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Hardware Tutorial For the DC-Series Fingerprint Model

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Basic Part: See all the parts indicated by “Important”

Advanced Part: All the parts indicated with “default”

Our philosophy: We sell product, but the most valuable thing is our service to you.

Date	Author	Version	Status	Description
18/09/2010	Pablo(seller)	0.1	Draft	Initial Draft
01/10/2010	Pablo(seller)	1.0	Release 1.0	Updated based on customer's feedback



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1. INTRODUCTION

1.1. SUPPLIED PART LIST

- ✓ Fingerprint Terminal 1pcs
- ✓ 9V/1A Power Supply 1pcs
- ✓ USB Cable 1pcs
- ✓ Hardware User's Manual (Soft copy, if can't find, send email to seller)
- ✓ Software (Soft copy, if can't find, send email to seller)

1.2. About this fingerprint

The is a flexible and reliable design to meet the market requirement for a robust and secure biometric Time & Attendance solution at a reasonable cost. Allows you to register up to 3,000 fingerprints and store up to 80,000 records.

1.3. Acronym

Slog: System Log, All administrators' operation is record as system log.

Glog: General Log, it means the time in/out record or attendance record, it's the original data which for attendance check.

2. HOW TO POWER ON

- ✓ power supply to connect
- ✓ turn on the power switch at the bottom
- ✓ press the key at the bottom left corner

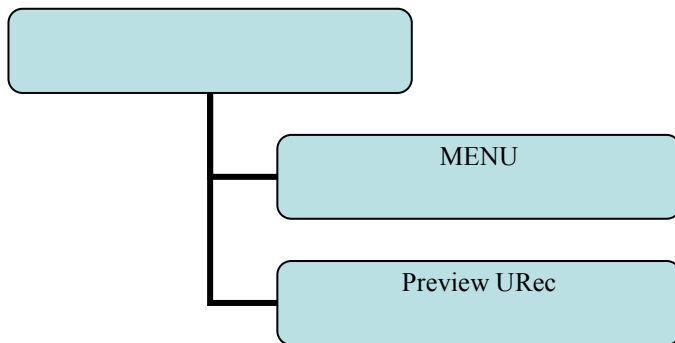
1	2	3	ESC
4	5	6	MENU
7	8	9	▲
⊙	0	OK	▼

3. MENU GO-THRU

Click "Menu" on the key area, there is below sub menus:



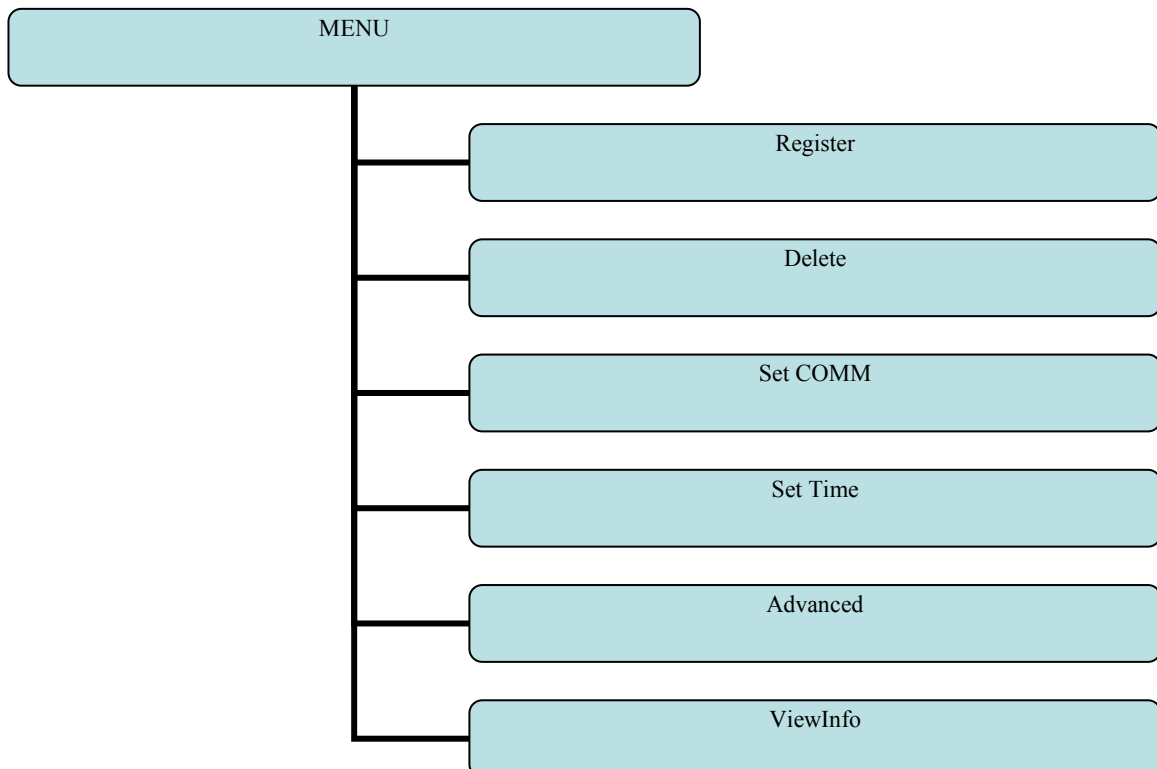
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Click “UP” or “Down” arrow to select sub-menu, then clock “OK”

