

IPDA074

Handheld Terminal



User Manual

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Chapter 1 Device layout

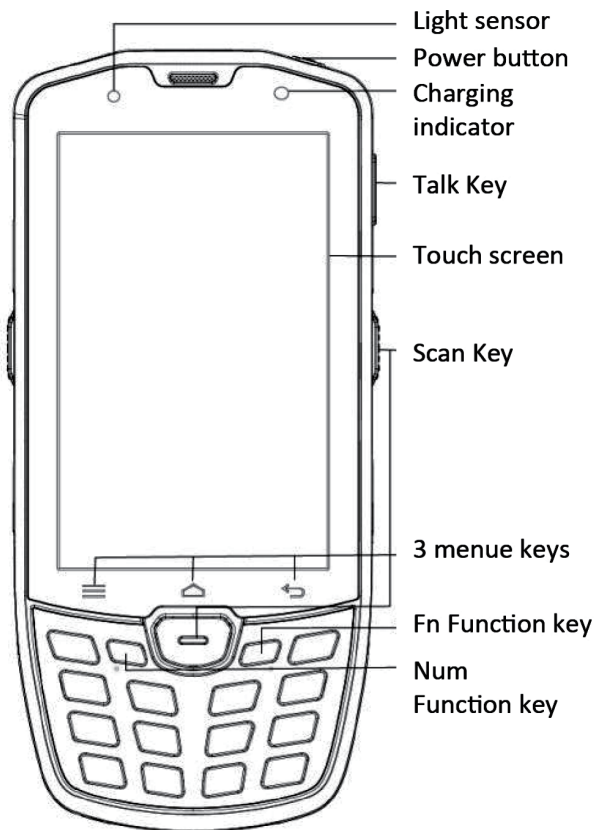


Figure1-1 Front view

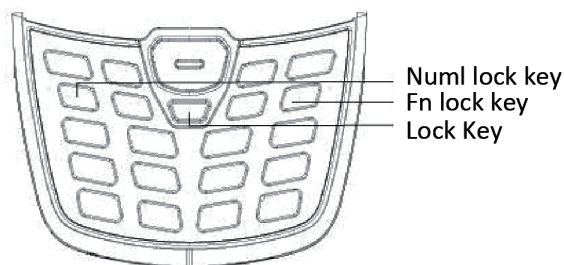


Figure1-2 Front view of 22 keys

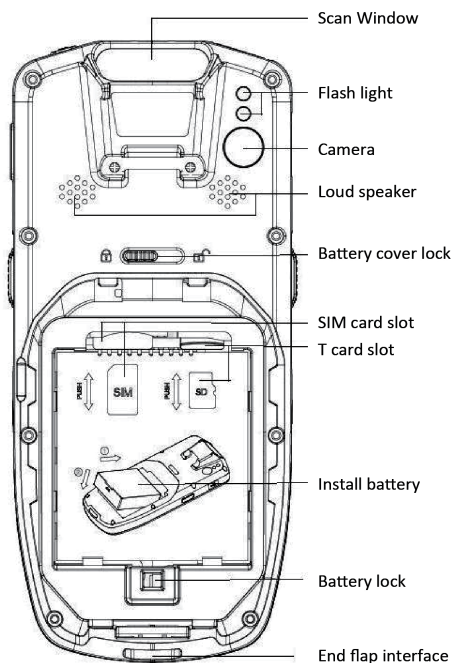


Figure1-3 Back view

1.1 Installing the SIM Card

Please install the SIM card as instructed below:

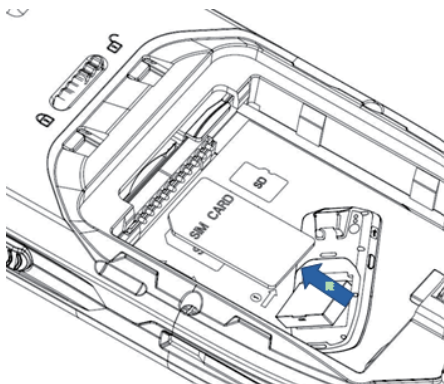


Figure1-4 Installing the SIM Card

1.2 Installing the SD card

Please install the SD card as instructed below:

Insert the SD card in the direction shown in the figure below (micro SD or microSDHC).

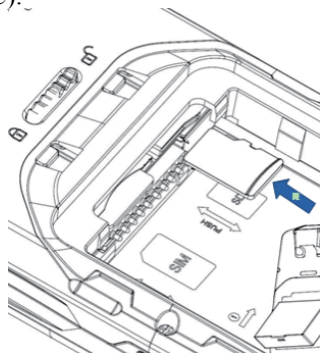


Figure1-5 Installing the SD Card

- Note:** 1. PSAM card is not supported.
2. The device does not support the card hot plug, please reset after accident hotplug.

1.3 Installing the battery

- Slide the battery cover switch to the right side to unlock
- Pull out the battery cover

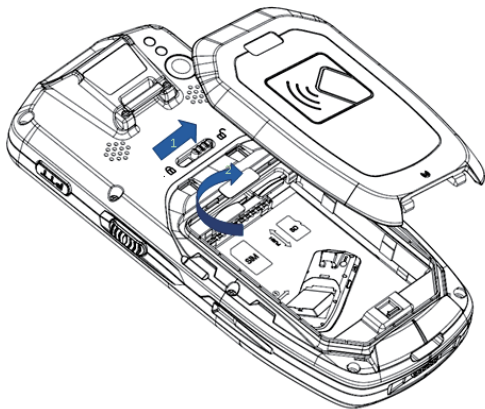


Figure1-6 Remove the battery cover

- Install the battery into the battery cassette at a right angle.
- Please make sure the battery is well connected and press it down.

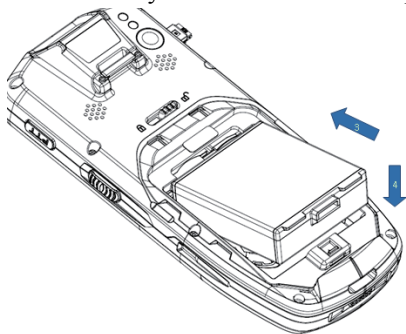


Figure1-7 Install the battery

- Slide the battery lock upward to lock the battery.

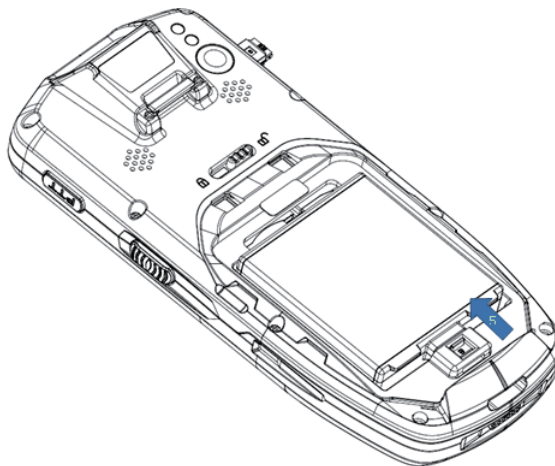


Figure1-8 Lock the battery

- Put the battery cover back right into the slot.
- Press it downward and lock the cover.

