

Smart Card Lock System

1. Brief Introduction.

Our Smart Card Door Lock, user smart cards as its Keys and is controlled by a microcomputer inside it. It is reliable, easy to use and manage, which makes it a perfect choice for hotels government department s, office buildings etc. the whole smart card lock system consists of smart card lock ,intelligent lock,advanced hotel management software encoder.

2. Introduction of card



Produced by NXP (founded by Philips) , Mifare card is a very popular logic encryption card worldwide.

1. Frequency: 13.56MHz;
- 2.High-level security: data flow transmitted with encryption, mutual authorization system with three times of mutual authorization;
- 3.World's only 32-digit card No.;
4. The card has been divided into many sectors, each of which can apply multi-form password protection independently; thus, one card can serve multiple purposes.

3. Smart card lock



PCB character

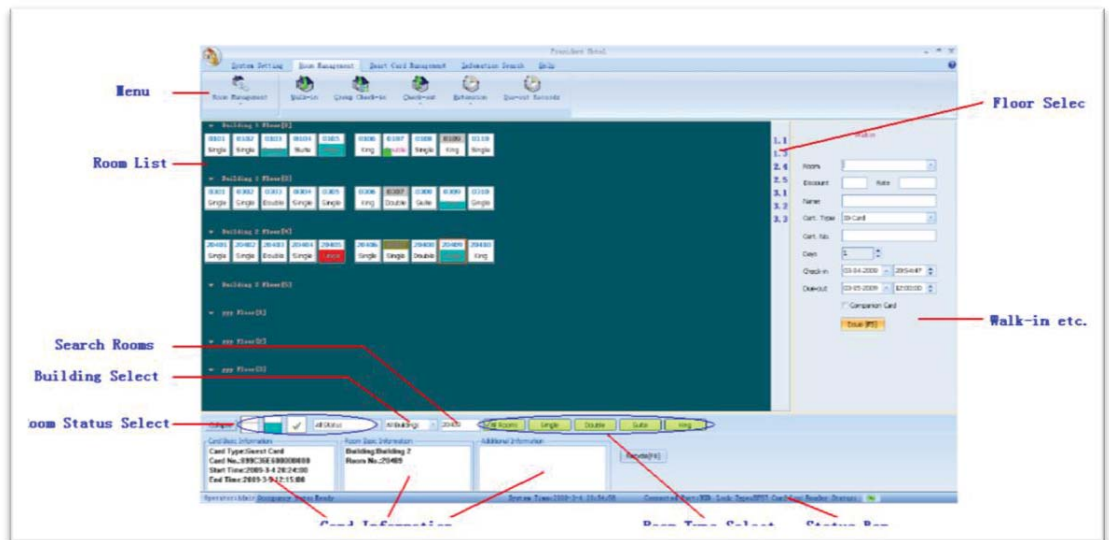
1. Inspection type: Microwave
2. Feature: Contact-less, high-level security, serving multiple purposes, high-cost
3. Power: DC4.5V ~ 6.5V , 3 ~ 4 1.5V AA alkaline batteries
4. Typical supply current: <math><18 \mu\text{A}</math>
5. Actuating current: <math><145\text{mA}</math>
6. Low battery alarm
7. Typical operating distance: 10mm ~ 50mm
8. Unlocking record:1000.

Mechanical parts character

1. Mechanical parts mean lock panel ,lock handle ,lock mortise and so on
2. Stainless steel lock panel and handle
3. American ANS standard mortise
4. Japan motor more than 30,000 lifetime
5. Patent detached two-gear clutch device to guarantee the durability of mortise
6. Hide cylinder cover to protect damage in force