1	2	3	ESC
4	5	6	MENU
7	8	9	▲
⊙	0	OK	▼

The main Menu has below hierarchy:



The device picture is like below:



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3.1. Menu: "Register" to enroll user

Enrollment is the process of creating an ID, assigning a password (optional) and scanning a user's fingers to create the fingerprint templates. All these associated information are stored in the device.

During user verification, the stored fingerprint templates are compared to the current scanned fingerprint to confirm the user's identity.

Enrollment takes approximately 2 seconds for each user. Up to 3 fingers can be enrolled for the same ID number. Ideally, at least one finger on each hand should be enrolled in case of injuries.



MENU

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Register

User

Admin

Ver Mode

U-upload

3.1.1. Register User

Here, you can register common user fingerprint/password or ID card(if machine support ID card reading), you can enroll new user or enroll back-up finger for existing user.

- ✓ Click "New Reg."

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- “Finger”, (**the recommend way, easy and fast**)

To enroll the user finger here, need to punch the finger for 3 times for a successful register process. After done, click key “OK” to continue for another new user or “ESC” to quit to up-level menu.

- “Password”

To enroll a new user with password, when verify, firstly input the user ID, then input the password to verify.

- “ID Card”

“Optional” function, enroll a new user with RF ID card.

- “FP&Pass”

It’s combination mode to verify user, enroll both fingerprint and password for the same user.(Not recommend to use, take much more time to verify)

- “FP&Card”

It’s combination mode to verify user, enroll both fingerprint and ID card for the same user.(Not recommend to use, take much more time to verify)

The picture is like:



✓ Click “Backup”

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Here, you can register backup(2nd) finger for the same user, that means user can use the primary finger to verify, if the primary finger fails, can use the backup finger to verify.

The basic operation is similar with the one to enroll new one as above.

3.1.2. Register Admin

Admin(Administrator) user is a manager, Admin has the top access right to the device.

- ✓ The whole process is like to enroll a common user.
- ✓ Once an admin user enrolled, all other common user can't access the device menu.
- ✓ If an admin use want to access the device menu, he(she) should firstly verify himself(herself) by punching finger(or password), only after verification passed, the device menu can display.

3.1.3. Ver Mode

Here to set the match mode, strongly **recommend that keep the default setting** here.

- ✓ "1:1 Verf"

Verify the fingerprint pressed on the sensor at present with the fingerprint related with user number. Use this method when it is difficult to identify user's fingerprint.

- ✓ Init. 1:1

- ✓ 1:N Identify

Verify the fingerprint pressed on the sensor at present with all fingerprint data in the fingerprint reader. It's more accurate but the speed is a little slower.

3.1.4. U-upload

If you have multiple devices, you don't need enroll each user on each device, can download the device A's template(user enrollment information) to U-disk, then upload with this menu to device B.

3.2. Menu: "Delete" to delete user

The "Delete Menu" shows up after select "Delete". When you confirm that the user ID to be delete, Press "OK" to confirm the deletion.