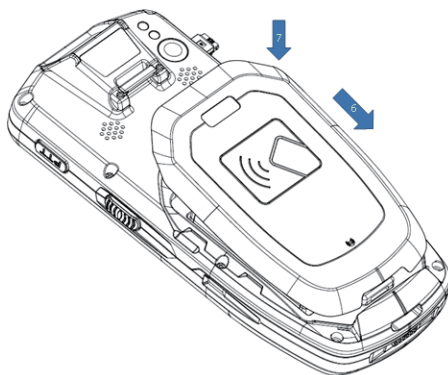


Figure1-9 Put the battery cover back

- Slide the lock to the left side to lock the battery cover.

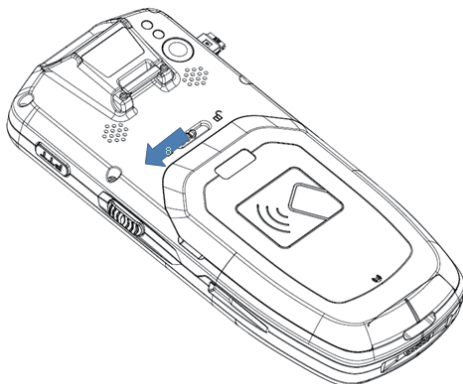


Figure1-10 Lock the battery cover

- To be transported or to be spared for a long time, please remove the battery and store the device and the battery separately.

1.4 Removing the battery

Removing the battery follow the instruction as below:

- Slide the battery cover lock to unlock (the right side)
- Remove the battery cover.

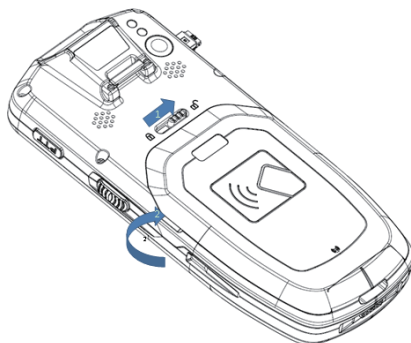


Figure1-11 Remove the battery cover

- Slide the battery lock downward to loose the battery

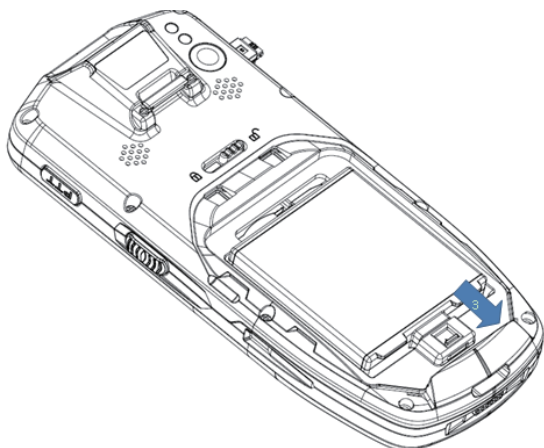


Figure1-12 Unlock the battery

- Remove the battery

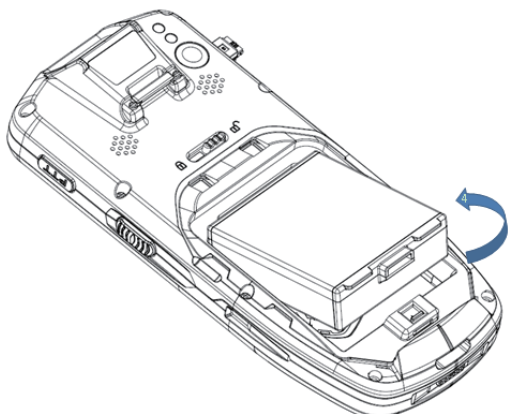


Figure1-13 Remove the battery

Chapter 2 Charging the Battery

Since the battery only has a small amount of power for testing when it leaves the factory, so please charge it before using it. The IPDA074 series device can also be charged with USB cable, device charging dock and specified extended interface charging cradle.

2.1 Charging time

- Battery: It takes about 3.5 hours to charge the battery for the first time through the adapter. The LED light will stay red when charging, and when the battery is full, the LED light will start to stay green.

2.2 Charging temperature

- The best operating temperature is room temperature 18~25℃. The battery cannot be charged with the temperature lower than 0℃ or higher than 50℃.
- The battery cannot be charged with the temperature lower than 0℃ or higher than 50℃.

2.3 Battery power supply

- Using WI-FI service or data collection program will consume more battery power than normal, please keep them off to save power when you are not using the internet.
- In order to avoid any inconvenience, it might cause you for battery depletion, having a backup fully charged battery or connect the device with power supply while working are highly recommended.
- **Note:** If you do not use the product for a long time, please charge the device at least once every two months.

2.4 Notes for battery use

- If the new device does not turn on, please make sure the insulation sticker on battery has been removed.
- If the battery is completely discharged, the device can't be turned on immediately. This is a normal phenomenon. Allow the depleted device to be charged for a few minutes before power it on.

- The battery can be charged repeatedly, but the battery is a consumable product. Please replace a new battery if you find the device's standby time is greatly reduced.
- Battery charging time changes with temperature and battery usage. Please charge it at a reasonable temperature range.
- When the battery is in low power, the device will give a low-power warning. When the battery power is too low, the device will automatically shut down.

2.5 LED Indicators

The LED indicator, in the middle of the top right of the device, indicates the battery and charging status by flashing different colors:


- Without the insertion of USB and charging adapter, the red light flashes to indicate that the battery power is too low, please charge it in time;
- With insertion of USB cable and charge adapter, long bright red flashes to indicate that the battery is under charging.
- With insertion of USB cable and charge adapter, long bright green flashes to indicate that the battery is fully charged.
- If the LED indicator on the right side of the device flashes blue just like the breathing light, it indicates that there's an unread message. Please check it in time.

When a bar code is successfully read, the LED indicator flashes red once. Otherwise, there won't be any LED flash.

Note: When the system is in charge, the blue indicator light will not be on.

