

ADEL[®] HOTEL DOOR LOCK SOLUTION

Professional • Powerful • Reliable





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

As one of the pioneers in electronic locks technology, ADEL is well reputed through continuous research and development on the electronic locks and the biometrics technologies since 1993. 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 the electronic locks. We are the only company that acquires the whole solution of fingerprint technology including fingerprint scanner, algorithm and DSP processor. We got the patents and copyrights for those technologies in both the United States and China. Our technologies and standards are also recognized by lots of Fortune global 500 companies like Texas instruments (TI), Philips, ATMEL etc, which 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 "Professional, powerful and reliable".

Our product ranges include hotel locking solution, office locking solution and residential locking system. Our job references are located all over the world such as Chinese CCTV building, French Accor Hotel Group, Hong Kong Regal Hotel Group, etc. and over three million rooms were equipped with our systems with high satisfaction.



Hotel Job Reference

"over 2 million hotel rooms using Adel's hotel locks"

Middle East

- Lares Hotel (5-star)
- American University of Sharjah
- Sheraton AL-Harithyah Hotel (5-star)

Europe

- Blue Sea Hotel (Faliraki)
- Bulgaria Zlatan Hotel
- Bucharest comfort suites
- Prezident Hotel
- Euro Caraiman Resort Mamaia Blvd. (Constanta)
- Lucana Hotel (Roque Rublo Apartotel)
- Oasis Hotel in Sunny Beach
- Athenaeum Hotel
- Plaza Hotel
- Sovetsky Hotel, Moscow
- Ascot Hospitality Hotel
- Euro Orlando Hotel (Venus, Neptun)

Africa

- Hotel El Andalou (Avenue du President Kennedy, Hivemage Marrakech)
- Hotel Hevirnage
- Lagos Airport Hotel (first stage)
- Don-Emilia Royal Hotel
- Three Cities

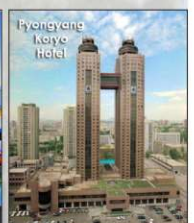
America

- Belmar Inn (112 12th AVE., Belmar.n.j)
- Sheraton Hotel

- Solar das Primavera
- Hotel Los Cedros (5 star)
- ROS TOWER Hotel - Spa & Convention Center
- DUOMI Hotel (Buenos Aires)
- Hotel Charleston Inn Barranquilla
- Hotel Real Pereira
- Arada LLC
- Boutique & Design hotel Punta
- Best Western Monumental Hotel & Spa
- Holiday Inn Express
- Hotel Galeron Villavicencio

Asia

- Regal Hong Kong Hotel (group)
- Casa Hotel
- Dorsett Regency Hotel
- Dorsett Seaview Hotel
- Cosmo Hotel Mongkok
- The Mercer Hotel
- Chelsea Hotel
- Qilu International Holding Ltd
- Accor Hospitality Group
- Hong Kong Baptist University (NTT International House)
- All Season Hotel(Bangkok)
- Phuket Grade Land Resort
- Terelj hotel (5 star)
- Alona Palm Beach Resort & Joon Kit-Bdr. Puchong Jaya
- Hotel Bukit (Dago)
- The Lancaster Hotel
- Yanggakdo International Hotel
- Pyongyang Koryo Hotel



5500 Mifare Advanced Hotel Locks



E Zinc Mortise

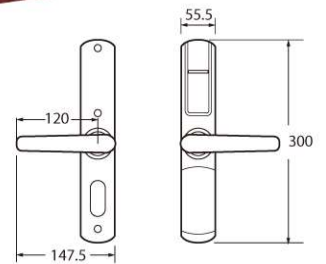
For 30 - 70 mm Door thickness

Function and Features

- Single stage cast steel process
- EU Standard mortise E adopted
- Double gearing structure design provides an even force distribution
- Slide-rail latch design effectively reduces the friction
- Anti-pick latch design and anti-friction latch alarming system ensures additional lock safety
- Lifting up handle to double lock
- External 9V power socket for emergency

Technical parameters

- **Card type:** Mifare Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** <120uA
- **Dynamic consumption:** <200mA
- **Batter life:** Approximately 15,000 times
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V.
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override ensures prompt emergency opening when electric key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

1800 Mifare Advanced Hotel Locks



B Stainless Steel Mortise

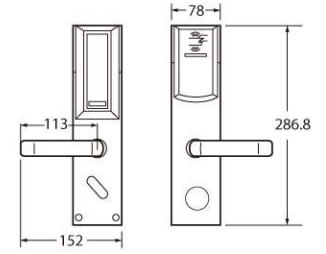
For 38-70 mm Door thickness

Function and Features

- Cast steel unified structure
- High damage resistance
- US standard mortise B, 3D design
- Advanced movement mechanism imitating human bone connection,
- Reliable slide-rail movement connection
- Anti-pick latch design and anti-friction latch alarming system enable duple safety.
- PVD technology on surface treatment leads to a long product life.
- Imported electronic components adopted in PCB from automatic SMT process.

Technical parameters

- **Card type:** Mifare Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** 100uA
- **Dynamic consumption:** <200mA
- **Battery life:** 15,000 times of normal operations
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override prompts emergency opening when electronic key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

ADEL hotel lock management software can be interfaced with hotel management system in 5 different ways: **DLL, Fidelio, File, Socket, PMS-VC**

Function and Features

- Making use of the Microsoft SQL Server for data management and storage
- High capacity and speedy
- Capable to Windows 2003 (Server), Windows Vista, Windows 7, Windows 8
- 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 11 access controls
- 15 kinds of cards with 28 authority levels, flexible customer-oriented tailor made hotel management system



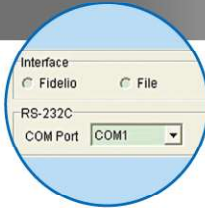
Hotel lock management software



Use fingerprint to log in the software

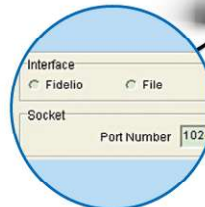


Successfully log in with fingerprint



PMS-VC interface

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



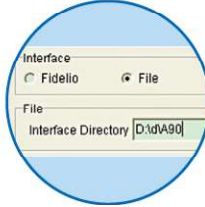
Socket interface

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



Fidelio interface

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



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.



