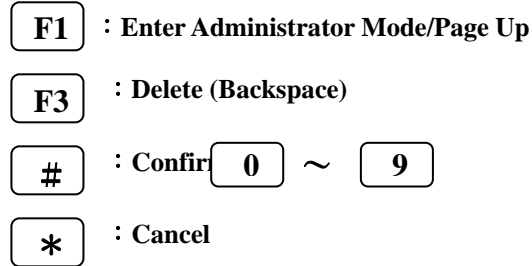
：Number key

5.4   Menu page #4

5.4.1 User & Log

```
1. User&Log
2. Init Card
3. Write Card
4. BF20/485 Reader
```
↓ 1
```
User:  00000
Log:  00000
```

☞ Operation description：

| 0 | ～ | 9 | Press 1

☞ Function key description：

| F1 | ：Enter Administrator Mode/Page Up

| F3 | ：Delete (Backspace)

| # | ：Confirm

| ＊ | ：Cancel
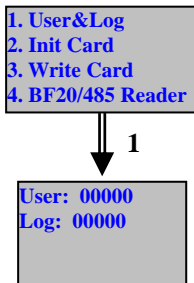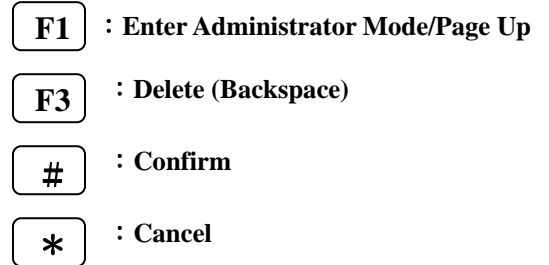
| 0 | ～ | 9 | ：Number key

5.4.2 Init Card

```
1. User&Log
2. Init Card
3. Write Card
4. BF20/485 Reader
```
↓ 2
```
Present  Card.
Push# Init  Card
```
↓ #
```
Init  Success
Init  Other  Card
YES(#)/NO(*)
```
#

☞ Operation description：

| 0 | ～ | 9 | Press 2

| # | Press #

☞ Function key description：

| F1 | ：Enter Administrator Mode/Page Up

| F3 | ：Delete (Backspace)

| # | ：Confirm

| ＊ | ：Cancel
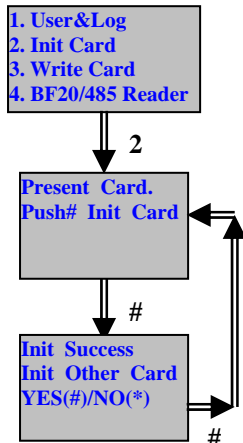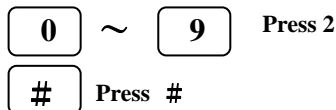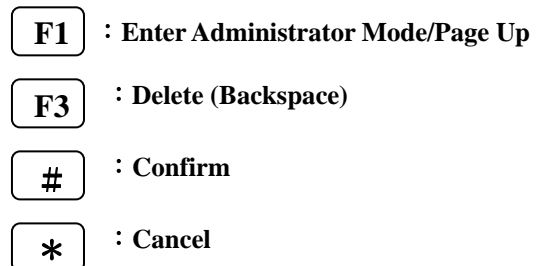
| 0 | ～ | 9 | ：Number key

5.4.3 Write Card

```
1. User&Log
2. Init Card
3. Write Card
4. BF20/485 Reader
```

3

```
Input  Card  IP
```

After Input ID
Press #

```
Input  Card  IP
********
Place  TM  Card
```

```
Write  Success
Write  Other  Card
YES(#)/NO(*)
```