Chapter 3 Typical applications introduction

3.1 Scan tool

1. Find this icon , tap it to enter the interface shown below and invoke the scan function.

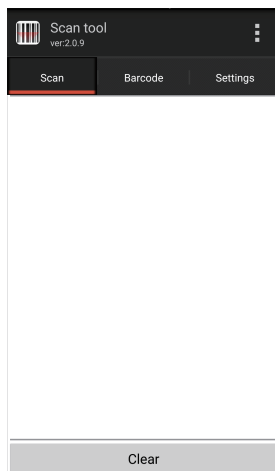


Figure3-1 Home screen of scan tool

2. Select Barcode and enter the barcode type setting interface. Set the barcode type you need.

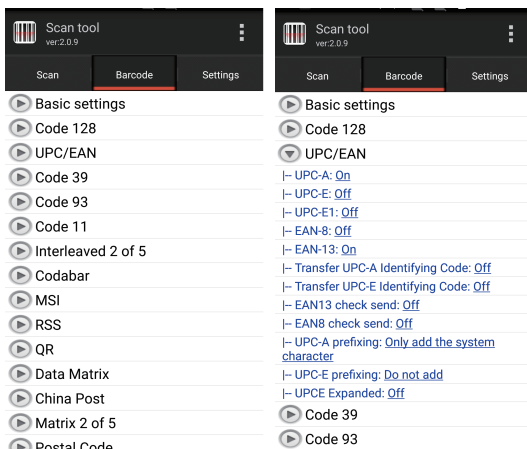


Figure3-2 Barcode

3. Open the basic settings to set the parameters including Duration, Scanning angle, Time-out, Continuous scan, etc.

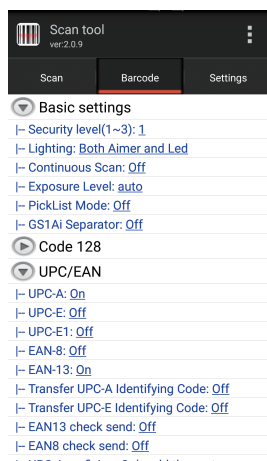


Figure3-3 Basic settings

4. Open Application Settings to set the basic scan switches:
- ❶ Sound: Give you a voice prompt while scanning.
 - ❷ Scan light indicator: The red indicator will light up after successfully decoding once the function is activated.
 - ❸ Vibrate: Give you a vibration tip while scanning.
 - ❹ Append: Continuously output barcodes.
 - ❺ Auto clear: Automatically clear the last barcode before the next barcode scanning starts.
 - ❻ Booted start: Automatically turn on the Scan tool when booting up.
 - ❼ Show type: Display the barcode type while scanning.
 - ❽ Filter invisible char: To filter the invisible char in barcodes.
 - ❾ Filter pre/suffix blanks: To filter the blanks when it's as prefix or suffix.
 - ❿ Stop scan on up: Loosen scan button and the scan lighting immediately turns off, or press scan button and the scan lighting continues for a certain time range (set Scan duration) before turning off.

- ❶ Loop count: To count and display the scan loops and sum the successfully decoded or undecoded barcodes.
- ❷ Loop scan: Automatically scan barcode continuously. if switch on continuous lighting mode in Basic settings and then scan with continuous lighting.
- ❸ Interval: Set time delay between two scans.
- ❹ Restore the barcode default settings: you can restore the barcode default settings, as shown in Figure 3-5.
- ❺ Barcode suffix: Add barcode output suffix on your own (They can be numbers, letters, special characters, etc.).
- ❻ Barcode prefix: Add barcode output prefix on your own (they can be numbers, letters, special characters, etc.).
- ❼ End Char: you can choose the barcode to end the output, including: Enter, Tab, Space, None.
- ❽ Code character: To select the output code character of the barcode, including AutoDetect, Raw, GBK, GB2312, UTF8, BIG5, SJIS, EUC_JP, ISO8859_1, and by default as AutoDetect
- ❾ Barcode Send Mode: Select Focus, Broadcast, EmuKey or Clipboard to send (Emukey needs the input which supports the hard keys), as shown in Figure 3-6. End Char can be selected to send over keys in the focus input mode.
- ❿ Developer: Input password 888888 and then developer options can be modified (not recommended).

Note: The advanced interface entry password is 4007770876 .

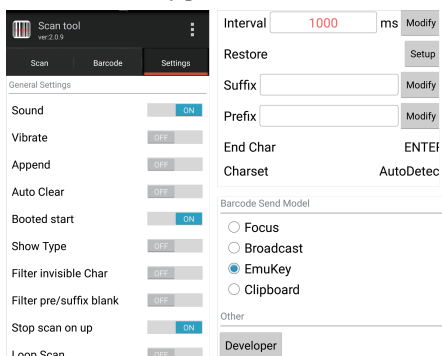


Figure3-4 Applications settings

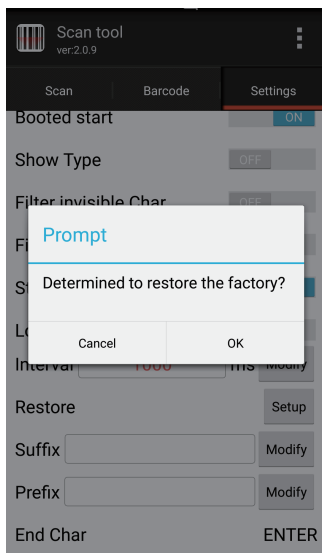


Figure3-5 Restore barcode default setting

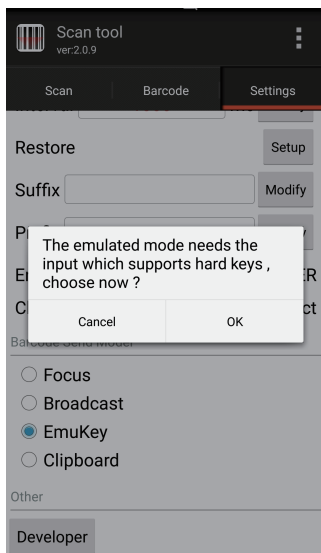


Figure3-6 EmuKey settings

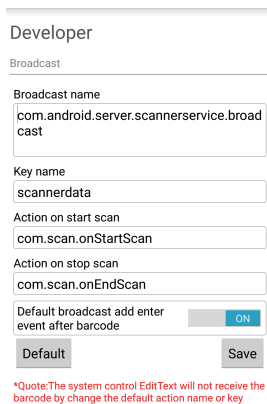
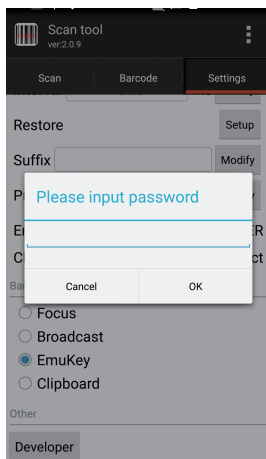


Figure3-7 Developer

5. Hide and Exit applications

- 1 Tap Hide: the application will run in the background and scanning can be enabled by pressing the scan button on any editing interface.
- 2 Tap Exit: exit and close the application.

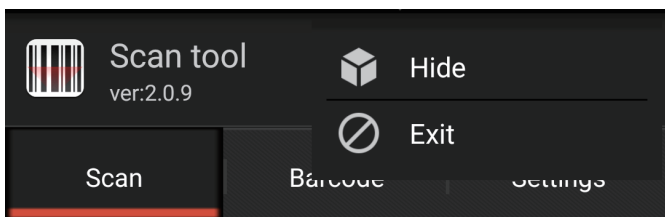



Figure3-8 Hide and Exit

3.2 Mobile butler

This application is designed for the customers to set up access rights of Android portable terminals according to their own needs and to prohibit users from accessing non-designated applications.

