

ADEL[®]
Professional • Powerful • Reliable



Hotel Lock Solution
Office Lock Solution
Residential Fingerprint Lock



7000



5500



1800



S150



30MF-5

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20 years history 20 years persistence

For the past 20 years, we have been devoted in electronic door locks, including locks for Hotel locking system, locks for office system, and fingerprint door lock for residential use. Innovation is the key for ADEL to achieve over 200 patents, millions of dollars has invested into fingerprint technology, and we are now the only company own the fingerprint sensor, fingerprint processor, fingerprint algorithm.



About ADEL

ADEL Brand



Advanced Digital Electronic Lock, short for ADEL, is the global brand. ADEL not only represents high quality electronic lock, but also means Idea, Ideal. We are developing more and more new ideas for the market and also providing the best quality for the end user.

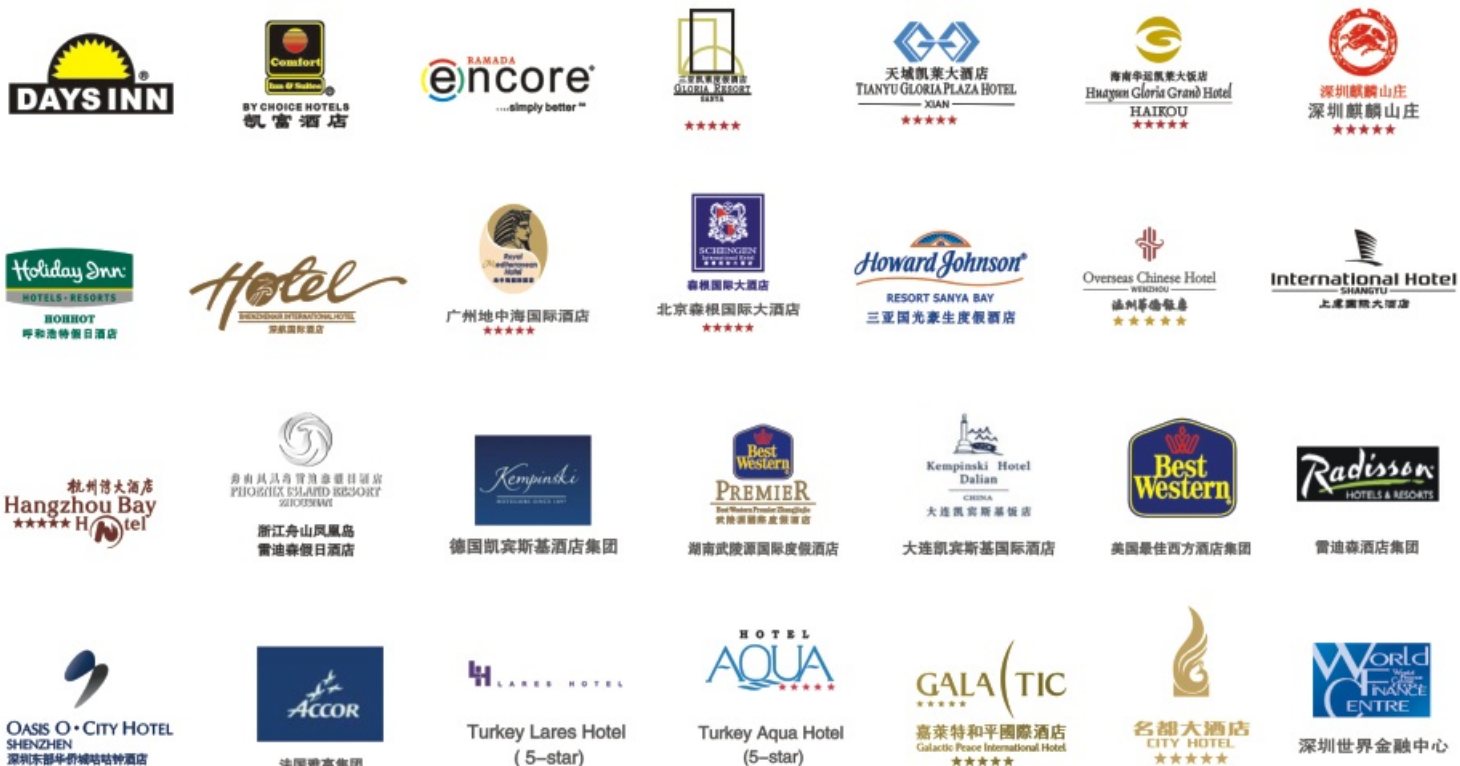
Brief Introduction

ADEL group is a leading electronic locks technology enterprise with 20 years experience in manufacturing of both electronic locks and fingerprint security devises. The variety of series covers 100 kinds of products.

As one of the pioneer in electronic locks technology, ADEL group is well reputed through continuous research and development on electronic locks and biometrics technologies since 1993. As with over 200 international invention patents and copyrights, as well as meeting the international standards such as UL, ANSI, CE, ISO and BS, we are now leading the industrial standard of electronic locks. Our technologies and standards are recognized by lots of Fortune global 500 companies like Texas instruments (TI), Philips, ATMEL etc, who become our strategic partners by the reason of admiring our technology and strength.

In 2008, ADEL Group invested in the corporate management system of Oracle and the IBM information system that setting up our IT platform to cope with the rapid development. We are greeting the upcoming business opportunities with our philosophy of rofessional, powerful and reliable.

Hotel users



Model:1800

Hotel Door Lock (Mifare Card)



Features:

- With professional ADEL hotel lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 38mm-70mm (Wooden door);



>>Hotel SYSTEM : A90 FH2.0 A95

Model:5500


Hotel Door Lock (Mifare Card)



Features:

- With professional ADEL hotel lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 30mm-70mm (Wooden door).

 Satin chrome

 Pvd Gold

 Polished Chrome

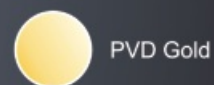
Model:9000

Hotel Door Lock (Mifare Card)



