IMX-3000

Rugged Handheld Device

User's Manual

Manual Revision:	0.2
Revision Date:	07.08.2014
Part No.:	50-1Z156-1000

Revision History

Version	Date	Description
0.10	2013/11/28	Preliminary release

Table of Contents

Product Notes

For user safety, please read and follow all instructions, WARNINGS, CAUTIONS, and NOTES marked in this manual and on the associated equipment before handling/operating the equipment. To avoid damaging the product due to improper operation, please read the manual thoroughly before use.

CAUTION:

- IMX-3000 working temperature:
  For 1D and 2D model, the operating temperature range (discharging) is -10°C to 50°C.
  For CCD model, the operating temperature range (discharging) is -10°C to 50°C.
- All model of storage temperature range is -20°C to 60°C.
- All model of charging temperature range is 0°C to 40°C.
- The use of any batteries or accessories not originally sold or manufactured by ADLINK may cause damage to the product.
- The charging cradle only supports charging of two batteries simultaneously. Attempting to charge three or more batteries at the same time may damage the cradle or result in other safety risks.
- Only connect one device to the DC adapter when charging the batteries as this may damage the cradle or result in other safety risks.
- Do not power on the IMX-3000 if it is forbidden to use wireless equipment or if using such equipment will cause noise, interference or other dangers.
- Wireless devices may suffer decreased performance due to electromagnetic interference.
- Power off the IMX-3000 when refueling. Do not use the IMX-3000 in gas stations or when near flammables.
- Power off the IMX-3000 in or nearby areas where blasting occurs and abide by related safety rules. Do not use the IMX-3000 in places with blasting operation.
- Only authorized maintenance staff can repair the IMX-3000.
- Before trying to connect the IMX-3000 to other devices, read the user manual for proper instructions. Do not connect the IMX-3000 to any incompatible products.

WARNING:

▶ Do not stare into the scanner beam to avoid injury to your eyes.

Important Safety Instructions

Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.

- Please read these safety instructions carefully.
- Please keep this User's Manual for later reference.
- The equipment can be operated at an ambient temperature of 50ºC for discharge; 40ºC for charge.
- The equipment should be operated only from the type of power source indicated on the rating label. Make sure the voltage of the power source when connect the equipment to the power outlet.
- If the equipment is not use for long time, disconnect the equipment from mains to avoid being damaged by transient overvoltage.
- All cautions and warnings on the equipment should be noted.
- Please keep this equipment from humidity.
- Do not use this equipment near water or a heat source.
- Never pour any liquid into opening; this could cause fire or electrical shock.
- Openings in the case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space around the system for ventilation when you set up your work area. Never insert objects of any kind into the ventilation openings.
- If one of the following situations arises, get the equipment checked by a service personnel:
  - Liquid has penetrated into the equipment.
  - The equipment has been exposed to moisture.
  - The equipment has not work well or you can not get it work according to user's manual.
  - The equipment has dropped and damaged.
  - If the equipment has obvious sign of breakage.
- Never open the equipment. For safety reason, the equipment should only be opened by qualified service personnel.

"CAUTION – Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions"

FCC Warning statement

a. for FCC 15b devices

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.

b. FCC Part 15.21 information for user

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

c. for mobile devices with co-location condition (the transmitting antenna is installed or located more than 20cm away from the body of user and near by person)

FCC RF Radiation Exposure Statement:

1. This Transmitter has been demonstrated co-location compliance requirements with (Bluetooth , NFC , 2G, 3G)This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

RF exposure for cellular phone

Cautions

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn operation

This device was tested for typical body-worn operations with the back of the phone kept 2.0cm from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0cm separation distance between the user's body and the back of the phone, including the antenna. 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 FCC RF exposure

requirements, and should be avoided. Vehicle mounted external antenna (Optional, if available) A minimum separation distance of 20cm must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

RF exposure information (SAR)

This GPS Controller meets the government's requirements for exposure to radio waves. This GPS Controller is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The exposure standard for wireless GPS Controllers employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 2.0 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the GPS Controller transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the GPS Controller while operating can be well below the maximum value. This is because the GPS Controller is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. The highest SAR value for US model GPS Controllers as reported to the FCC when tested for use at the body, as described in this user guide, is 1.280 W/kg.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

