MACTRON GROUP

AutoTRON

MAA1013

User's Manual

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Revision History

The revision history of MAA1013 User Manual is described below:

Version No.	Revision History	Date
1.0	Initial Release	2024/08/14

Thank you for choosing MACTRON Tablet

This instruction serves to enable users to get to know our product as soon as possible. Here we have made a brief introduction to the key layout and definitions in figures and words. And a brief explains for the basic operating functions.

Attention:

1. The instructions in this guide refer to the Android system. If you are using other operating systems, some operations may be slightly different.
2. The instructions describe the general functions of most models. Your computer may not have some functionality, or some features on your computer are not described in the manual.
3. This instruction applies the following models: MAA1013 rugged tablet.
4. The illustrations in this instruction may be different from the product itself.

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1. Getting Started

Thank you for purchasing our MAA1013 products! To help you get familiar with the product faster, please refer to the user manual if you have any problems during use. This document mainly introduces the interface and system usage instructions of the rugged tablet MAA1013 and helps you quickly understand the use of the product through the picture instruction. If you have any insoluble problems during use, please contact our technical personnel to deal with them.

1.1. Packing List

After unpacking the shipping carton, you should find these standard items. If you discover any of the items listed below are damaged or lost, please contact your local distributor immediately.

- MAA1013 x 1
- Hand-Strap x 1
- AC Power Adapter x 1

1.2. Connecting to AC Power

CAUTION：Use only the AC adapter included with your Tablet. Using other AC adapters may damage the Tablet.

You must use power when starting up the Tablet for the very first time.

1. Open the Type-C port waterproof plug. (Place the tablet flat on the desktop, left position.)

2. Plug the Type-C power cord of the power adapter into the Type-C port of the tablet.
3. Power is being supplied from the electrical outlet to the adapter and onto your Tablet. Now, you are ready to turn on the Tablet.

1.3. Turning On and Off the Tablet

Turning On

Press the power button (⏻). The Android operating system should start.

Turning Off

When you finish a working session, you can stop the system by turning off the power or leaving it in Sleep or Hibernation mode:

To…	Do this…
Power off (Shutdown)	Click [⏻ **Power**]→[**Power Off**].

2. Product Information

2.1. Specifications

Display	
Display Type	10.1" IPS TFT LCD
Resolution	1280 x 800 1920 x 1200 (Optional with MOQ)
Aspect Ratio	16:10
Brightness	700 nit
Touch Panel	10 Points Projected Capacitive Touch
System	
Processor	MTK MT6789 Processor
Memory	8 GB
Storage	128 GB
I/O Ports	1 x USB 3.0 Type A 1 x USB Type C 1 x 3.5mm standard earphone jack 1 x TF slot (Max.128GB) (SDHC/SDXC) 1 x SIM slot 1 x DC jack 1 x 12pin POGO pin 1 x LAN Port (Optional COM (RS232) or USB2.0 Type A with MOQ)
Operating System	Android 12
Physical	
Camera	Front Camera: 5.0 MP Rear Camera: 13.0 MP
Speaker	2 x 0.8W
Color	Black
Dimensions (WxHxD)	274.9 x 188.7 x 23.1 mm
Weight	1140 g
Button	1 x Power On/Off 1 x Volume + 1 x Volume - 1 x Home 1 x Custom

Sensor	1 x G-sensor
Battery	10,000 mAh/3.8 V (Removable)
Using Time	9 hrs (Default 50% Volume, 200 nits, Play 1080 HD Video)
Power Adapter	9V / 2A
Communication	WLAN - 802.11 a/b/g/n/ac, 2.4GHz/5.8GHz WWAN - 4G Bluetooth 5.2 GNSS - GPS, GLONASS
Security	TPM 2.0
Data Collection	NFC Barcode Scanner (Optional)
Standard Accessory	1 x Hand-strap 1 x Power Adapter
Environment	
IP Rating	IP65
Drop Test	1.22 m
Certification	MIL-STD-810H
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Relative Humidity	95% (non-condensing)
Warranty	2 Years

2.2. Product Overview

Note: Depending on the special model you purchased, the look and colour of the device may be different from the graphics shown in this manual.

Note: Please open the waterproof plug before using the ports or device. When not using ports or device, please completely cover the waterproof plug to isolate water and dust.

Front View

Rear View

Top View

Bottom View

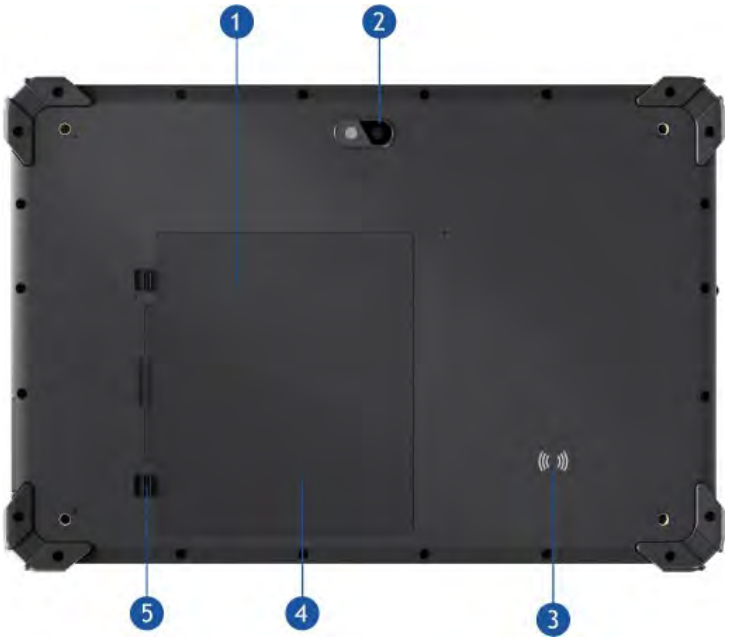
Side View

2.3. System Configuration

2.3.1. Front Components

Ref. No.	Component	Description
❶	Camera	5MP, supports photograph and video.
❷	F Key	Scan key by default, for fast scan.
❸	HOME Button	Pressing the HOME button can switch back to the desktop.
❹	Volume Button +	Used to adjust and increase the volume.
❺	Volume Button -	Used to adjust or reduce the volume.
❻	Power Button	In shutdown mode, press and hold the power button to power on the device. In the startup mode, short press the power button to turn off the screen and wake up the screen, press and hold the power button to power off or restart the device, or urgent call for help

2.3.2. Rear Components



Ref. No.	Component	Description
❶	Battery cover	Protect internal battery.
❷	Camera	13MP, supports photograph and video.
❸	NFC Module	NFC recognition.
❹	TF/SIM card slot	Insert TF cards and SIM cards. (Micro Sim + TF or Micro Sim + Nano Sim)
❺	Battery latch	Lock internal battery (Inside the battery cover).

2.3.3. Left-Side Components

Ref. No.	Component	Description
1	USB 3.0 Port	Connects a USB device.
2	3.5mm Earphone Jack	Connect the audio device.
3	USB Type-C Port	For charging or transmitting data through the data line.

2.3.4. Right Components

Ref. No.	Component	Description
1	Module Port	Supports an RJ45 network port (10/100M adaptive), one DB9 serial port (RS232), and one USB 2.0 port as options, with the RJ45 network port being standard by default.

2.3.5. Top Components

Ref. No.	Component	Description
1	Scan Window	This window is where the optional scan module can be installed. If the scan module is installed, the user can open notes, websites, scan apps, etc. (any place where a cursor can be used to input content). By pressing the F scan button, the scan window will emit a scanning light. Align the light with the barcode to scan and read the barcode data on the device.

2.3.6. Bottom Components

Ref. No.	Component	Description
1	Pogo Pin	Used to connect the docking charger, expand the USB port and charging port.

3. Operating Your System

This chapter provides information about the use of the Tablet.

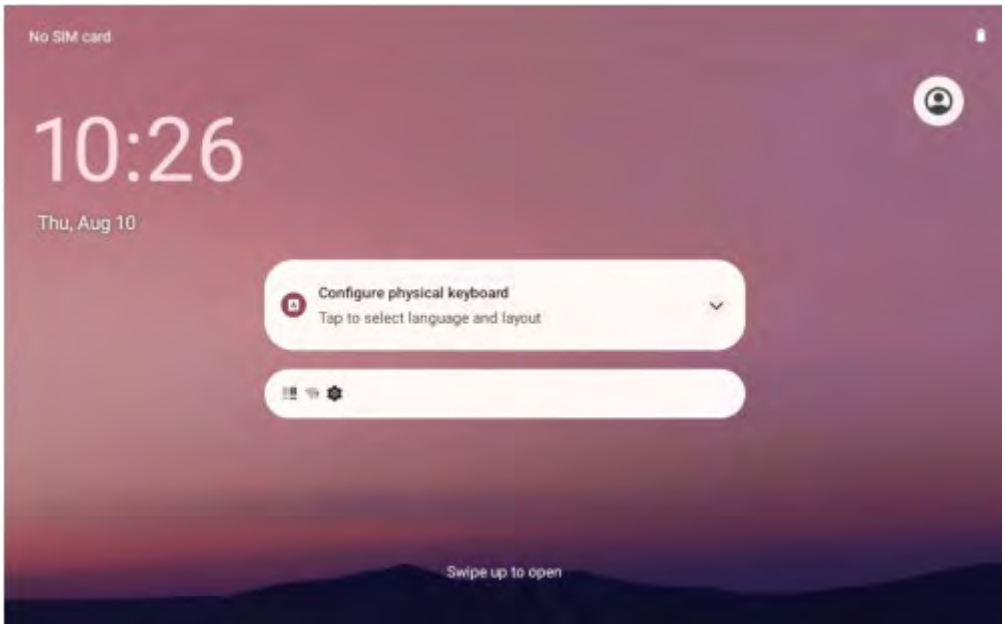
If you are new to Tablets, reading this chapter will help you learn the operating basics. If you are already a Tablet user, you may choose to read only the parts containing information unique to your Tablet.

CAUTION：

- Do not expose your skin to the Tablet when operating it in a very hot or cold environment.
- The Tablet can get uncomfortably warm when you use it in high temperatures. As a safety precaution in such a circumstance, do not place the Tablet on your lap or touch it with your bare hands for extended periods of time. Prolonged body contact can cause discomfort and potentially a burn.

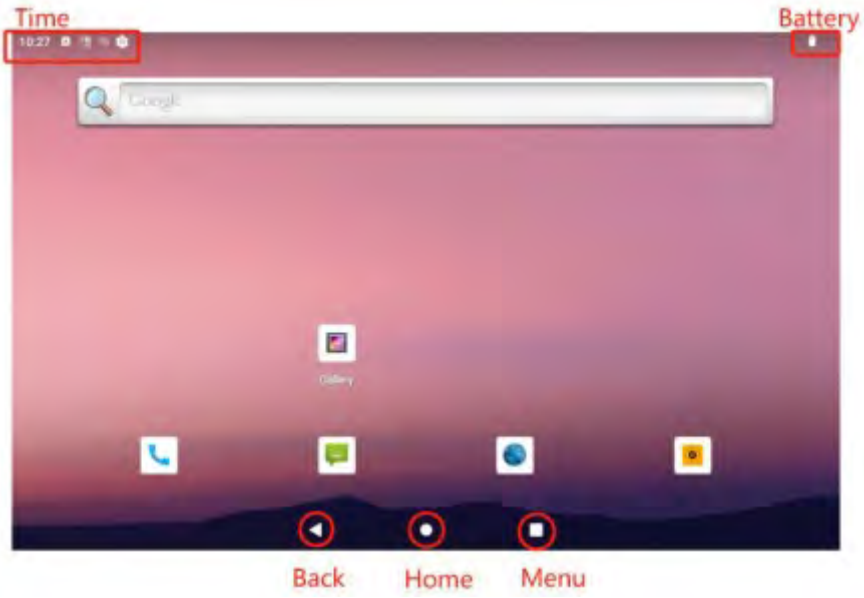
3.1. Display Layout

Swipe up to display, as shown in the following figure.



3.2. Display Menu Introduction

All applications are showed in here. In this interface, you can quickly start and operate the application.

