



Landwell Intelligent Key Management System User Guide

V1.2

07/22/2021

Beijing Landwell Electron Technology Co., Ltd

Version History

Version	Date	Who	Description	Approved by
1.0	7/16/2021	Bruce	Initial version	
1.1	7/22/2021	Bruce	Add information of the WEB managemnt	

Contents

Version History	1
1.INTRODUCTION	4
1.1 Summary of Key Management System	4
1.2 Glossary overview	4
2.A-180E OVERVIEW	5
2.1 Panel.....	5
2.2 The Touch Screen.....	6
2.2.1 Screen Saver.....	6
2.2.2 Touch Command	6
2.3 Network.....	6
2.4 A-180E Technical Details	7
3. FIRST STARTING	7
4. USING THE SYSTEM.....	8
4.1 Logging into the system.....	8
4.2 Removing & returning keys.....	8
3.3 Keys Status Icons.....	9
3.5 Key Lookup	9
3.6 Change Password	9
4. ADMIN MENU	10
4.1 Cabinet.....	10
4.2 Keys	11
4.3 Users	11
4.4 Permissions	12
4.5 multi-Verification.....	12
4.6 Events.....	13
4.7 Reports	13
4.8 System Settings.....	14
5.Replacing a Key-Fob	14
6.How to remove keys in a power failure	15
7.WEB Management.....	15

7.1 Function List	15
7.2 Main Pages.....	16
7.2.1 Home Page	16
7.2.2 Settings.....	17
7.2.3 Key Reservation and Application	19
7.2.4 Reports	20
8.Applications for Cell Phone.....	21
8.1 How to obtain and activate the app.....	21
8.2 How to modify password	22
8.3 Key overview	22
8.4 Reservation and approval.....	23
8.5 Records	24
9.About Us	24

1.INTRODUCTION

This User Guide has been prepared to assist you (the end user) with the operating basics of the Landwell A-180E. It covers the relevant knowledge about how to use the intelligent key cabinet device and software, which is a supplement to the in-depth product training that you get from our experienced project manager after the system installation and commissioning. Please keep this guide handy for those times when you need to remember how to Add Users, Add Keys, run Reports, or other options.

1.1 Summary of Key Management System

Landwell's A-180E is an electronic key management system with full control of physical keys. It allows businesses to better protect their commercial assets like vehicles, machinery, and equipment. The system is made by LANDWELL and is a locked physical cabinet that has individual locks for each key inside. Once an authorized user gains to the locker, they can get access to the specific keys they have permission to use. The system automatically records when a key is signed out and by whom. This increases the level of accountability with your staff, which improves the responsibility and care they have with the organization's vehicles and equipment.

1.2 Glossary overview



[1] **System** – The term 'system' refers to the A-180E unit.

[2] **Key-Fob** - The heart of the A-180E system. It contains a small RFID chip which allows the system to identify the keys(s) attached.

[3] **Security Seal** - The Security Seal is used to attach the key(s) to the Key-Fob. Once the seal has been crimped, the only way to detach the keys from the Key-Fob is to cut the security seal using a pair of heavy-duty cutters.

[4] **Users** - Users are added to the system by an administrator and can either be a standard user or another administrator. This is done from the user wizard in the admin section of the A-180E.

[5] **Permissions** - The permissions section of the A-180E allows you to easily identify who has access to what keys and allows you to edit each user's permission.

[6] **Permission Group** - A set of users with the same operation authority and the same key authority

[7] **Multi-Verification** - The person using the key will not be allowed to remove the preset key(set) unless one of the preset person(s) login to A-180E to provide proof

[8] **Event** - The purpose of using the key

[9] **Reservation** - Key reservation is a short-term exclusive use of the available keys within the permissions. The initiation takes effect immediately. During the validity period, no one except the administrator can access the key.

[10] **Application** – Key application is a request for temporary access to the key, and it will take effect after the administrator approves it.

2.A-180E OVERVIEW

The Landwell A-180E system uses touch screen technology for an easy, user friendly interface. A-180E does not require the use of a stylus or any other navigation device, to use the system simply click on the desired buttons with your finger.

2.1 Panel



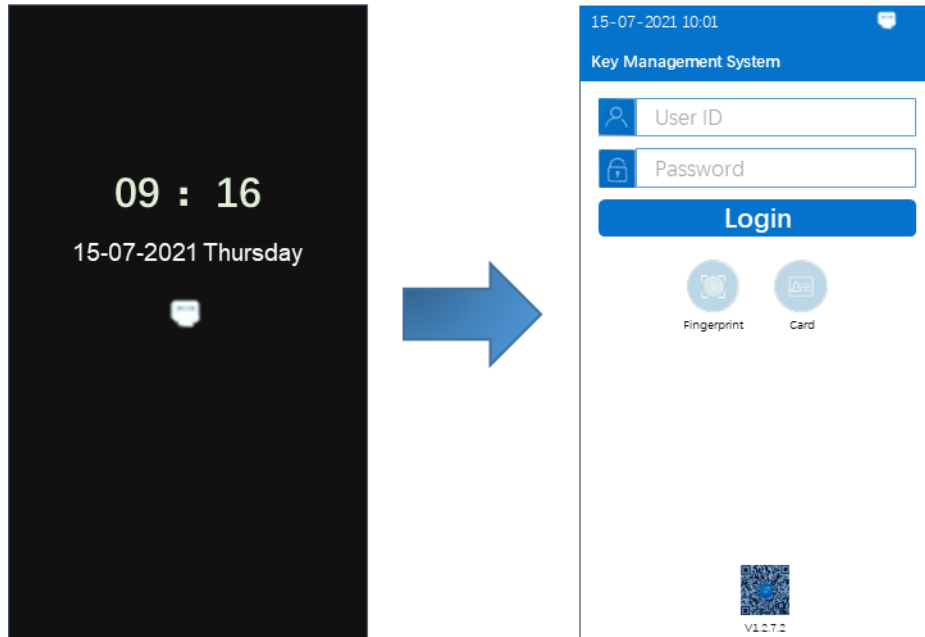
Figure 2-1 A-180E Panel

① **Key Slot** – Key receptor slot. Provide functions such as locking, monitoring, identification and indication of keys.