SAR標準值2.0W/Kg ; 送測產品實測值為:0.469 W/Kg

Quick guide

1   IMX-3000 layout
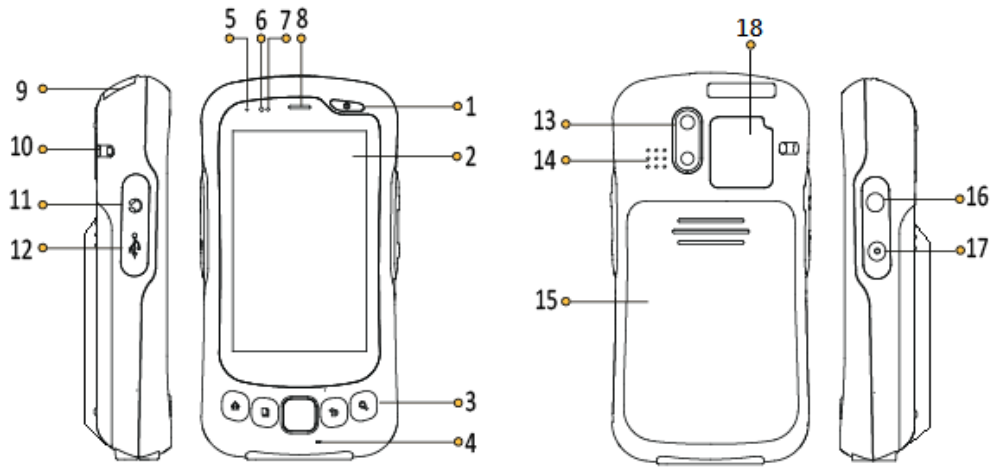
|		
1 Power key	7 Proximity sensor	13 Camera and Flash LED
2 LCD & Touch panel	8 Receiver	14 Speaker
3 Function key area	9 Scan window	15 Battery cover
4 Microphone	10 Lanyard	16 Volume up
5 Power LED	11 Headset slot	17 Volume down
6 Light sensor	12 USB port	18 NFC antenna

2   Package of Contents

The IMX-3000 is packaged with the components listed below. If any of the items in the contents list are missing or damaged, retain the shipping carton and packing material and contact the dealer for inspection. Please obtain authorization before returning any product to ADLINK.

- IMX-3000 Handheld Computer x1 pcs
- Li-ion Battery x 1pcs
- AC Adapter and plugs x 1set
- Hand rope x 1 pcs
- USB cable x 1 pcs
- Quick guide x 1 pcs

3   Installing SIM card and Micro SD card
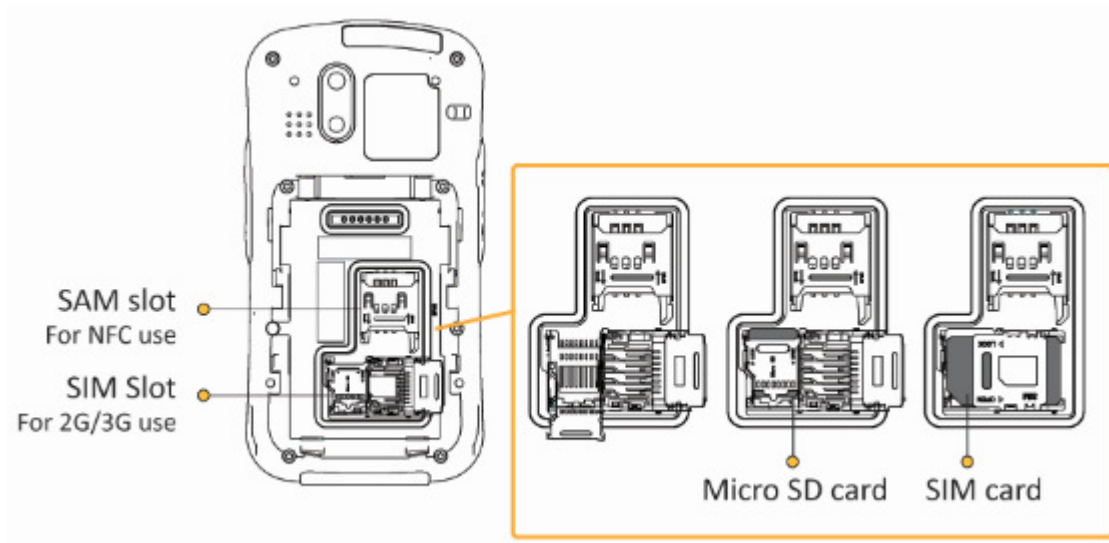
	▶	Insert the SIM card or Micro SD card in the correct direction.
NOTE:	▶	Lock the SIM card or Micro SD card cover after inserting the SIM card.