Features:

- With professional ADEL hotel lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 36mm-70mm (Wooden door);



PVD Gold



Satin Chrome

A90 Hotel system configuration: Mifare card



PC



Encoder



ADEL[®]
The Leading Brand in China

全球最大的指纹识别设备供应商
The leading and biggest fingerprint device supplier in the world



Mifare card



Mifare card lock



Energy switch



A90 System software



Access reader



Elevator controller

Fingerprint storage box



Dimensions: (W)420 x (D)370 x (H)200 mm

Hotel Fingerprint Safe Box

- Convenient to activate via fingerprint;
- Automatic operation throughout the process;
- 4 AA batteries needed, with socket for external 6V power supply;
- Specialized for hotel purpose.



"More convenient, much better".. After five years of research and development, ADEL has designed a new type of storage box for hotel guestrooms. It can collect, save fingerprints and lock itself automatically after you put your finger on the fingerprint window. Next time when you put your finger on it again, your existed fingerprint can open the safe door and then be deleted immediately at the same time.



Model:4910

Hotel Door Lock (Fingerprint+MF Card)



Features:

- With professional ADEL Hotel lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 120 fingerprints;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 38mm-71mm (Wooden door);



Model:5500

Hotel Door Lock (Fingerprint+MF Card)



Features:

- With professional ADEL Hotel lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 120 fingerprints;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 30mm-70mm (Wooden door).

-  Stainless Steel
-  PVD Gold
-  Polished Chrome

FH2.0 Hotel system configuration

Mifare card + fingerprint



PC



Fingerprint encoder



Energy switch



FH2.0 System Software



Access reader



Elevator controller



Mifare card



Fingerprint card lock

Mifare card lock

Fingerprint storage box



Dimensions: (W)420 x (D)370 x (H)200 mm

Hotel Fingerprint Safe Box

- Convenient to activate via fingerprint;
- Automatic operation throughout the process;
- 4 AA batteries needed, with socket for external 6V power supply;
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"More convenient, much better".. After five years of research and development, ADEL has designed a new type of storage box for hotel guestrooms. It can collect, save fingerprints and lock itself automatically after you put your finger on the fingerprint window. Next time when you put your finger on it again, your existed fingerprint can open the safe door and then be deleted immediately at the same time.