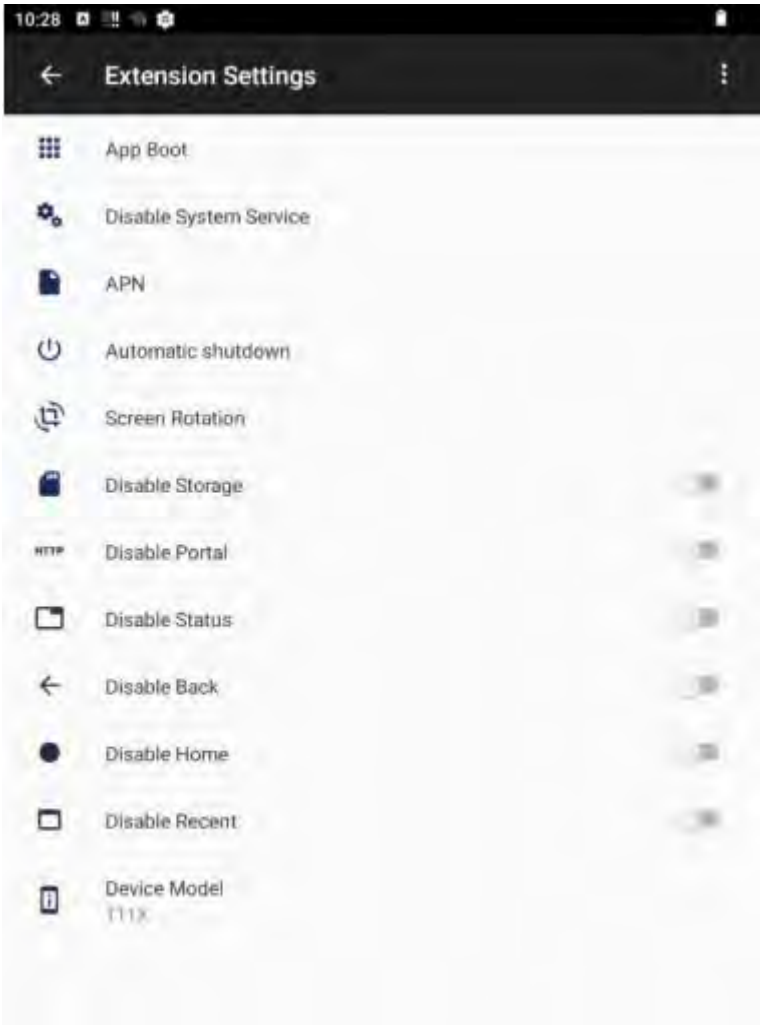


3.3. System Settings

Settings: Users can set the system in this interface.

3.4. Extended Settings

You can enable or disable various functions here.

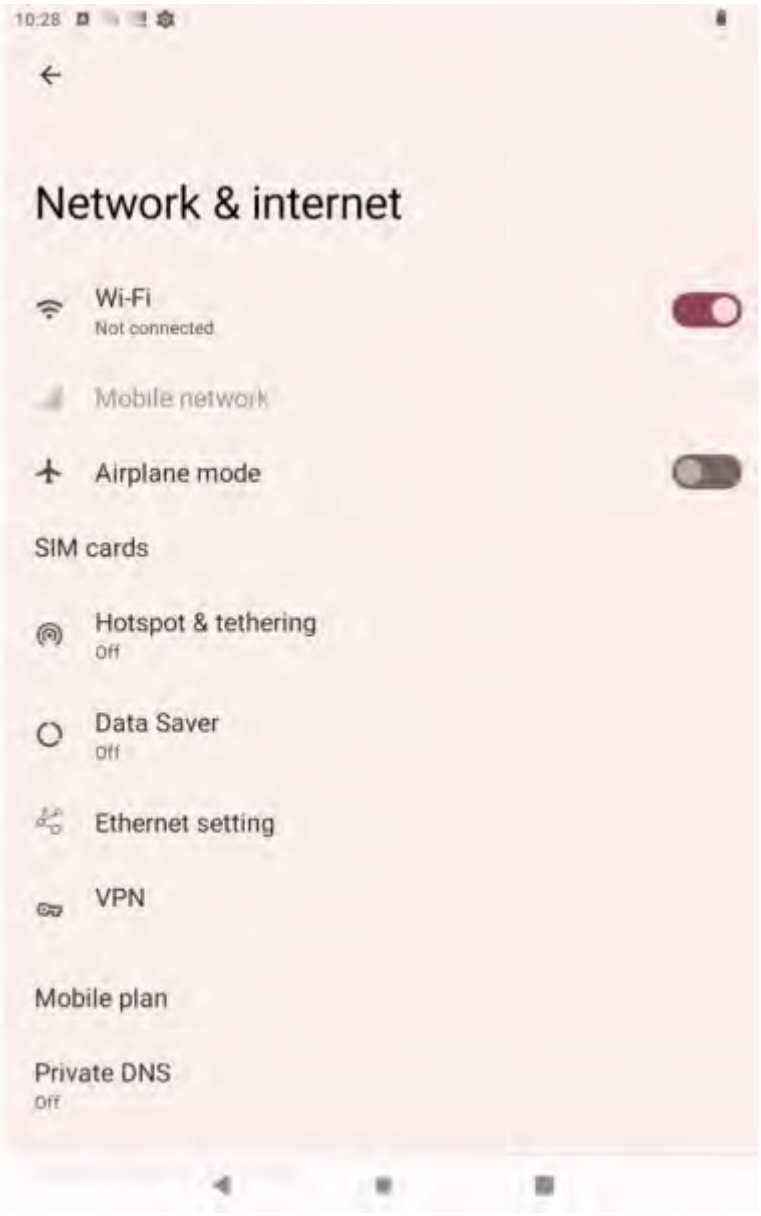


3.5. Network and Internet

You can set WLAN, mobile network, and Ethernet, query network traffic usage, hotspot, network sharing (support hotspot continuation), set SIM card, flight mode, VPN connection, and other functions in this interface.

3.5.1. Wi-Fi Settings

You can search for and connect to Wi-Fi networks, set Wi-Fi preferences, view saved networks, and check traffic usage in this interface.



3.5.2. Connected device

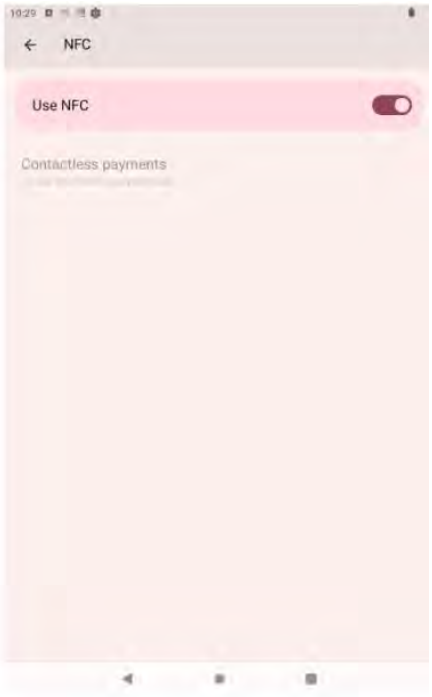
In this interface, you can set Bluetooth, NFC, projection, print, view files received by Bluetooth, and so on.

3.5.2.1 Bluetooth Settings

You can search and match Bluetooth in this interface.

3.5.2.2 NFC Settings

You can set the NFC function in this interface, which supports card reading and importing functions and touch payment.



3.6. OTG Management

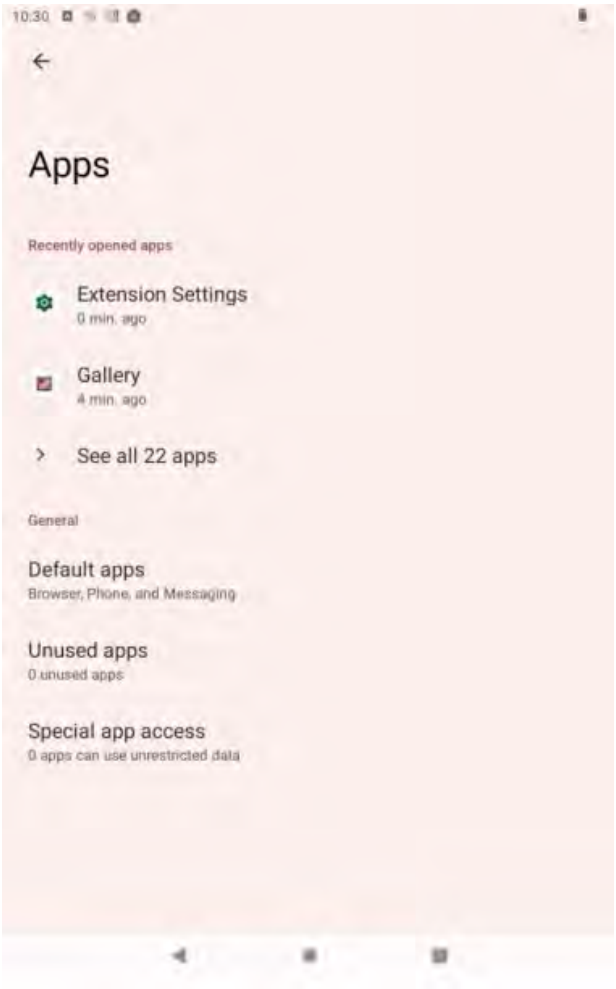
Turning this option on or off allows the device to switch the master/slave mode, read the USB flash drive and other USB devices, or connect to the PC.

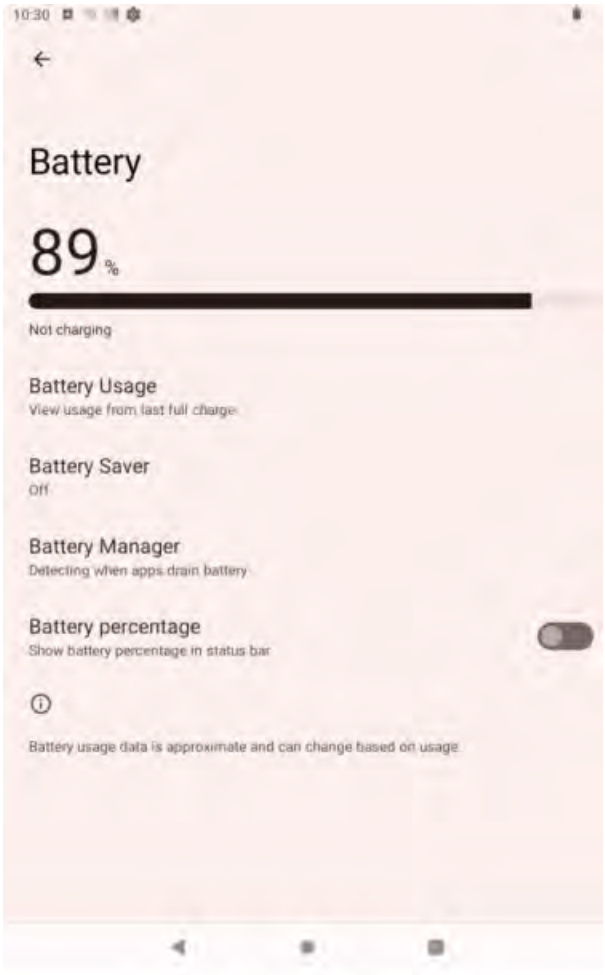
4. Applications and Notifications

You can view all applications, notification Settings, default applications, and permission management in this interface.

4.1. Battery

You can view the remaining battery power, the power saving mode, and battery power percentage in this interface.

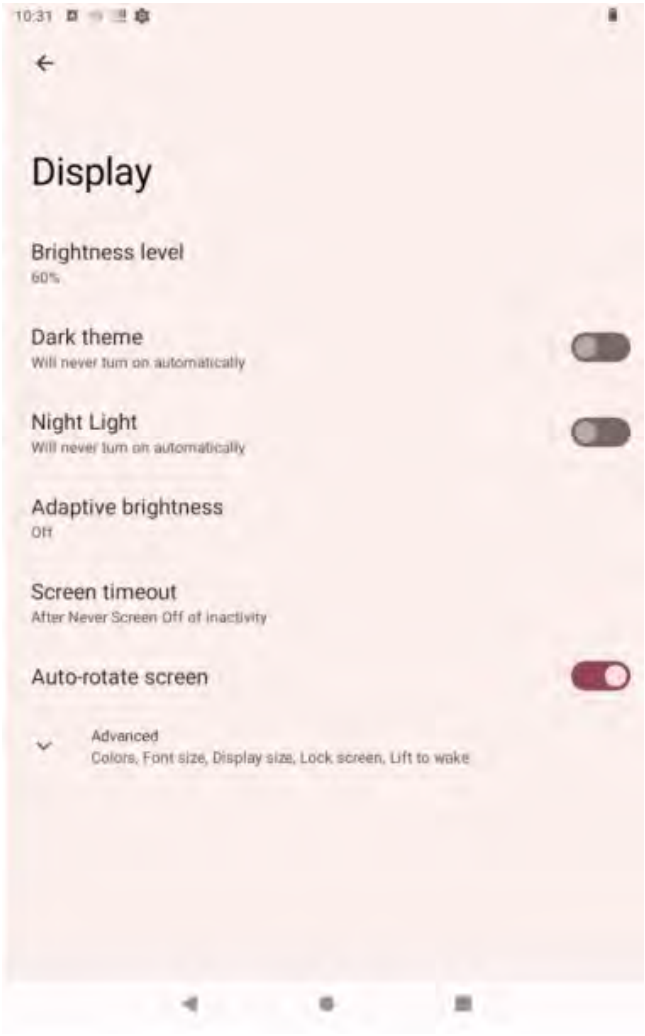




The adapter operates on any voltage in the range of 100~240V AC.

