

EM-T87X

Android System User Manual

Thank you for using our 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 T87X rugged tablet 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. Thank you for your trust.

1. File Version	1
2. Product Appearance	2
3. Display Layout	3-4
4. System Settings	5-19
5. APP Usage	20-39

File Version

File Name		T87X Android 12.0 System User Manual					
No.		0001		Version		V1.0	
Issuing Date		2023-8-2		Pages			
Revision Record							
No.	Revision Code	Version	Date	Content		Department	
1	YDXX-01	V1.0	2023-8-2	First issue		FAE Department	

Product Appearance

Six views:



Device function interface description

1. **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. Volume button “+” “-”** : Device volume can be turned up/down;

4. **TF card slot:** Insert TF cards.

5. **Scanning module (optional)** : Supports code-scanning function;

6. **Front camera:** 5MP, supports photograph and video;

7. **Speaker:** A built-in speaker for playing videos; Built-in 8Ω/1W waterproof speaker x 1;

8. **Pogo pin:** Used to connect the docking charger, expand the USB port and charging port;

9. **F key:** Scan key by default, for fast scan;

10. **Type C:** For charging or transmitting data through the data line;

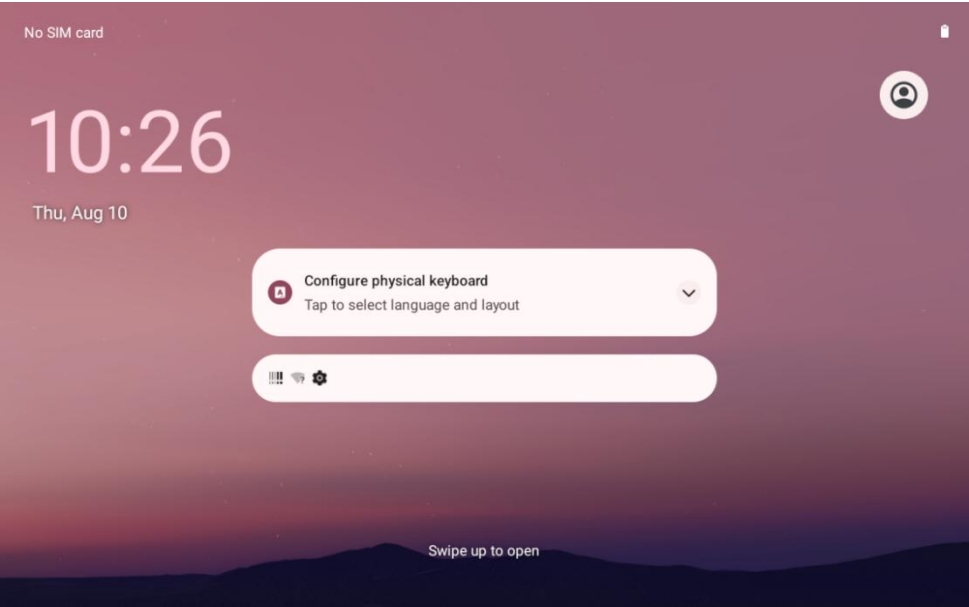
11. **Rear camera:** 13MP, supports photograph and video;

12. **Flashlight:** To adjust the brightness of light when taking photos;

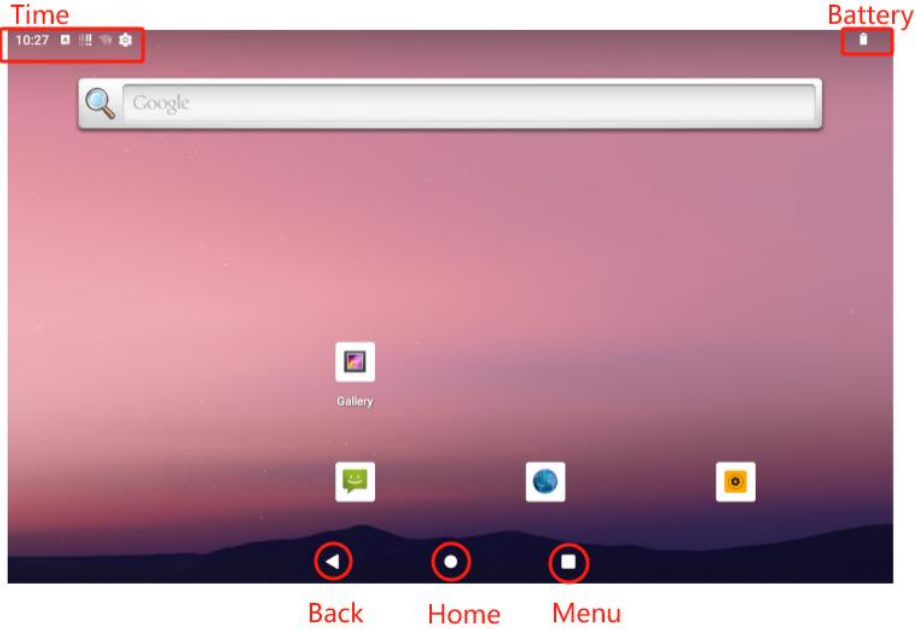
- 13. **Power port:** For charging the adapter;
- 14. **Audio port:** 3.5mm standard earphone jack.

Display Layout

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

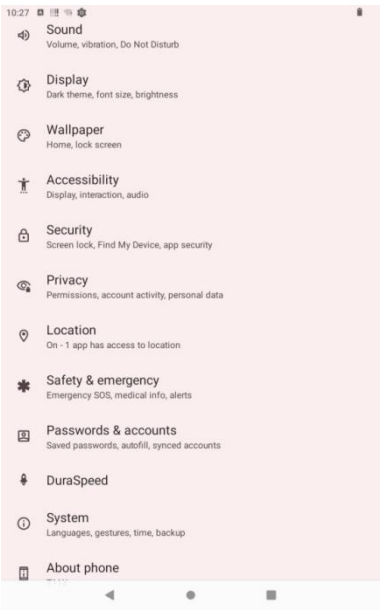


Display menu introduction: All applications are showed in here. In this interface, you can quickly start and operate the application.



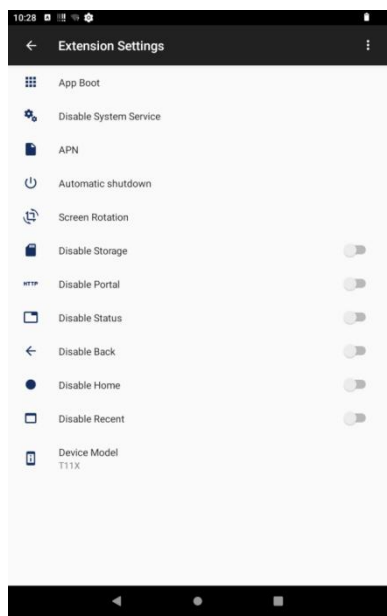
System Settings

Settings: Users can set the system in this interface.