Model:1008


Hotel Door Lock (Magnetic card + Mifare Card)



Features:

- With professional ADEL hotel lock management system;
- Supports Magnetic card and Mifare card in the same system
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 38mm-71mm (Wooden door);

 Stainless Steel

 PVD Gold

>>Hotel SYSTEM : A90 FH2.0 A95

Model:5500

Hotel Door Lock (Magnetic Card + Mifare Card)



Features:

- With professional ADEL hotel lock management system;
- Supports Magnetic card and Mifare card in the same system
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 32mm-70mm (Wooden door);



-  Stainless Steel
-  PVD Gold
-  Polished Chrome

>>Hotel SYSTEM : A90 FH2.0 A95

Model:7000

Hotel Door Lock (Magnetic Card + Mifare Card)



Features:

- With professional ADEL hotel lock management system;
- Supports Magnetic card and Mifare card in the same system
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 32mm-70mm (Wooden door);



PVD Gold



Satin Chrome

A95 Hotel system configuration

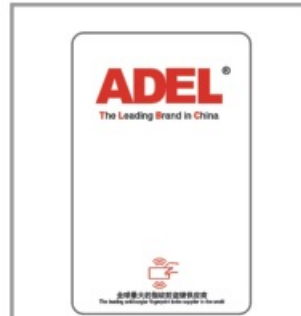
Mifare card + Magnetic card



PC



Encoder



Mifare card



Mifare card lock



A95 System Software



Automatic magnetic Encoder



Magnetic card



Energy switch



Manual magnetic Encoder



Access reader



Elevator controller

Fingerprint storage box



Dimensions: (W)420 x (D)370 x (H)200 mm

Hotel Fingerprint Safe Box

- Convenient to activate via fingerprint
- Automatic operation throughout the process
- 4 AA batteries needed, with socket for external 6V power supply .
- Specialized for hotel purpose



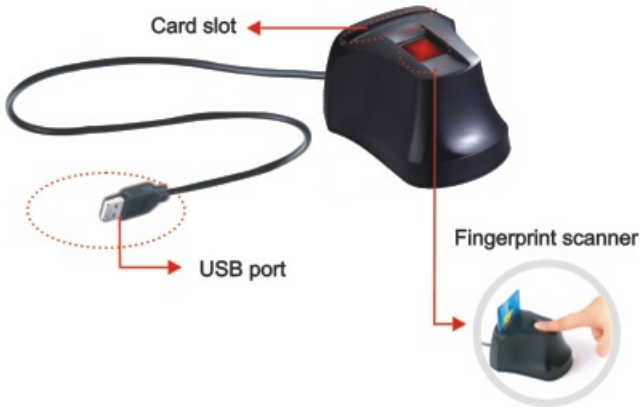
"More convenient, much better".. After five years of research and development, ADEL has designed a new type of storage box for hotel guestrooms. It can collect, save fingerprints and lock itself automatically after you put your finger on the fingerprint window. Next time when you put your finger on it again, your existed fingerprint can open the safe door and then be deleted immediately at the same time.



Encoder

RD-FCG3-2 Fingerprint card encoder

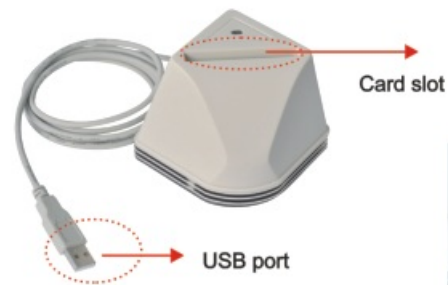
HID, Free of driver installation, in accordance with ISO14443A standard-for high quality



- User-friendly
- Fingerprint authentication device with USB port
- Equipped with fingerprint scanner , available to issue fingerprint card