4.2. Display

In this interface, you can adjust the brightness, set night mode, wallpaper, dark theme, eye protection mode, automatic rotation screen, font size, display size, and screen saver, lock the screen, and wake up the device when picking it up, and other functions.

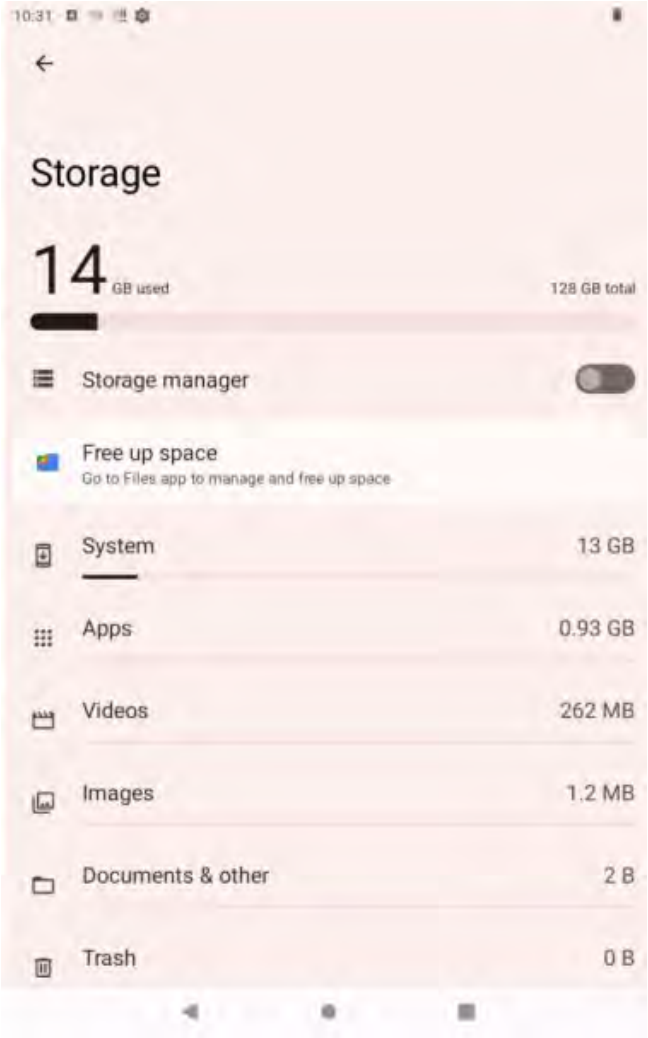


4.3. Volume

You can set the media volume, call volume, ringtone volume, alarm volume, incoming call vibration, Do-Not-Disturb mode, block ringing (press the power button and volume + at the same time), ring tone, notification tone, alarm tone, and other functions.

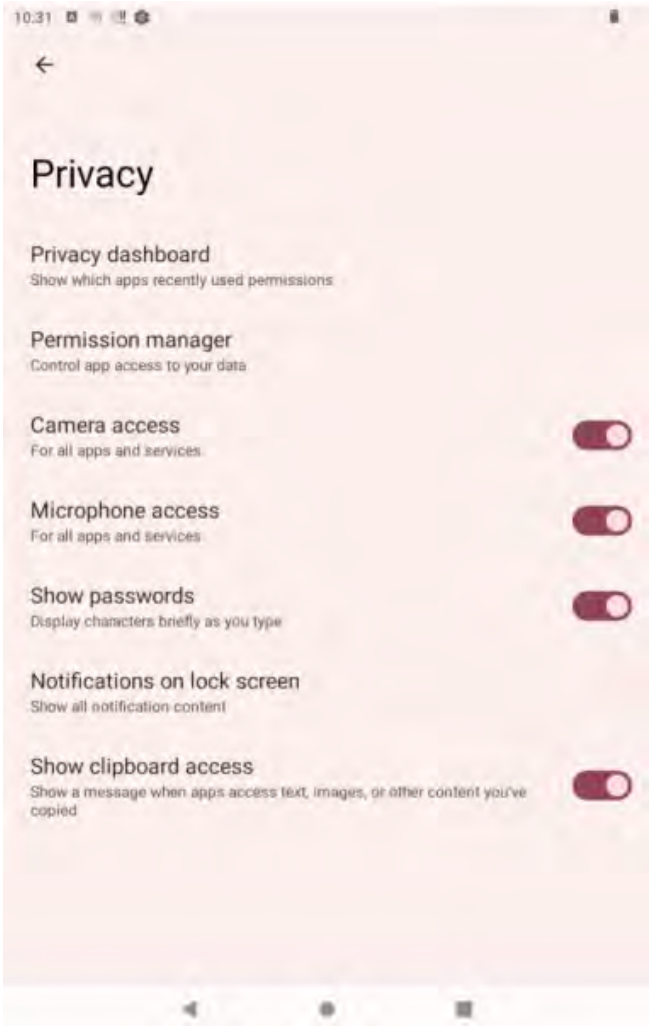
4.4. Storage

You can view the memory usage and space occupied by applications in this interface.



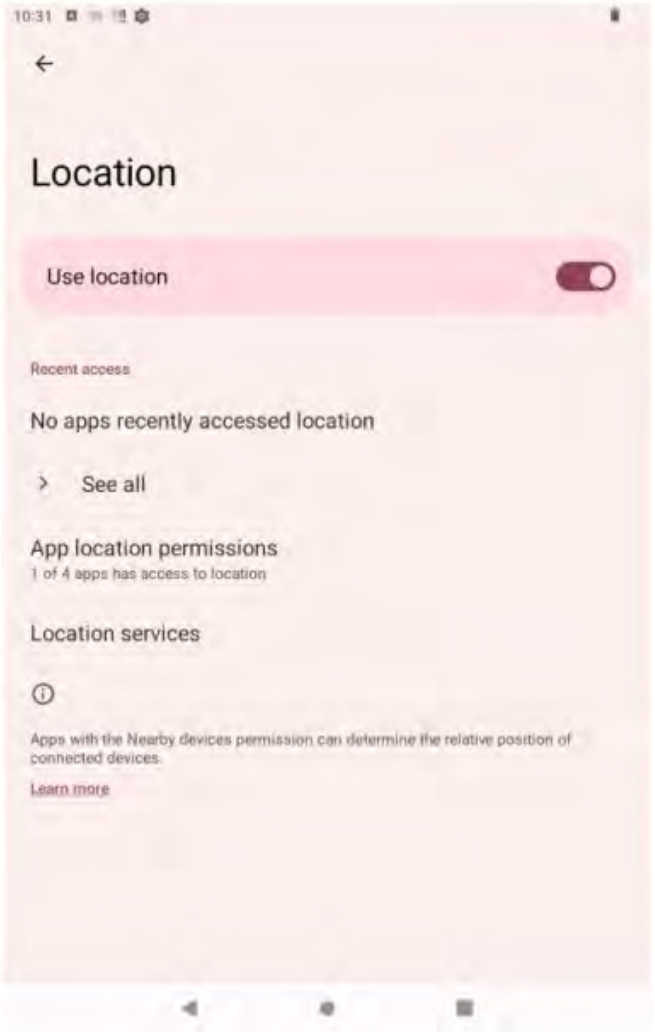
4.5. Privacy

You can view the license status of each software in this interface, set it to display briefly when entering a password, and set whether the lock screen displays the notification.



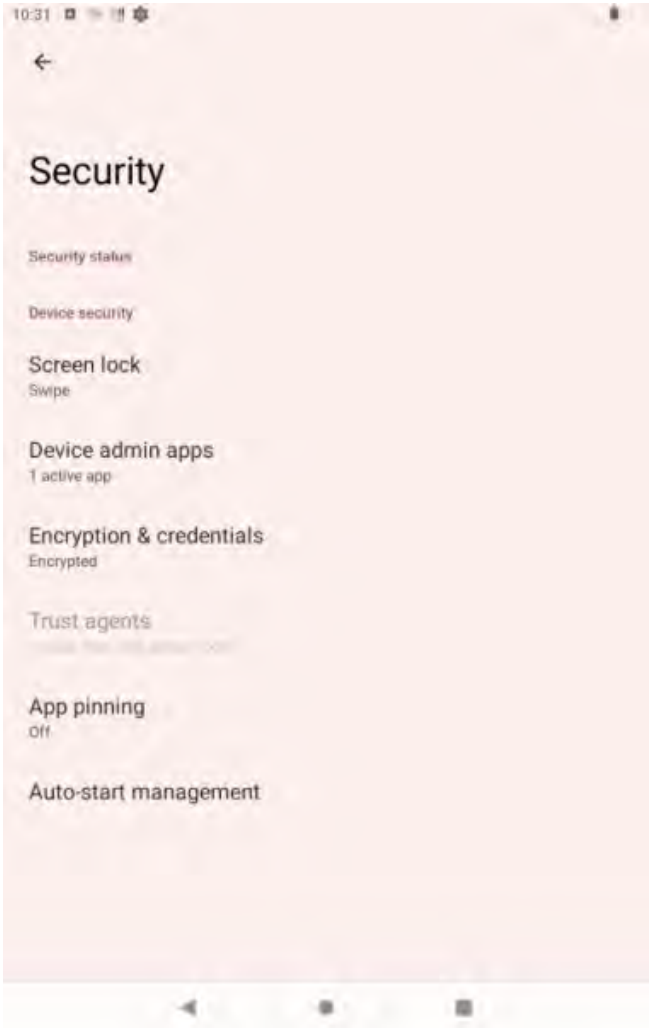
4.6. Location

In this screen, you can turn GPS on or off, and allow or restrict the use of an application to obtain location information.



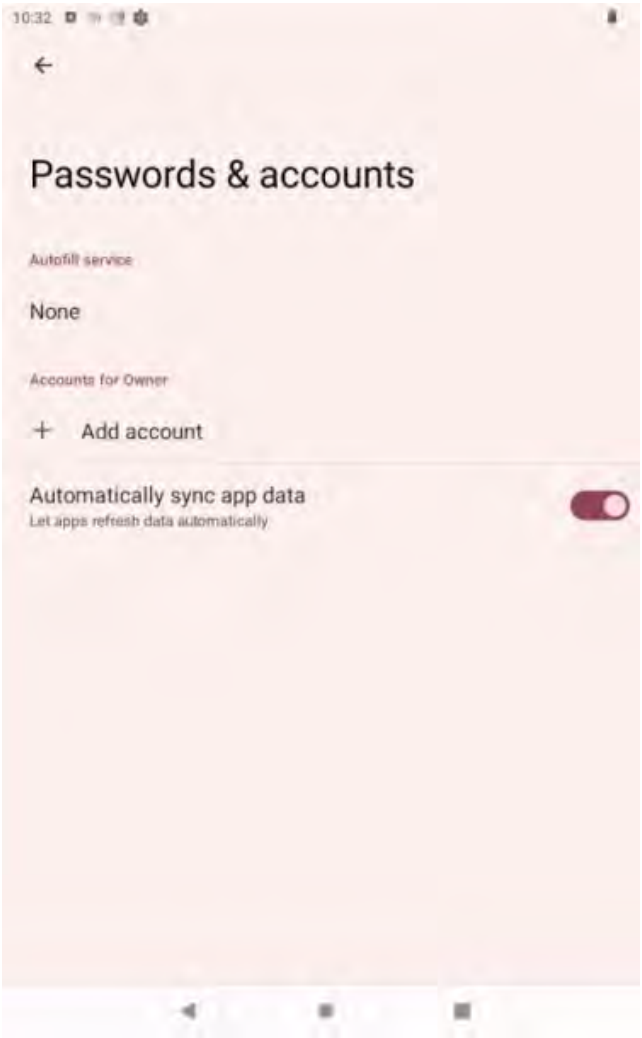
4.7. Security

In this interface, you can set screen lock mode (none, slide, pattern, PIN code, password), device management application, encryption and credentials, fixed screen, etc.



