

KT50

Quick Guide

Android 5.1



List

KT50 SPECIFICATIONS.....	2
External structure.....	5
Overall	5
Card slot.....	6
Android 5.1 introduction.....	7
System lock screen	7
Main interface	8
All applications	9
Basic application and settings	10
Phone.....	10
Camera	11
Set the language	12
A key scan.....	13
Include key-values	14
Include key.....	14
Instructions.....	15
RFID Read (optional).....	16
HF high frequency	16
UHF	17
LF Low frequency	18
Basic model description	19
Special function customization instructions	20
Technical Support Contact	20

KT50 SPECIFICATIONS

Basic parameters	
CPU	ARM Cotex-A53 1.5GHz quad-core
OS	Android 5.1
RAM	1GB/2GB
ROM	8GB/16GB
TF Card	Micro SD Card , Compatible 128GB
Keyboard	16 keys + Power key , LED keypad backlight
Battery	Capability:2600mAh, 7.4V(Low temperature), Standby for 15 days, Chang 8hours of continuous work
Battery Charger	DC Special charger, Output voltage:9V, Output current:1.2A
Network	1.Bluetooth V2.1+ EDR/ V3.0+ HS/ V4.1
	2.WIFI 802.11 b/g/n/a 2.4G/5G
	3.GPRS/EDGE/HSPA/CDMA2000/TDD/FDD
GPS	GPS, AGPS, BEIDOU, positioning accuracy of < 10 meters, positioning time<40s
Notification Method	Sound, vibration, LED tips
Audio	Built-in speaker
Size	175mm*76mm*28mm (standard size without extension)
Weight(with battery)	410g
Machine performance	
Operating temperature	Normal operating temperature -20℃ to 60℃, low temperature battery -30℃
Storage temperature	-45 ℃ to 60℃
Humidity	5%-95%(no condensing)
IP Code	IP65
Drop test	6 surface can withstand 1.8 meter drops to concrete floor of the impact.
Rolling test	Rolling specifications : 0.5 m / 1000 times (6 contact surfaces)
Electrostatic discharge (ESD)	± 15kV air discharge, ± 8kV contact discharge
Explosion proof grade	Ex(ib) II C T4 Gb
Camera	

Camera	Rear Camera: 8MP camera
Focus mode	Auto focus
Flash	Support flash, support flashlight
Display	
Display	5.0" IPS LCD
Screen resolution	720p (1280*720)
Touchscreen type	Capacitive touch screen
Back lighting	LED
Network	
Network type	Dual card dual , 4G Full Netcom
Support band	4G TDD-LTE : 1900/2300/2500/2600 MHz(B38/B39/B40/B41)
	4G FDD-LTE : 1800/2100/2600 MHz (B1/B3/B7)
	3G TD-SCDMA: 1900/2100 MHZ (B34 B39)
	3G WCDMA:850/900/1900/2100 MHz(B1 B2 B5 B8)
	2G GSM:850/900/1800/1900 MHz(B2 B3 B5 B8)
	CDMA&EVDO: 800 MHz(BC0)
Scalability	
Physical interface	Micro SD/TF card slot , SIM card slot , 2 PSAM card slot
	Micro USB interface , 3.5mm headphone jack , RS232/485 serial ports
Scanning head reading distance	5cm-40cm according to different barcode size and resolution
Barcode scanning supports barcode type	One-dimensional bar code UPC / EAN / JAN , GS1 DataBar , Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post, 2D Stacked: PDF417, MicroPDF417, GS1Composite
	Two-dimensional bar code Aztec Code, Data Matrix, QR Code, Micro QR Code, Maxi Code, Han Xin Code, Postal: Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code , GM code , true code
RFID	1. High Frequency : 13.56MHz Supported protocols : 14443A, 15693, NFC Reading distance : 0cm-5cm
	2.UHF :UHF 900MHz Support reading and writing Support EPC C1 GEN2/ISO18000-6C agreement Tag processing speed >200/s Reading distance 0-5m
	3.ID card: 13.56MHz

	Support the second generation ID card to read the complete information and analysis, does not require networking
	4. Low Frequency 134.2KHz, 125KHz Support ISO/IEC11784/5 agreement
Infrared module	Power infrared meter reading module , 38kHz , 940nm Meet the power meter DLT 645-2007 and DLT 645-1997 standards
Fingerprint module	Semi conductor fingerprint, fignerprint1000 , Speed 1:1000 < 1s
Temperature measurement module	Support ambient temperature , target temperature test
Three-channel read head	Adapt to all types of magnetic stripe membership card
IC card	ISO 7816, GSM 11-11,EMV4.2 and EMV 2000
Thermal print head	The roll width is $\pm 58\text{mm}$, The roll thickness 40mm 16/24dot matrix, speed can be adjusted
Accessories	
Standard Accessories	USB data cable, special charging adapter , battery
Optional Accessories	Spare battery , charging base

External structure

Overall

Top of the machine and back of the head:

The head can be installed bar code scanning, RFID and infrared and other expansion modules; support for semi-custom.