Extended Settings

You can enable or disable various functions here.

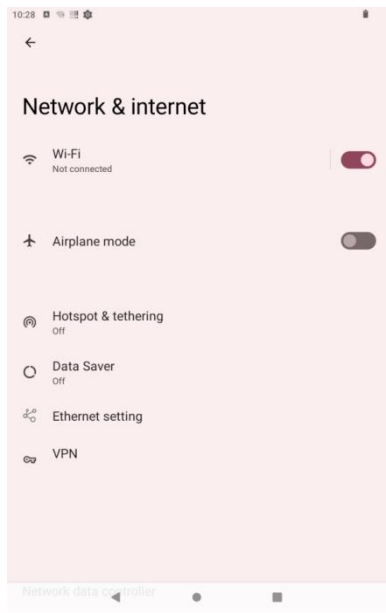


Network and Internet

You can set WLAN and Ethernet, flight mode and other functions in this interface.

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.

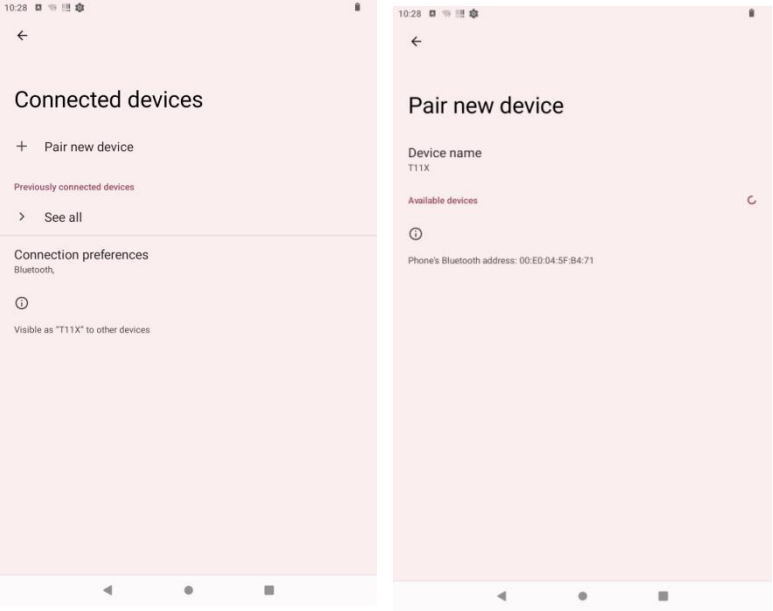


A connected device

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

1. Bluetooth Settings

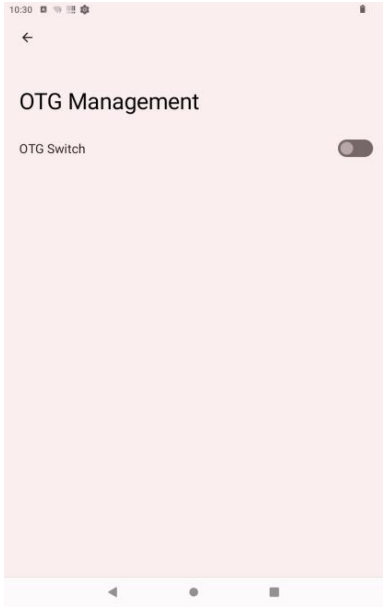
You can search and match Bluetooth in this interface.



2.

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.



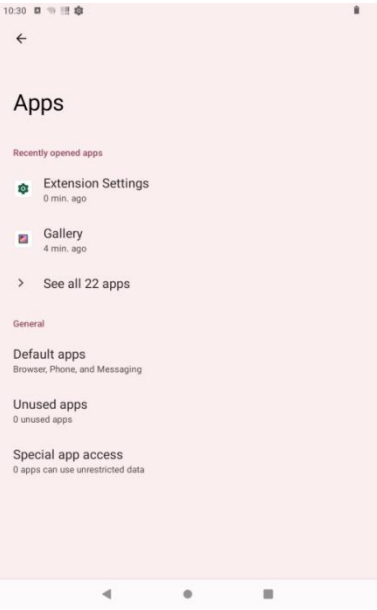
Applications and notifications

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

Battery

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

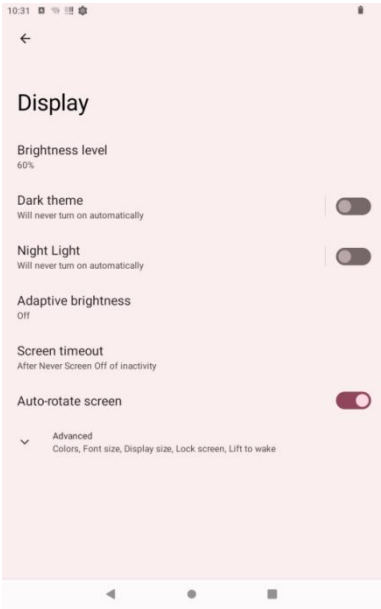




5

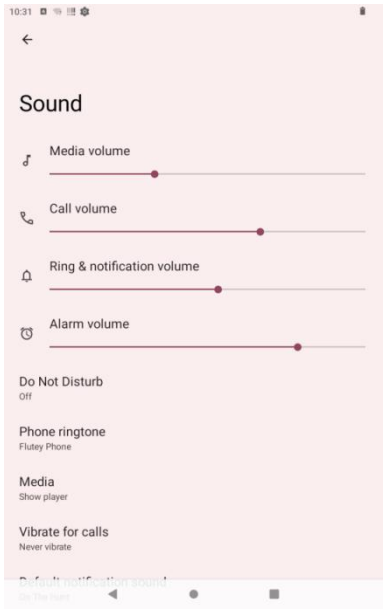
Display

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.



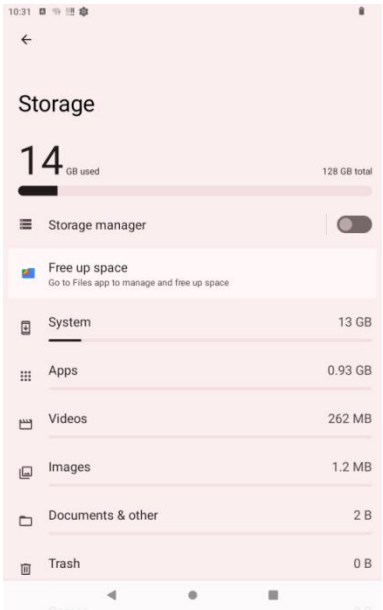
Volume

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.