- ②7” Touch Screen – Built in Android OS, and provide user friendly interaction.
- ③Mechanical lock - Open the cabinet door and remove keys manually.
- ④RFID Reader – Reading Key-Fobs and user cards.
- ⑤Fingerprint Reader – Collecting user fingerprints.

2.2 The Touch Screen

2.2.1 Screen Saver



If the A-180e system is not active for 30 seconds (or other settings), then the system will go into ‘Standby page’. To use the system again simply press anywhere on the touch screen.

2.2.2 Touch Command



Click - Selecting an onscreen button then immediately releasing will activate it.



Click & Hold - Selecting and holding certain directional buttons will cycle through menus and various options



Scroll: Swiping up and down on a list or menu will allow you to scroll through the various

2.3 Network

There are two networking mode for Landwell A-180E: Ethernet and Wi-Fi. It is necessary to complete the network configuration when the system is first run. And, you can change it while logging into A-180E via administrator account later.

2.4 A-180E Technical Details

	Product Name	Intelligent Key Management System
Basic Property	Model number	A-180E
	Key-Slots	18 pieces
	Materials	Cold Rolled Steel
	Surface Treatment	Paint baking
	Dimension(mm)	(W)500 X (H)400 X (D)180
	Weight	16Kg net
	Master Control	Operation System
Display		7" Touch screen
Network mode		Wi-Fi + Ethernet
Data Storage		Cloud, Local memory
Door lock		Electronic lock
Key Access ways		Fingerprint + Card + Password
Finger Recognition Time		≈ 0.6s (1:1)
User Card Type		125KHz / 13.56MHz(option)
Others	Working Voltage	DC 12V 5A(max)
	Power Supply	AC 100~240V 50~60Hz
	Temperature and humidity	-20~70℃, ≤95% RH

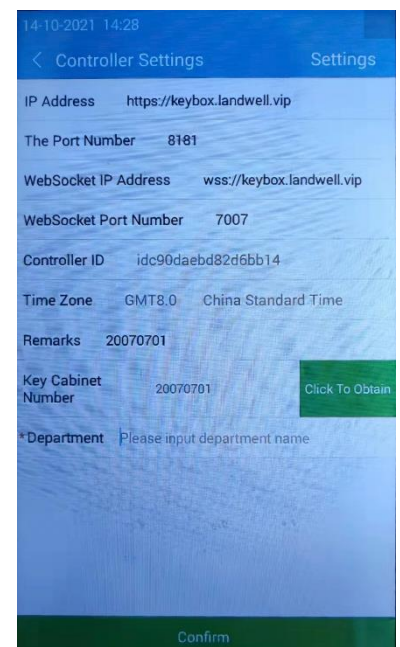
3. FIRST STARTING

Connect the internet and set time zone

Settings > System, then complete the above configuration in Android OS.

System registration

Enter your “department name” which provided by the sales manager in the text box on the last line when internet is connected. As shown on the right.



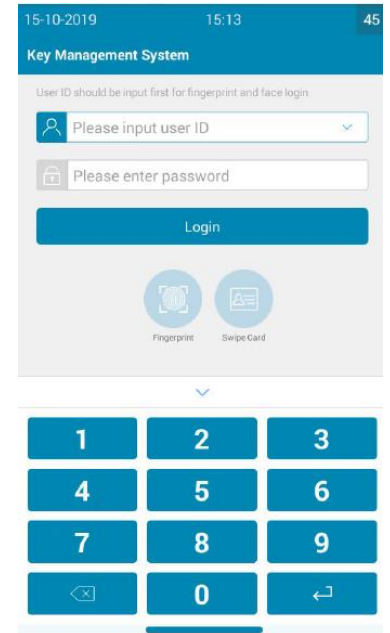
4. USING THE SYSTEM

To use A-180E a user with the correct credentials must login at the system.

4.1 Logging into the system

There are three methods to log in the A-180E system:

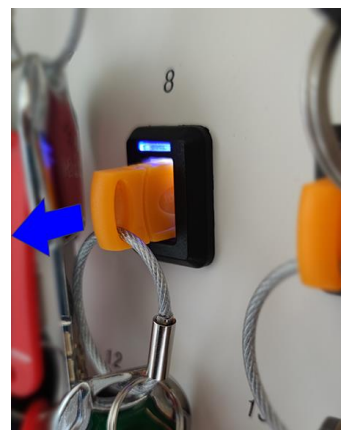
- ID + Password;
- ID + Fingerprint;
- Swiping your staff Card;



4.2 Removing & returning keys

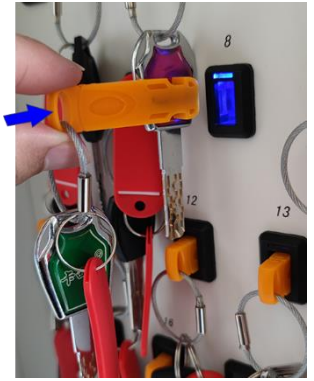
Removing a key is a handed operation.

1. Log in the system.
2. The screen will show which keys you can gain. **Authorised** Keys will be illuminated **green**. **Unauthorised** keys will be illuminated **red**.
3. Press the icon on screen for the key you wish to remove
4. The door will open.
5. The system will unlock the Key-Fob illuminated blue.
6. Remove the key and close the door.



Return a Key

1. Swipe the Key-Fob on the external RFID reader.
2. The door will open.
3. The position illuminated blue indicate the correct slot.
4. Insert Key-Fob into matching slot.
5. Close the door.



Note: You must return the key to the correct receptor slot. If not, the system screen will notify you and request that you remove the key and return it to the correct slot as indicated. The positions in the system will also illuminate.