#

☞ **Operation description：**

| 0 | ～ | 9 | **Press 3**

| 0 | ～ | 9 |

**After Input ID
Press #**

☞ **Function key description：**

| F1 | **：Enter Administrator Mode/Page Up**

| F3 | **：Delete (Backspace)**

| # | **：Confirm**

| * | **：Cancel**

| 0 | ～ | 9 | **：Number key**

- 22 -
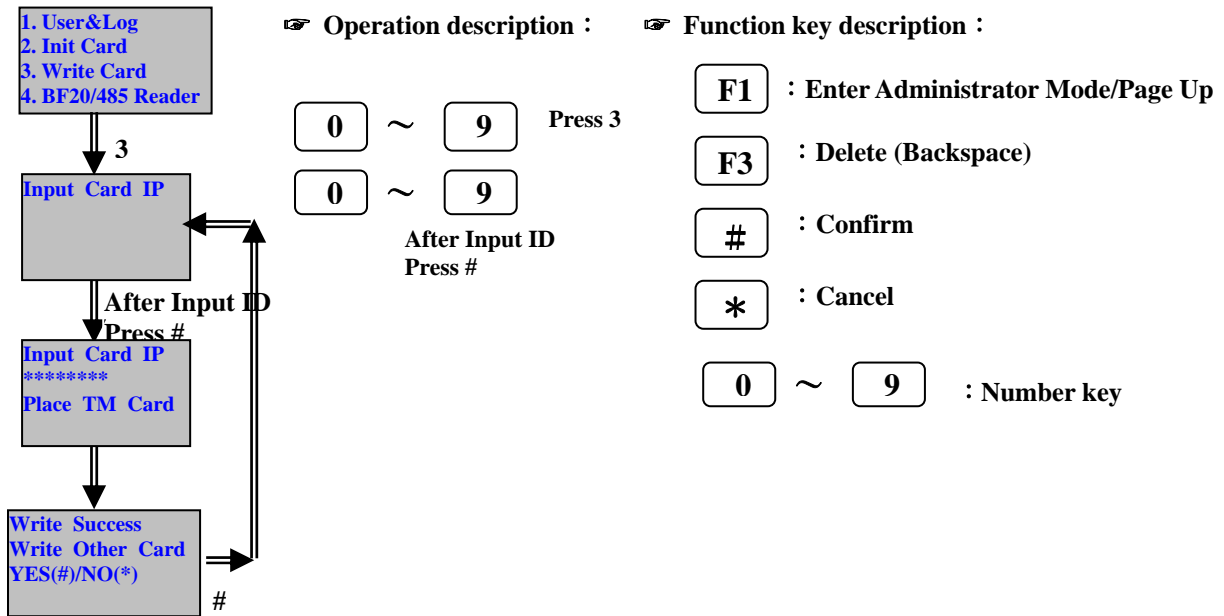
6 Specifications

6.1 Module Features
- Main board
- Keyboard and LCD Module
- Finger sensor module
- Build-In Card Reader

6.2 Power Supply
6.2.1 Voltage
- +9V to +30V DC

6.2.2 Current
- Current power consumption: 300Ma, 12V
- Maximum power consumption: 500Ma, 12V

6.3 Environment
6.3.1 Temperature and humidity
- Operating temperature: 0 to 55
- Storage temperature: -20 to 85
- Operating humidity: 0% to 95%
- Storage humidity: 0% to 95%

6.3.2 Immunity to electro static discharge
- Serial port 15kv ESD
- Ethernet port 1.5kv

6.4 Communication
- 1 RJ-45 port(10/100M)
- 1 RS-232 port
- 1 RS-485 port
- Meet RS232C、RS485 specifications

6.5 Drivers
- 1Relay Out (COM, NO, NC)

6.6 Capacity
- 950 persons with 2 fingerprints/1 card/1 password per person.

6.7 Log entry memory
- 32,700 log entries total.

6.8 Size(yet to be set)
➢ WARP3 SERIES: 130 mm(H) X 143 mm(W) X 48 mm(D)

6.9 Weight
➢ 470g

6.10 Authentication time
➢ Average : shorter than 2 second.

6.11 False Rejection Rate (FAR)
➢ Configurable from 0.1% - 0.000001%

6.12 Equal Error Rate (EER)
➢ Less than 0.1%

6.13 Fingerprint data size
➢ 352 Byte

6.14 Input
➢ 10 number keys + 6 function keys

6.15 Display
➢ 1 Buzzer
➢ 1 LCD: 128 X 64 pixels, 2LED

7 Appendix

7.1 Note

The first thing when you install Warp3 Series
➢ Please change the system password first. Warp3 Series's password is fixed at "111111" initially. It makes a security problem.