Volume keys: two keys on the left side of the screen, from top to bottom are volume add, subtract key.

Camera shortcut key: The screen on the right button, you can directly open the camera to take pictures.

Scan:  menu:  Custom key: 



Card slot

4G SIM card slot: Full Netcom 4G SIM card slot.

Micro SD card slot: External memory card slot.

PSAM Card: PASM function with default PASM slot machine.

4G & PSAM card slot: Default is 4G SIM card slot, you can expand the use of double PSAM.



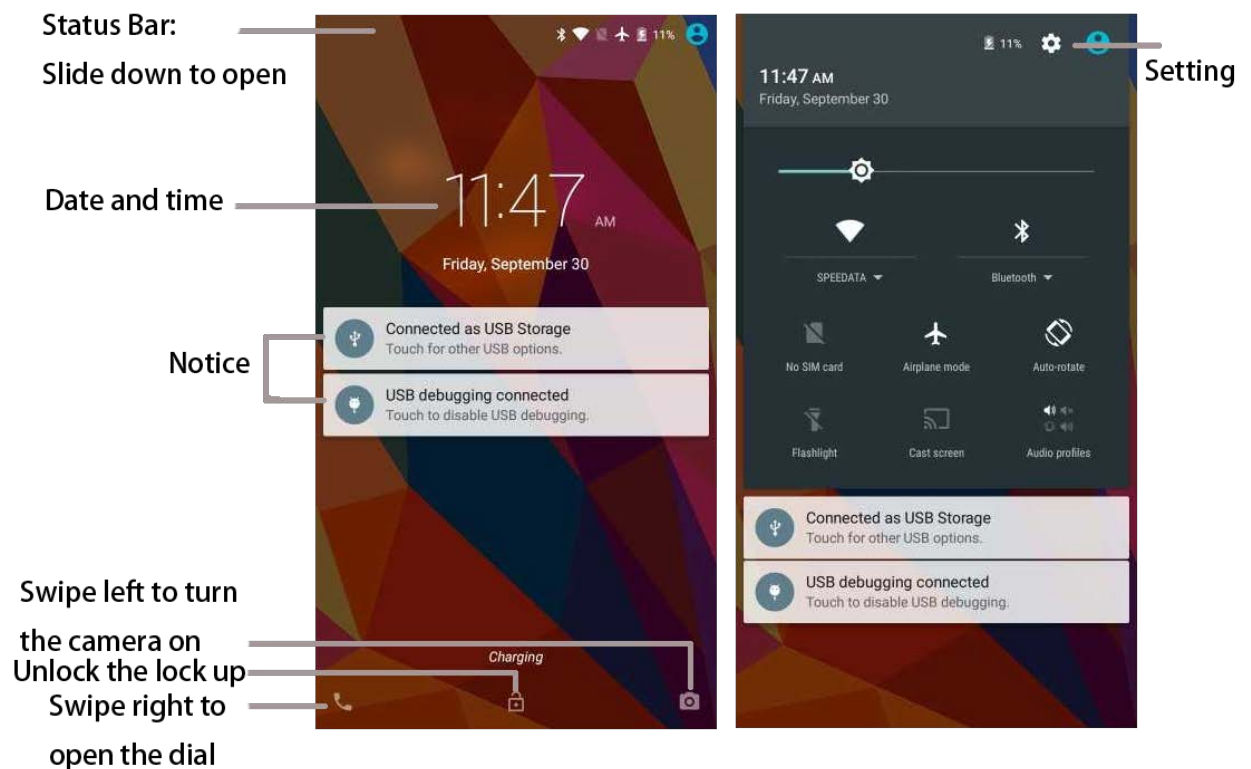
Android 5.1 introduction

System lock screen

If you don't have a screen lock, you can unlock it, open an app, and view notification.

Quick Setup: Touch the screen to the top position and slide the notification bar, directly touching the icons setting, but also directly touch the top of the System Setup icon to enter system settings.

Notice: Double-click to expand, touch to view press and hold the left and right point slide removed.