3.3 Keys Status Icons



Present Key



No Permission



Key Taken



Key Unregistered



Incorrect key slot



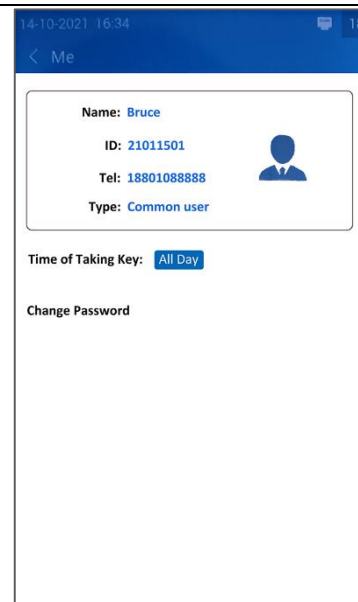
Reserved

3.5 Key Lookup

When swiping the touch screen left or right without log in the system, you can view the status and usage details of all keys, know whether the keys are available, who is currently using them, and so on.

3.6 Change Password

When a user is logged in, he/she can change password himself in the [Me] menu.



4. ADMIN MENU

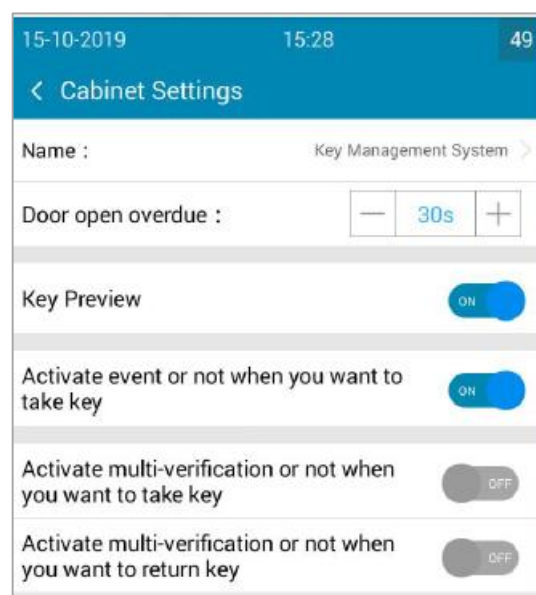
This section of the user guide will take you through the admin menu and all of its features.

All the settings, except the registration of keys, user card, fingerprint, can be realized through website or A-180E. For convenience, I will only introduce the setting method on A-180E.

4.1 Cabinet

In the [Cabinet settings] menu, the following can be set:

- System Name
- Maximum time of door opening
- Whether Key Preview on/off
- Whether Event on/off
- Whether multi-verification on/off
- Whether login required when returning the key

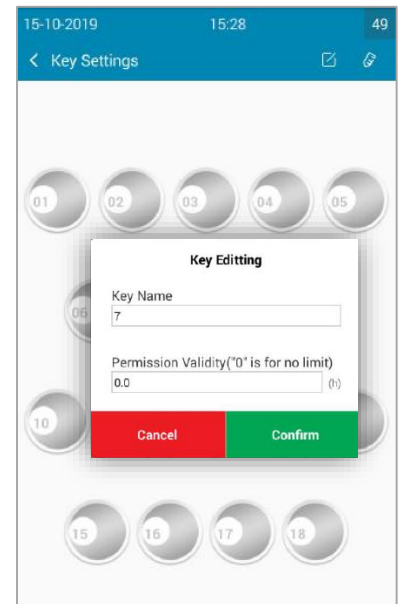


4.2 Keys

In the [Key Settings] menu, the following can be achieved. Among them, the key registration is usually the primary setting for system operation.

 Edit  Register

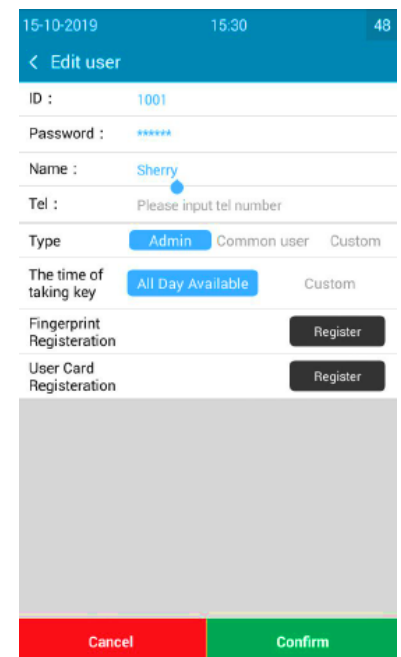
- Register one Key-Fob (the selected)
- Register all Key-Fobs (while no key selected)
- Rename a key
- Edit keys maximum time for use



4.3 Users

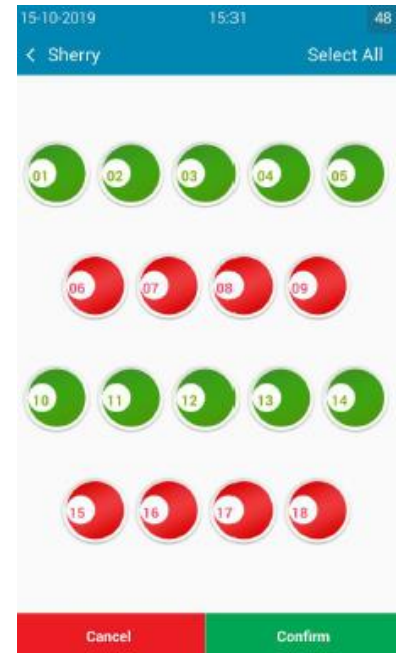
From the admin menu click the user's button. To add, edit or delete a user, login to the system and navigate to the admin menu. From the admin menu select the user's button.