Please do these when you have the problem for verification.
➢ Cleaning your finger first, then do it again.
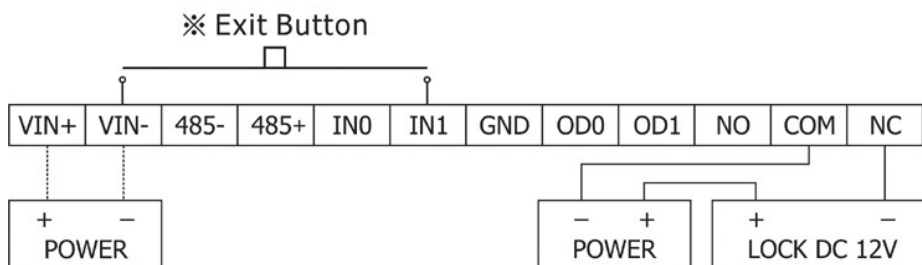➢ Don't move your finger when you put your finger on the Warp3G's sensor.
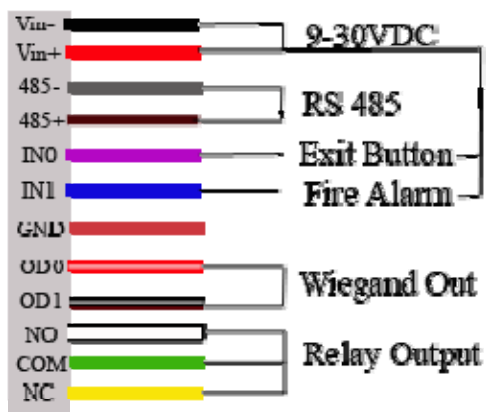
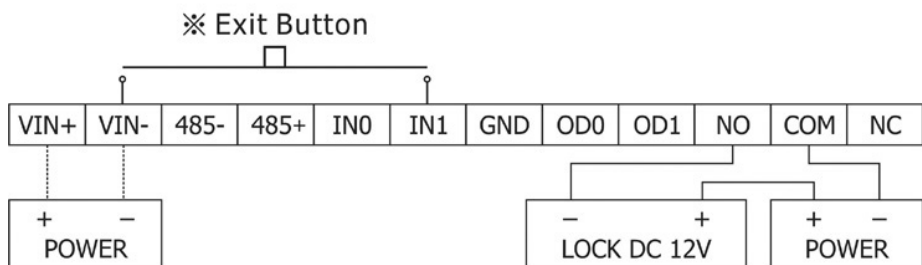**Please do these when Warp3 has out of function.**
➢ Power off and power on again, so initialize Warp3. After initializing Warp3, if it has same status still, please calls on our service center.

7.2 External connector

Lock open when lock is power off

※ Exit Button

VIN+	VIN-	485-	485+	IN0	IN1	GND	OD0	OD1	NO	COM	NC

+	−
POWER	

−	+
POWER	

+	−
LOCK DC 12V	

Lock open when lock is power on

※ Exit Button

VIN+	VIN-	485-	485+	IN0	IN1	GND	OD0	OD1	NO	COM	NC

+	−
POWER	

−	+
LOCK DC 12V	

+	−
POWER	

Vin-		
Vin+		9-30VDC
485-		RS 485
485+		
IN0		Exit Button
IN1		Fire Alarm
GND		
OD0		Wiegand Out
OD1		
NO		Relay Output
COM		
NC		

■ The list below is to keep user's safety and prevent any loss. Please read carefully before use.

Do not drop or damage the device.

Do not press two buttons at the same time.

Do not disassemble, repair or alter the device.

Do not let children touch the device without supervision.

Do not use the device for any other purpose than specified.

Contact your nearest dealer in case of a trouble or problem.