Delete	
ID	00001
ESC	ENTER



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3.3. Menu: "Set COMM"

Here user can download time in/out records to usb or set the RS232/RS485/TCP/IP communication paramers.

The picture is like:



3.3.1. U-down(Very Important)

With this, user can download records to USB stick.

3.3.2. RS232

Set the Baud Rate to match the computer connection with RS232 interface(Seldom use)

Setting	Description
9600	set the communication speed to 9,600 bps (Bit Per Second)
19200	set the communication speed to 19,200 bps
38400	set the communication speed to 38,400 bps
Factory Default	38400



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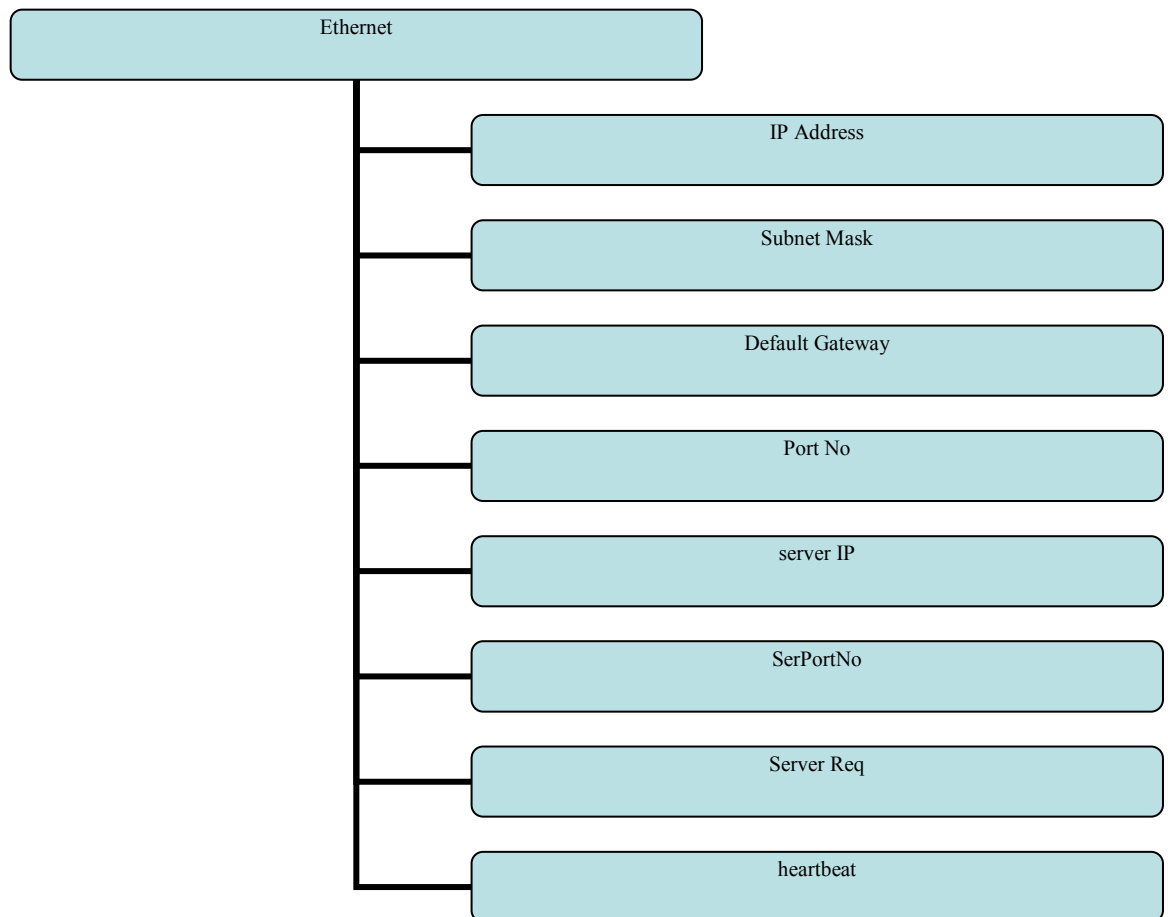
<http://myworld.ebay.com/touchdream2010>

RS232 Set
Baudrate Set
38400
ESC Enter-Save

Ensure in the software

3.3.3. Ethernet(Optional)

If TCPIP function configured, here to set the IP address/Subnet Mask/gateway .etc. to setup the TCPIP connection with computer.