- **ID** - User's identity, should be 4-11 digits.
- **Password** – user's authentication, should be 3-11 digits. The password can only be modified by yourself or reset by the administrator.
- Name – Full name suggested
- Tel
- Type – type of keys/menu permission
 - ✧ Admin, all permissions except to create an admin account
 - ✧ Common User, Key permissions granted by the admin
 - ✧ Custom, set of key/menu permissions granted by the admin
- The time of taking keys - When the user can remove keys.
- Fingerprint and User card registrations



4.4 Permissions

Set key permissions for the user selected, following the images on the right. Green means he/she can access the key, and red is opposite.

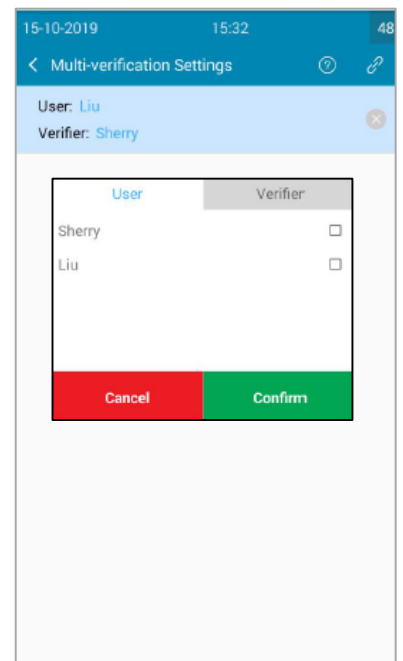


4.5 multi-Verification

Multi-Verification, the person(s) will not be allowed to remove the preset key(set) unless one of other preset person(s) log in to A-180E to provide proof.

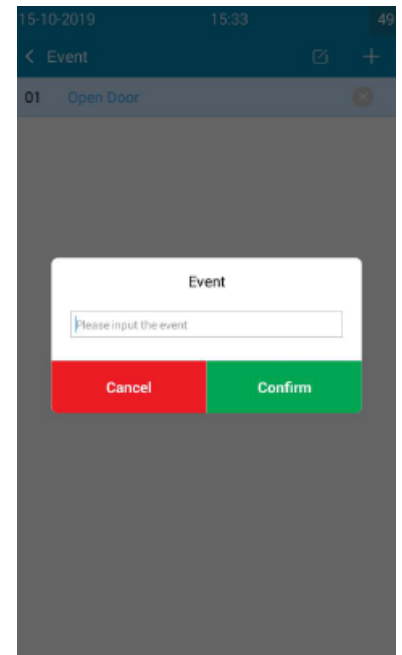
Multi-verification gives multiple protection of key safety. This means if one user wishes to use a key, he or she is required to obtain another user's permission or finalization of the request, the key will then be released. Important key leads to vital assets usually are suggested to use multi-verification function.

E.g. If Liu wants to take office key number 5, he is required to ask verifier Sherry to confirm this request. Otherwise, the key cannot be released.



4.6 Events

Event, the purpose of using the key. When the event option is turned on, it's necessary for users who removing keys to enter/select events



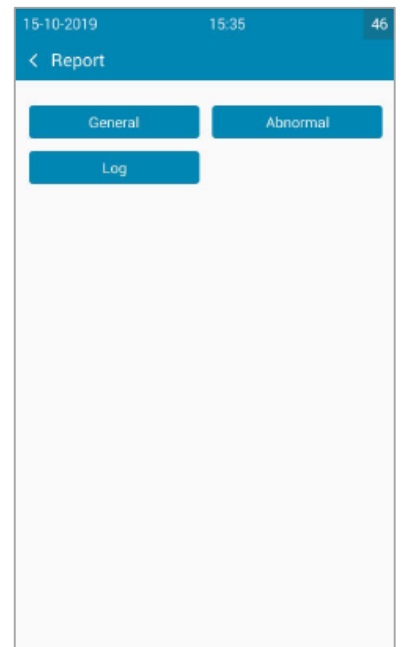
4.7 Reports

From the admin menu select the reports button. Reports allow you to view all the transactions and events that have occurred at the system.

Through the report, you can easily understand all record:

Who's got a key?

Who's had a key?



What keys has someone had?

System events log?

Exporting reports:

Once you have run a report you can export the data to a USB memory stick.

1. Run a report as instructed in the previous sections.
2. On the results page there is a button in the top right hand called Export.
3. Click the Export button and a new screen will appear prompting you to enter a USB memory stick.
4. Insert a USB memory stick into the slot on the system.

24-09-2019		17:16		45
← Operation log				Export
User	Type	Start time	End time	
01.		25-08-2019 17:16	24-09-2019 17:17	
Event:			admin	
Time:			Login	
		24-09-2019 17:15:24		
02.			admin	
Event:			Management System-UpdateDddKey permissions	
Time:		24-09-2019 17:12:02		
03.			admin	
Event:			AddUser:Ddd-1001	
Time:		24-09-2019 17:11:38		
04.			admin	
Event:			Login	
Time:		24-09-2019 17:07:59		

Previous page 1/1 Next page

4.8 System Settings

Setting of system operation parameters:

No.	Item
1	Screen Brightness
2	System Sleep Time
3	Key preview on/off
4	Standby page displayed or not
5	Snap a picture when taking & returning keys?
6	Volume
8	Door open overdue
9	Switch of Fingerprint/face/user card
10	Emergency password
10	Update checking
11	Language
12	Cabinet name
13	Return Android System(setting resource explorer browser)

5.Replacing a Key-Fob

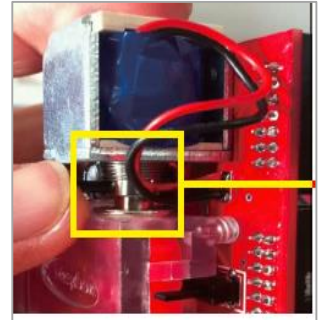
When the key/Key-Fob is damaged or lost, a new Key-Fob needs to be registered. Log in to the system via admin, selects the key setting menu, selects the key position and then clicks to register a single key. After the cabinet door opens automatically, insert the key according to the prompt and close it to complete the

replacement.