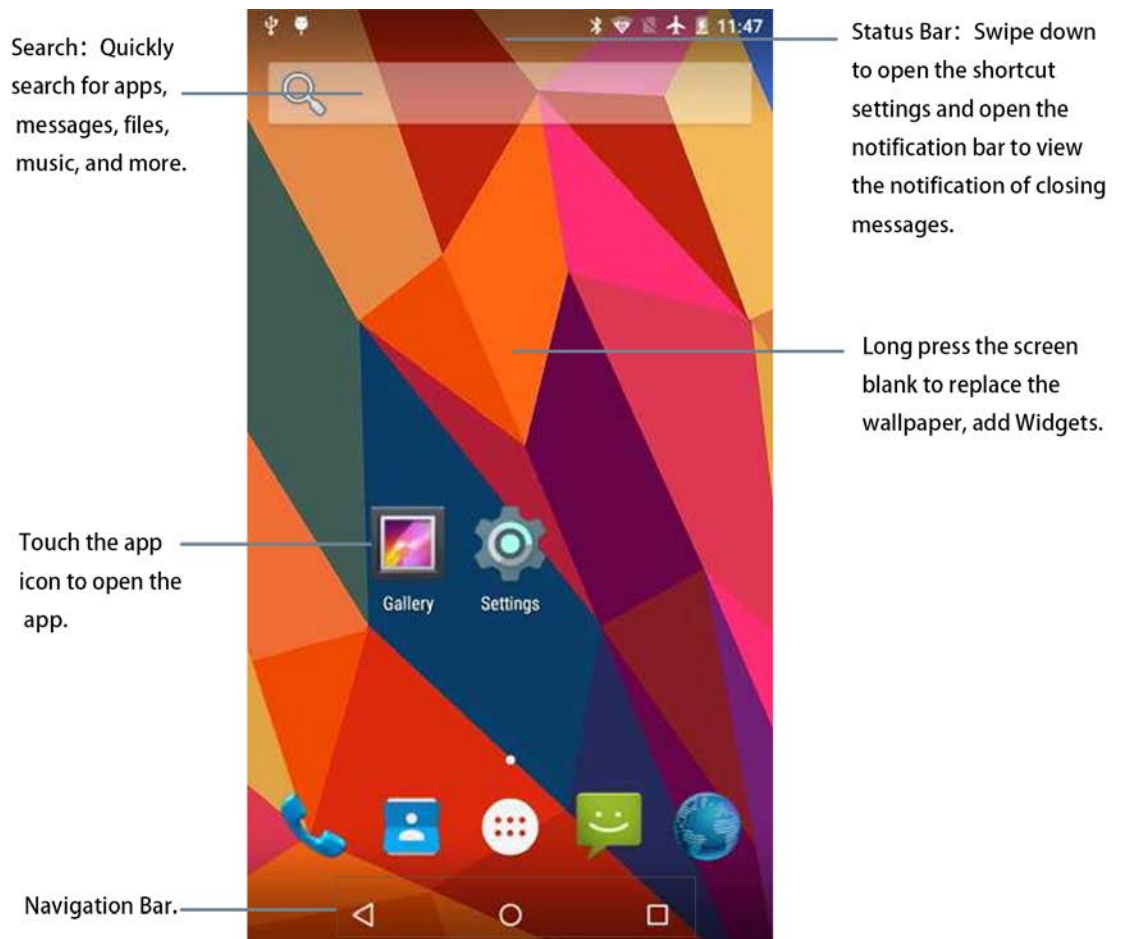


Main interface

In the main interface, you can observe the state, view the notification, open the application, such as search.

Add application shortcuts: Point hold the app icon and then move to the main screen anywhere.

Settings: Change screen brightness, WLAN, etc. Can be directly slide down the status bar, quick operation settings.