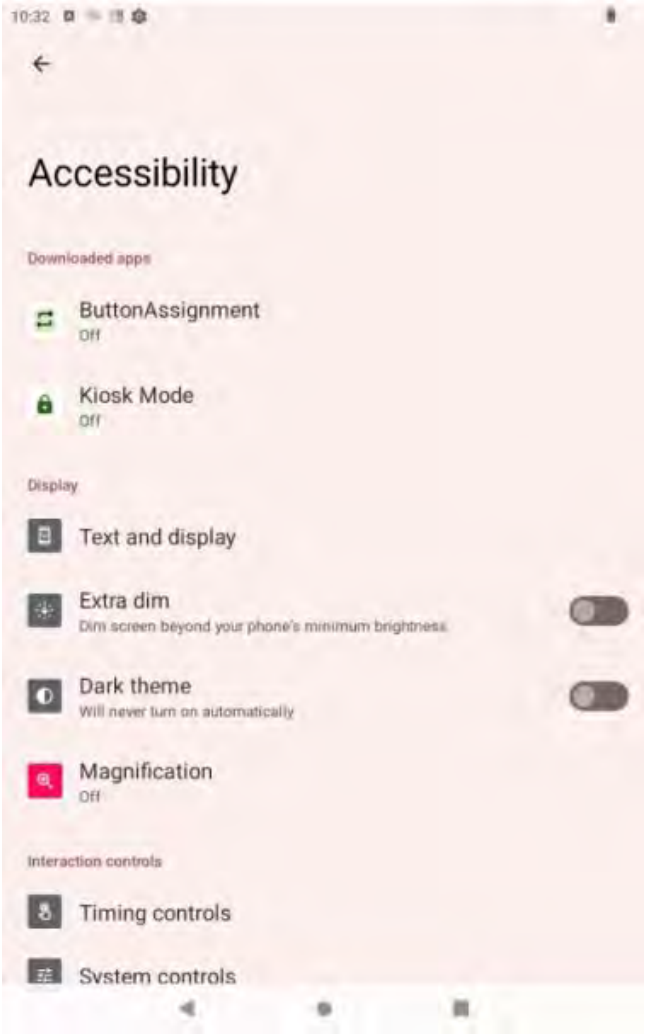
4.8. Account

You can add other accounts in this interface. (Exchange, IMAP, POP3)



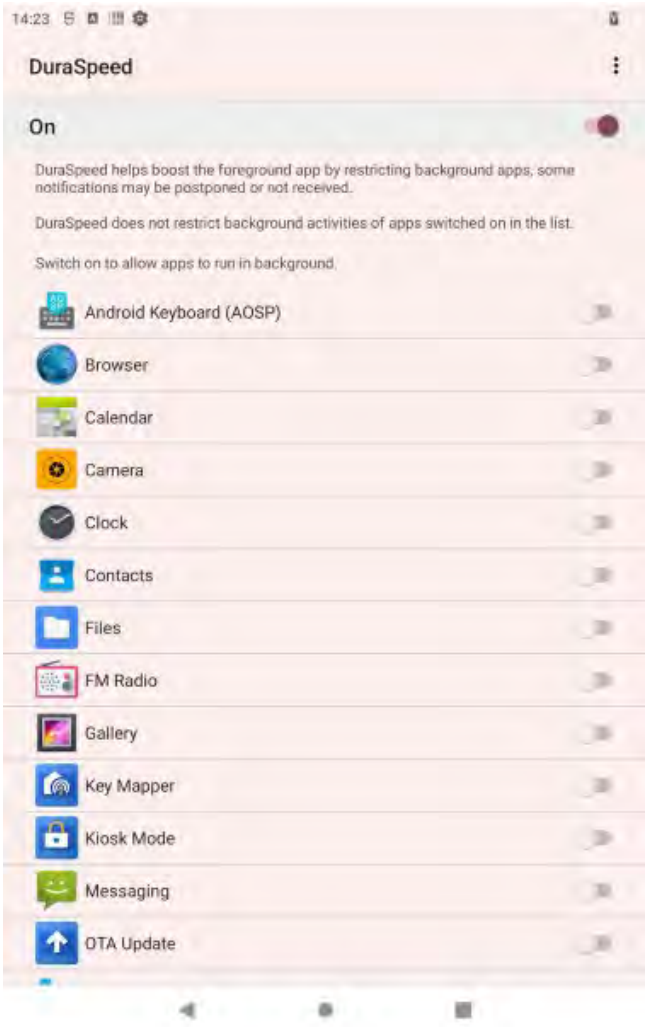
4.9. Accessibility

Settings for screen readers, displays, and interactive controls. For example: font size, display size, dark themes, enlarged gestures (3 consecutive screen clicks), color correction, color reversal, removing animations, pressing the power button to end a call, etc.



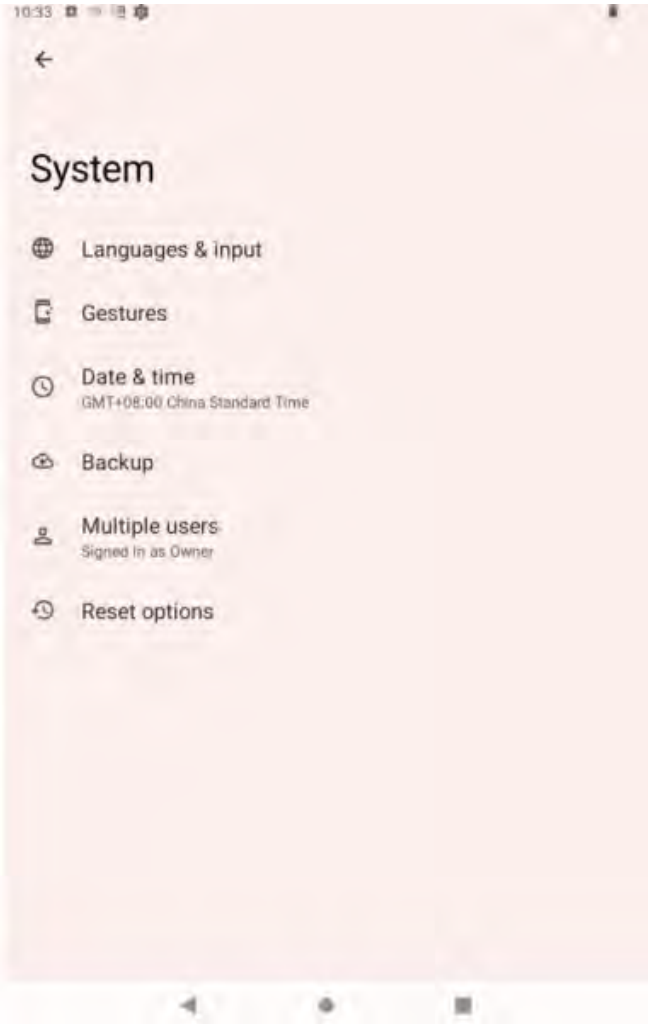
4.10.Kuaiba

Kuaiba speeds up foreground apps by inhibiting background app activity, but it may cause some notifications to not be received properly.



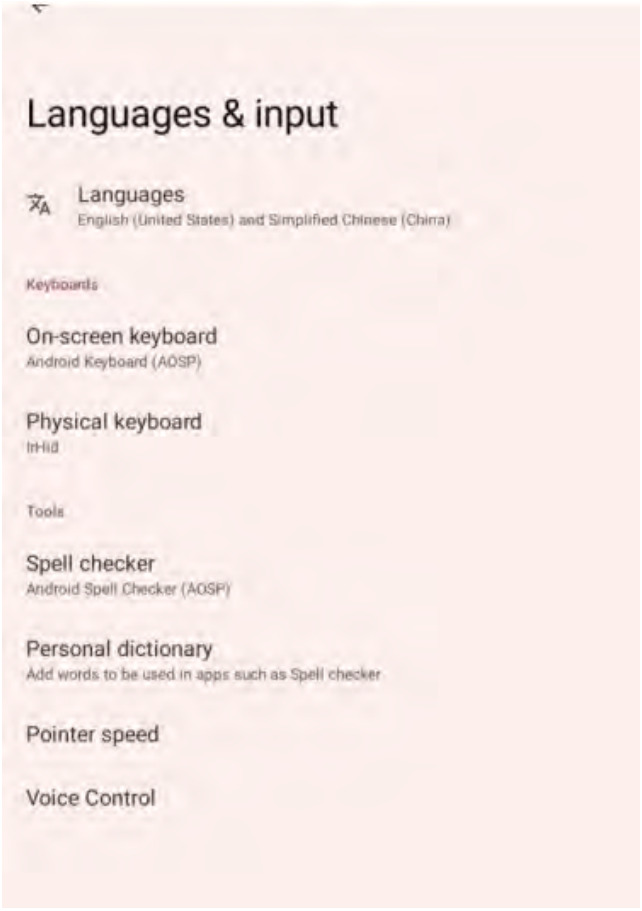
4.11.System

You can set the wireless upgrade, Language, input method, date, time, backup, reset options, as well as the debugging related to the developer options (to enter the “about the phone”, click 7 times of version number).



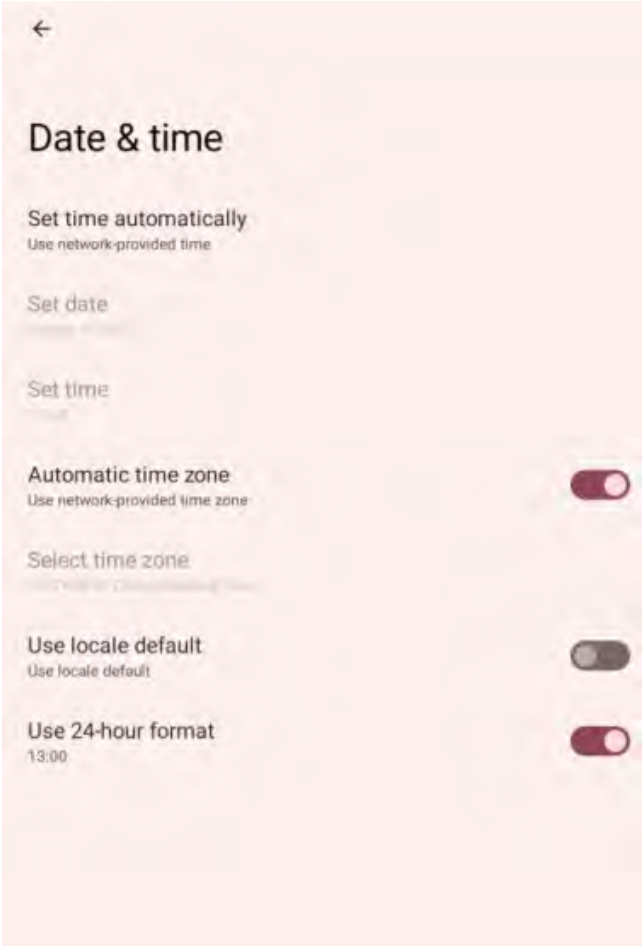
4.11.1. Language & Input

You can add and switch other languages, and you can set up a virtual keyboard and a physical keyboard.



4.11.2. Date and Time

You can set the date and time manually or obtain them automatically over the network. You can set the display in 24-hour format.

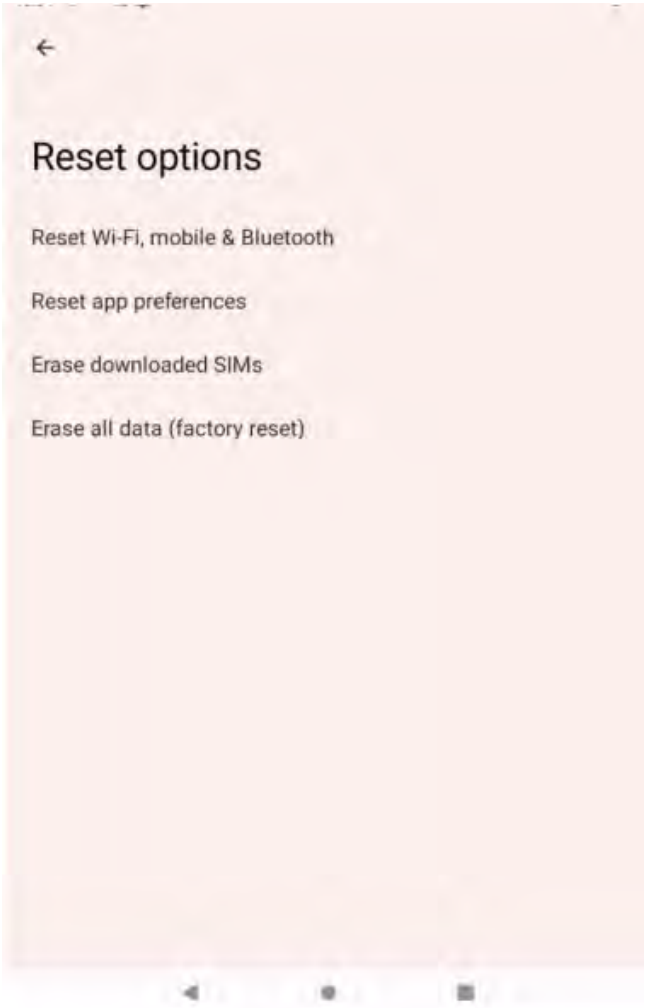


4.11.3. Hand gestures

You can quickly turn on the camera (press power button twice) by gesture Settings; System navigation can be switched in gesture navigation and three-button navigation; Vibration when incoming call (press power button and volume + at the same time).