ADEL-7MF Mifare(F) card encoder

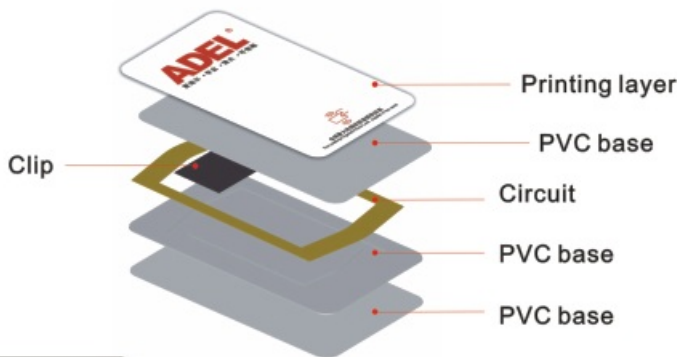
USB HID MF1 card encoder is specially designed for identity recognition. Easy to use by USB port, in accordance with ISO14443A Standard



- Plug and Play
- Easy to use by USB post
- In accordance with ISO14443A Standard

Mifare Card

The Mifare (F) hotel access card is made by PVC with circuit and clip, pattern tailor made service is provide for bulk purchase order.



Structure of Mifare(F) hotel access card



Operation of the Mifare(F) hotel access card
ADEL Mifare(F) Card

Size:
Length: 85.47-85.72mm
Width: 53.20-54.03mm
Thickness: 0.81 ± 0.03mm

Energy saving switch



Model:30MF-5 Energy Saving Switch for Hotel

—Save Energy Save the earth

Energy saving switch (it is also called power switch) is specially designed for hotel guestroom with the purpose of energy saving. When guests enter a hotel guestroom and insert a keycard into the energy switch, the main power supply can be put through. The lighting system, TV set and sockets in the room will then be activated. And when the guest leaves the room, the power supply will be cut off automatically 5-10 seconds after the guests remove the keycard, that ensure the guests leave the room safely with sufficient lighting. It is normally installed on the wall of guestrooms for convenience.

Intelligence type——High power



Model: 30MF / 30MF (T)
Load power: 6600W
Operating Voltage: 110V/220V

Universal type



Model: 30DC
Load power: 6600W
Operating Voltage: 110V/220V

Networked type



Model: 30MF-NT
Operating Voltage: 110V/220V

Reader with Plastic shell Reader with Metal shell



Reader with plastic shell



Reader with metal shell



- Support up to 15 different gates
- The way of authorization depends on card and room types
- Set up by ADEL A90 lock management software
- Widely used in hotel public areas such as backdoors, swimming pool, car park etc.

ADEL Elevator Controller

ADEL elevator controller is specially designed for hotel elevator with purposes of enhancing safety and saving energy for the hotels. It is operated together with ADEL lock management software to attain the level management and authorization. Only authorized valid cards can access to designated floors, which prevent irrelevant personnel from entering the elevators, and hence protect the hotel safety and extend the service lifetime of elevators.

Multi-floor elevator controller



Cable

ADEL multi-floor elevator controller system consists of control board, switching power supply, reader, card and other accessories. According to the settings in the hotel management software, cards in this system have master card, foreman card, maid card, floor card, guest card with different floor permissions.

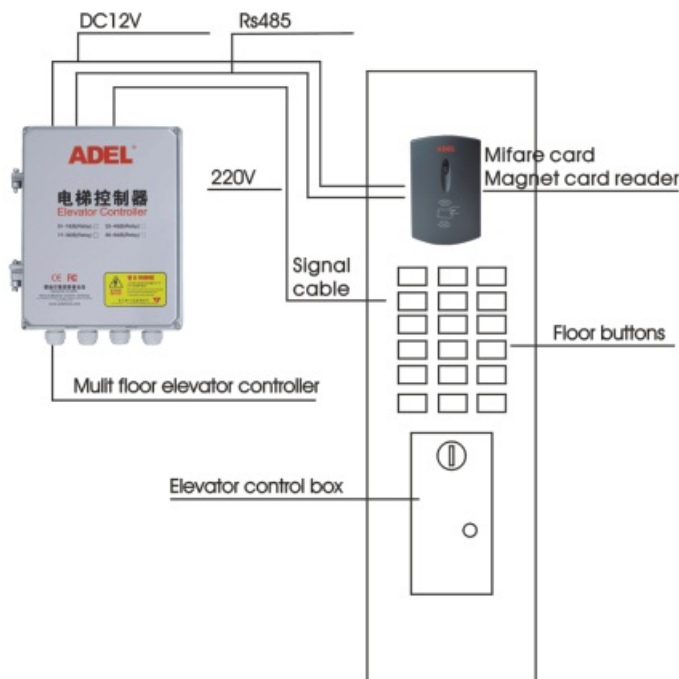
The elevator controller does not communicate with central controller of elevator itself, so there is no directly mutual control between them. Its function is to control the elevator floor buttons. Therefore, all the existing security features of the elevator itself are not affected.