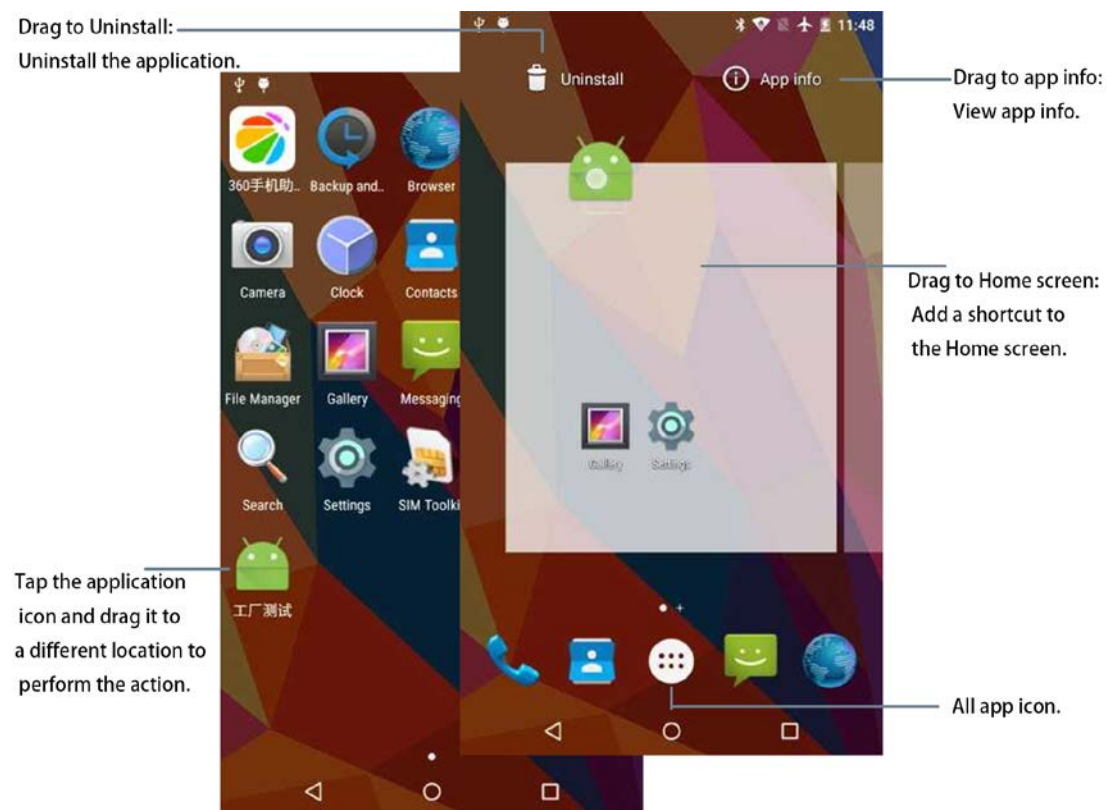
All applications

Touch the “All app icon” in the Favorites bar to see all of the apps already installed on your current device.

Swipe the screen left or right to see all your apps.


Touch the icon to open the app.

Tap and hold the icon to add a shortcut to the Home screen, to view the application information, or to uninstall it (The system application can only view the application information).



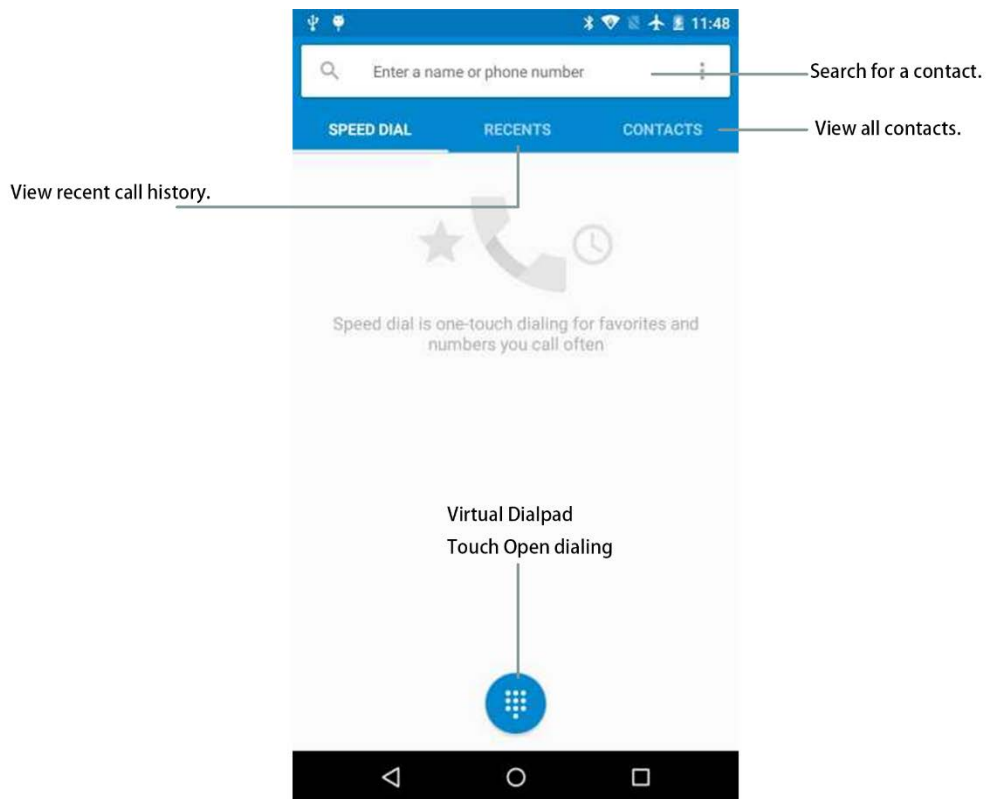
Basic application and settings

Phone

Favorites bar or touch **the phone icon in all applications** , or slide the screen to the right to enter the dial screen interface can use the phone function.