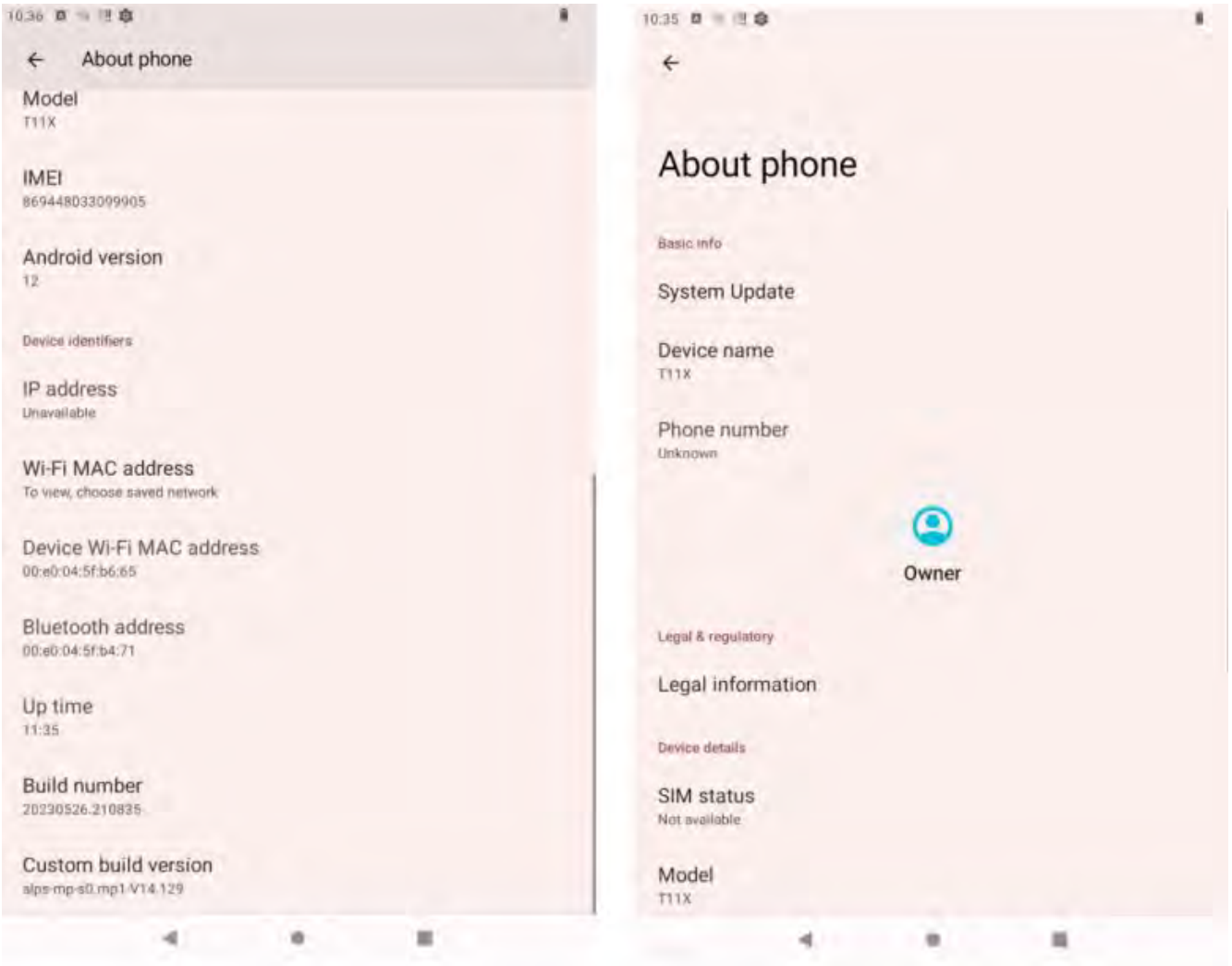
4.11.4. Reset options

You can reset WLAN, mobile data network, and Bluetooth Settings, and reset app preferences, or restore factory Settings.



4.11.5. About phone

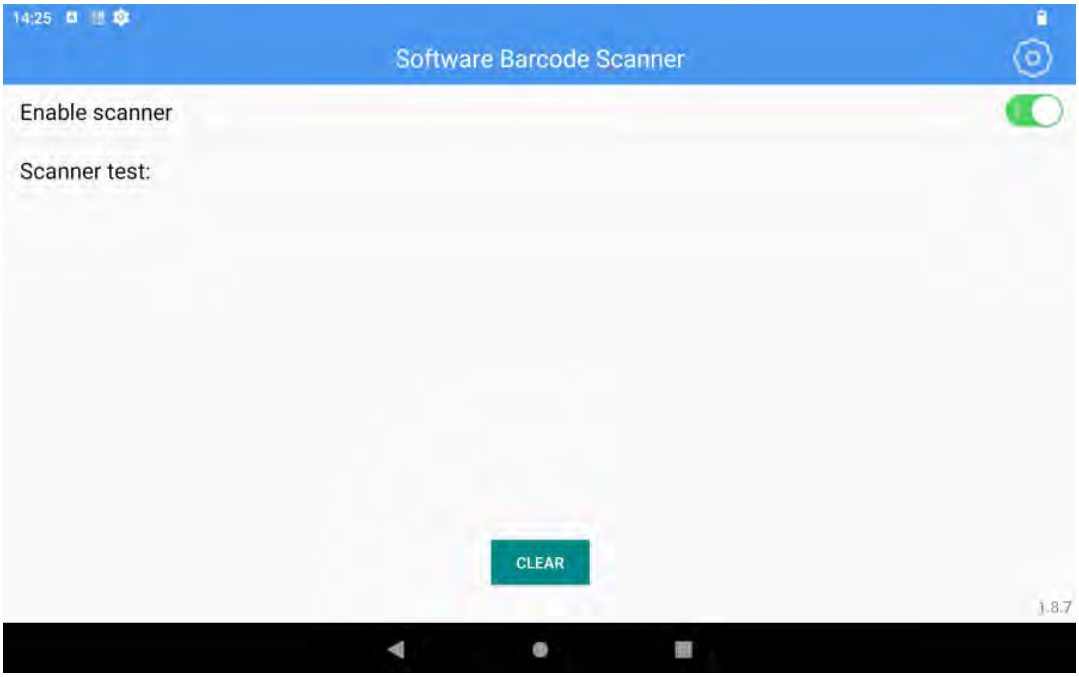
This interface allows you to view basic device information. For example: device name, storage, operating memory, screen resolution, front and rear cameras, phone number, emergency information, SIM card status, model and serial number, IMEI, Android version, IP address, WLAN MAC address, Bluetooth, power-on time, version number.



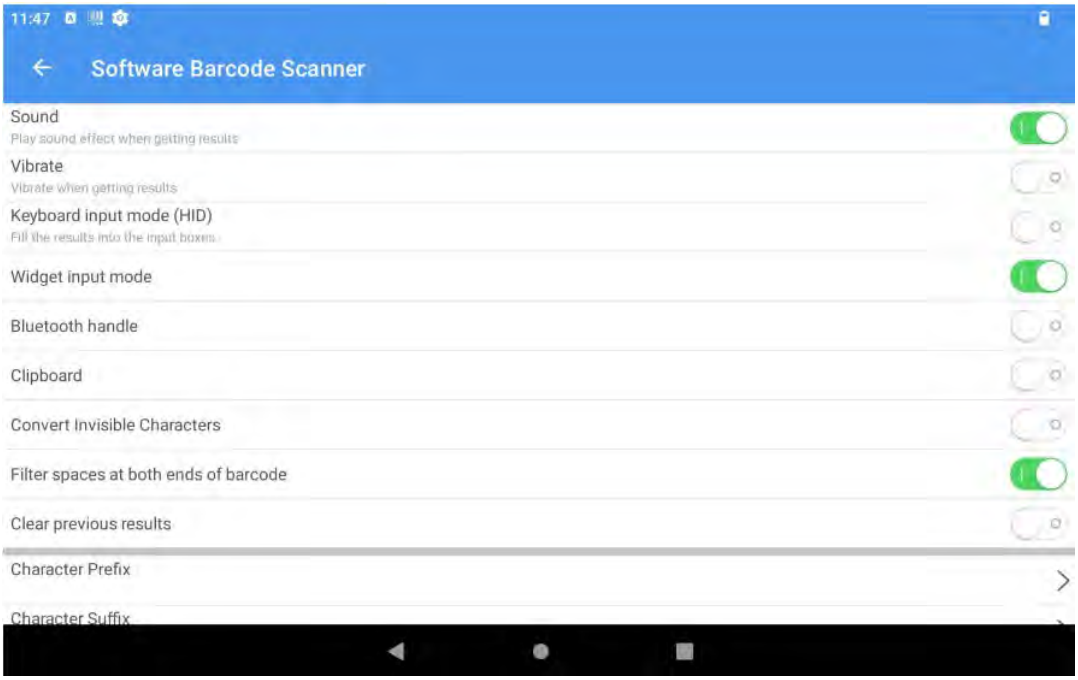
5. App Usage

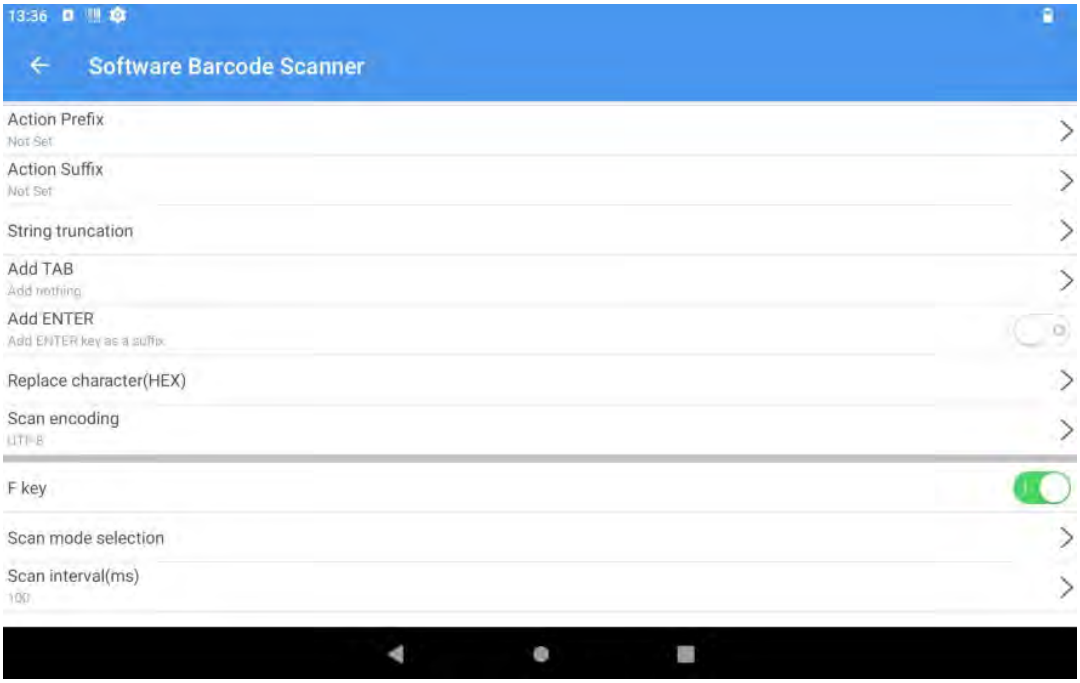
5.1. Hardware Decoder

You can enable some basic Settings of the scanning module here, as shown below. Entering the "Hardware Decoder" APP for the first time.



Settings Button in the Top Right Corner: Includes four sub-modules: "General Settings," "Barcode Settings," "Restore Default Settings," and "Scan Results".





General Settings

1. Prompt tone: You can set whether there is a sound prompt after the bar code is read.
2. Bluetooth handle on: Allow Bluetooth handle connection.
3. Enter: Carriage return-linefeed by default after opening;
4. Automatically empty EditText: After reading the next line of code data, the previous line of data will be cleared, and only one piece of scan data is allowed in the EditText;
5. Service startup: The device will automatically run the hardware decoder app after startup, without manual operation;
6. Scanning hover button: After opening, a scanning button will appear on the screen, you can press this button to scan and read the bar code;
7. Block volume key: After it is turned on, the volume plus or minus key cannot be invoked in the app interface;
8. Restore the default Settings: You can set the parameters to the factory default values;
9. Output modes: System broadcast, clipboard, input box mode, and keyboard input mode can be selected;
10. Replace characters: Change a character of the scan data to another character, for example, change 1 in the bar code to A, then set the

character 0x31 to 0x41;

11. Add prefix: Add characters in front of all bar codes;
12. Add suffixes: Add characters after all bar codes;
13. Delete characters: Delete the number of characters in the front and the number of characters in the back;
14. Tab: Add the suffix of Tab;
15. Decoding: The encoding methods are optional to decode Chinese characters;
16. Adjust the size: Adjust the size of the suspension button;
17. Sound adjustment: Adjust the volume of scanning sound;
18. Scanning mode selection: You can choose to press trigger and release stop, press scan until the scan result is obtained, and the continuous scanning mode;
19. Baud rate selection: Optional 9600 or 115200;
20. Custom broadcast: The users can customize the broadcast interface to obtain scan data;
21. Import configuration: Import scanning app to save the Settings files;
22. Export configuration: Import the scanning app Settings files to facilitate one-time import of configuration on other devices;
23. Continuous scanning timeout: Set the interval for reading each bar code.