✓ “IP Address” (**Important**)

Set the IP address, ensure that the IP address is within the same net range with your connected computer.

✓ Subnet Mask(**Important**)

Set the same subnet mask of your computer.

✓ Default Gateway(**Important**)

Set the same gateway address of your computer

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✓ Port No(**Important**)

Keep the default value normally, ensure the software configuration use the same port no.

✓ Server IP(**Keep default**)

✓ SerPortNo(**Keep default**)

✓ Server Req(**Keep default**)

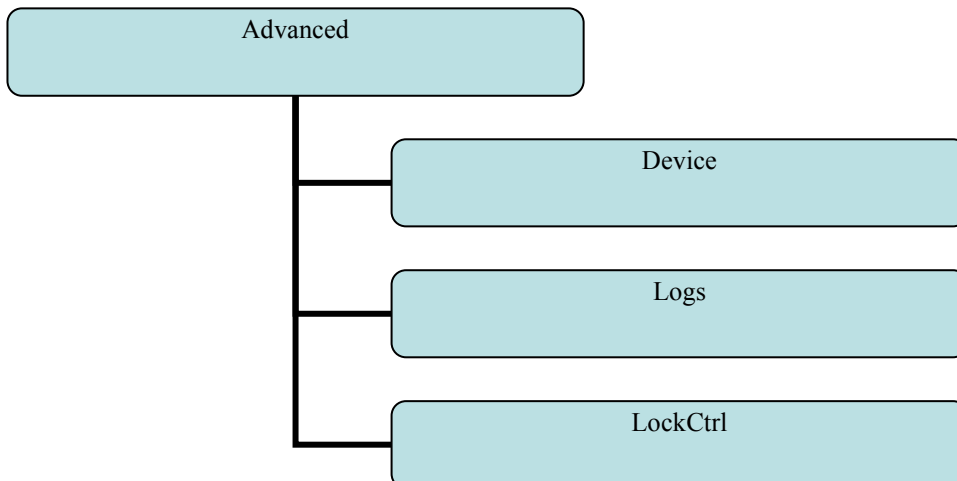
✓ Heartbeat(**Keep default**)

3.4. Menu: "Set Time"

Here to set the your correct local time to this device, click key"UP" or "Down" to increase or decrease number, click "OK" to go to next field.

3.5. Menu "Advanced"

Here to do some advance settings.