Speed Dial: Shows stored in your phone, and favorite contacts.

Outbound dialing: Dial opening disk, use the virtual dial pad to enter or use the hardware keyboard to enter the number.



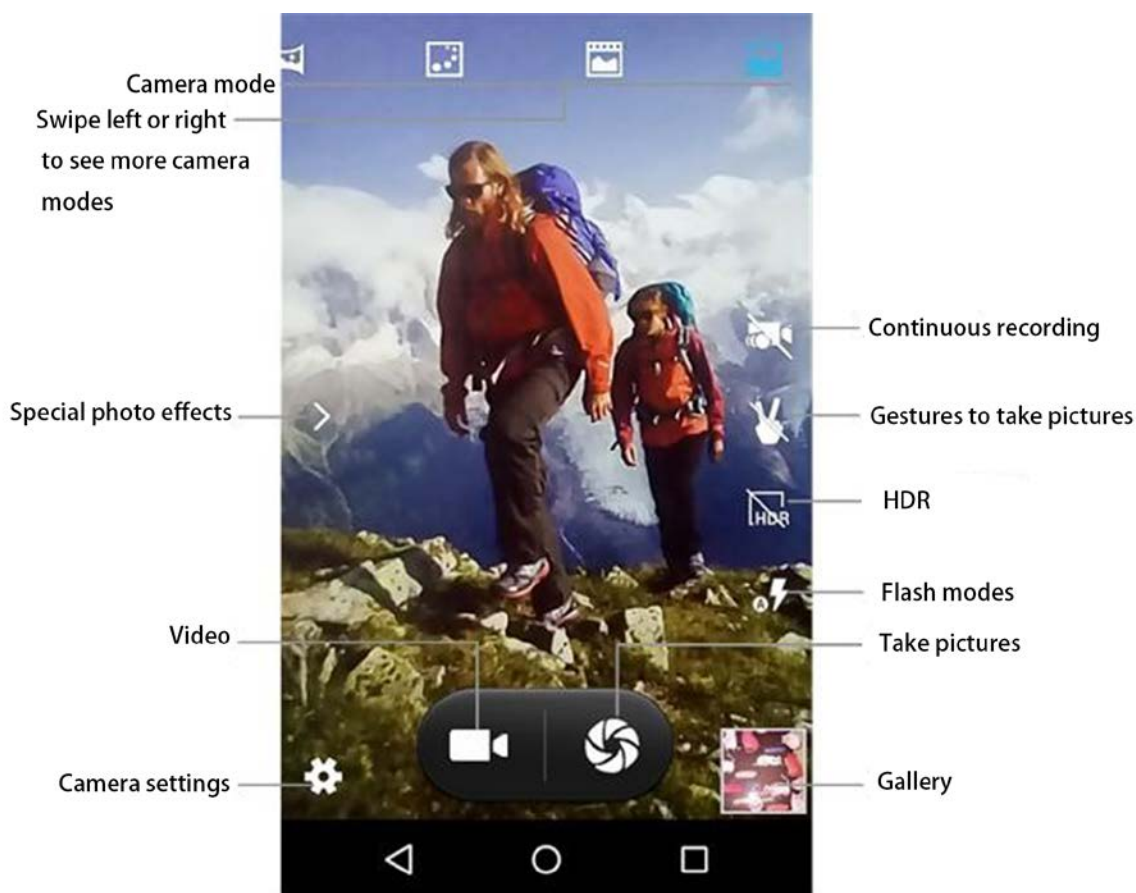
Camera

There are three ways to turn the camera on: the screen lock screen to left, touch the camera application icon, and press the camera shortcut key (on both sides of the screen).

Snapshot Mode: Swipe left or right to see more pictures mode.

Flash modes: automatic, always on, and always off three modes, default mode.



Continuous recording: Open the recording can be performed repeatedly.