4   Install Battery

There ways to charge the battery.

4.1   USB Charge via DC adaptor: Connect the USB connector from the DC adapter to the USB socket of the IMX-3000 as shown. Insert the correct plug for your region into the DC adapter and plug it into the wall socket to begin charging.

4.2   Charging Cradle: Connect the DC adapter to the charging cradle to charge the IMX-3000 and secondary battery simultaneously.

4.3   Secondary Battery Charging: The LED on the charging cradle will change from red to green when charging is complete.

NOTE:

▶   The IMX-3000 cannot be charged while using the USB connection.

1   Android Wizard in first start

1.1   In first start IMX-3000, the Android Wizard will pop up. It shows how to set Android APP in to Home screen.

1.2   Release the page by pressing OK button.
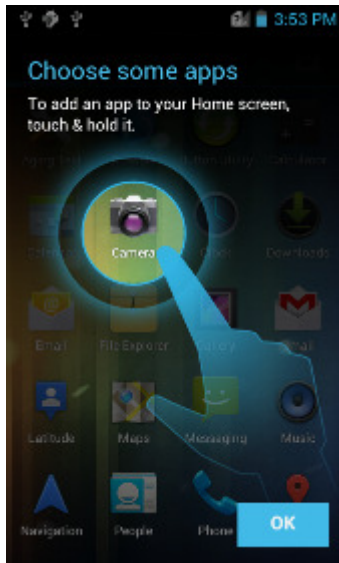
1.3   Press Applications icon, another wizard will shows up.

1.4   Release the page by pressing OK button.
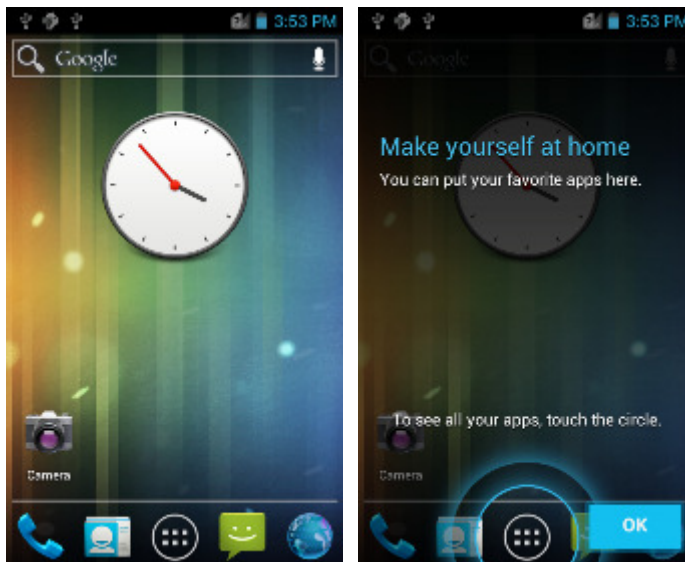
1.5   Unlock screening

The screen will lock in first start or resume by stand by mode, unlock the screen by

press and hold the lock icon   and then drag it to unlock icon.

2 Key Definition

Icon	Keys	Description
	HOME	Press this key to go back to the Android home screen.
	MENU	Press this key to open a menu with items that affect the current screen or application
	BACK	Press this key to go back to the previous screen you were working in.
	SEARCH	Press this key to open Google search for searching your phone, web and the applications.
	SCAN	When the barcode reader is enabled, press to start barcode scanning.