Reader 1



Reader 2



Single-floor elevator controller

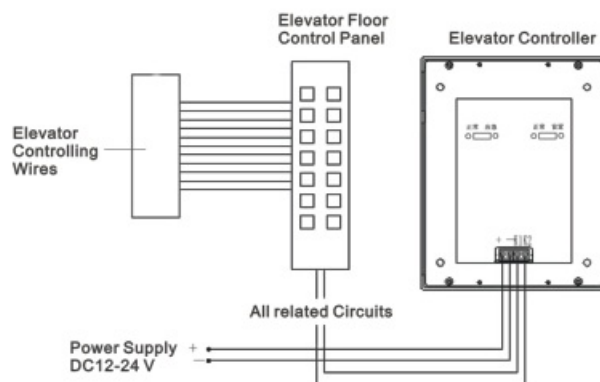


Mifare card only



Magnetic card only

ADEL single relay elevator controller is a single device, which can be managed by the ADEL Hotel system software, achieve a simple elevator control with security purpose.



Notes:
The controller output signal functions as a switch, the output terminal connects with circuit of elevators. When any valid card works, K1 and K2 are closed, the relevant control circuits are connected.

ADEL System Software

Function and Features

- Making use of the Microsoft SQL Server for data management and storage
- High capacity and speedy
- Capable to Microsoft Windows 2000 (Professional/Server), Windows XP (Professional), Windows 2003 (Server), Windows Vista, Windows 7
- User friendly operating system, support both simplified, traditional Chinese and English
- Support network operating system and anti-collision (Handling more than one card at the same time)
- Group card and spare card issuing
- Able to name 1 1 access controls
- 14 kinds of cards with 28 authority levels, flexible customeroriented tailor made hotel management system



Five types of Interfaces

PMS-VC interface

Transfer data by RS232, data line connection: 2 (data), 3 (data), 5 (ground wire)- 3 (data), 2 (data), 5 (ground wire).



DLL interface

Refer the Windows API standard, i.e. stdcall, support 32-bit windows operating system XP/2000/2003/Vista/Windows 7. Available to initialize the functions ranged from issue card, duplicate card, read card, erase card, and lose card with performance function e.g breakfast voucher. Support programming languages such as DELPHI, PB, C#, VB, Foxpro.



Socket interface

Internet data transfer, adopt TCP/IP protocol, real-time response to data and instructions sent by users will be made by ADEL socket server.

File interface

Users write to a specific directory according to a fixed format and ADEL Socket Server will read and analyze the data and instructions.



Fidello interface

The Fidello interface is agreed by TCP/IP, meeting the requirement of MICRO-Fidello certification.