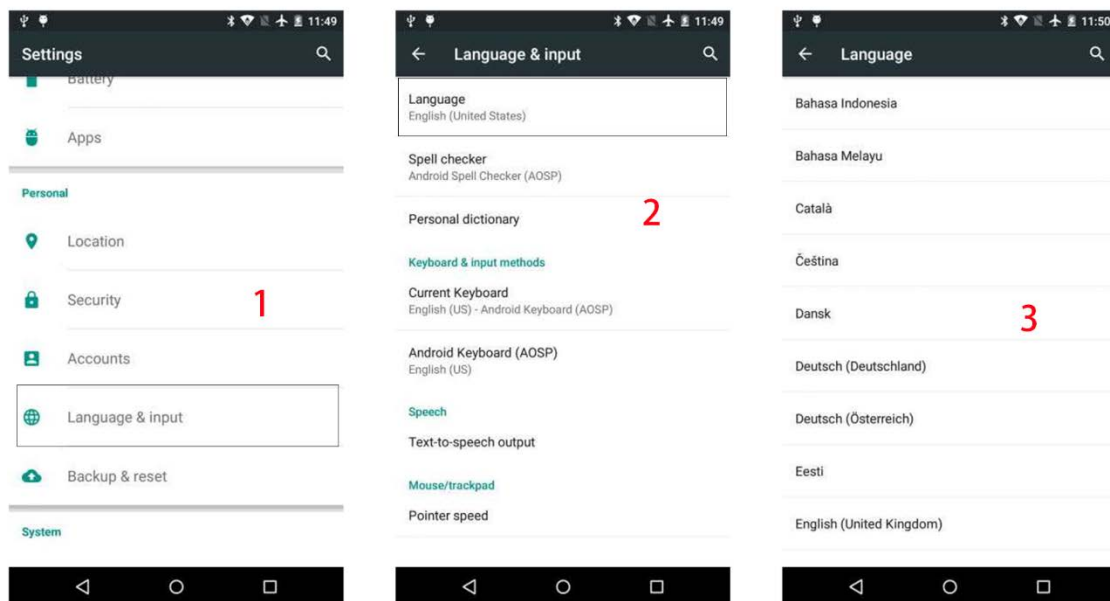
Set the language

The default display language is English. Brush to upgrade the system version or restore the factory settings, the system display the language back to the default settings.

Can be put into the local use of telephone card changes, or enter the system settings changes.

Touch the Settings icon  or .

Proceed as follows:



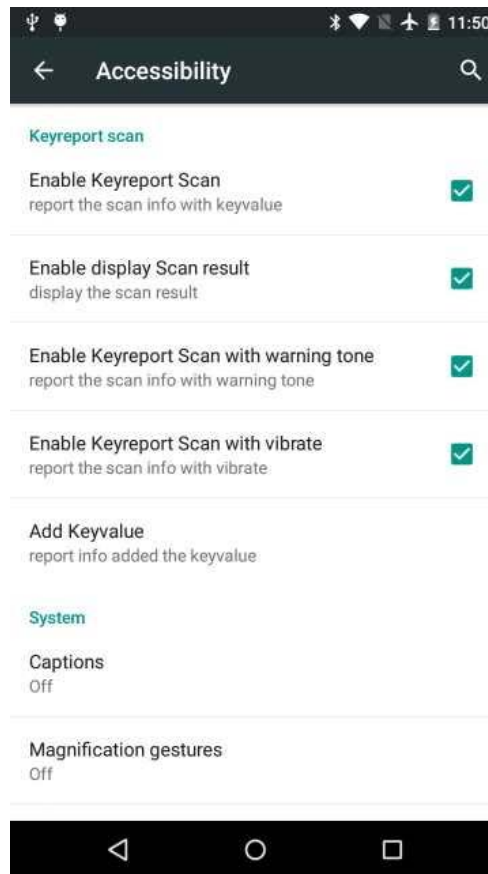
A key scan

A key scan is also called quick scan. This feature allows you to directly bar code or two-dimensional code scanning, hereinafter referred to as bar code.

A key scan settings

The device does not open a key by default, you want to use the need to open and set.

Settings→**Accessibility**→**Reported Scan key** contains all the relevant options.



Check **Enable reporting Scan key** to open a key scan function.

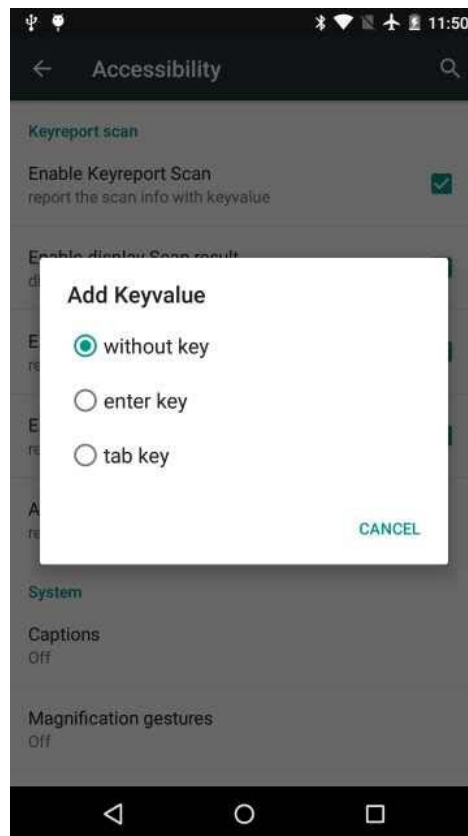
Enable Display Scan Results: checked by default, scan the bar code successfully reported and displayed information is displayed at the current cursor position; is not checked, then any reported success but does not display the bar code information can be determined display position themselves in specific applications and the way.