3 Status Indicator

3.1 Indicator LED

The indicator LED is located at the top-left of the IMX-3000.

	Description
Red LED	Battery is charging
Green LED	Battery is full charged.

3.2 Indicate icons

Icon		
	Battery capacity	Battery capacity remind indicator
	Battery charging	Battery is charging.
	Battery low	Battery capacity is less than 15%
	Battery very low	Battery capacity is less than 5%
	USB connected	USB cable plugged in with desktop PC or Notebook already
	Wi-Fi connected	Wi-Fi connected to Wireless AP already
	Airplane mode	All wireless feature will disable in airplane mode
	Bluetooth connected	Bluetooth power turned on already

2 Connecting to Wi-Fi Network

    (1)   Touch on the Home screen ＞ Settings ＞ Wi-Fi.

    (2)   Slide the switch to turn on Wi-Fi.

    (3)   The IMX-3000 scans for available Wi-Fi networks and displays their names. Secure networks are indicated with a lock icon.

    (4)   Touch a Wi-Fi network to connect to it. You will be prompted to enter a password or other credentials if the network is secured.

NOTE:

▶ If the connection is successful, the notification icon will display on status bar with the number of bars indicating the signal strength.

▶ If the network is Open, the IMX-3000 will connect to the network automatically. If the network is Secure, You will be prompted to enter a password or other credentials.

▶ The priority of Wi-Fi is higher than 3G in network connections.

3 Connecting to Bluetooth Network

3.1 Touch on the Home screen ＞ Settings ＞ Bluetooth

 ->

3.2 Slide the switch to turn on Bluetooth.

3.3 The IMX-3000 scans for available Bluetooth clients and displays their names.
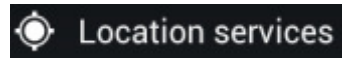
3.4 Touch a Bluetooth client to pair.
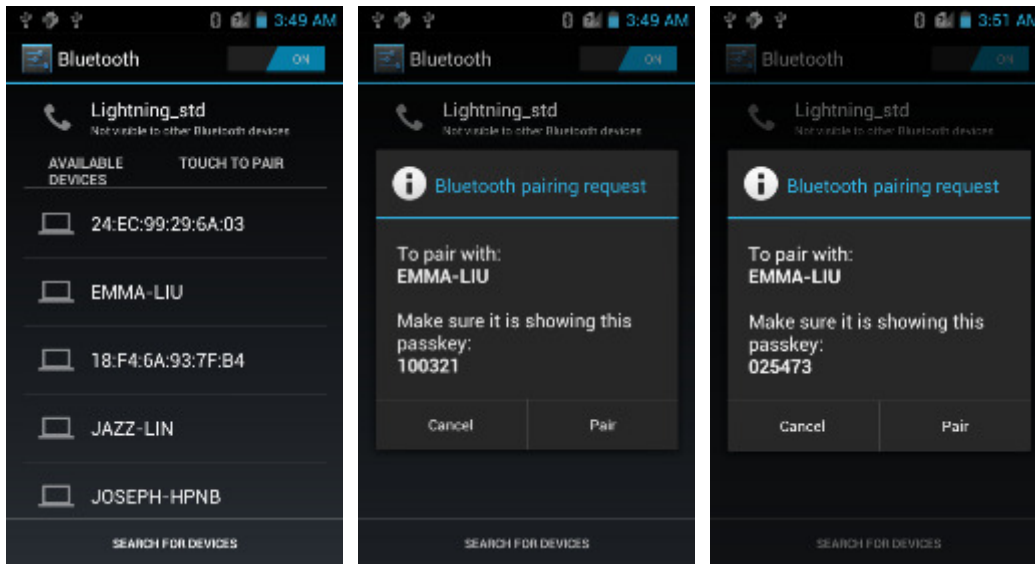
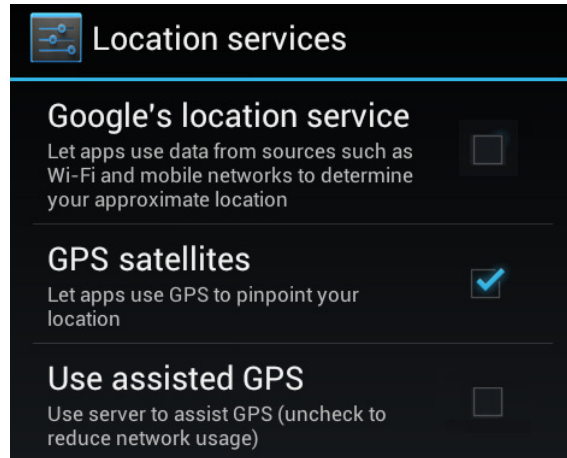| NOTE: | ▶ When Bluetooth is turning on, the notification icon will display on the status bar. You can start exchanging data with the Bluetooth device. ▶ Touch Menu to see more functions. ▶ While Bluetooth is on, the IMX-3000 will search and display available devices and the notification will display on the status bar. |