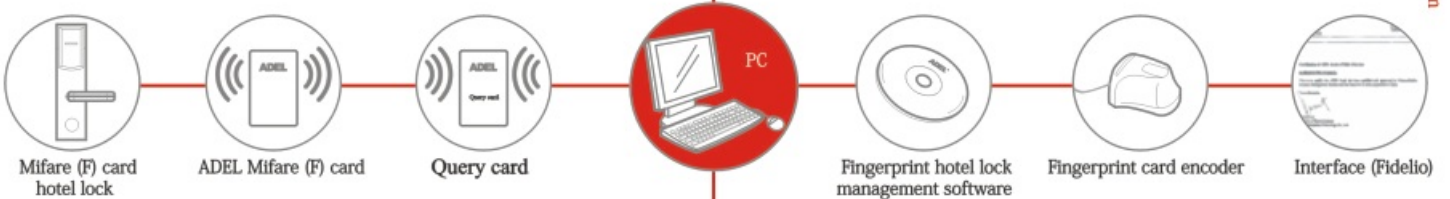


Fidello Certificate
Certificate No.:ADEL-5003-059

ADEL Hotel System Configuration

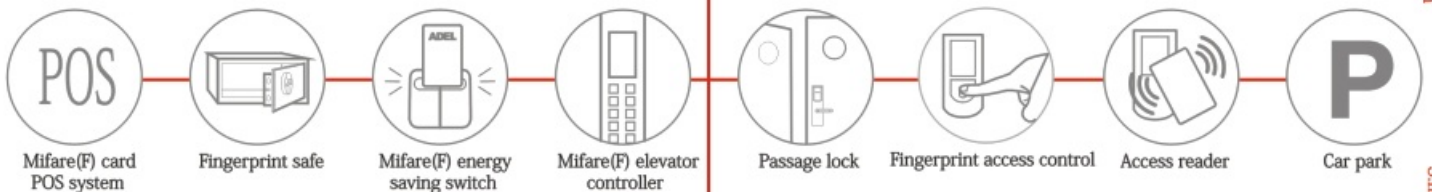
A90	FH2.0	A95
<p>Mifare Card Access</p> <ul style="list-style-type: none"> • Standard & long established hotel lock solution; • Compatible with Philips's standard Mifare-1 card (13.56MHz); • User friendly and extendable; • Different card types / authority levels can be set. 	<p>Fingerprint and Mifare card Access</p> <ul style="list-style-type: none"> • New generation hotel lock solution, up-graded based on A90; • Compatible with both Philips's standard Mifare-1 card (13.56MHz) and fingerprintHigh level of security and convenience; • Support internet VIP reservation 	<p>Mifare card or Magnetic card Access</p> <ul style="list-style-type: none"> • Next generation hotel lock solution, twin CPU & reader designed hotel lock; • Compatible with both Philips's standard Mifare-1 card (13.56MHz) and magnetic card; • Separating staff card and guest card; • High flexibility and low operational cost.

Core platform: essential elements for a completed hotel lock solution:
 *P.S.: software, lock model and card type may change according to the solution request.



Accessories / Extended features:

*P.S.: Features in this column is optional, you may expand the application of solution by adding in accessories as you will.



Uni-card features:

*P.S.: ADEL hotel lock system is open for software developer, further software develop may request for the features mentioned above.



1.The core platform

2.Uni-card application

3.Internet reservation software

Model:4910

Commercial Door Lock (Fingerprint+MF Card)



Features:

- With professional ADEL office lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 120 fingerprints;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 38mm-71mm (Wooden door);
- Remote control key.



Model:5500

Commercial Door Lock (Fingerprint+MF Card)



Features:

- With professional ADEL office lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 120 fingerprints;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 30mm-70mm (Wooden door).



Pvd Gold



Poish Chrome

Model:LS9-3998

Commercial Door Lock (Fingerprint+MF Card)



Features:

- With professional ADEL office lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 120 fingerprints;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 32mm-60mm (Wooden door);
- Material: Military grade plastics.



Black and yellow

Model:LH-3998

Commercial Door Lock (Fingerprint+MF Card)



Features:

- With professional ADEL office lock management system;
- Professional management with focuses on users, time periods and security level;
- Support extended function to transforming Mifare cards from markets to fingerprint cards;
- Store up to 120 fingerprints;
- Store up to 608pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 32mm-60mm (Wooden door).



Model:1103

Commercial Door Lock (Mifare Card)



Features:

- With professional ADEL office lock management system;
- Professional management with focuses on users, time periods and security level;
- Support other Mifare cards;
- Can be set by 256pcs card;
- Store up to 864pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 38mm-71mm (Wooden door);



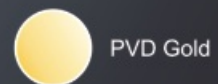
Model:5500

Commercial Door Lock (Mifare Card)



Features:

- With professional ADEL office lock management system;
- Professional management with focuses on users, time periods and security level;
- Support other Mifare cards;
- Can be set by 256pcs card;
- Store up to 864pcs unlocking records;
- With warning sound in abnormal situation;
- Door thickness range: 30mm-70mm (Wooden door).