1. Go to Settings  -->then to Application and Notification, and then the Default Application to Home Screen Application, tap to select Mobile butler as shown in the figure below:

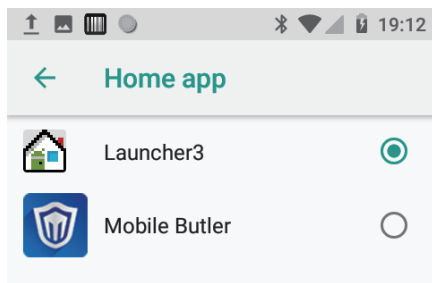


Figure3-9 Default launcher setting

2. Administrator settings and change password

- ❶ Open the application and briefly press Menu button to add items to the desktop.

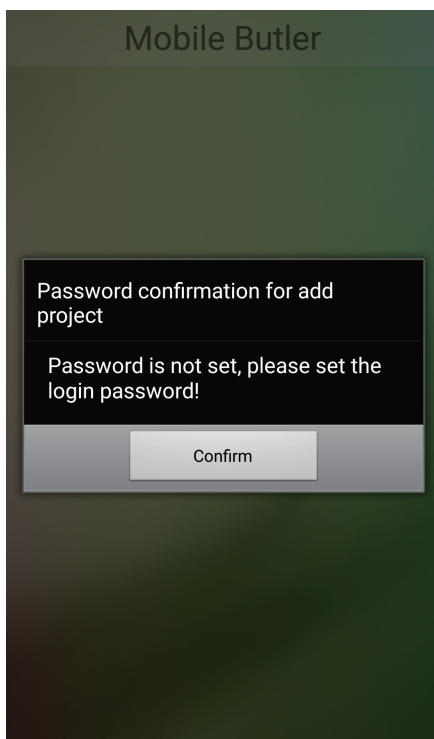


Figure3-10 No password set interface

As shown in the figure above, the administrator password is not set. Please tap Confirm to enter the password set interface as shown below:

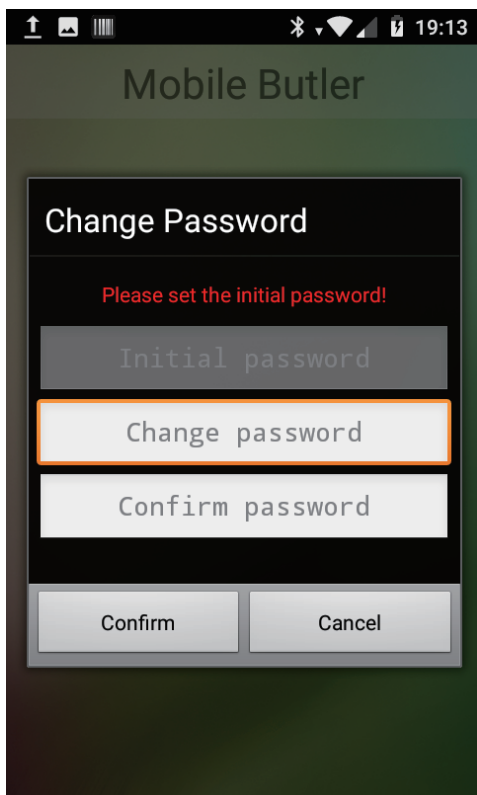


Figure3-11 Initial password setting

Et the administrator's initial password as required, e.g. 123456, then tap confirm to complete the setting.

Note: Please do not leave the password empty, and the newly-set password shall be same as it in the double check input text.

❶ Briefly press the Menu button again, as shown in the figure below:

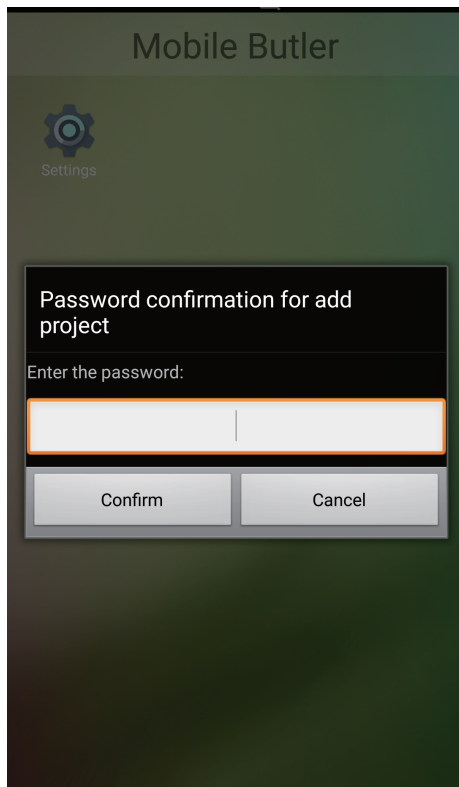


Figure3-12 Password input interface

Enter the administrator password (123456). You can pass the verification and then enter the interface in the figure below:

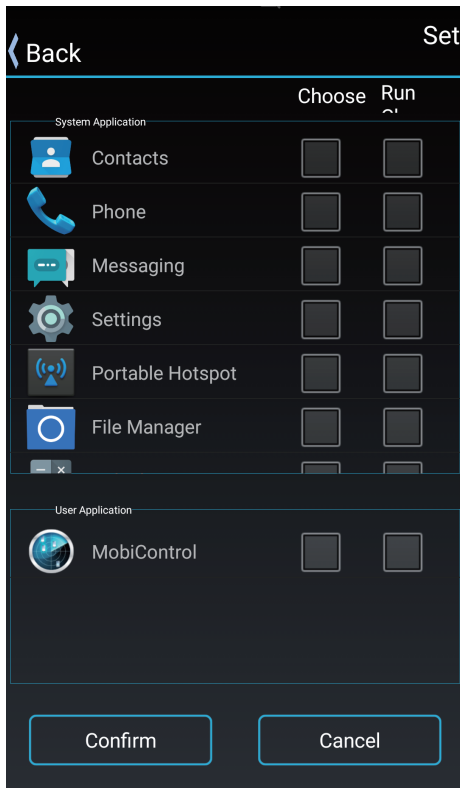


Figure3-13 Application adding interface

Select an application to add to the desktop and tap to complete. Add an application to Automatically On when power on and the application will be automatically enabled when the device boots up (**Note:** Automatically on function currently only supports one application), as shown in the figure below:

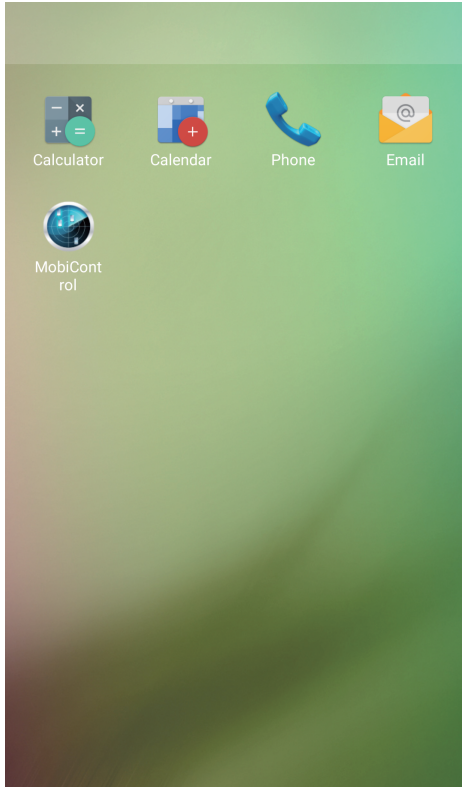


Figure3-14 Home screen of Mobile butler

② Administrator: change password

Input the correct password and tap Settings to enter the Set interface. Tap Change password and then the corresponding interface will pop up:

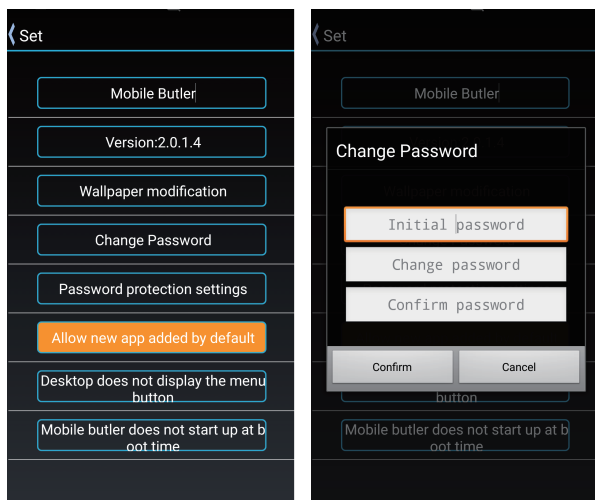


Figure3-15 Change password

③ Administrator: Change name

Enter the set and you can change the name of Mobile butler.

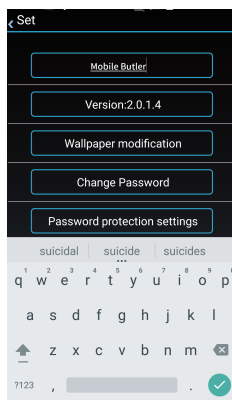


Figure3-16 Change name

3. Wallpaper modification

Go to Settings, and then tap Wallpaper modification, as shown in the figure below, and the wallpapers will be stored in the path as: Internal Storage/Pictures, and Album will be stored in the path as: Internal Storage/DCIM/Camera

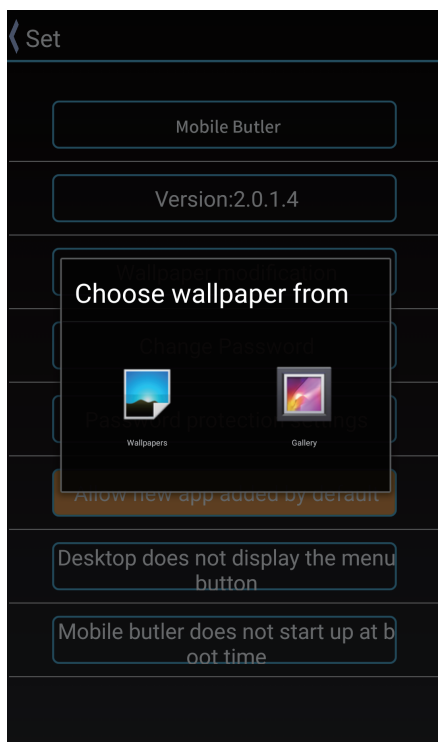


Figure3-17 Wallpaper modification

❶ Password Protection

To set password protection questions as shown below:

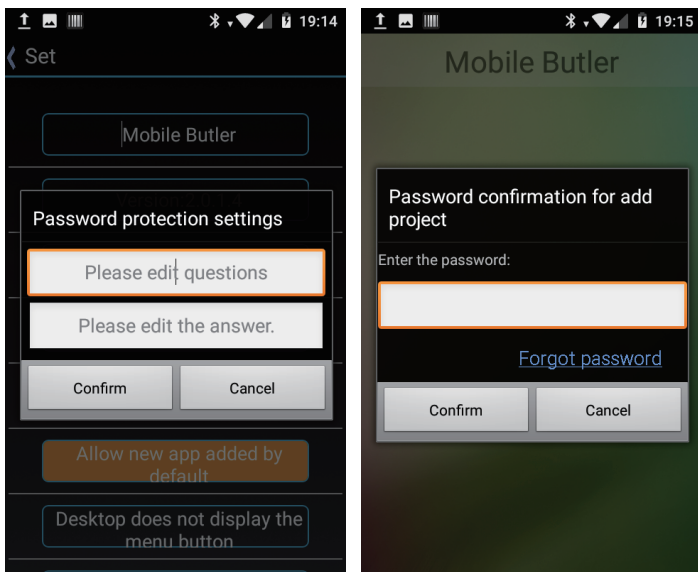


Figure3-18 Password protection setting

The left picture is the interface on which set the password protection question, after setting, the Forgot Password option will show on the password verification interface as shown in the right picture, please set a new password to activate the protection setting.

- ❷ Allow adding new application by default/Prohibit adding new application by default.

If the user chooses to allow adding new application by default, all the installed apps in Mobile butler will display on desktop of Mobile Butler, otherwise they will not show on the desktop.

Note: The upgraded apps do not account as New applications.

- ❸ Display Menu Key on the desktop (in the shape of three dots)

It's to control whether to show the Menu Key on the desktop. When it's on, the Menu Key will show on the desktop, and the Setting and Exit are shown as below:

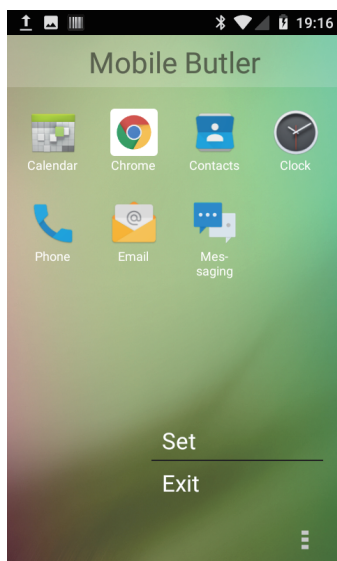


Figure3-19 Menu key setting

Setting: Verify the password to enter into Mobile Butler.

Exit: Exit from Mobile butler to the original launcher of the system by default. (First entrance into Mobile Butler will show the default launcher by default)

- ④ Mobile Butler Automatically on when Power On This setting is to control whether use Mobile Butler as the default launcher. If Mobile Butler is not set to automatically on, the Launcher will be the original system Launcher. If Mobile Butler is set as automatically on, Mobile Butler will be set as Launcher by default.

3.3 Quick configuration

3.3.1 Import

1. Import file

You need to place the configuration compressed package in a specific directory of the external SD card. External SD card system path is: SD card/SysSetting/Setinfo.tar.gz.