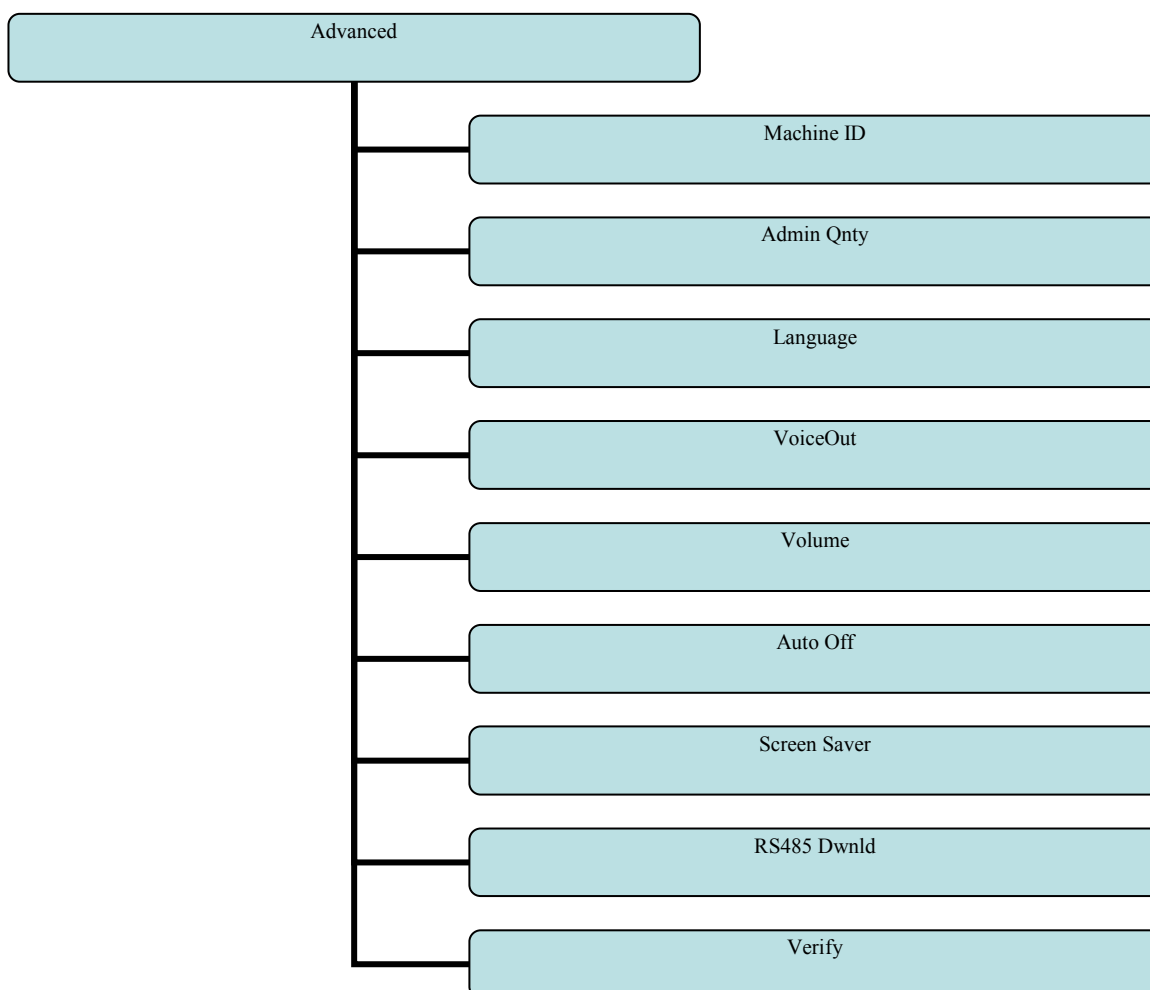
3.5.1. Device

Here, you can set language .etc. of your device. The picture is like:



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✓ Set “Machine ID” (**Important**)

Setting	Description
1 -255	set an unique address ID to the device, especially within network with multiple machines
Factory Default	1

If you use the software to connect the device, the machine ID must be the same between software and the device setting here.

✓ Set “Admin Qnty” (**Keep default**)

To set the number of administrators:

Setting	Description
1 -10	set total number of administrators in
Factory Default	5

✓ Set “Language” (**Important**)

Set different language for information display, there are English/Italian/Deutsch/Portugal/Russian/French/Korea/Spanish/Chinese languages by default for your choice, also we can provide your customized language, Please tell us in advance for your order requirement.

Setting	Description
English	set all display information in English
...	...
Factory Default	English or your preferred

✓ VoiceOut (**Keep default**)

✓ Volume(**Keep default**)

✓ Auto Off(**Keep default**)

✓ Screen Saver(**Keep default**)

✓ RS485 Dwnld(**Keep default**)

Yes or no to enable/disable RS485 download, Refer to Appendix-1 for the RS485 connection details.

✓ Verify(**Keep default**)

Here can set different verification mode.