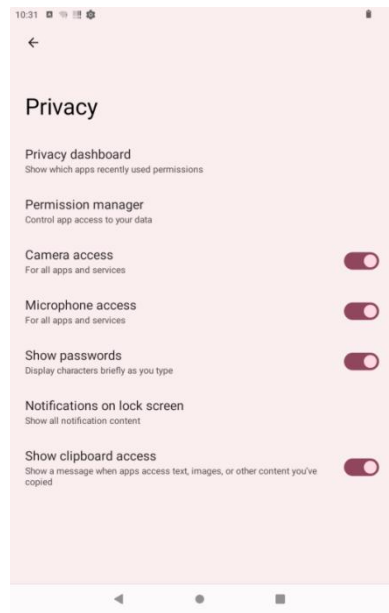
Memory

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



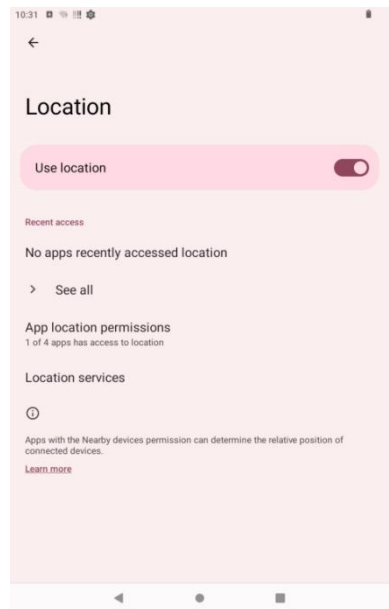
Privacy

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.



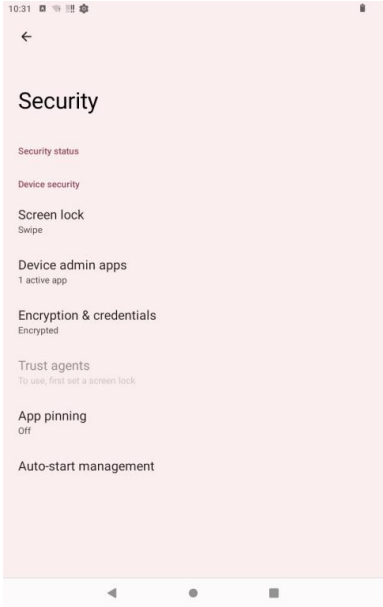
Location

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



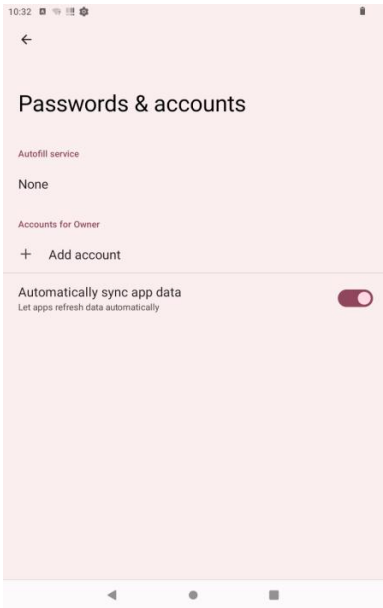
Security

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



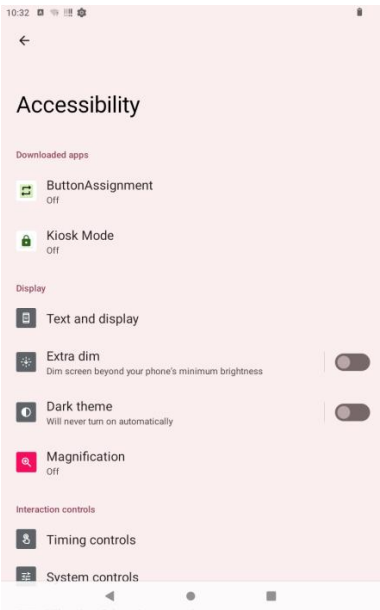
Account

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



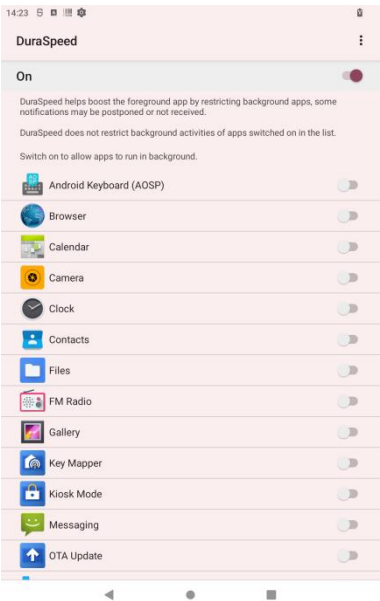
Accessibility

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.



Kuaiba

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

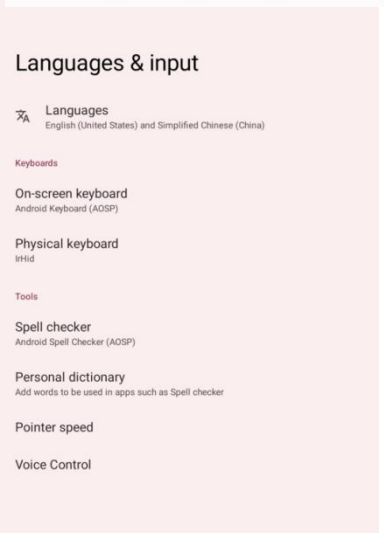
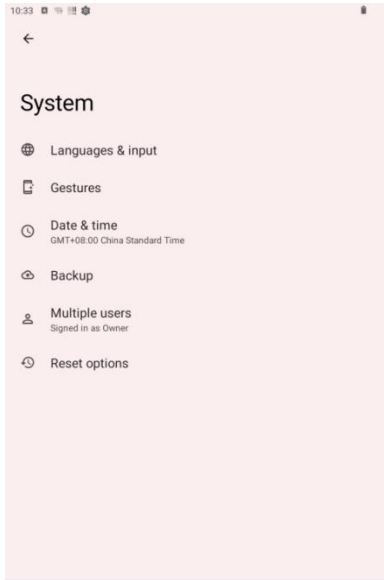


System

You can set the wireless upgrade, Language, input method, date, time, backup, reset options, as well as the debugging related to the developer options

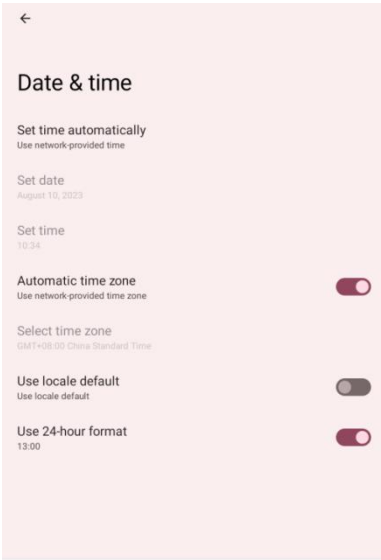
1. Language & input

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



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.