Manually import:

- ❶ Place the configuration compressed package (File name is Setinfo.tar.gz) in the SD card/SysSetting directory, as shown in the figure below:

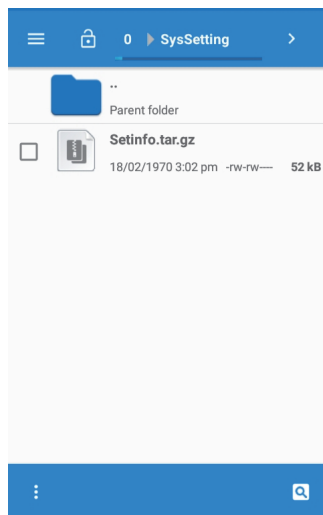


Figure3-20 Configuration compressed package directory

- ❷ Enter the Once configure and tap Import file. The following prompt will pop up and tap OK;

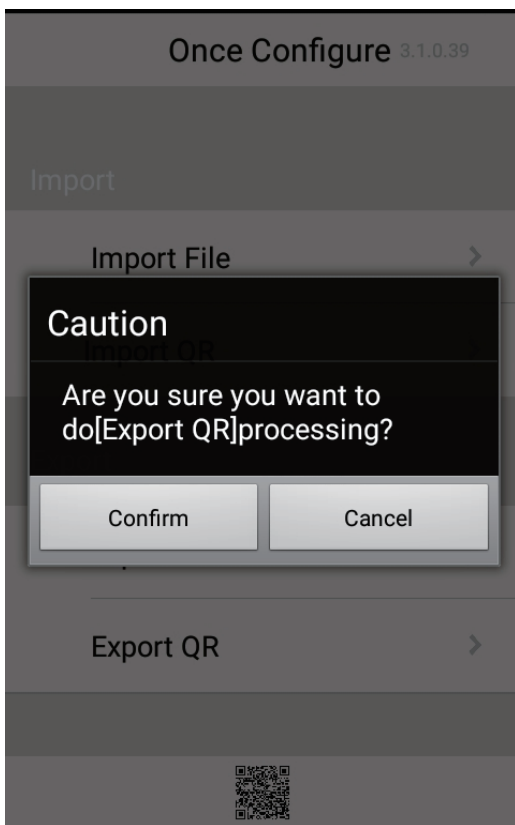


Figure3-21 Import file

- ③ After the success of the import, the items and status of the file imported will pop up. Tap Confirm and then tap Restart now when you are prompted (Some configuration will not take effect immediately without restarting the device).

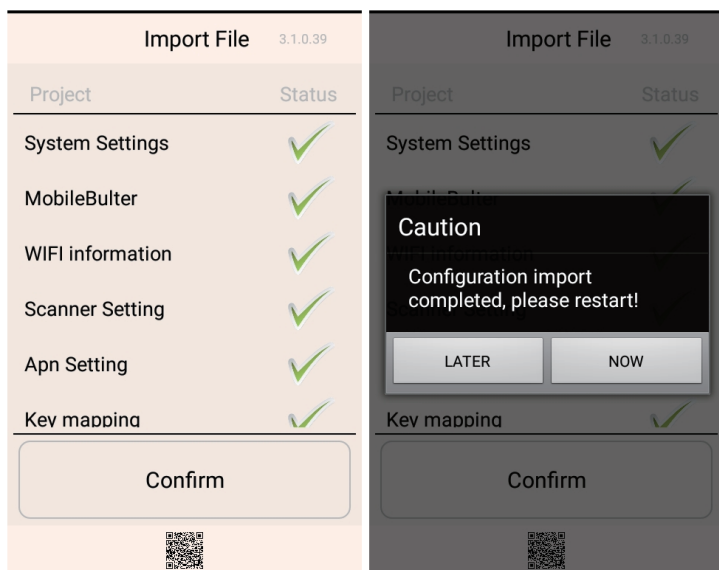


Figure3-22 Successfully import file configuration

3.3.2 Export

1. Export File

This feature allows you to export all the configuration items of the device in Once configure to the specific directory of the external SD card. The name of the exported file is Setinfo.tar.gz and the export path is:

(A)External SD card/SysSetting (B)Internal SD card/SysSetting

If external SD card is available, the file export is given priority to the external SD card.

- 1 Enter Once configure and tap Export file. The following popped-up interface indicates the success of export.If there are configuration files in the external SD card, you will be prompted when exporting them and the original files will be covered when you re-import them:

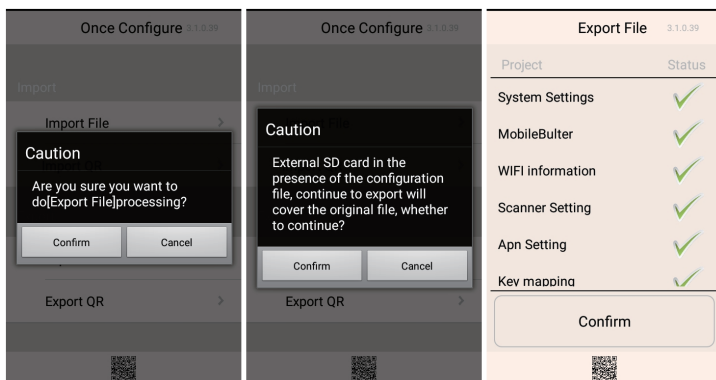


Figure3-23 Export file

- 2 The file exported name is Setinfo.tar.gz, and you can view it in SysSetting/external (internal) SD card/File manager:

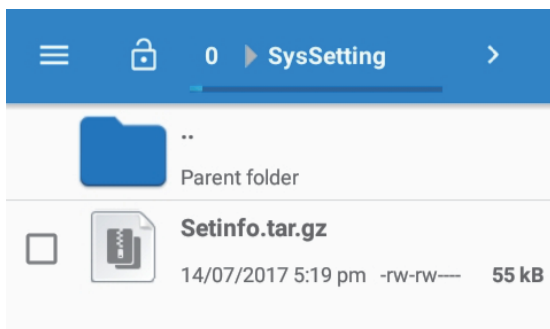
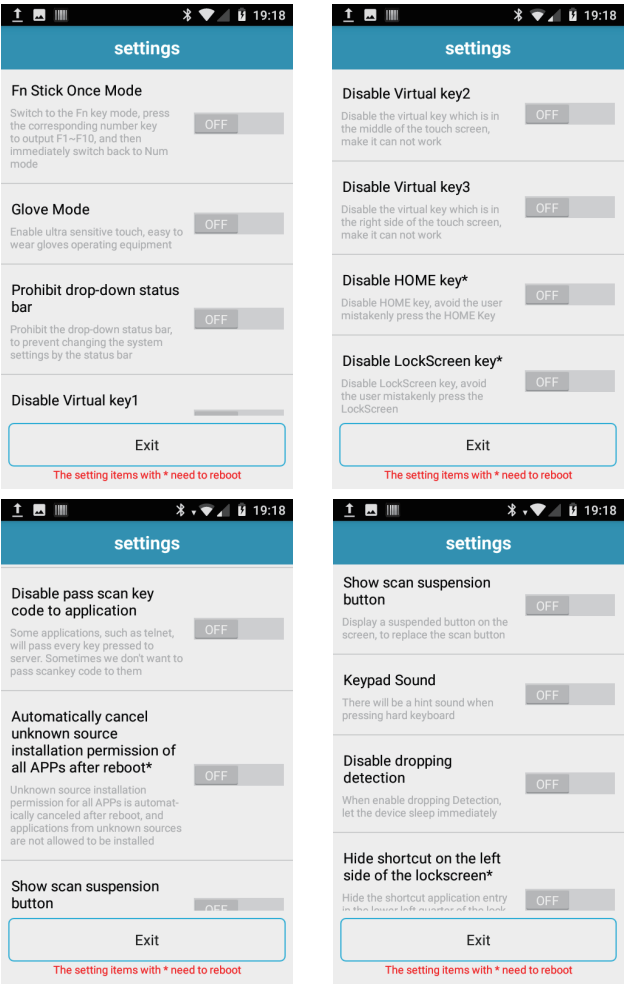