PVD Gold



Polish Chrome



LC30/D81 Commercial door lock system

Software features and functions:

1. Support the application of fingerprint card office lock, access control, energy saver and elevator controller;
2. Support to log in software via fingerprint or password;
3. Support four types of time control (as per date, time period, week and unlocking times) and four modes of unlocking (card, fingerprint, both fingerprint and card, either fingerprint or card);
4. Support audit trail function and guard for user' s property;
5. No quantity restriction of hardware equipments such as locks, energy saver or elevator controller;
6. Personal cards support up to unlocking of 14 doors;
7. Support passage management;
8. Support to create room No. Automatically;
9. Support cards from the third party and provide development service of one-card function.



Office system software



Fingerprint encoder



Fingerprint login



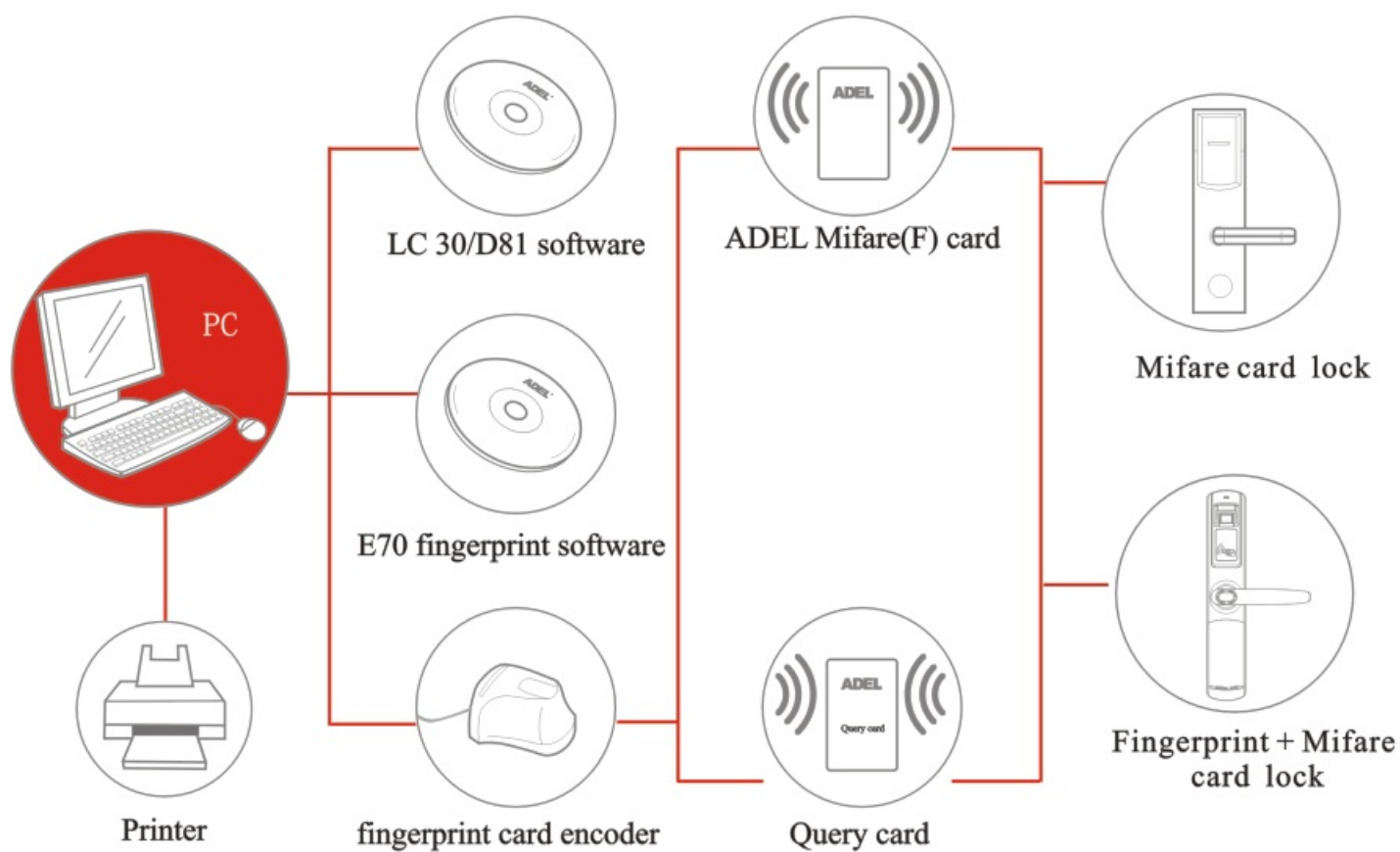
Commercial door lock system



ADEL Office Lock Configuration

LC30	D81
<p>For small office</p> <ul style="list-style-type: none"> • Support 50 rooms office door lock; • Able to download audit trail from lock; • Compatible with Philips's standard Mifare-1 card (13.56MHz); • Time attendance feature; • Different card types / authority levels can be set. 	<p>For large office and building door lock solution</p> <ul style="list-style-type: none"> • Support door locks and also other access devices; • Software fingerprint access and password access; • Able to manage door locks in different buildings; • Compatible with both Philips's standard Mifare-1 card (13.56MHz) and magnetic card; • Time attendance feature; • Flexible access: date type, 24hour type, date and time.

Essential elements for a complete office lock solution



ADEL System Accessories

Office Fingerprint Storage Box

"More convenient, much better".. After five years of research and development, ADEL has designed a new type of storage box for hotel guestrooms. It can collect, save fingerprints and lock itself automatically after you put your finger on the fingerprint window. Next time when you put your finger on it again, your existed fingerprint can open the safe door and then be deleted immediately at the same time.