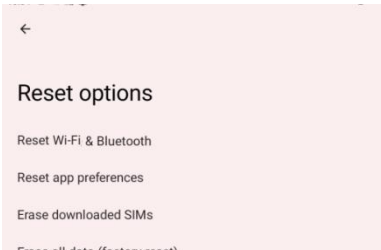
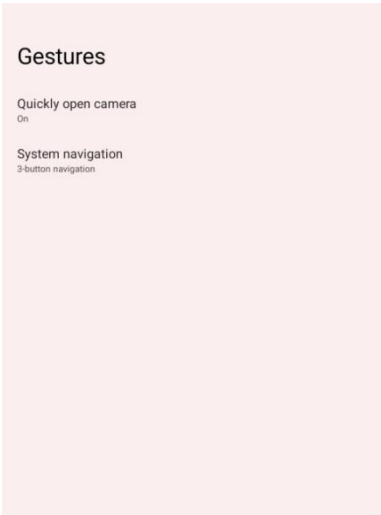


3. Hand gestures

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) .

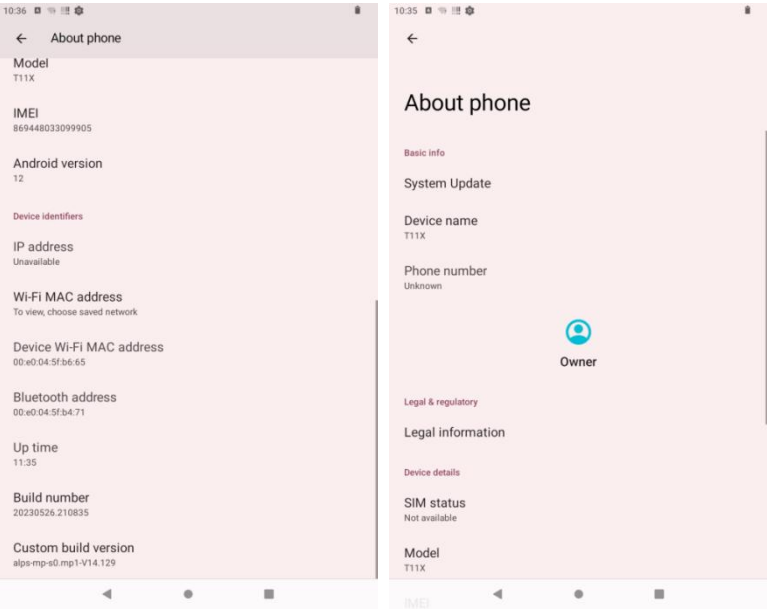


4. Reset options

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

About the phone

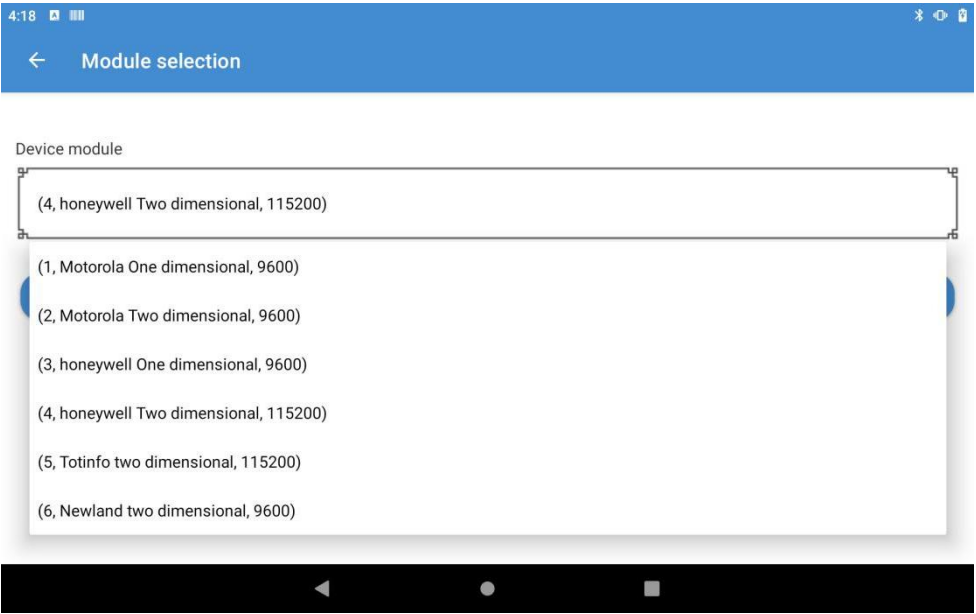
This interface allows you to view basic device information. For example: device name, storage, operating memory, screen resolution, front and rear cameras, phone number, emergency information, model and serial number, IMEI, Android version, IP address, WLAN MAC address, Bluetooth, power-on time, version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