Barcode Settings

Configure different barcode symbologies, such as enabling/disabling start/stop characters, check digits, and setting the range of characters to be read from the barcode.

Restore Default Settings

Reset all settings within the scan app to their default values.

Scan Results

Records the previously scanned data results.

5.2. Kiosk Mode

Kiosk Mode Overview

Function: Kiosk Mode can help administrators customize the programs or services that a device can run as a way to limit the programs or services available to device users.

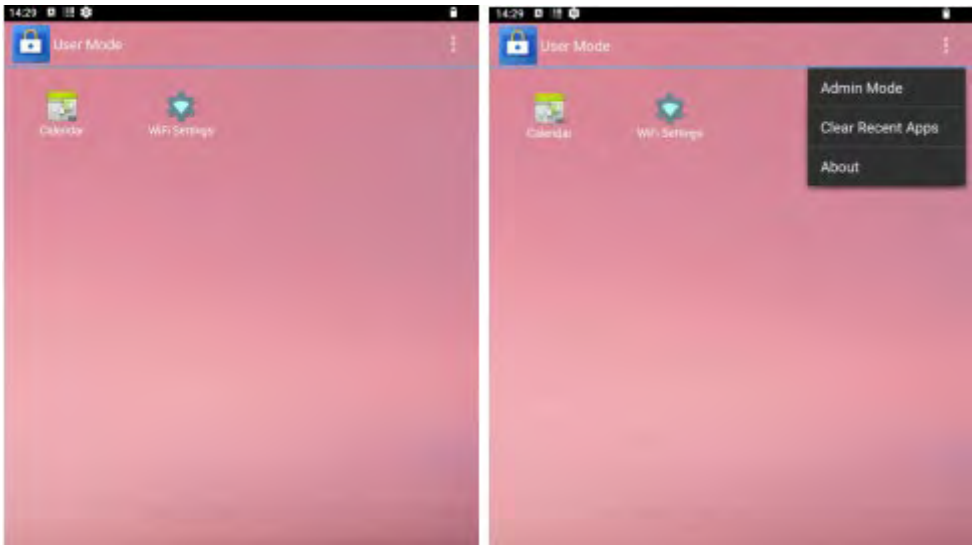
Application: You can restrict device applications to run administrator-specified applications or services through Kiosk Mode, thus enabling the device to be better used for customer-facing kiosks, interactive signage experiences, and other services, helping to restrict the interface available to customers and fixing the device to a certain program or service display.

Interface Description

5.2.1. Admin Mode

Function: In this mode, you can set the apps or services that need to be restricted, and import/customize the settings for easy use, while protecting the device data security.

Operation: Enter the password to enter the administrator mode, the interface shows the apps allowed to be used, the admin mode menu → Click the three-dot icon in the upper right corner to open the "Menu" → Set custom restrictions and other operations.



5.2.1.1 Admin Mode Function details

User Mode

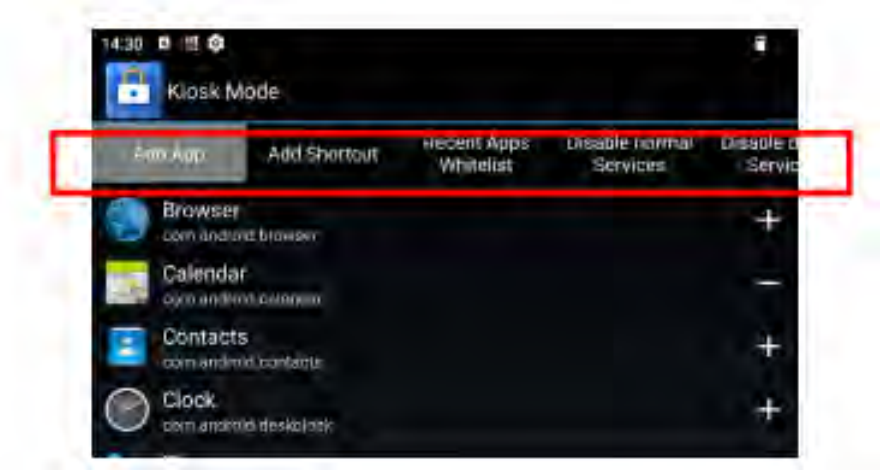
Function: Click to switch user mode

Apps Managements

Function: Click to set "Add App", "Add Shortcut", "Recent Apps Whitelist", "Disable System Services".

Thereby helping the administrator to perform the following functions:

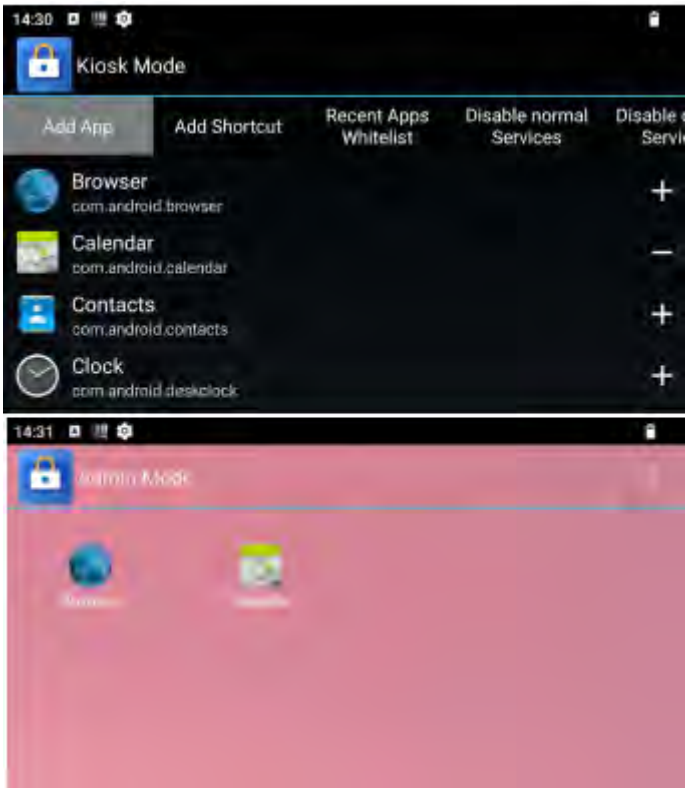
1. Limit the programs or services that can be used in user mode.
2. Setting a whitelist for clearing recent tasks, thus protecting applications from running in the background while cleaning.
3. Hide the applications in the list of disabled system services, even if the user exits Kiosk Mode, you can not click on the application to operate.



Details of each Settings

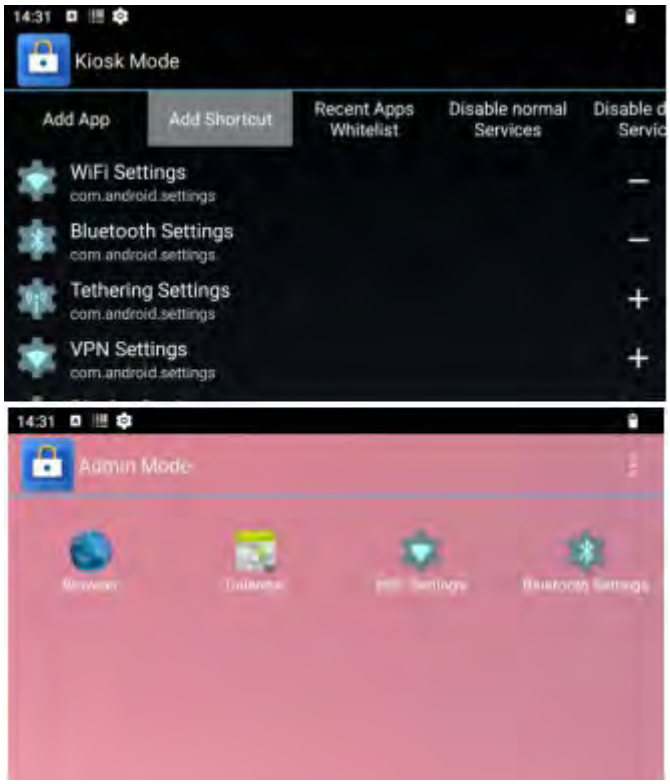
- **Add App**

Function: Click "+" on the right side to add the program to the list of allowed programs, it will be displayed on the desktop, click "-" to remove the program from the list of allowed programs, the desktop will not display the program (i.e. when the program shows "-" on the right side means that the program has been displayed on the desktop, showing "+" is not displayed).



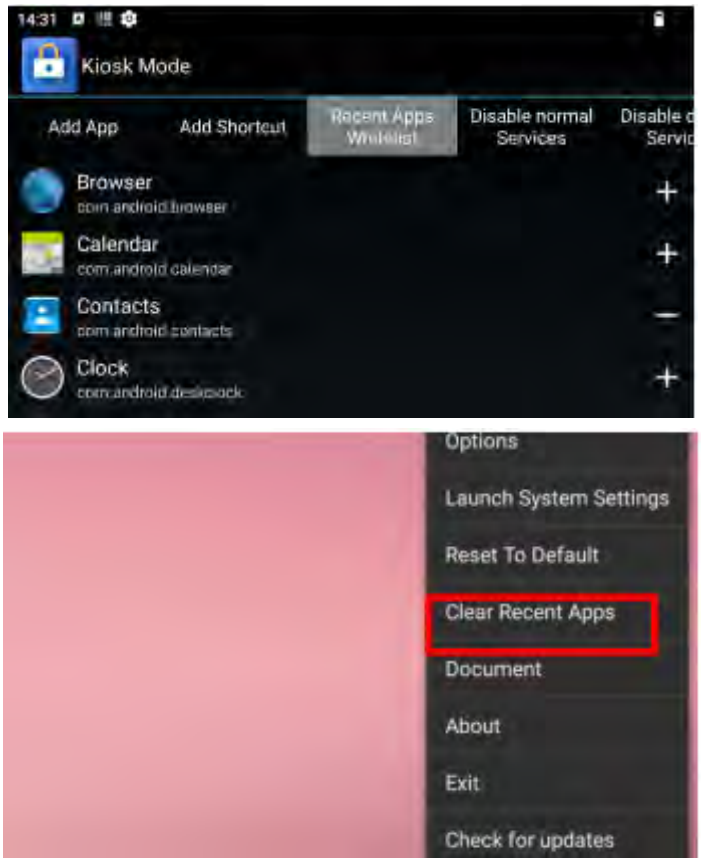
- **Add Shortcut**

Function: Click "+" on the right side to add the shortcut (shortcut means a shorter route to enter an interface) to the list of allowed shortcuts, which will be displayed on the desktop, and click "-" to remove the shortcut from the list of allowed shortcuts, then the shortcut will not be displayed on the desktop (i.e. when "-" is displayed on the right side of the shortcut, it means that the shortcut is displayed on the desktop, and when "+" is displayed, it is not displayed on the desktop).



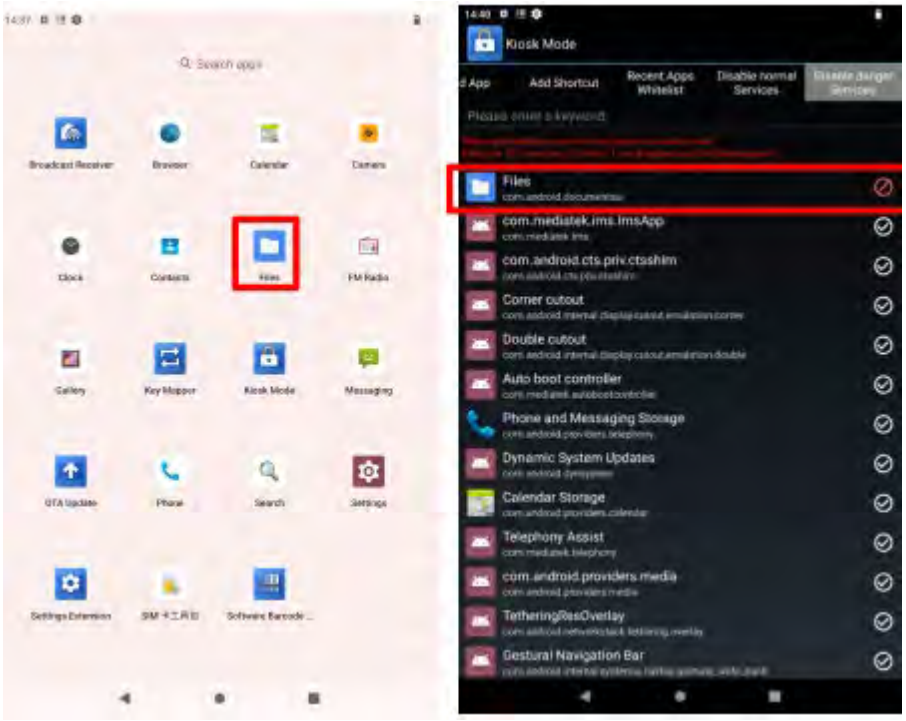
- **Recent Apps Whitelist**

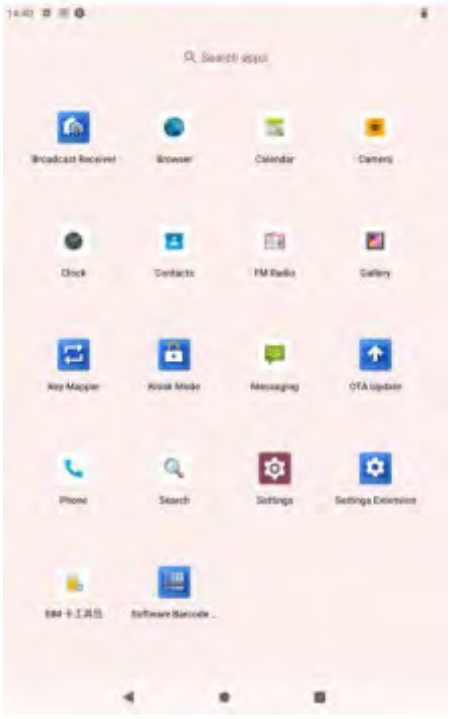
Function: Click "+" on the right to whitelist the app so that it will not be cleaned up when using "Clear Recent Apps" and will still be able to run in the background.