4   Using GPS & AGPS

4.1   Enable GPS

(1)   Touch [icon] on the Home screen > **Settings** [icon] ＞ **Location Service**

[image: Location services]

(2)   Enable **GPS satellite**.

[image: Location services screen showing Google's location service unchecked, GPS satellites checked, Use assisted GPS unchecked]

4.2   Get GPS location by Wi-Fi or mobile connection.

(1)   Touch [icon] on the Home screen > **Settings** [icon] ＞ **Location Service**

[image: Location services]
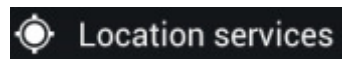
(2)   Enable **Google's location service**.

[image: Location services screen showing Google's location service checked, GPS satellites checked, Use assisted GPS checked]
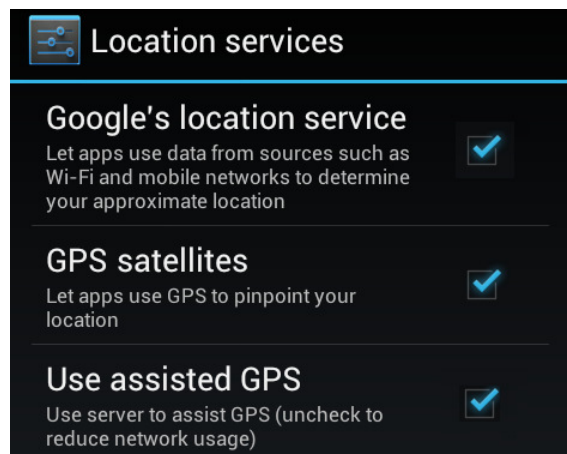
4.3   Get GPS location in Google map.

(1)   Touch [icon] on the Home screen > **Maps** [icon]
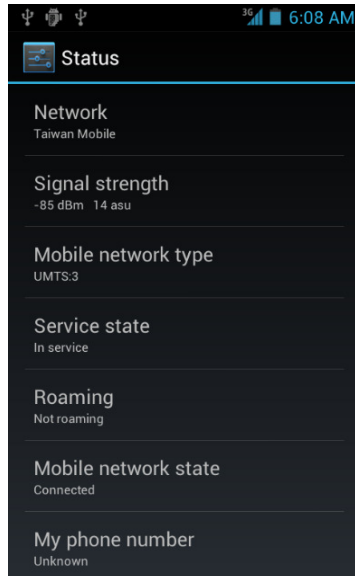
(2)   Get location in Google map.

| NOTE: | ▶ It may take several minutes for GPS to determine your location for the first time. GPS will be more time efficient after satellite locations have been saved. |

5 WCDMA/GSM

5.1 Carrier information

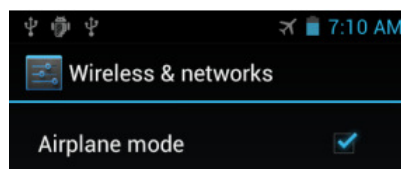Touch on the Home screen > *Settings* ＞ **About phone** > *Status*

The carrier and SIM relate information can be check.

(1) Network

(2) Signal strength

(3) Mobile network type

(4) Service state

(5) Roaming

(6) Mobile network state

(7) IMEI

5.2 Set Airplane mode

(1) Touch on the Home screen > *Settings* ＞ *More*

(2) Enable Airplane mode by touching the check box.