6. How to remove keys in a power failure

In case of power failure, or other special circumstances, you can use the emergency key to open the cabinet door and manually take out the key.

- ① Use the emergency key to open the cabinet door and inner lining board.
- ② Lift the solenoid valve corresponding to the key position on the inside (as shown in the figure) to remove the key.



7. WEB Management

Landwell key management system is a web management software with B/S structure, which realizes A-180E multi-system network management, so that you don't need to install additional tools and extensions on your computer. As long as you need a web browser, you can easily manage it, providing you with More convenience.

7.1 Function List

Home	Notification	Report	Settings	My
<ul style="list-style-type: none"> •Data Overview •Key Status •Take key •Return key •Reserve •Applicate 	<ul style="list-style-type: none"> •Push a notification •Read notification 	<ul style="list-style-type: none"> •Key Record •Abnormal record •Operation Log 	<ul style="list-style-type: none"> •Department •Cabinet •Key •Permission Group •User •Verification Group •Key permission •Event 	<ul style="list-style-type: none"> •Reservation •Approval •Mailbox •Password •Exit

7.2 Main Pages

7.2.1 Home Page

The screenshot displays the Landwell Home Page dashboard. The navigation bar includes 'LANDWELL', 'Home Page', 'My Pending Approval', 'Notification', 'Report', 'Function Settings', and 'Test'. The main content area is divided into several sections:

- Notification for all keys:** Five colored cards showing key status counts: Absent (1 Piece), Reservation (0 Piece), Present (17 Piece), Overdue (0 Piece), and Alarm (0 /Cabinet).
- Notification for key's status:** Five cards showing system expiration deadlines and network disconnection alerts.
- Notification of Key Yesterday:** Two cards showing 0 Key Taken and 0 Key Returned.
- Abnormal Analysis/Diagram:** A donut chart showing 100% Present status.
- Current Status:** A list of 9 events including alarms and returns.

● Menus

- Home Page – Return the home page
- My pending approval - Key usage reservation and applications submitted by the staff
- Notification - Notice from the administrator
- Report – Keys removing & returning records, system abnormal records, user's operation log, and mail-box records
- Function settings – settings of department, cabinet, key, user, permission, and so on.
- Current department - Switch to sub-department

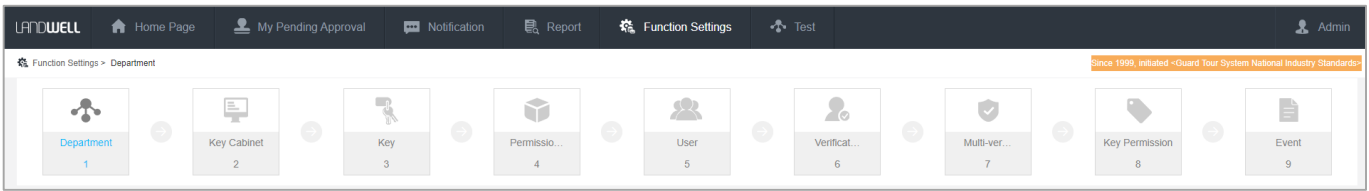
● Current account

- My reservation
- My approval
- My mail-box
- Change password
- exit

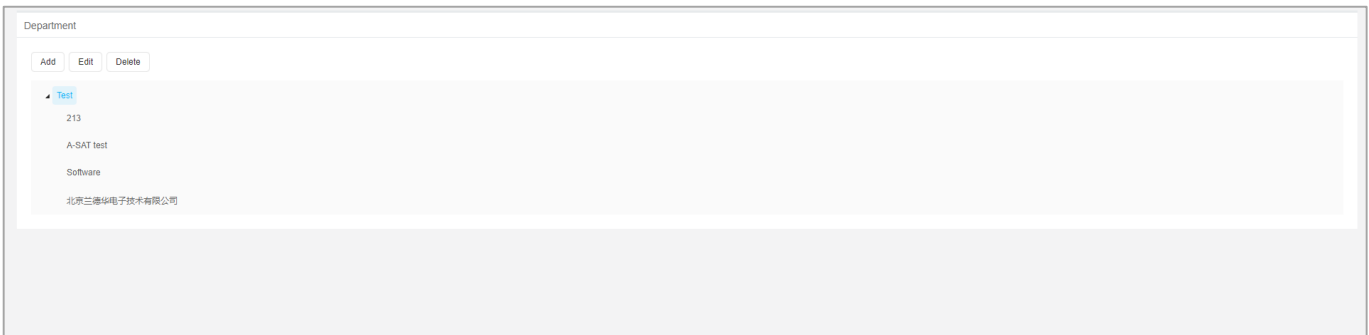
- Keys Overview - Statistics of the number of keys in different states, such as absent, reservation, present, overdue, alarm.

- Systems Lists – cabinet lists of the current department.
- Realtime records - Scroll to display the latest key records

7.2.2 Settings



(1) department



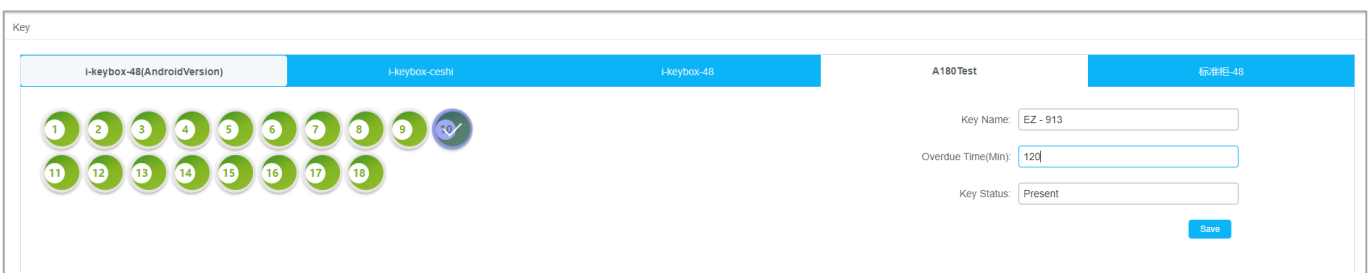
- Add - add a sub department of the selected
- Edit – rename the selected department
- Delete – delete the selected department