- F/P/C: Fingerprint OR Password OR Card(the default)
- C: by ID Card

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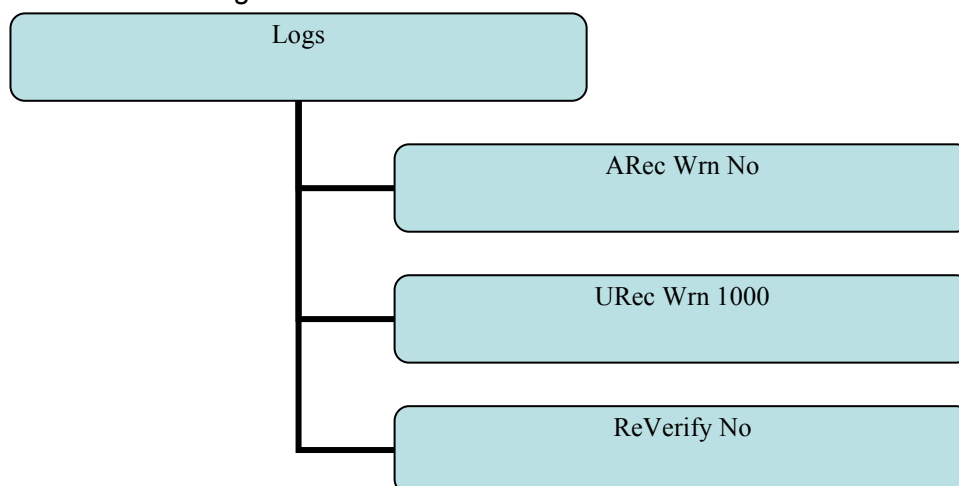


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- F+C: Fingerprint and Card
- F+P: Fingerprint and Password.

3.5.2. Logs



✓ Set “ARec Wrn No” (**Keep default**)

Administrative event full warning. The machine will give a “FULL” warning signal when the administrative event buffer is below the set thresh

Setting	Description
NO	There's no warning if there's no administrative event buffer left, and no further administrative events will be logged.
1 - 255	
Factory Default	No

✓ Set “URec Wrn” (**Keep default**)

Attendance Event Full Warning. The machine will give a “FULL” warning signal when the attendance event buffer is below the set threshold.

Setting	Description
NO	There's no warning if there's no attendance event buffer left, and no further attendance events will be logged.
1 - 1500	
Factory Default	1000

✓ Set “ReVerify No” (**Keep default**)

To set the duration of 2 successful attendances which from the same fingerprint. All duplicate attendance record doesn't be recorded.