Figure3-24 Export file path

3.4 Features setup

This application is designed for the customers’ special needs to quickly access the features they want to use.



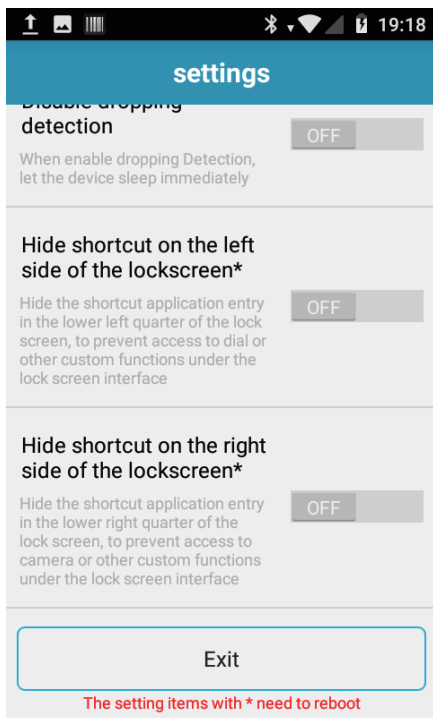


Figure3-25 Features setup

❶ Fn Key Stick Once Mode

With this feature off, when press Fn and the Fn indicator light up, press the blue button, including 0 to 9, or #, to output F1 to F10 and *, Fn Key can continuously be pressed to output.

With this feature on, when press Fn button and Fn indicator will light up, press the blue button, including 0 to 9, or #, to output F1 to F10 and *, Fn Key cannot continuously be pressed to output, every output will switch to Num key automatically.

② Glove mode

This feature is designed for the customer to use the device with gloves on by increasing the sensitivity of the touch screen.

③ Prohibit drop-down status bar

This feature is turned on.

It takes effect immediately and drop-down status bar is disabled.

This feature is turned off.



It takes effect immediately and drop-down status is enabled for operation.

④ Prohibit the virtual key 1

With this feature off, the left bottom Menu key is enabled for operation.


With this feature on, the left bottom Menu key on the screen is disabled.

⑤ Prohibit the virtual key 2

With this feature off, the  Home virtual key is enabled for operation. With this feature on, the  Home virtual key on the screen is disabled.

⑥ Prohibit the virtual key 3

With this feature off, the right bottom  Back virtual key is enabled for operation to back to the last interface.

With this feature on, the right bottom  Back virtual key on the screen is disabled.

⑦ Prohibit passing the key value of Scan button to the application

With this feature off, in some cases, prohibit applications, such as the Telnet, from passing all key values to the server.

With this feature on, some applications, such as the Telnet, will pass all key values to the server.

⑧ Show the Scan Floating Action button

With this feature on, there will be a floating action button on the screen substitute for the scan button.

⑨ Hard keyboard sound notification

Turn on this feature, press the keyboard will be notified by sound.

⑩ Prohibit dropping detection

With this feature off, after being dropped, the device will enter into sleep mode automatically.

With this feature on, after being dropped, the device will not enter into sleep mode automatically.

⑪ GetDeviceid() interface mandatory return to IMEI

Generally, getDeviceid() interface will return to IMEI or MEID in according to different network operators. With this feature on, it will return to IMEI mandatorily.

3.5 Certificate Whitelist

This software is used to add the specified digital certificate to the whitelist. Applications signed with the digital certificate in the whitelist are allowed to be installed directly without opening the system item "Unknown Source". The application password is: 4007770876.

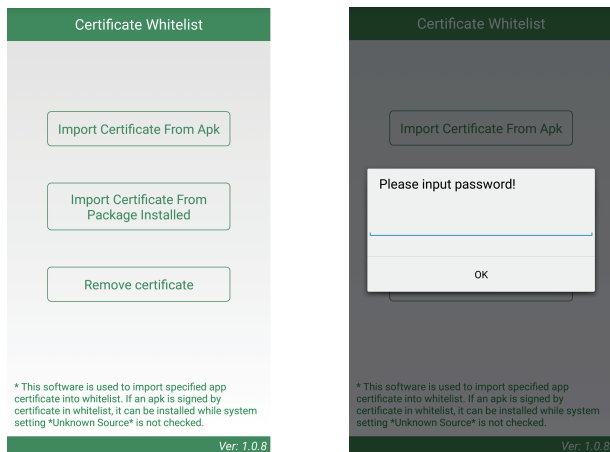


Figure3-26 Certificate Whitelist

❶ Import Certificate From APK

The application will search for all APK files within the directory of the internal storage, and display the file name and its directory. After ticking the single or multiple display items, users can tap Import to import the certificate into the system.

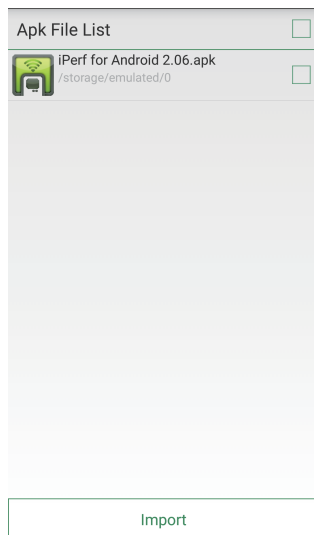


Figure3-27 APK File List

❷ Import Certificate From Package Installed

The application will display the installed third-party APP name and its package name in the system. After ticking the single or multiple display items, users can tap Import button to import the certificate in the selected APK file into the system.

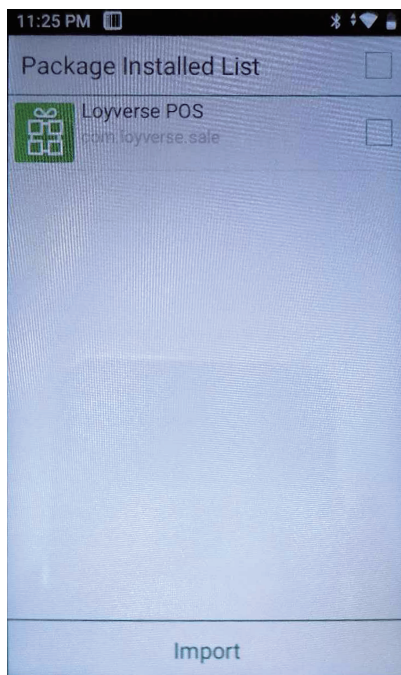


Figure3-28 Package Installed List

③ Remove certificate

The application will display the name of the added certificate. Tick the single or multiple display items and tap Remove to remove the corresponding certificates from the system whitelist. The display items that are gray and have no check boxes are the system default certificates, and they can't be deleted.