(2) Cabinets

#	Key Cabinet Name	Key Cabinet ID	Model	Expire date	Keyslot Layout	Key Take with Multi-verification	Key Return with Multi-	Department	Status
1	I-keybox-48(AndroidVersion)	20092901		2020-10-31 10:16:00	8*6	Close	Close	Test	
2	I-keybox-ceshi	20092902		2020-10-30 14:52:00	0*0	Close	Close	Test	
3	I-keybox-48	201120001CD481043018		2020-11-30 16:05:00	8*6	Close	Close	Test	
4	A180Test	20070701	A180E	Long-term	3*6	Close	Close	Test	
5	标准柜-48	21071401		Long-term	6*6	Close	Close	Test	

- Cabinet Setting – As described in 4.1 about the key cabinet setting
- Transfer - Transfer the key cabinet to another department

(3) keys



- Key Setting - As described in 4.2 about the key setting

(4) Permission Group

#	Group Name	Module	Time Type	Key Permission
1	兰德华	Key Cabinet Key Permission Group User Multi-verification Key Permission Event Take and Return Record Abnormal Record Operation Log	All Time	
2	财务部	Key Cabinet Key Permission Group User Multi-verification Key Permission Event Take and Return Record Abnormal Record	All Time	

- Permission Group - A set of users with the same menu authority and the same key authority
 - Group name
 - Module allocation - What menu functions can group members use?
 - Time (type) - When can group members use the keys?
 - Key permission - Which keys can group members use?

Edit

Group Name:

Module Allocation

Department
 Key Cabinet
 Key
 Permission Group
 User
 Verification Group
 Multi-verification
 Key Permission
 Event
 Take and Return Record
 Abnormal Record
 Operation Log

Time Settings

Time:

Key Permission Settings

Key Cabinet:

(5) users

#	User Name	User Type	Time Type	Fingerprint No.	User Card	Password	Department
1	Admin	System Administrator	All Time	0	0030BFC6	Reset	Test
2	刘桂涛	Administrator	All Time	1		Reset	Test
3	Olivier Agostini	Administrator	All Time	0		Reset	Test
4	DemoAccount	Administrator	All Time	0		Reset	Test

- Add/Edit/Delete a user
- Set his/her information
- *Reset his/her password to 333*
- Set user type – admin/common user/custom type

(6) Verification Group

#	Group Name	Group Users
1	于玉	
2	EaV	Admin

- Add/edit/delete a verification group – used for the function of multi-verification

(7) multi-verification

#	User Group	Verification Group	Key
1	于玉	EaV	12

- Add/delete one piece of multi-verification relationship

(8) key permission

Key Permission			
Key Cabinet I-keybox-48(AndroidVersion)			
Key Cabinet I-keybox-ceshi			
Key Cabinet I-keybox-48			
Key Cabinet A180Test Search <input type="text"/> Q +			
#	User Name	User Type	Key Permission
1	Admin	System Administrator	All
2	刘洪涛	Administrator	All
3	Olivier Agostini	Administrator	All
4	DemoAccount	Administrator	All
Key Cabinet 标准柜-48			

- Set key permission for users

(9) event

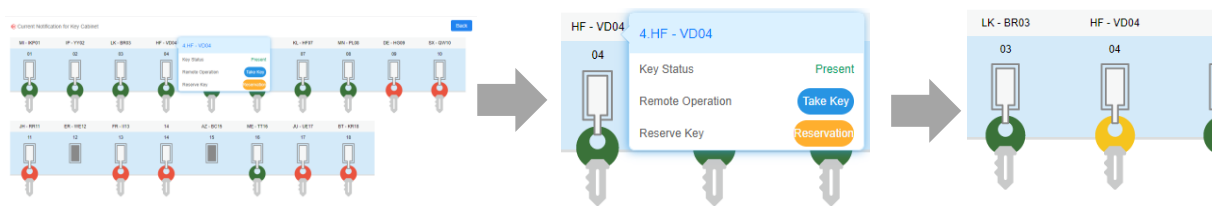
Event	
Key Cabinet I-keybox-48(AndroidVersion)	
Key Cabinet I-keybox-ceshi	
Key Cabinet I-keybox-48	
Key Cabinet A180Test +	
#	The reason for Key Taken
Key Cabinet 标准柜-48	

- Set the events for single system

7.2.3 Key Reservation and Application

(1) Key reservation

[Home page]→Click the key→[Reservation]→Edit *reserve key* form→Done



(2) Key application

[Home page]→Click your target key→[Application]→Edit *application key* form→Approved by admin.

Application key

Department: Test

Key Cabinet: KMS-A180E

Key Name: FR - II13

Application time: 2021-07-22 09:50 to 2021-07-23 09:50

Reason: 20070701

Approver: Ad

Submit

Details

Department: Test Waiting for approval

Key Cabinet: KMS-A180E

Application: 13 - FR - II13

key:

Application time: 2021-07-22 09:50:00 - 2021-07-23 09:50:00

Application reason: 20070701

Approver: Ad

Bruce Initiate Application 2021-07-22 09:51:41

Withdraw **Remind**

My Pending Approval

Bruce	2021-07-22 09:50:00 - 2021-07-23 09:50:00	KMS-A180E	13 - FR - II13	Application reason: 20070701	Refuse Approve
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7.2.4 Reports

(1) Take and return records

Take and Return Record

Key Cabinet User Selection Key Selection Abnormal Selection Return Options 2021-06-17 2021-07-17 **Query** Generate PDF Generate Excel