Fidelio certificate
Certificate No. ADEL-5003-059

Thousands of hotels are using ADEL interface !

Accessories

One Card solution

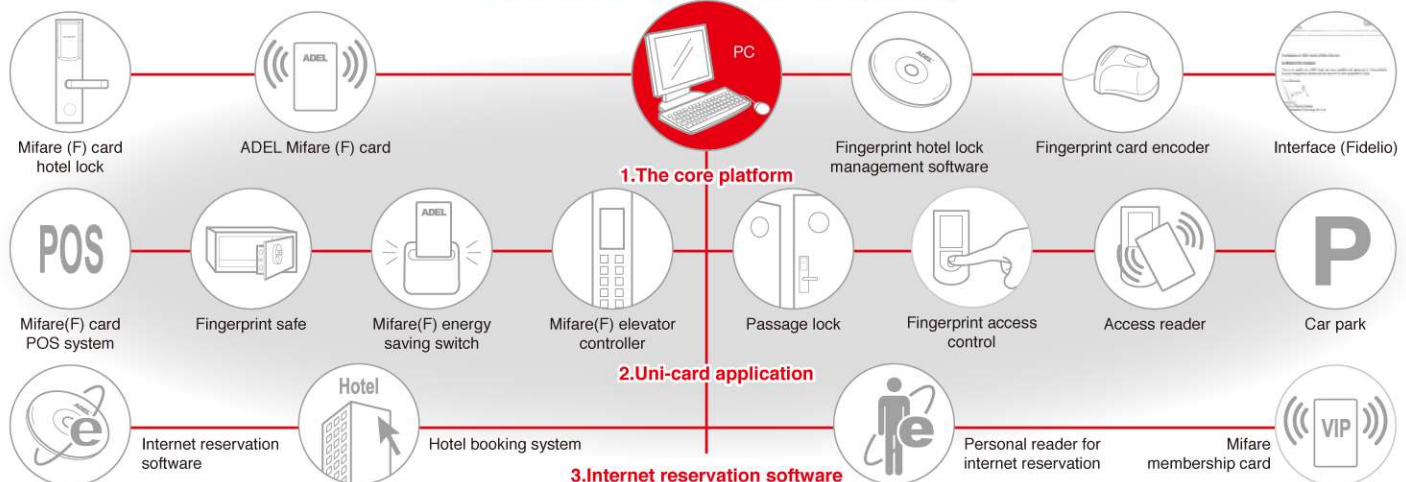
Mifare Hotel Access Card

Uni-Card Application

ADEL Mifare card can be upgraded to fingerprint Mifare card for higher security level. It not only unifies the process of hotel management, but also be well prepared for the other additional function like internet reservation, POS system, VIP self-service, lift & access control, etc.



Structure of Uni-card system



RD-FCG3-2 Fingerprint card encoder



Function and Features

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

ISO 14443A Standard

- > Designed to match with the future trend which combines two high level biometrics security technologies fingerprint and Mifare card. It can recognize any fingerprint (Up to 6 years) in any directions for access or apparatus control.
- > Most popular Mifare with fingerprint card encoder in the US. With its unique function, it can prevent the potential threat of password disclosure due to the valid fingerprint is needed during the process of card issuing.



Technical parameters:

Name	Description	Technical parameters
Working voltage	USB power supply	DC 5V
Communication method	USB port	USB port
Sensor	Resolution	CMOS color, 500dpi
Verification method	Fingerprint verification	1 : N
FRR	Less than once per 1000 times	< 1%
FAR	Nil even after 1 million times	< 0.0001%
Working environment	Working temperature Working humidity	-5°C - 50°C 20% - 80%
Fingerprint algorithm	Angle for finger position	360°C
Driver	Microsoft standard	HID

ADEL-8MF Mifare card encoder

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



Function and Features

ISO 14443A Standard

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

Technical parameters:

Name	Description	Technical parameters
Working voltage	USB power supply	DC 5V
Communication method	USB HID, driver is not required	USB port
Encryption	Encryption algorithm	DES algorithm



Comparison:

Product		
Communication method	USB	USB
Available card	Fingerprint card or Mifare card	Mifare card
Power supply	via USB	via USB
Log in the software	Fingerprint or password	Password
Extension of fingerprint card	Yes	No
Security	Extremely safe	Safe

30MF/ 30MF-5 30DC/ 30MF-NT

Energy Saving *Switch for Hotel,*
AC220V *Save energy, Save the Earth*



Introduction

Energy saving 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 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 entrance for convenience.



Model: 30MF-5

Mifare (F) Three types for choice

>Intelligence type – High power



Model: 30MF-5
Load power: 6600W

Operating Voltage: 220V

- Only capable to Adel Mifare Card
- Enhance the internal management
- Eliminate energy waste

>Universal type



Model: 30DC
Load power: 6600W

Operating Voltage: 220V

- Capable to all types of card
- Cost efficient
- Minimize energy waste

>Networked type



Model: 30MF-NT

Operating Voltage: 220V

- Connecting wires and hubs needed
- Eliminate energy waste
- Brand Building

Equipment

Hotel Fingerprint Safe 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.

No setting needed



Function and Features

- 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



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