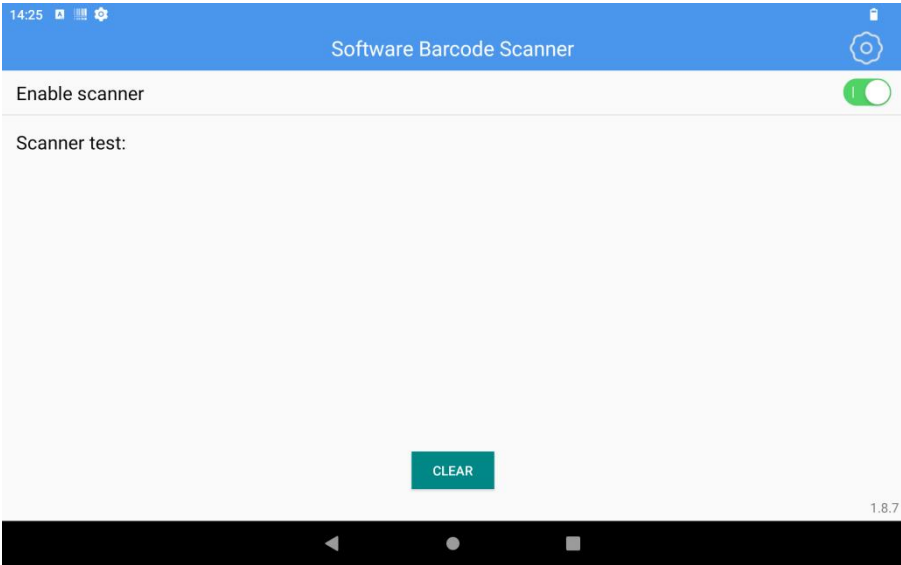


Use of Software

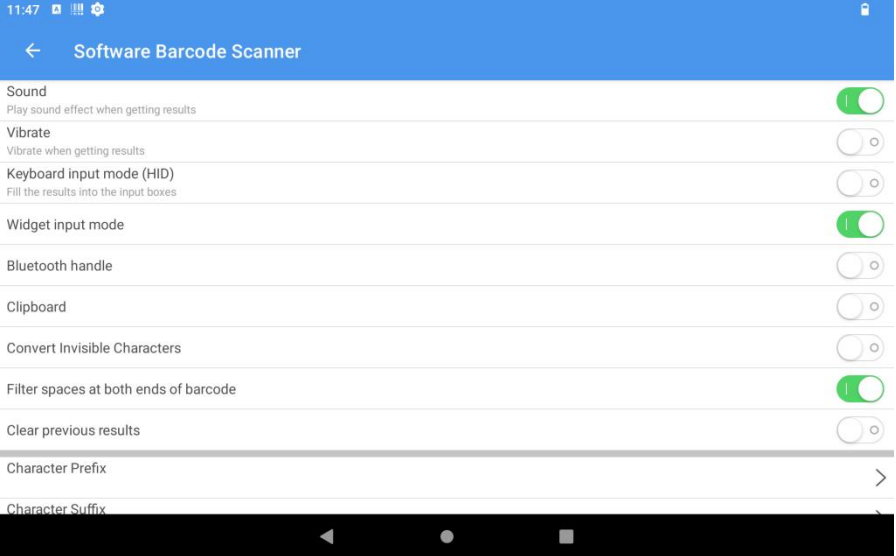
Hardware Decoder

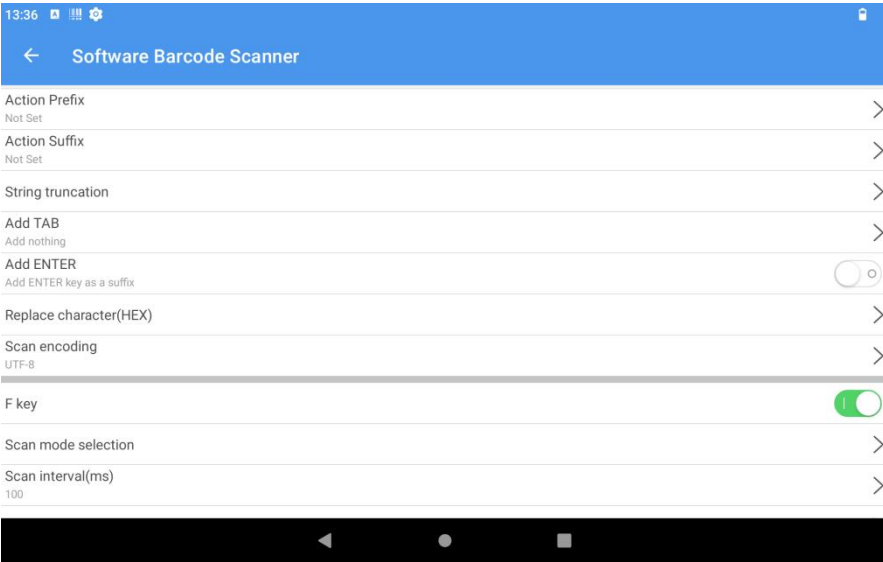
You can enable some basic Settings of the scanning module here, as shown below. When entering the "Hardware Decoder" APP for the first time, you need to set the corresponding models of scanning module, such as MOTOROLA 1D, MOTOROLA 2D, Honeywell 1D, Honeywell 2D, Totem 2D, New Land 2D, etc.





Setting buttons in the upper right corner: including four sub-modules of "General Settings", "Code Settings", "Restore Default Settings", and "Check for Updates".





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.

Code System Settings

Set the code system of different bar codes, such as whether to disable/enable the start bit, check code, bar code reading character range, and so on.

Module Settings

The scanning module function can be used only when the corresponding model of scanning module is set. If it is set incorrectly, the bar code cannot be read.

About

Includes App version, and reset APP option.

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.

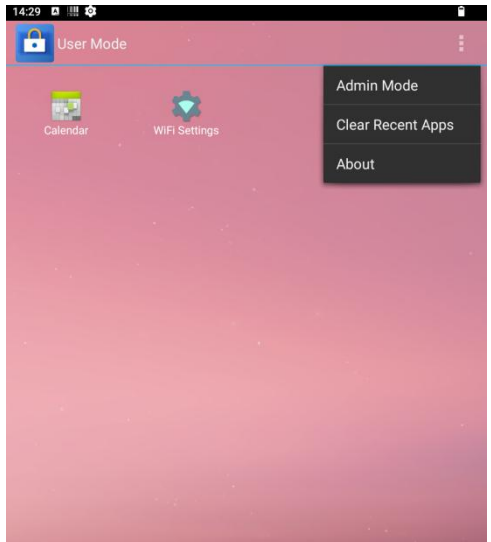
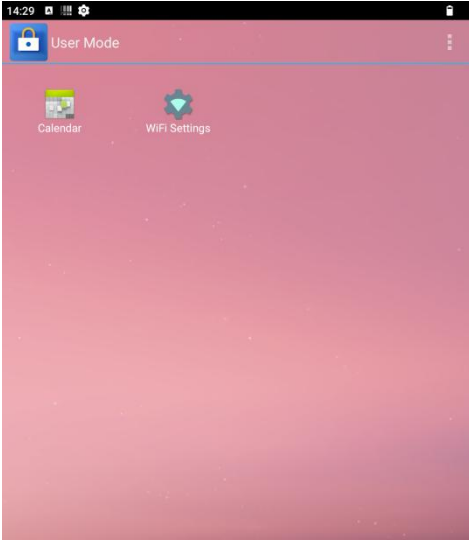
Application: You can restrict device applications to run administrator-specified applications or services through Kiosk Mode, thus enabling the device to be better used for customer-facing kiosks, interactive signage experiences, and other services, helping to restrict the interface available to customers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

1. Interface Description

1.1 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.