9-9 A180Test	📄	2021-07-14	19:49:08 Admin(Take)	
		2021-07-14	19:49:16 Admin(Return)	
33-33 标准柜-48	📄	2021-07-14	15:28:42 Admin(Take)	
		2021-07-14	15:36:17 Admin(Return)	
3-3 标准柜-48	📄	2021-07-14	15:17:00 Admin(Take)	
		2021-07-14	15:36:16 Admin(Return)	
27-27 标准柜-48	📄	2021-07-14	15:11:27 Admin(Take)	
		2021-07-14	15:36:17 Admin(Return)	Door Open Overdue
22-22 标准柜-48	📄	2021-07-14	15:09:19 Admin(Take)	
		2021-07-14	15:36:17 Admin(Return)	

Last Page 1/2 Go to Next Page

(2) Abnormal Record

Abnormal Record

Key Cabinet Abnormal Selection Crossing Status 2021-06-17 2021-07-17 **Query** Generate PDF Generate Excel

Batch Processing

A180Test 22070701	📄	2021-07-15	08:46:00	Door Open Overdue	Pending
标准柜-48 21071401	📄	2021-07-14	15:11:06	Door Open Overdue	Pending

(3) Operation log

Report > Operation Log Since 1999, Initiated -Guard Tour System National Industry Standard

Operation Log

User Selection Operation Module Operation Type 2021-06-17 2021-07-17

Admin	2021-07-17 16:32:55	Web	A180Test_Add_钥匙Key Permission
Admin	2021-07-17 16:30:22	Web	Log inSystem
Admin	2021-07-17 11:09:11	Web	Log inSystem
Admin	2021-07-16 16:02:01	Controller	Log inSystem
Admin	2021-07-16 16:01:09	Controller	Log inSystem
Admin	2021-07-16 16:25:01	Controller	Log inSystem
Admin	2021-07-16 16:23:29	Controller	Log inSystem
DemoAccount	2021-07-16 11:33:07	Web	Log inSystem

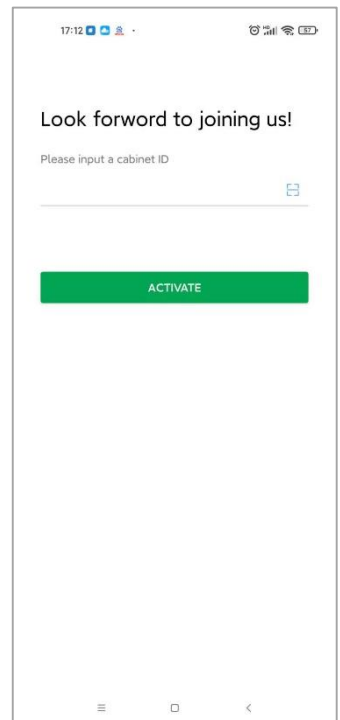
Last Page Go to Next Page

8.Applications for Cell Phone

8.1 How to obtain and activate the app

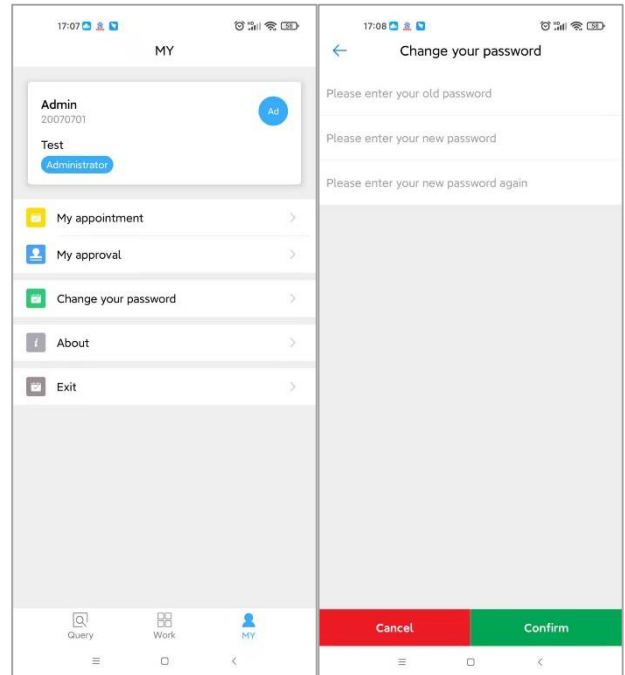
Scan the [Download QR Code] at the bottom of the screen of the A-180E smart key cabinet through the mobile browser, and select the corresponding download link according to the mobile phone system type in the pop-up interface. Other ways to obtain: visit the WEB management website, scan the QR code at the bottom right of the page through the mobile browser, enter the download link, or click the QR code with the mouse to download the APP installation package to the PC, and then forward it to the mobile phone

After the software is running, directly enter the key cabinet code ID or scan the QR code at the bottom of the key-cabinet screen, and then click [activate].