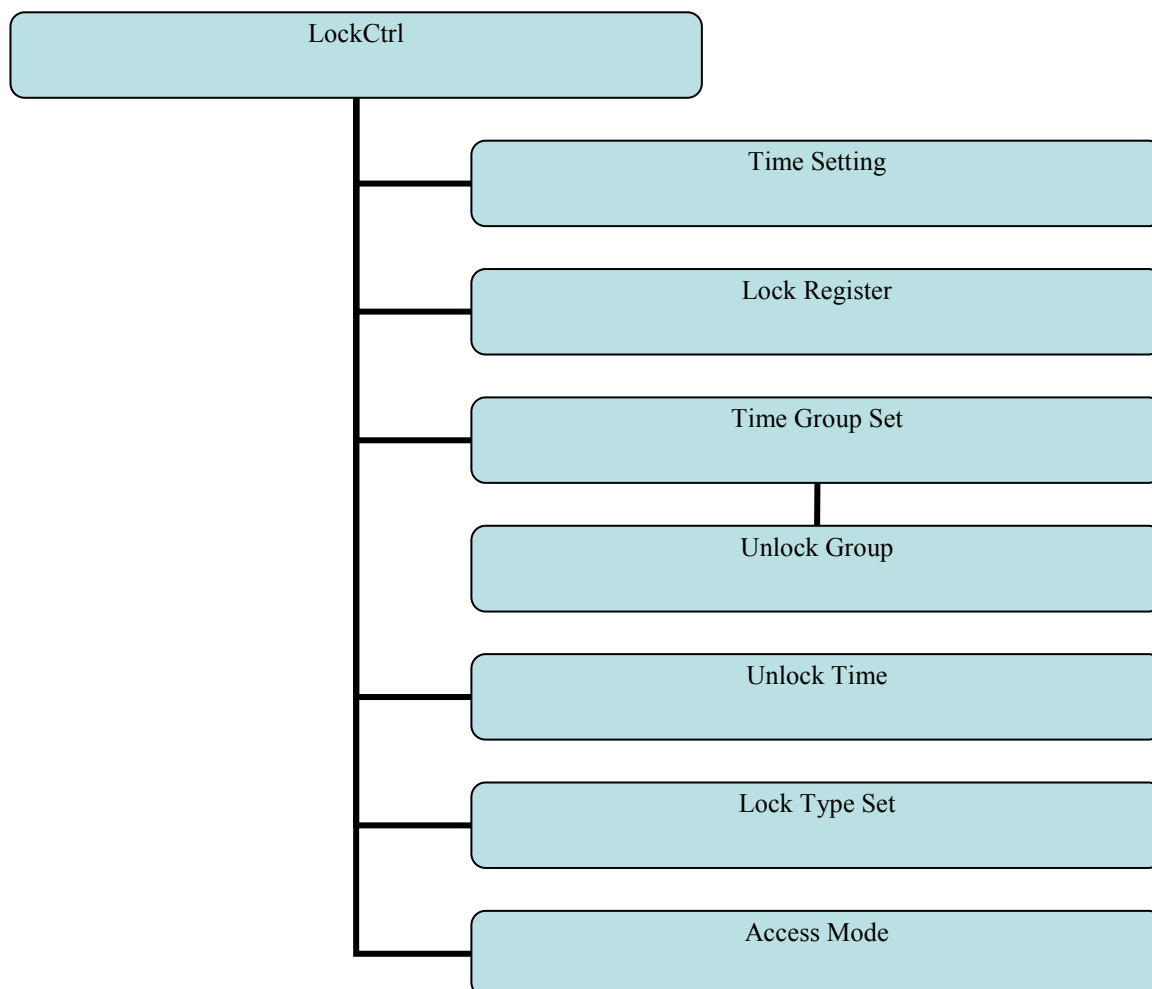


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3.5.3. LockCtrl

This model has basic door access control function. Normally, many user don't use this function, please ignore this part. If you really need this function, Please send email to us for the detailed setting guide.



For the connection to door, please refer to Appendix-2.

3.6. Menu "ViewInfo"

3.6.1. Reg.Data

View the enrollment summary info here.

✓ User Reg

Display the number of common user enrolled.

✓ Manager Reg

Display the number of manager user enrolled.

✓ Finger

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✓ Password

✓ ID card

3.6.2. Records

✓ User Rec

Display the number of common attendance records

✓ Admin Rec

Display the number of manager attendance records

✓ View User Rec

Display the User records details, need to input the user ID firstly.

✓ View Admin Rec

✓ Preview URec

✓ Delete All Rec(**Very important**)

To Clean up all the attendance records, Please ensure you have downloaded all the records before this operation. When the storage is full, need to do this operation.

3.6.3. Product

To view below information related with this device:

✓ Manufacturer

✓ Devie Name

✓ Release Time

✓ Serial Number

✓ Firmware Version

✓ Software Version

4. TROUBLE SHOOTING

4.1. Can't turn on the machine

Please refer to Chapter 2

4.2. Can't Setup the TCP/IP connection

Step1: ensure your device has tcpip module configured, this is optinal function, ask seller to confirm.

Step2: Refer to chapter 3.3.3 to do the configuration

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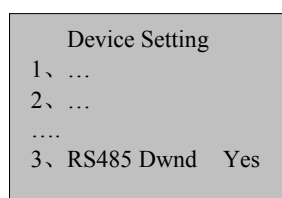
Step3: ensure the machine ID is same with software 's setting

Step4: use command "ping" to test the connection between computer and device.

5. APPENDIX

5.1. Appendix-1: About RS485 connection

Step1: Set "RS485 Download" to "Yes"



Setp2: Power off.

Step3: Connect RS485 cable to the RJ45 port on . (Note: please check bellow RJ45 Port Pin Assignment for details of the required RS485 cable)

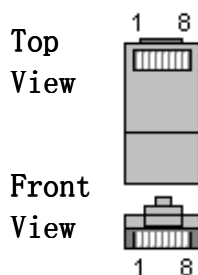
Step4: Connect the other end of RS485 cable to a RS232/RS485 Converter

Step5: Connect the other end of RS232/RS485 to computer COM-PORT.

Step6: Power on.

RJ45 Port Pin Assignment

Pin	Function
1	TCP---TX+
2	TCP---TX-
3	TCP---RX+ / RS485A
4	RS485B
5	GND
6	TCP---RX
7	RS232---R
8	RS232---T





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5.2. Appendix-1: Connection between fingerprint and door for control