4. Advanced lock management software.

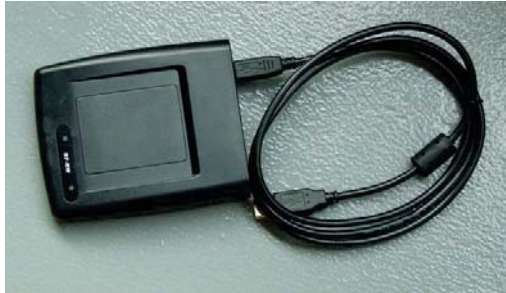
The management software is user-friendly, and layout of the window ensures the room management and issuing cards are performed in an efficient way. The main window is as follows:



- Menu: the operation orders;
- Room list: list all the rooms that match the room type and room status, which can be used when checking and issuing cards.
- Room status select: Click them and rooms of matched types will be shown.
- Status bar: show the present status of the system.
- Building select: If there are more than one buildings, this can be used to quickly show rooms in a specified building or in all buildings;
- Floor select: If there are more than one floors, this can be used to quickly show rooms on a specified floor.
- Real-time card information: the software inspects the reader/writer continuously, and whenever there is a card, the card's information is shown here.

5. Encoder

Encoder is the machine write and read information from cards. All room information, time information in software can be written in cards by encoder, also the card information can be read on software by encoder.



system requirement:

- 1.586 PC or notebook;
- 2.USB connecting
3. Microsoft Windows XP
- 4.200MHz CPU frequency 32MB of RAM
- 5.100MB of available hard disk space
- 6.Screen resolution: 800*600 pixels

6.Handsim(Not necessary for hotel lock system)

HandSim LCD handset is a management tool for intelligent lock in hotel. That is our important product. It can help you raise up your level on management work in hotel.



- Express installation. To Install lock information is so easy.
- Support RF57 or RF50 card;
- Particular and professional diagnose function. It is so easy to check mater;
- Adjust timer expediently and in real-time;
- Easy to read open lock record;
- Easy to check out, let your management system to be perfect;
- Use advanced microwave communication technology. It realize swapping data on lock and handset friendly;
- User Interface is easy to operate , Abundant functions, easy to operate, Let you raise working efficiency;

Management system support muti device issue card;

HandSim handset is intelligent a product that is developed by us who are base on designing hotel lock in a few years, in order to raise working efficiency in hotel. HandSim handset is adopted 32 bit and low watt loss microprocessor(MCU), both can compete works quickly and raises system stability. Main function included: Diagnose System of Doctor, Adjust lock's timer, Express Installation for Rooms, Query Open Lock Record, Check out...

Express Installation for Rooms: We need make a Installation Card for every lock when we set room information at before. If hotel have hundreds of locks, worker would need to repeat that work hundreds of times. That is hard work and fallibility. HandSim handset can store all rooms' information at a time by Hotel Management Software. You let it brush on the lock breezily, and you finished a lock's installation work.

Synchronization Timing : At before, customer usually adjust time not correct because of the Timer Card's timer is not Real-time. And now, you can use handset adjust time Real-time.

Query Open Lock Record: After that, customer have no use for infrared handset that is single function. And now, please use perfect and high cost performance HandSim handset to read open lock data.

Detrusion of handset not only let customer easy to install locks, but also let providers' maintenance are easy to do. Decrease hotel's cost for maintenance.

Work voltage	7.5~9.5V 9V Battery
Static current	<10uA
Work current	<100mA
Support lock type	T5557 card lock, M1 card lock
Size	177.6(long)mm x 85(wide)mm x 30(high)mm
Environment	Work temperature: 0 70°C Store temperature: -25 125°C Humidity: 5% 95%

7. Hotel card key energy saver (Note necessary for hotel lock system).



Parameter for energy saver

1. Specification:86*86*35(mm)
2. Match card type: All card type
3. Loading currency: Most 30A
4. Voltage application: 110-220V
5. Material: Burning resistant PC material
6. Delay power off time:8-10 Seconds
7. Weight:0.25KG
8. Standard:GB16915.1-2003、 GB1691.
9. Frequency:50/60 Hz
10. Work temperature:-10°C--60°C
11. Work humidity:50°C 10-95%RH