Enable scanning tone: When checked after scanning you will hear “ding” sound.

Enable scanning shock: When checked in after a successful scan machine will vibrate.

Include key-values

Include key: in the back of the bar code information display included with the other key, the default is "without warranty key." "With enter key" After the success of the scan with enter carriage return line feed, "with tab key" after the success of the scan tab to the next tab stop.



About "Enable display scan results" and "Include key values":

Check the "enable display scan results", that is reported and displayed bar code information, bar code information will be attached to the key value;

Do not check the "Enable display scan results", that is, only reported but does not display the bar code information, will not be accompanied by key values.

Instructions

Use one-touch scan to set the operation steps are as follows:

First, a quick scan opens. Please enter the settings → accessibility, check the "Scan key reporting" category under the "Enable reported Scan key." You can see the scanning beam by pressing any of the scan keys (the scan key on the keyboard or the scan key on both sides of the screen).

Then, enter the bar code display interface. Open any available display interface and specify the focus, such as: Message, "To-do" and add new items and "Search" on the desktop.

Finally, a quick scan is performed. Press and hold the scan key and align the scanning beam at the barcode. After the scanning, the head light will be off, and the corresponding bar code information can be seen on the device. **Depending on the version, the scan is divided into two cases: press and hold the scan button that is scanning light, release that is off; click the scan button appears scanning light, sweep to the bar code or more than the scan time exterminate.**

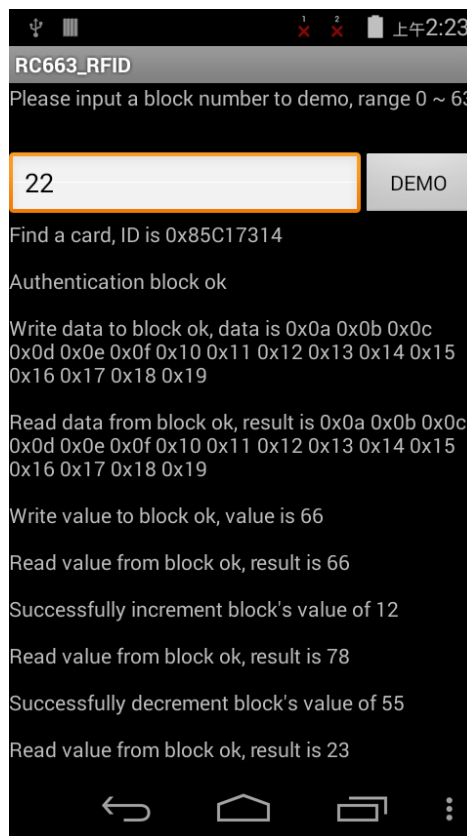
(If you want to hear a tone or vibrate after scanning successfully, you need to check the corresponding "Enable scanning tone" and "Enable scanning vibration".)

RFID Read (optional)

HF high frequency

With RC663 high-frequency module equipment, high-frequency models for the general model after the addition of "-R6".

The DEMO program RC663_RFID can be selected in all applications. In the demo interface, select the protocol that matches the label to enter the demo (to demonstrate the M1 card as an example), put the card into the operating range, enter a sector number you want to demo, point DEMO will automatically read and write sector (if the card does not encryption).

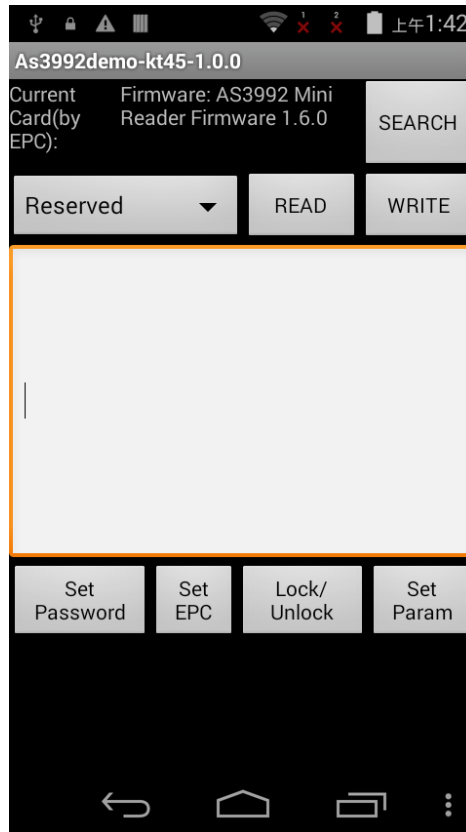


(Please refer to the latest SDK sample program if the specific procedure and description picture are different.)