1.2 Admin Mode function details

User Mode

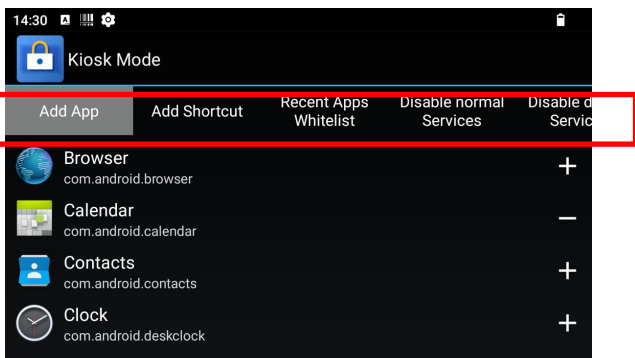
Function: Click to switch user mode

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:

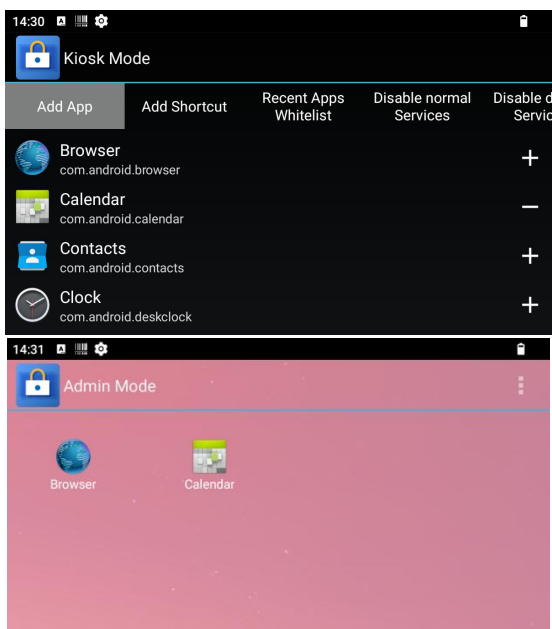
- 1、Limit the programs or services that can be used in user mode.
- 2、Setting a whitelist for clearing recent tasks, thus protecting applications from running in the background while cleaning.
- 3、Hide the applications in the list of disabled system services, even if the user exits Kiosk Mode, you can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



Details of each Settings

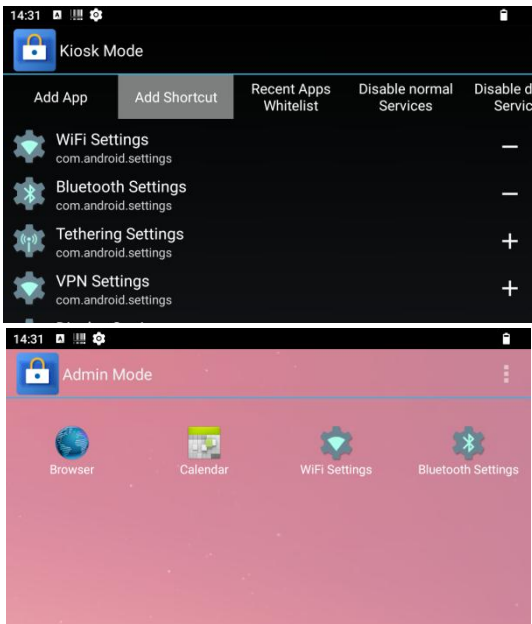
Add App

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).



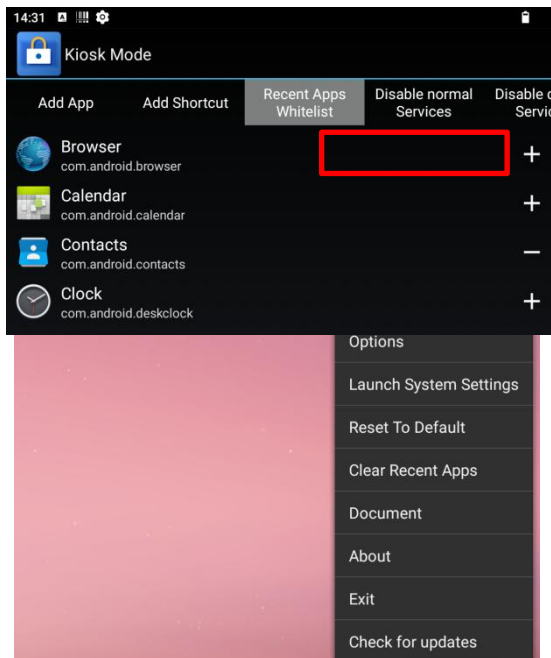
Add Shortcut

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).



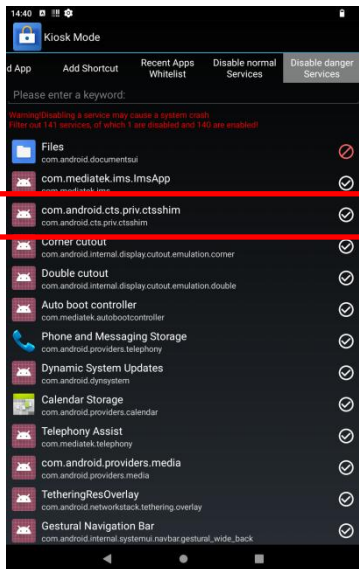
Recent Apps Whitelist

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.



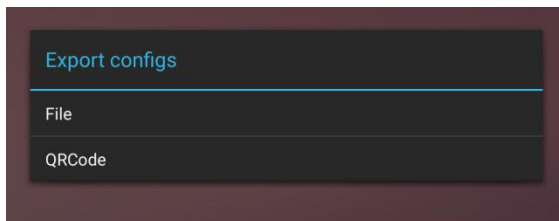
Disable System Services

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).



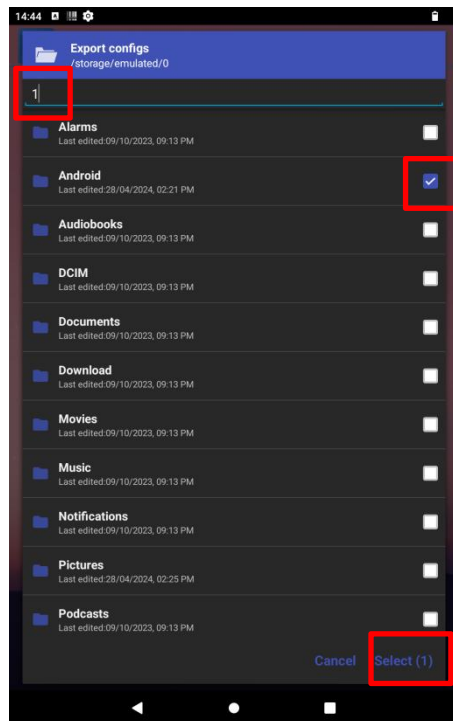
Export

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

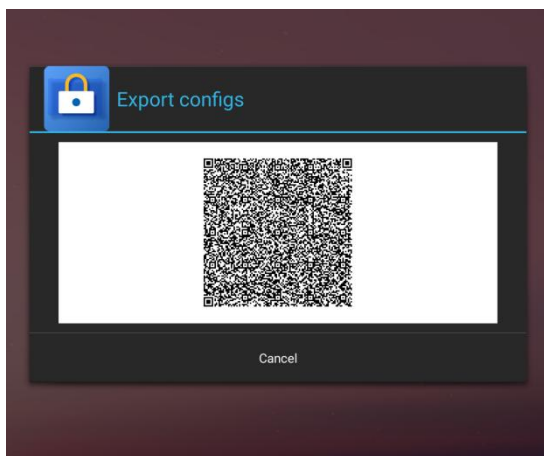


Operation:

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

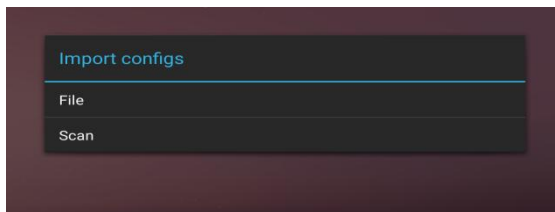


QR Code Export: Click "QR Code" to generate the QR code saved in the configuration



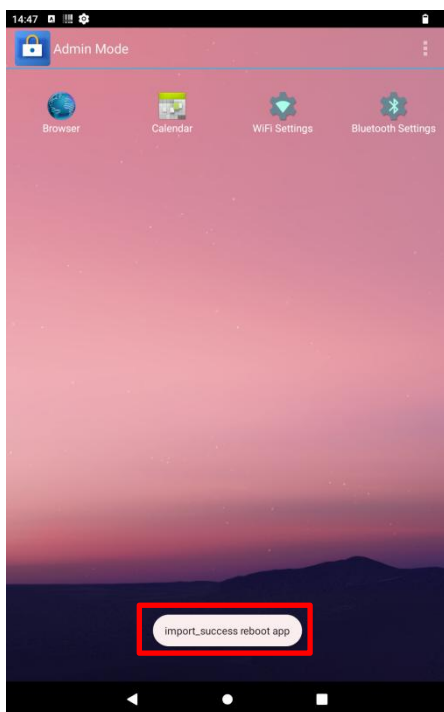
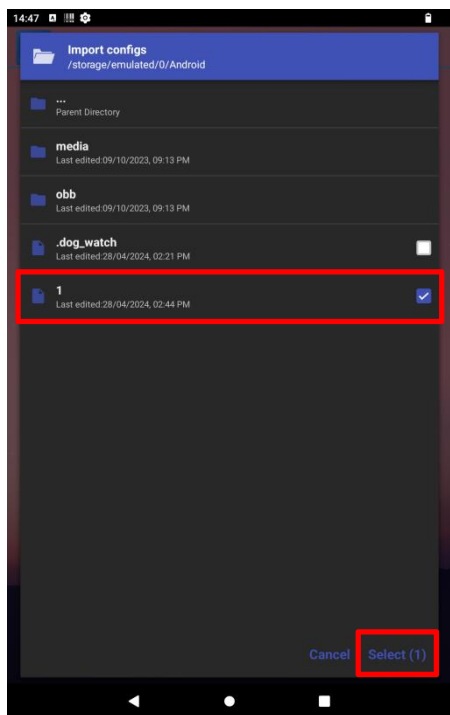
Import

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

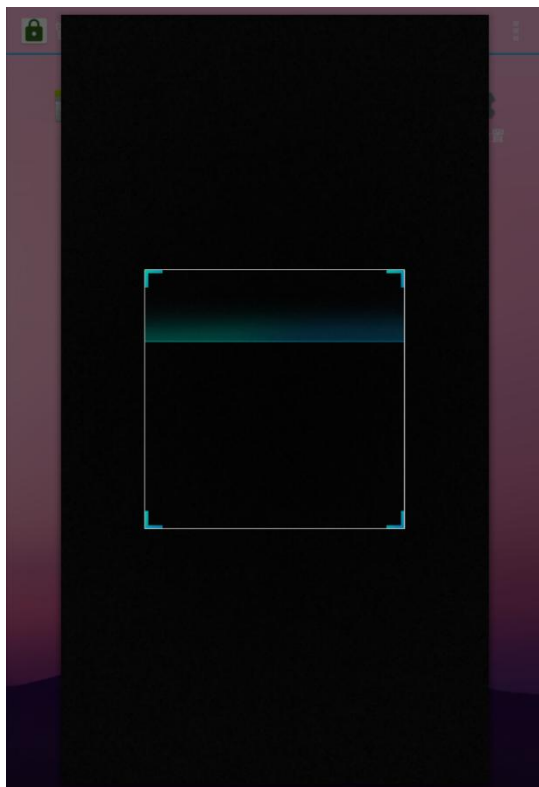


Operation:

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.



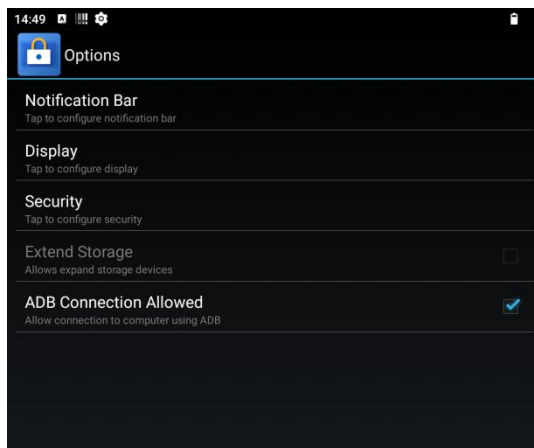
Scan Import: Click "Scan" to bring up the scan box, scan the QR code where the configuration is located, after successful identification, "import_success reboot app" will appear, that is, the configuration application is successful, reboot and use it.



Options

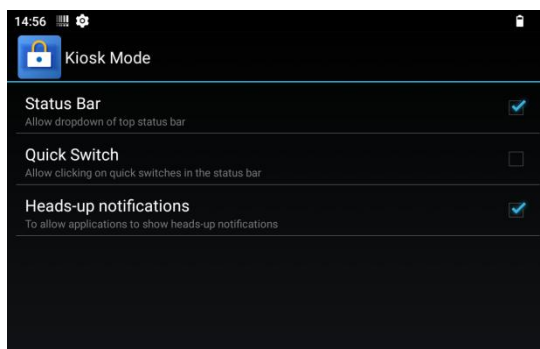
Functions: By entering the options, you can set the following functions:

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.

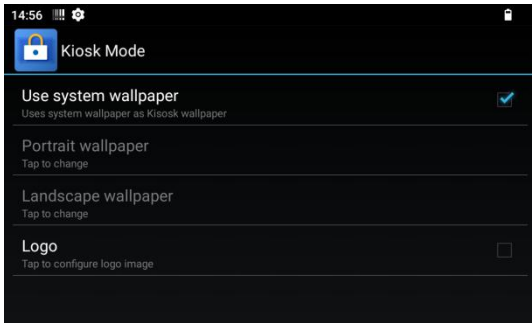
“Enable Notification Bar” : When selected, the notification bar can be scrolled down and expanded, when cancelled, the notification bar cannot be scrolled down and expanded.

“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.

