



DM-50X Lock System

User Guide

V1.2 2024.10

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Parameters

Content	Spec
Power	DC7.4V
Low power alarm	<6.9V
emergency supply	5V (Micro USB)
quiescent current	<70uA (Add 40uA with Radar detection)
Work current	normal <100mA
	Face recognition: <500mA
	Motor running: <2A
Network	2.4G WIFI
Motor	8VDC
Keypad	capsense touchkey
Backlight	white
Front display	0.96 OLED
Front speaker	8R1W, ϕ 20mm
Back speaker	8R1W, ϕ 20mm
User capacity	250 (Face + Palm + Fingerprint + Password + Card)
Face&Palm capacity	50
Fingerprint capacity	100
Card type	Mifare/NFC
Card reading distance	0-40mm
Human body detection	Radar, distance 0.8m-2.0m
Face recognition type	3D
Operation temperature	-20℃~60℃
Operation humidity	10%~90%
Storage temperature	-30℃~70℃
ESD	Contact discharge $\pm 8kV$, Air discharge $\pm 15kV$

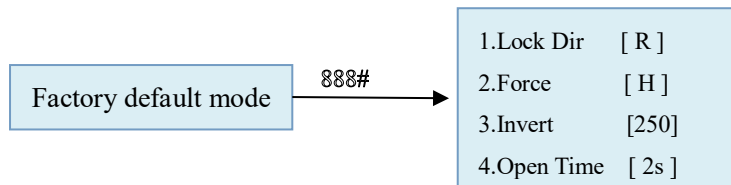
Product Function and Operation

1. Factory default mode

- Any fingerprints/Password/Card can open the lock.;
- Press the lock and unlock buttons simultaneously for 3 seconds, the system will be set to factory default mode.

2. install menu

In factory default mode, Press touch keypad 888#, system will enter install menu.



Please press the corresponding number keys to set the functions:

Lock direction: Left/Right

Force: High/Mid/Low

Invert time: 150ms-450ms

Open Time: 2s-8s.

3. Language setting (In factory default mode)

7100#	Chinese
7101#	English
7102#	Arabic
7103#	Russian
7104#	Portuguese
7105#	Thai
7106#	Spanish
7107#	Vietnamese
7108#	Indonesian

4. System menu

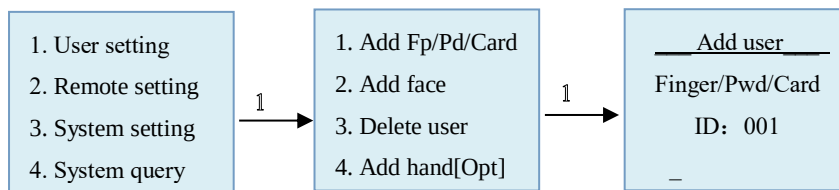
Press touch keypad * + #, input administration information to enter system menu. (No need to input administration information in factory default mode);

System menu

1. User setting	1. Add Fp/Pd/Card	
	2. Add face	
	3. Delete user	
	4. Add hand[Opt]	<i>Optional function</i>
2. Remote setting	1. Network	
	2. Temporary Pwd	
	3. RKE setting	
3. System setting	1. Datetime	
	2. Unlock setting	1. Verify
		2. AutoLock
		3. AntiPry
		4. BodyInd
	3. Volume	1. Low volume
		2. High volume
	4. Restore	
4. System query		

5. User setting

◆ Add fingerprint, password, card

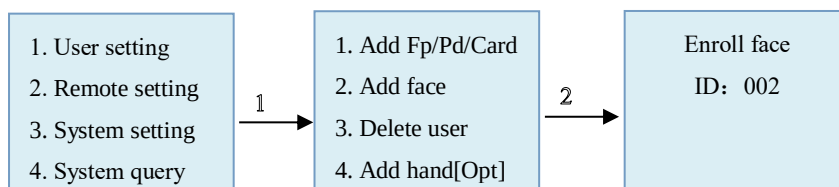


The ID to add is from 001. The first 3 users with ID form 001 to 003 is administrator. You can press # to switch to normal user ID if the first administrator is be added.

Voice broadcast: “Add administrator”(ID 001-003) or “Add normal user”(ID 004-250)

You can input fingerprint, password or card. You need input 6 times for fingerprint. The password length is 6-12.