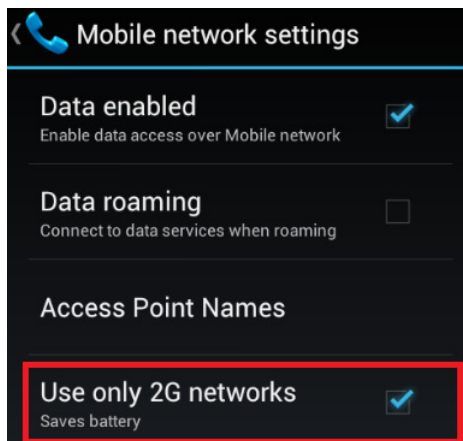

NOTE:

▶ All wireless function will lose connection if airplane mode.

▶ The icon of airplane mode will display in the status bar.

5.3   Enable 2G networks

(1)   Touch ⊕ on the Home screen > **Settings** ⚙ ＞ **More** ＞ **Mobile network**

settings

(2)   Enable 2G networks by touching the check box.
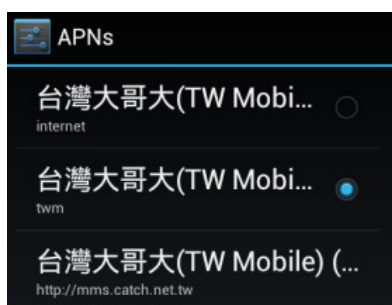

▶   2G icon will replace 3G icon in stats bar.

NOTE:

5.4   Set VPN

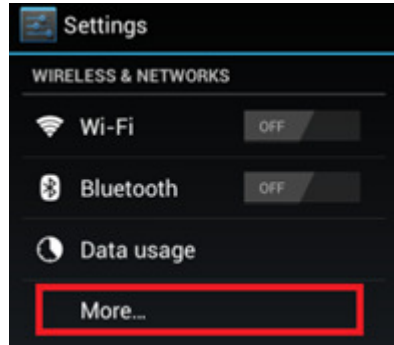(1)   Touch ⊕ on the Home screen > **Settings** ⚙ ＞ **More**

(2)   Set VPN by touching radio box.

6 NFC

6.1 Enable/disable NFC

(1) Touch [icon] on the Home screen > **Settings** [icon] ＞ **More**

(2) Enable/Disable **NFC**

NOTE:

▶ The NFC application require to additional installation.

Launch Camera by press Touch ⊞ on the Home screen, then ＞ *Camera* 📷

1 Picture mode

1.1 Taking a picture
 (1) Drag the control to the Photo position
 (2) Frame your subject on screen

 (3) Touch the onscreen Shutter ● icon to take a picture.

1.2 Zoom in and zoom out

Drag the scroll [− ○ +] to zoom in or zoom out.

1.3 Setting Flash mode

 (1) Press ⊟ on the screen.

 (2) Press ×⚡ to set flash mode.
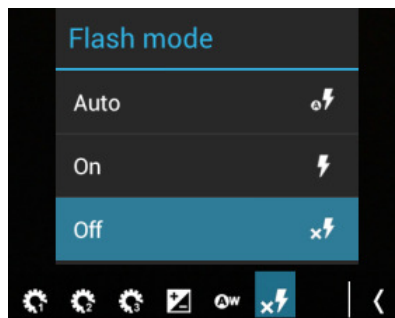
1.4 Setting storage location

(1) Press ⚏ on the screen.