Users based on the terminal to do RFID-related application development, can be downloaded from our official website to download the appropriate SDK development information, or contact us for.

UHF

Ultra-high frequency machine is divided into two modules, AS3992 module UHF machine model in the ordinary model after the addition of "-UHF", R2000 module for the general model after the addition of "-UR2K" or "-UR2KLA".



(Please refer to the latest SDK sample program if the specific procedure and description picture are different.)

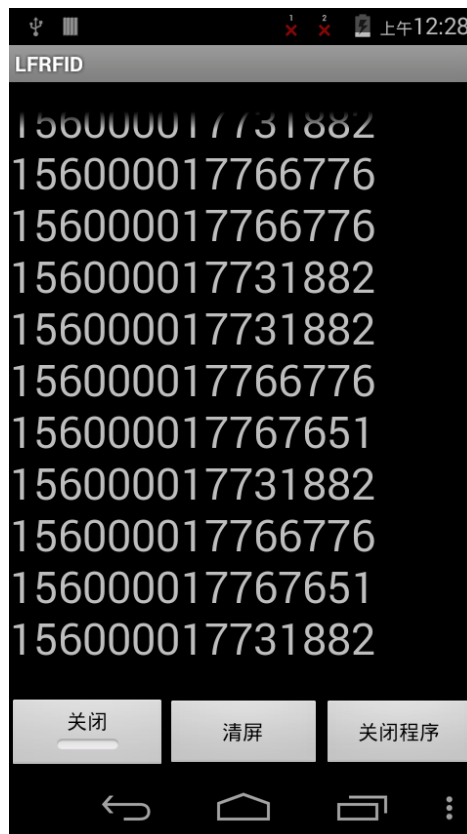
In all applications can be found DEMO program, open the program after the first point SEARCH, pop-up interface point Start card. You can see the search card within the label EPC, Stop stop the search card, in the list, select the label EPC demonstration. After successful return to the main interface. Detailed operation consulting us.

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LF Low frequency

LF low-frequency module is divided into two kinds, one is 134.2KHz (LF1), the other is 125KHz (LF2). LF equipment model for the general model and add "-LF1" or "-LF2". Such as with a 134.2KHz low-frequency module, model name "KT50-LF1".

With LF, the DEMO program is visible in all applications. Open the program to demonstrate the operation of the corresponding frequency band LF label. So **close** to an **open point**, you can see the tag ID on the screen after the label into the operating range, press the **return key** to exit the program or close the program.



(Please refer to the latest SDK sample program if the specific procedure and description picture are different.)

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Basic model description

Serial number	Model	Configuration instructions
1	-S	Standard configuration, WIFI/BT/GPS/4G
2	-SY	With increase of Symbol on the basis of SE955 one dimensional laser scanning head
3	-N43	With increase of Honeywell on the basis of N4313 one dimensional laser scanning head
4	-NL95	Increase of Newland EM3095 2D hardware solution based on the standard scan head
5	-NL2D	Increase of Newland EM3000 2D hardware solution based on the standard scan head
6	-SE45SR	With increase of Motorola on the basis of two-dimensional SE4500 software solution scan head
7	-R6	On the basis of NXP 13.56MHz standard RFID chip card reader
8	-R91	On the basis of PN547 NFC standard chip card reader
9	-LF1	Increase the standard based on low frequency 134.2KHz
10	-LF2	Increase the standard based on low frequency 125KHz
11	-UHF	Based on the standard AS3992 scheme increases the 900MHz ultra high frequency
12	-UR2K	Based on the standard R2000 scheme increases the 900MHz ultra high frequency, Large antenna
13	-UR2KLA	Based on the standard R2000 scheme increases the 900MHz ultra high frequency, Small antenna
14	-PSAM	On the basis of standard PSAM card
15	-ICM	The standard on the basis of a contactless chip card
16	-ID2	Two generation ID card module based on standard
17	-IPOR	Increase the power of infrared data transmission module based on standard meter
18	-PE48S	Add printer based on standard
19	-KTCS1	Key board to increase the TCS1 fingerprint + decoder board models
20	-KTCS1G	Key board to increase the TCS1G golden fingerprint head models
21	-KTCS1B	Key board to increase the TCS1B black fingerprint head models

Special function customization instructions

The terminal reserves a variety of interfaces and flexible structural design to ensure that it can meet a variety of functional requirements. Can support RS232, I2C, RS485 and other interface peripherals, can be extended to load a variety of functional modules, the specific needs, please contact us.

Technical Support Contact

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