◆ Add face

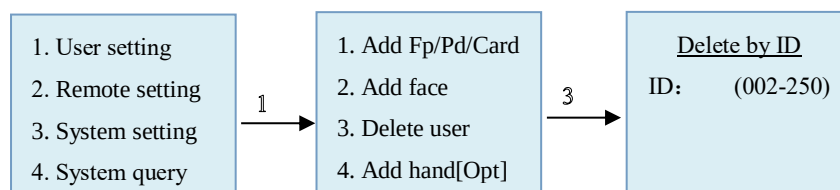


The ID to add is from 001. The first 3 users with ID form 001 to 003 is administrator. You can press # to switch to normal user ID if the first administrator is be added.

Voice broadcast: “Add administrator” (ID 001-003) or “Add normal user” (ID 004-250)
 “Please face the camera” , You need to capture face with five directions.

- 1) Face the camera first, voice broadcast: “Face up” when capture successfully.
- 2) Turn your head slightly upwards, voice broadcast: “Face down” when capture successfully.
- 3) Turn your head slightly downwards, voice broadcast: “Face left” when capture successfully.
- 4) Turn your head slightly to the left, voice broadcast: “Face right” when capture successfully.
- 5) Turn your head slightly to the right, voice broadcast: “Succeed” when capture successfully.

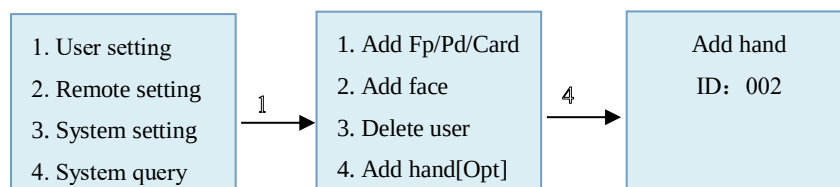
◆ Delete user



Voice broadcast: “Please input user ID”

Please input the user ID to delete, press # to confirm. If you need to delete the user with ID 001, you must reset factory default mode to do it.

◆ Add user – Palm (Optional function)



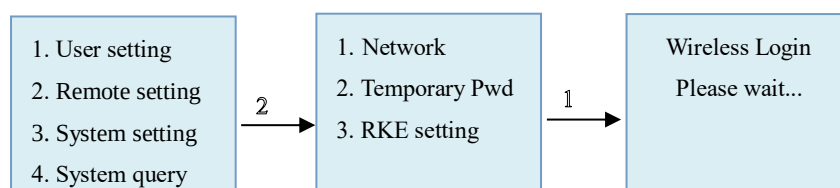
The ID to add is from 001. The first 3 users with ID form 001 to 003 is administrator. You can press # to switch to normal user ID if the first administrator is be added.

Voice broadcast: “Add administrator” (ID 001-003) or “Add normal user” (ID 004-250)

Aim your palm at the camera at a distance of about 10-30cm, and after successful capture, the voice will announce " Succeed "

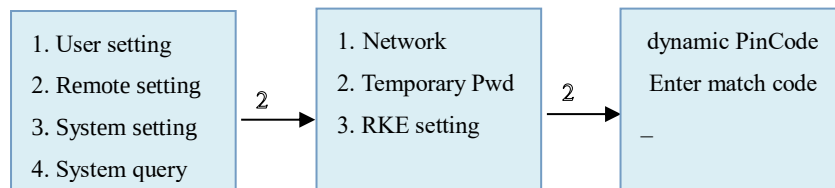
6. Remote setting

◆ Network setting



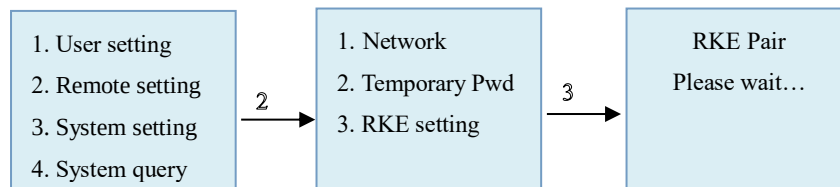
Please to do WIFI configuration in APP

◆ **Temporary password (WeChat Mini Program)**



Please input the 10 digit match code from WeChat Mini Program to finish the pairing operation.

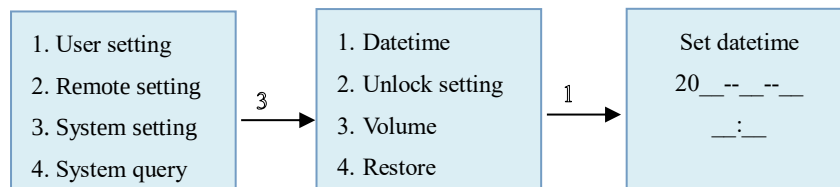
◆ **RKE setting (Optional function)**



Then press any key of remote control.