- **Disable System Services**

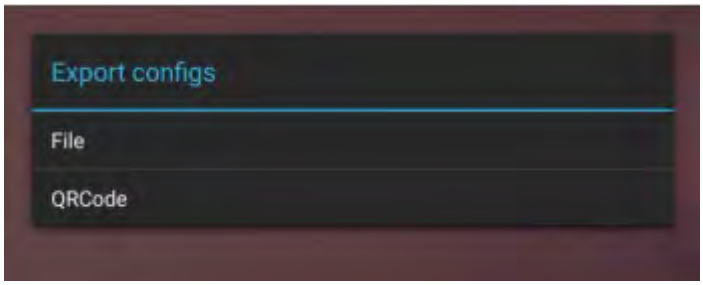
Function: Click on the right to hide the application or service from the device, so that it cannot be displayed even if you exit Kiosk Mode; click on the right to remove the application or service from the disabled list (i.e., when is displayed on the right, it means that the application or service is already in the disabled list).





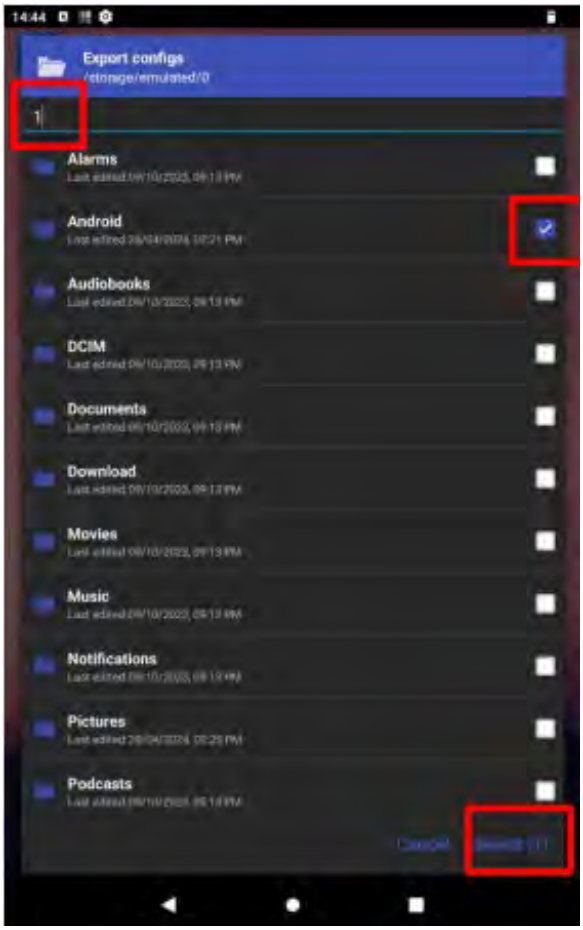
Export

Function: You can export the device's custom configuration in both "File" and "QRCode" forms for easy application to other devices or records.

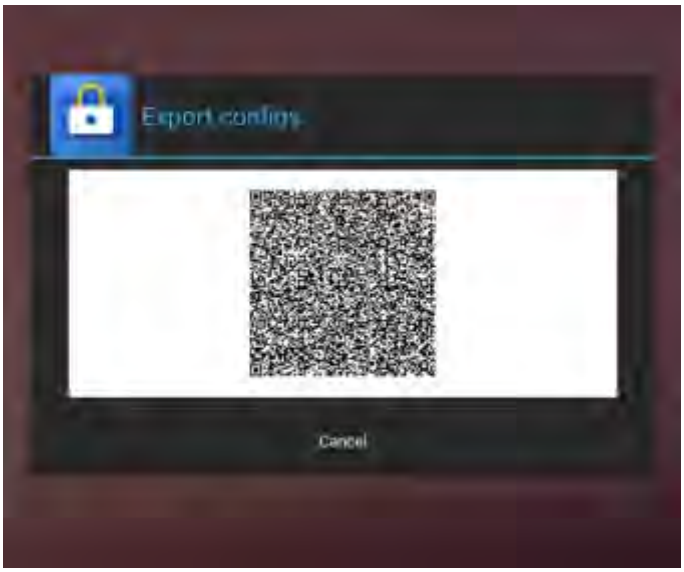


Operation:

File Export：Click "**File**" → file name → select the stored file → click "**Select**" → the configuration is saved successfully → you can find the exported configuration according to the file address in the blue box.

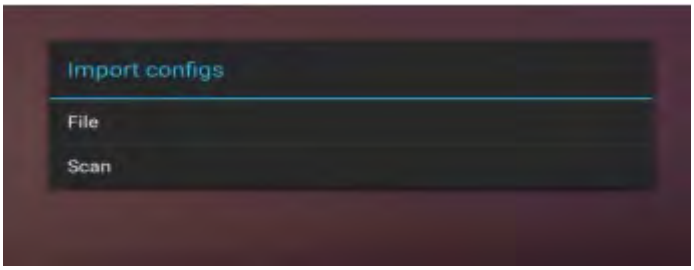


QR Code Export：Click "QR Code" to generate the QR code saved in the configuration.



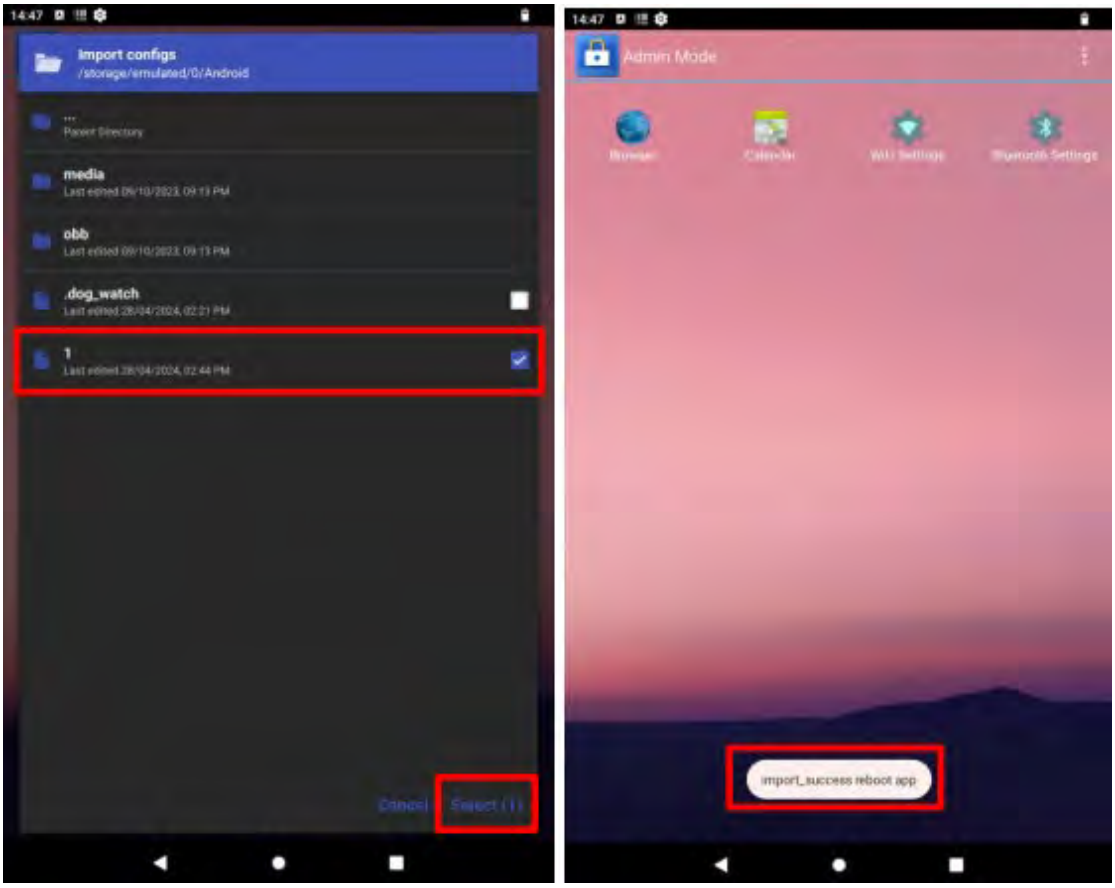
Import

Function: You can import custom settings in both "File" and "Scan" formats.



Operation:

File Import：File：Click "**File**"→ Select the file where the custom configuration is located → Click "**Select**"→ "import_success reboot app" is displayed, that is, the application is successfully configured and can be used after reboot.

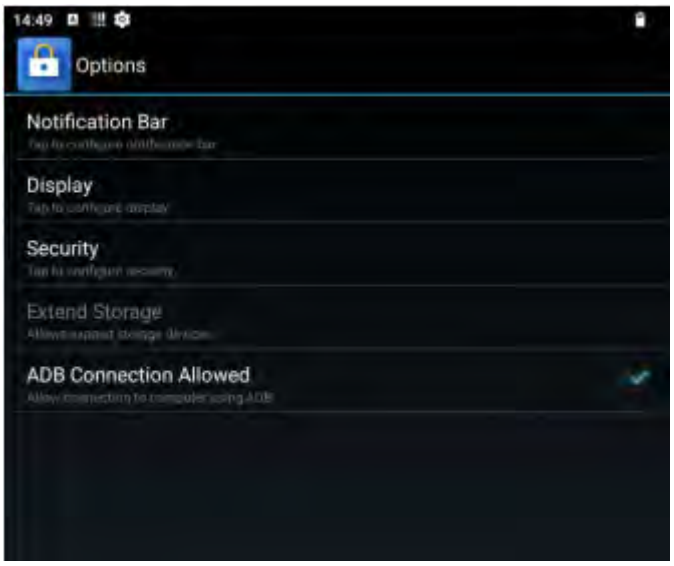


Scan Import：Click "Scan" to bring up the scan box, scan the QR code where the configuration is located, after successful identification, "import_success reboot app" will appear, that is, the configuration application is successful, reboot and use it.

Options

Functions: By entering the options, you can set the following functions:

1. Restrict the notification bar expansion state, to ensure that users can not access the settings through the notification bar shortcut to change the application restrictions.
2. Change the home screen wallpaper and icons, you can customize the home page wallpaper, so as to show the corporate style and other content.
3. Change the admin mode password.
4. In order to protect the device data security, you can restrict the external USB storage device and connection with the PC.



Specific operation of each function:

Notification Bar

“Show Notification Bar”: When selected, the notification bar will always be displayed with the top, after canceling, you need to manually slide down to display the notification bar.

“Enable Notification Bar”: When selected, the notification bar can be scrolled down and expanded, when cancelled, the notification bar cannot be scrolled down and expanded.

“Show filtered notifications”: When "Enable Notification Bar" is unchecked and "Show filtered notifications" is selected, users can scroll down to expand the Notification Bar to see notifications from allowed applications, but the shortcut to the Notification Bar cannot be manipulated.

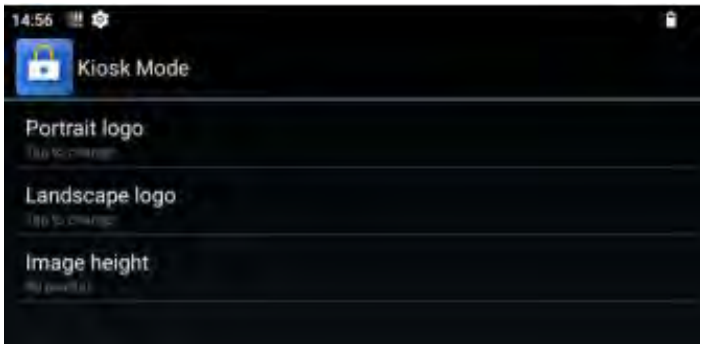
“Heads-up notifications”: When selected, a floating notification will pop up for the allowed applications.