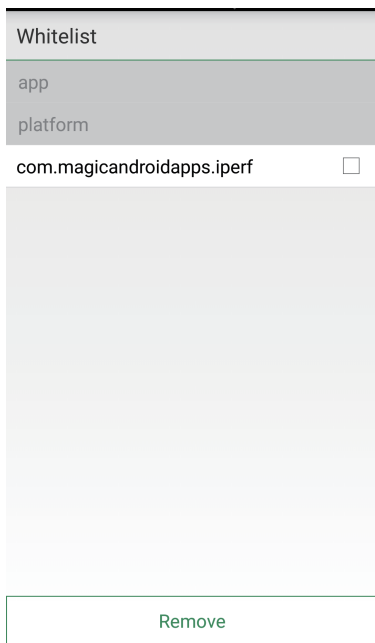


Figure3-29 Whitelist

Note: The added certificate will be named with the APP's package name.

For certificates with the same contents and different names, only one record is saved and the name is saved with the first record name.

3.6 Shortcut Key settings

This application is used in the ShortCut Key settings (Fn), which is convenient for customers to quickly access frequently-used applications.

- ❶ Find this icon , and enter ShortCut Key set interface;



Figure3-30 Home screen of ShortCut Key settings

- ② ShortCut Key settings: tap the Fn key (such as: F2) to enter the settings interface, as shown in the figure below:

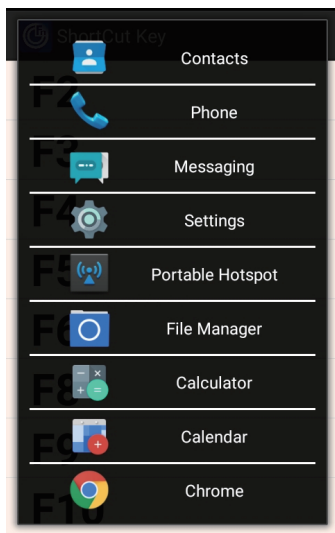


Figure3-31 Add ShortCut Key interface

Select the corresponding application, as shown in the figure below:


 ShortCut Key		P1
F2	Phone	P2
F3	Gallery	P3
F4		P4
F5		P5
F6		P6
F8		P7
F9		
F10		

Figure3-32 Successful ShortCut Key settings

- ③ Unregister hot key: hold and press Fn key (such as: F2) and the following interface pops up:

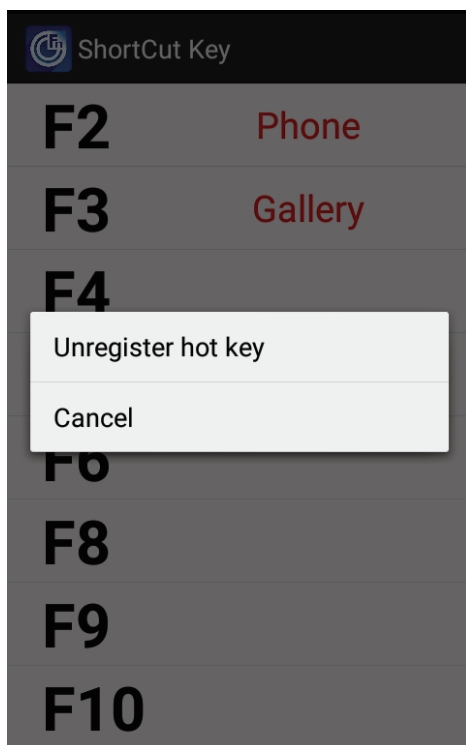


Figure3-33 Unregister hot key

Tap Unregister hot key and you can cancel the hotkey settings.
Tap Cancel, and then exit the Unregister hot key interface.

- ④ Use Shortcut keys: switch the keyboard mode into Fn Key mode, and with Fn button light on, press F2-F10 on the keyboard.

Chapter 4 Troubleshooting

❶ When pressing the power button, the IPDA074 does not turn on.

Cause 1: The insulation label on the battery has not been removed.

Solution: Remove the insulation label on the battery.

Cause 2: Critically low battery level or the battery is completely discharged.

Solution: Fully charge the battery or Replace the battery.

Cause 3: The battery may not be seated properly.

Solution: Insert the battery properly.

Cause 4: System crash.

Solution: Long press the power button to force a restart.

❷ The rechargeable battery did not charge.

Cause 1: Battery failed.

Solution: Replace the battery.

Cause 2: Battery temperature is too high or low.

Solution: Put the battery at room temperature.

❸ No sound.

Cause 1: Volume setting is low or turned off.

Solution: Adjust the volume.

❹ The IPDA074 shuts off.

Cause1: The battery is completely discharged.

Solution: Charge or replace the battery.

❺ The IPDA074 does not decode with reading bar code.

Cause 1: Scanning application is not loaded.

Solution: Load a scanning application on the IPDA074.

Cause 2: On the bar code settings or application settings interface.

Solution: Set the scan application to the scan interface, or hide the scan application.

Cause 3: Unreadable bar code.

Solution: Set the scan application to the scan interface, or hide the scan application.

Cause 4: The barcode decoding function is not enabled.

Solution: Enter bar code settings and enable the corresponding decoding function.

Cause 5: The brand-new is not programmed for this bar code.

Cause 6: Distance between exit window and bar code is incorrect.

Solution: Place the IPDA074 within proper scanning range.

⑥ IPDA074 can't find any Bluetooth nearby.

Cause 1: Too far from other Bluetooth devices.

Solution: Move closer to other Bluetooth devices, within a range of 10 meters (32.8 feet).

Cause 2: The Bluetooth nearby is not turned on.

Solution: Turn on the Bluetooth devices.

Cause 3: The Bluetooth devices is not in the indiscoverable mode.

Solution: Set the Bluetooth devices to discoverable mode.

⑦ AP can't be connected.

Cause 1: Show “Authentication failed”.

Solution: WLAN password is incorrect.

⑧ The camera can't be launched.

Cause 1: A message appears stating “Memory is full.”

Solution: Exit USB storage mode.

Cause 2: A message appears stating “SD card storage is full.”

Solution: Clear internal storage or switch the storage location.

⑨ Mobile network can't be connected.

Cause 1: Data is not turned on.

Solution: Go to Settings and then enable Mobile network.

Cause 2: Network mode is incorrect or SIM card not registered error.

Solution: Go to Settings and then select the correct Network mode.

Cause 3: SIM card arrears.

Solution: Timely recharge your SIM.