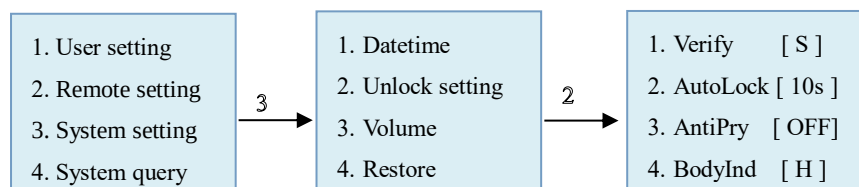
7. System setting

◆ **Set data and time**



Please input the current date and time

◆ **Unlock setting**



Please press the corresponding number keys to set the functions:

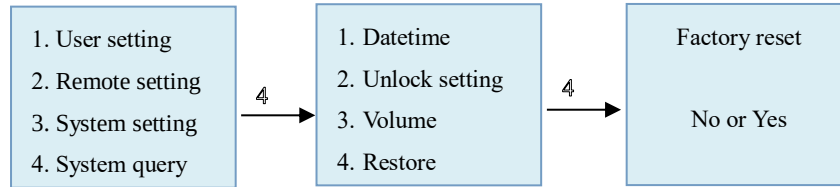
Verify: In double mode, the administration can unlock directly. For users, you must enter two user information to unlock.

AutoLock: OFF/20s/40s/60s

AntiPry: Anti-prying alarm, ON/OFF.

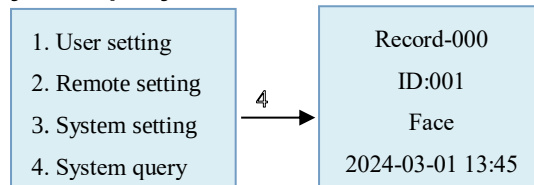
BodyInd: Human body detection wake-up function.

◆ *Restore default*



Please press # to confirm the operation , or press * to cancel the operation.

8. System query



The door opening record is displayed starting from the latest record. Press 1 to view the previous item, and press 2 to view the next item.

9. Unlock and lock

- Unlock outside the door: Enter the authorized administrator and user to unlock. After the unlock is completed, voice broadcast "unlocked";
- Unlock inside the door: Press the "unlock button" on the lock inside the door to unlock, After the unlock is completed, voice broadcast "unlocked";
- Lock outside the door: Press “lock key” of the touch keyboard to lock. After the locking is completed, voice broadcast "locked";
- Unlock inside the door: Press the "lock button" on the lock inside the door to lock, After the locking is completed, voice broadcast "locked";
- Auto close: When the automatic locking function is activated, after executing the unlocking action, the door lock will automatically execute the locking action after a set time delay. After the locking is completed, voice broadcast "locked";.

10. Human body detect

- The effective distance for human body detection can be set from 0.8 meters to 1.5 meters. When a person approaches the effective recognition distance, the door lock wakes up and begins face recognition.
- When the door lock is installed in an area where people often pass by, it is recommended to turn off the human body detection function to prevent the door lock from being frequently awakened by unrelated personnel, resulting in excessive power consumption.

11. Low voltage prompt and external power supply

- When the voltage of the door lock battery is below 6.9V, the system will prompt "Please replace the battery" every time it wakes up. Please charge or replace the battery as soon as possible.
- When the door lock battery runs out and cannot be unlocked, emergency unlocking and charging can be carried out outside the door using a 5V USB power supply.
- Due to limited USB output current, if there is insufficient force and it cannot be successfully opened, emergency charging can be performed for a period of time before attempting to unlock.
- The external power interface is only used for emergency unlocking and emergency charging, please do not charge for a long time.
- After emergency unlocking, please remove the battery and charge it with a dedicated 5V charger. After fully charging, continue using it.

12. WIFI Configuration

Please refer to the user guide of APP.

13. Trial and error alarm

Continuously inputting incorrect user information for more than 5 times, the system will lock for 90 seconds, and the system will not respond to any operation within 90 seconds.

14. Disguise password

For example, if you need to enter password 123456, you can enter 96581234562875 to add some disguise codes before and after the password, and then press # to confirm. You can enter up to 24 digits max.