Fingerprint storage box

Functions:

- Fingerprint unlock ;
- 120 fingerprint capacity;
- Automatic latch ;
- Four AA alkaline batteries, and external battery box available.



ADEL Access Control



Reader with plastic shell



Reader with metal shell

Functions:

- Support up to 15 different gates
- The way of authorization depends on card and room types
- Set up by ADEL office management software
- Used in office front door and back doors, car park etc.

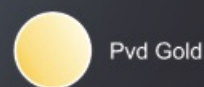
Model:US3-3

Residential Fingerprint Door Lock (Fingerprint + keypad + Mifare Card)



Features:

- Optical sensor (500 dpi)
- Automatic sensor activation
- Support 120 mifare card users
- Stainless steel five latch mortise
- Three independent unlocking: fingerprint, PIN, mechanical key
- Maximum 120 fingerprint user
- Allow to erase fingerprint in group
- Rotating outside lever to engage deadbolt
- 4 AA alkaline batteries



Pvd Gold



Poish Chrome

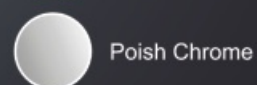
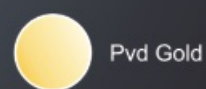
Model:US3-6

Residential Fingerprint Door Lock (Fingerprint)



Features:

- Optical sensor (500 dpi)
- Automatic sensor activation
- Stainless steel five latch mortise
- Three independent unlocking: fingerprint, PIN, mechanical key
- Maximum 120 fingerprint user
- Allow to erase fingerprint in group
- Rotating outside lever to engage deadbolt
- 4 AA alkaline batteries



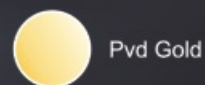
Model:US3-8908

Residential Fingerprint Door Lock (Fingerprint+ keypad)



Features:

- Optical sensor (500 dpi)
- Stainless steel five latch mortise
- Sensor activated by keypad
- Three independent unlocking: fingerprint, PIN, mechanical key
- Maximum 120 fingerprint user
- allow to erase fingerprint in 3 groups
- Rotating outside lever to engage deadbolt
- 4 AA alkaline batteries



Pvd Gold



Poish Chrome

Model:US3-8

Residential Fingerprint Door Lock (Fingerprint)

Coming up 2013



ADEL®

Professional • Powerful • Reliable



[Http:www.adellock.com](http://www.adellock.com)
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