➢ Display

“Use system wallpaper”: System wallpaper will be used as Kiosk wallpaper after selection.

“Portrait wallpaper”/ “Landscape wallpaper”: Cancel "Use system wallpaper", you can customize Kiosk wallpaper content, there are two modes of portrait and landscape wallpaper to choose.

“Logo”: Customize the image and height of the logo after selection.



➢ **Security**

You can set the password to enter "Admin Mode" after clicking on it.

- **Extend Storage**

When deselected, external storage devices will be disabled.

- **USB Connection Allowed**

When deselected, the use of USB connection to the PC will be disabled.

Launch System Settings

Function: Clicking on it will open the "Settings" application of the system.

Reset To Default

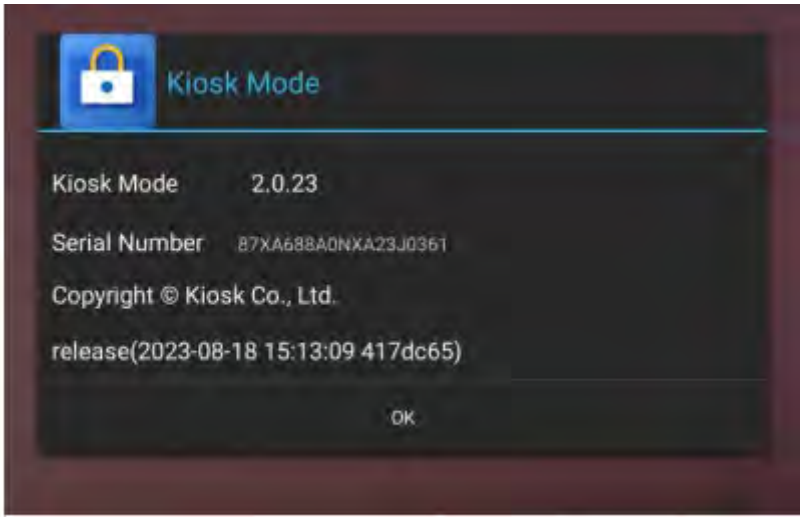
Function: Clicking on it will clear the original settings and return to the original default values.

Clear Recent Apps

Function: Click to clean up recent background tasks outside the whitelist (for whitelist settings, please refer to 1.2 Admin Mode → "Apps Management" → "Recent Apps Whitelist").

About

Function: Click to view software version, serial number, copyright, final version and other information.



Exit

Function: Clicking will exit the Kiosk Mode application.

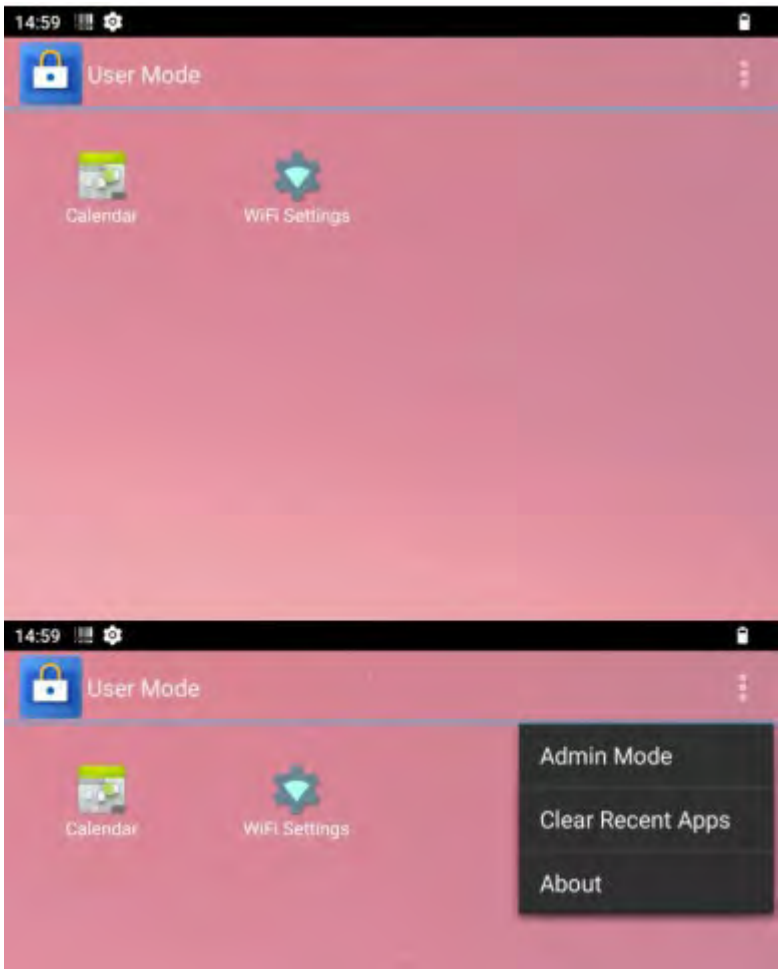
Check for updates

Function: Clicking on Check for Update after networking will detect if the current application is the latest version.

5.3. User Mode

Function: In this mode, users can only use the programs or services allowed by the administrator.

Operation: Click on the top right corner to open the "Menu"



Admin Mode

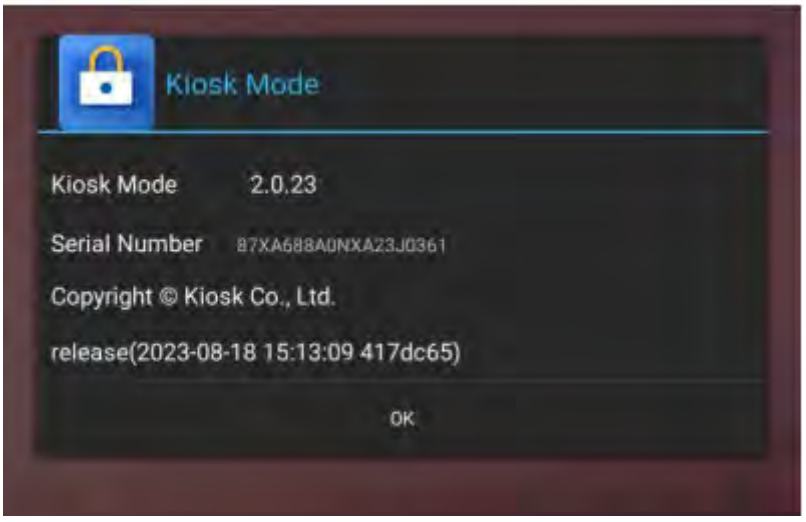
Users enter a custom password to enter Admin Mode for more settings (please refer to 5.2.1 Admin Mode for details).

Clear Recent Apps

Click to clean up the recent background tasks outside the whitelist (go to Admin Mode to set the recent apps whitelist, please refer to 5.2.1 Admin Mode for details)

About

Click to view software version, serial number, copyright, final version and other information.



5.4. Application Guidelines

5.4.1. Usage restrictions

Application Restrictions

When you need to restrict the applications available in the main screen of Kiosk Mode, you can do the following:

Click "Admin Mode" → Enter the password → Click the upper right corner → Click "Apps Management" → Go to the "Add App" interface → Click the "+" to add the allowed applications.

Shortcut Restrictions

When you need to restrict the convenience of jumping to a certain interface by clicking on the main screen of Kiosk Mode, you can do the following:

Go to "Admin Mode" → Click the upper right corner → Click "Apps Management" → Go to the "Add Shortcut" interface → Click "+" on the right side " to add an allowed shortcut.

Notification bar restrictions

If you want to restrict users from expanding the notification bar, you can do the following:

Go to "Admin mode" → click on the upper right corner → click on "Options" → click on "Notification Bar" → select the restriction you want (for details, please refer to 5.2.1 Admin mode - Options - Notification Bar).

5.4.2. Security Protection

Password Settings

If you need to set/change the security password to enter administrator mode (initially, the login password is none, no need to enter the secret click OK to enter admin mode), you can do the following:

Enter "Admin Mode" → click on the upper right corner → click on "Options" → click on "Security", you can enter the password you need to set.

Data Protection

If you need to disable data transfer from the device to other electronic devices or storage, you can do the following:

Enter "Admin Mode" → click on the upper right corner → click on "Options" → select Disable USB Extend Storage device or USB Connection Allowed as required.

5.4.3. Display Settings

If you want to customize the wallpaper and icons for the Kiosk Mode home screen, you can do the following:

Go to "Admin Mode" → click on the upper right corner → click on "Options" → click on "Display" → select the wallpaper and icons you want to arrange according to your needs.

6. SIM Card Installation

Open the battery compartment, remove the battery, then take out the card slot from the side of the battery compartment. Insert the SIM and TF cards as shown in the diagram. After doing so, the device can be used normally upon powering on.

7. Troubleshooting

Tablet problems can be caused by hardware, software, or both. When you encounter any problem, it might be a typical problem that can easily be solved.

This chapter tells you what actions to take when solving common Tablet problems.

7.1. Preliminary Checklist

Here are helpful hints to follow before you take further actions when you encounter any problem:

- Try to isolate which part of the Tablet is causing the problem.
- Make sure that you turn on all peripheral devices before turning on the Tablet.
- If an external device has a problem, make sure that the cable connections are correct and secure.
- Make sure that the configuration information is properly set in the BIOS Setup program.
- Make sure that all the device drivers are correctly installed.
- Make notes of your observations. Are there any messages on the screen? Do any indicators light? Do you hear any beeps? Detailed descriptions are useful to the service personnel when you need to consult one for assistance.

If any problem persists after you follow the instructions in this chapter, contact an authorized dealer for help.

7.2. Solving Common Problems

Battery Problems

The battery does not charge (The red indicator is not on).

- Make sure that the AC adapter is properly connected.
- Make sure that the battery is not too hot or cold. Allow time for the battery pack to return to room temperature.
- If the battery doesn't charge after it has been stored in very low temperatures, try disconnecting and reconnecting the AC adapter to solve the problem.
- Make sure that the battery pack is installed correctly.
- Make sure that the battery terminals are clean.

The operating time of a fully charged battery becomes shorter.

- If you often partially recharge and discharge, the battery might not be charged to its full potential. Initialize the battery to solve the problem. (Fully charge in the shutdown state, discharge to 0%, and then fully charge the shutdown, cycle 2-3 times).

The battery operating time indicated by the battery meter does not match the actual operating time.

- The actual operating time can be different from the estimated time, depending on how you are using the Tablet. If the actual operating time is much less than the estimated time, initialize the battery.

Startup Problems

When you turn on the Tablet, it does not seem to respond.

- If you are using an external AC power, make sure that the AC adapter is correctly and securely connected. If so, make sure that the electrical outlet works properly.
- If you are using the battery power, make sure that the battery is not discharged.

WLAN Problems

I cannot use the WLAN feature.

- Make sure that the WLAN feature is turned on.

Transmission quality is poor.

- Your Tablet may be in an out-of-range situation. Move your Tablet closer to the Access Point or another WLAN device it is associated with.
- Check if there is high interference around the environment and solve the problem as described next.

Radio interference exists.

- Move your Tablet away from the device causing the radio interference such as microwave oven and large metal objects.
- Plug your Tablet into an outlet on a different branch circuit from that used by the affecting device.
- Consult your dealer or an experienced radio technician for help.

I cannot connect to another WLAN device.

- Make sure that the WLAN feature is turned on.
- Make sure that the SSID setting is the same for every WLAN device in the network.
- Your Tablet is not recognizing changes. Restart the Tablet.
- Make sure that the IP address or subnet mask setting is correct.

I cannot access the network.

- Make sure that the network configuration is appropriate.
- Make sure that the user’s name or password is correct.
- You have moved out of range of the network.

Bluetooth Problems

I cannot connect to another Bluetooth-enabled device.

- Make sure that both devices have activated Bluetooth feature.
- Make sure that the distance between the two devices is within the limit and that there are no walls or other obstructions between the devices.
- Make sure that the other device is not in“Hidden”mode.
- Make sure that both devices are compatible.

Sound Problems

No sound is produced

- Make sure that the volume control is not set too low.
- Make sure that the Tablet is not in mute mode.
- Make sure that the Tablet is not in Sleep mode.
- If using an external speaker, make sure that the speaker is properly connected.

Distorted sound is produced.

- Make sure that the volume control is not set too high or too low. In most cases, a high setting can cause the audio electronics to distort the sound.

Software Problems

An application program does not work correctly.

- Make sure that the software is correctly installed.
- If an error message appears on the screen, consult the software program’s documentation for further information.
- If you are sure the operation has stop, reset the Tablet.