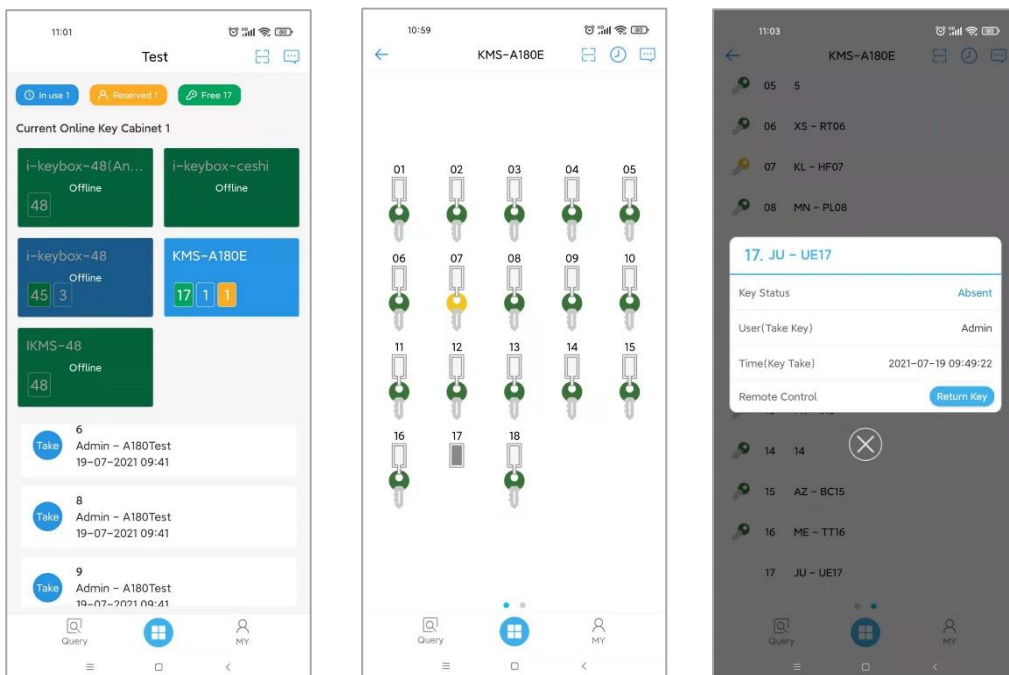
8.2 How to modify password

With the account and password provided by the administrator, log in to the system, and modify the password by yourself. Method: [My] > [Change your password].



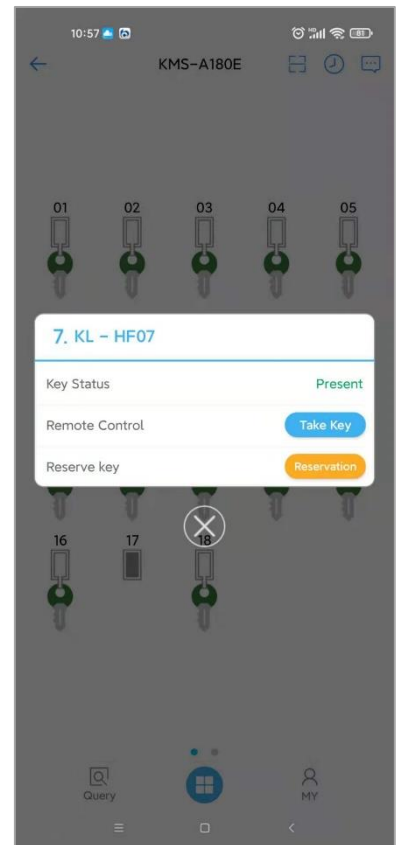
8.3 Key overview

(Select a system) Swipe the screen left and right to view the basic information of the keys in the key cabinet of the selected current department and whether they are available.

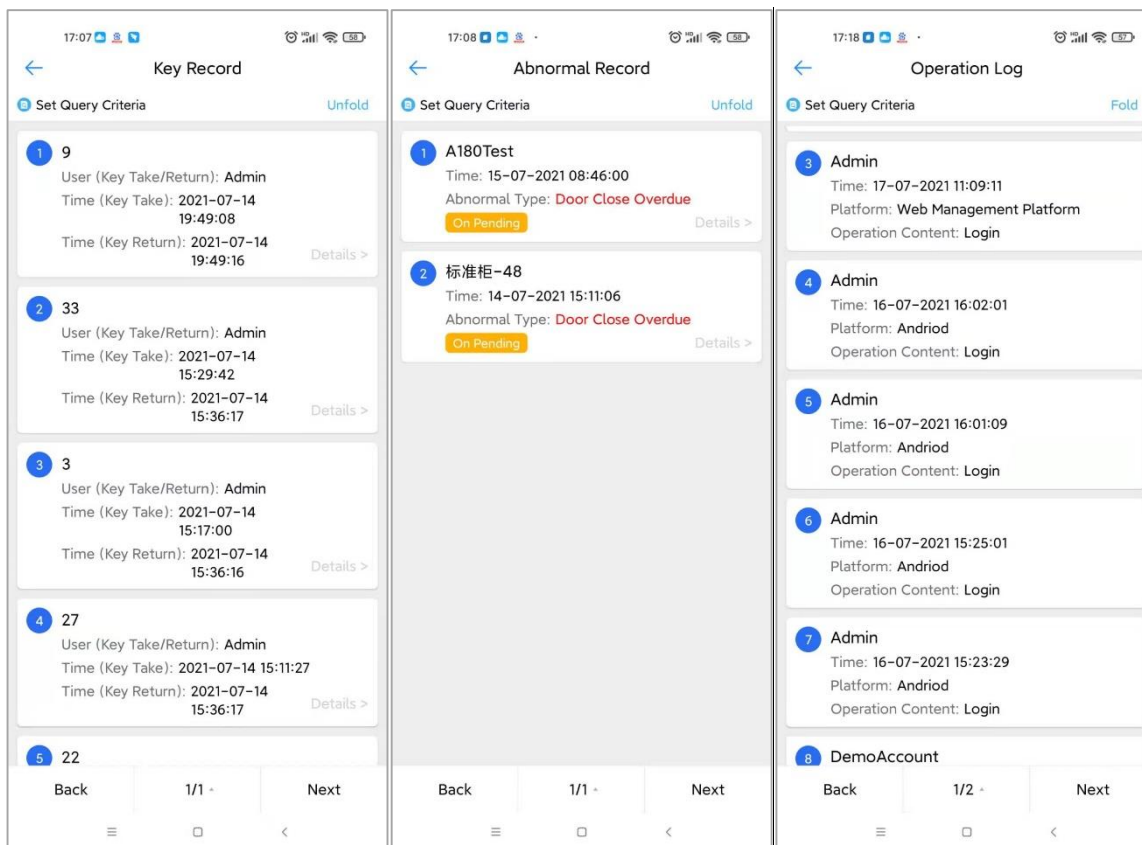


8.4 Reservation and approval

Key reservation is an appointment for the use of a specific key within the authority. After the reservation is successful, the key can only be taken out by the reservation person and the system administrator within the set time. Method: On the key overview page, click on the key location and select [Reservation] in the pop-up interface.



8.5 Records



9. About Us

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