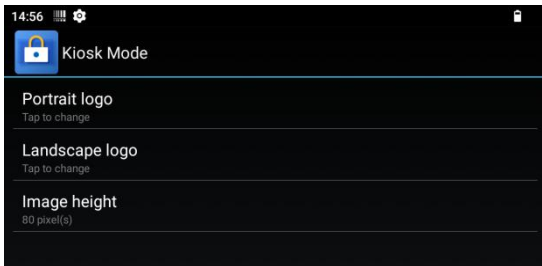
Display



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

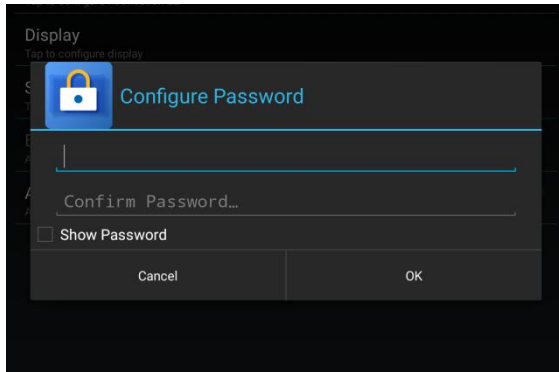
“Portrait wallpaper” / “Landscape wallpaper” : Cancel "Use system wallpaper", you can customize Kiosk wallpaper content, there are two modes of portrait and landscape wallpaper to choose.

“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

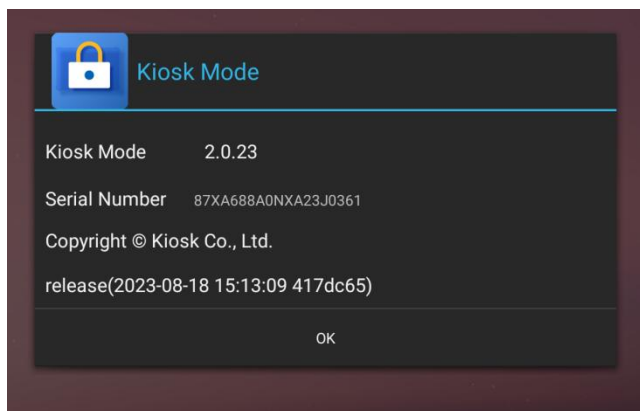
Function: Clicking on it will clear the original settings and return to the original default values.

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.

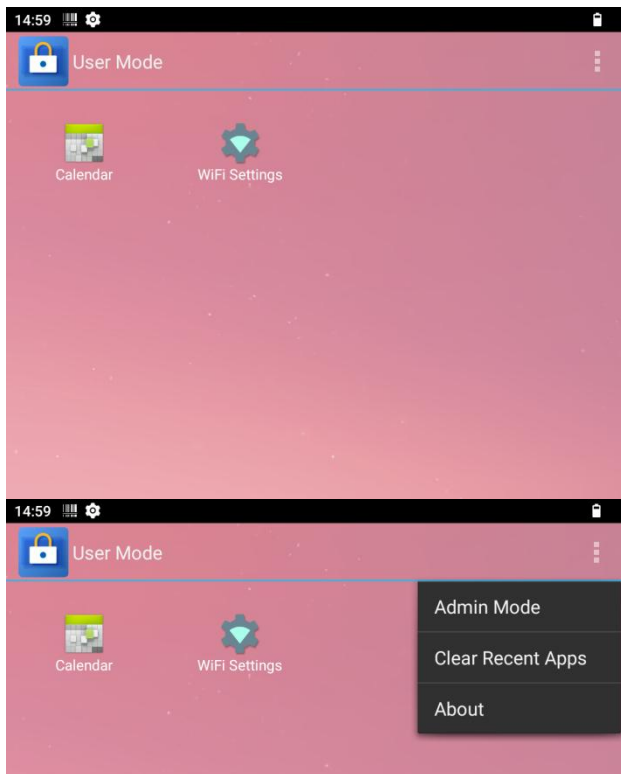
Check for updates

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

1.3 User Mode

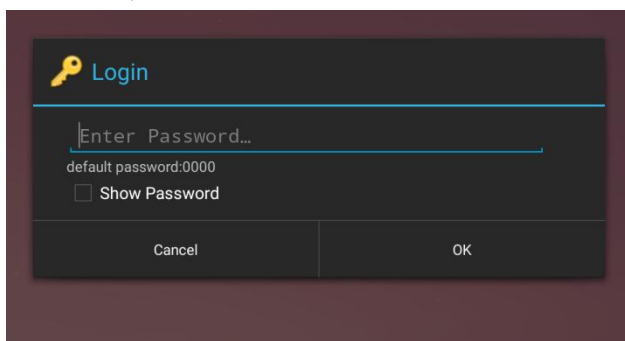
Function: In this mode, users can only use the programs or services allowed by the administrator.

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 1.2 Admin Mode for details)

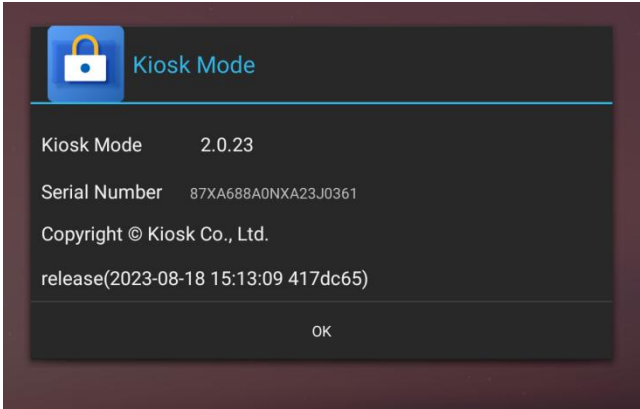


Clear Recent Apps

Click to clean up the recent background tasks outside the whitelist (go to Admin Mode to set the recent apps whitelist, please refer to 1.2Admin Mode for details)

About

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



2. Application Guidelines

2.1 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 1.2 Admin mode – Options – Notification Bar).

2.2 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.

2.3 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.

TF Card Installation

After removing the battery from the back of the tablet, insert the TF card in this location for them to be recognized.

Note:

1. Due to the requirements of the Android system, the TF card must be formatted as FAT32/exFAT. If a format prompt appears after inserting the card, please click "Format."

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
 - (2) this device must accept any interference received,
- including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
Specific Absorption Rate (SAR) information:
This Rugged Tablet meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement

This radio is designed for and classified as "General population/uncontrolled Use", the guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The exposure standard for wireless radio employs a unit of measurement known as the Specific Absorption Rate, or SAR, the SAR limit set 1.6W/kg.

Body-worn operation; this device was tested for typical body-worn operations with the back of the handset kept 0mm for body worn. To maintain compliance with RF exposure requirements, use accessories that maintain a 0mm for body worn. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.

The highest reported SAR value for worn on the body is 1.021 W/kg.

End

Thank you

If you have any questions, please contact us!