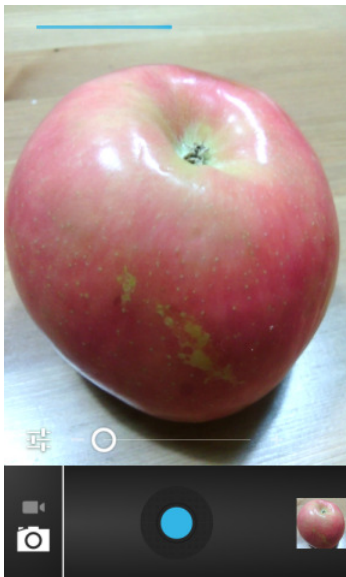(2) Press ⚙ > **Storage Location** to set picture/video storage location.
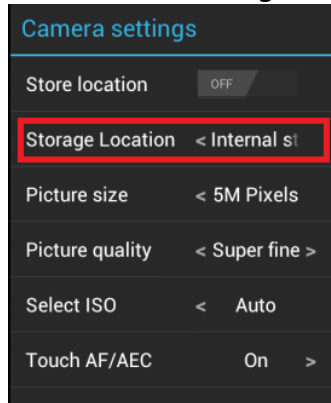
- ▶ Internal storage means EMMC storage.
- ▶ External storage means Micro SD card.

1.5 Setting picture size

(1) Press ⚏ on the screen.

(2) Press ⚙ > **Picture size**.
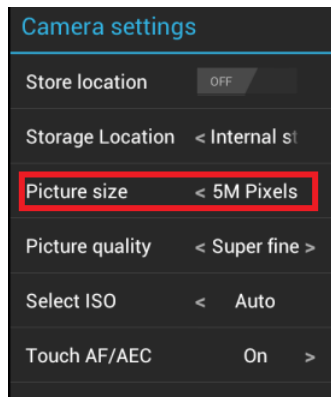
(3) Press < or > to select picture size.

(4) Picture size

Items	Size (W*H)
Full HD (1944*2595)	1944 * 2592
HD (1536 * 204*)	1536 * 2048
High (1200*1600)	1200 * 1600
Medium (480*640)	480 * 640
Low (144*176)	144 * 176

1.6 Setting picture quality

(1) Press ⚏ on the screen.

(2) Press ⚙ > **Picture quality**.
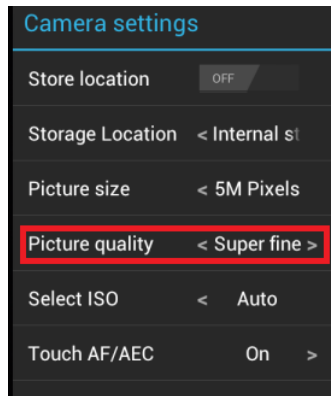
(3)   Press < or > to select picture quality.

- ▶ Super fine
- ▶ Jepg 100%
- ▶ Jepg 95%
- ▶ Jepg 85%
- ▶ Jepg 75%
- ▶ Jepg 65%

1.7   Setting ZSL

ZSL means zero shutter lag.

(1)   Press [icon]   on the screen.

(2)   Press [icon] > **ZSL** to set ZSL on or off.
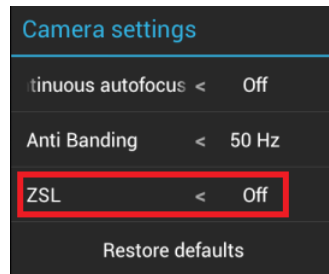
1.8   Resetting camera setting

Reset camera settings to factory default.

(1)   Press [icon]   on the screen.

(2)   Press [icon] > **Reset to defaults**.
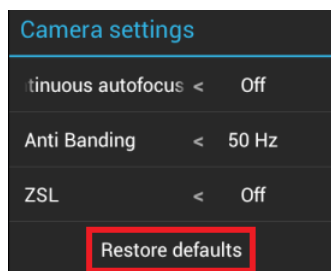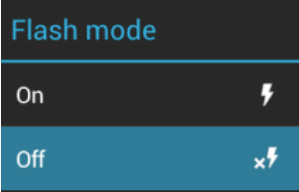
2 Video mode

   2.1   Shooting a video

        (1)   Drag the control to the Video position

        (2)   Frame your subject on screen

   (3)   Touch the onscreen Start   icon to start shooting a video.

        (4)   Touch the onscreen Stop   icon to stop shooting video.

   2.2   Setting Flash mode

        (1)   Press   on the screen.

        (2)   Press   to set flash mode.

        (3)   The flash mode can be set to on or off.

        (4)   Press   on the screen.

   2.3   Setting Video quality

        (1)   Press   on the screen.

        (2)   Press   > *Video quality*.
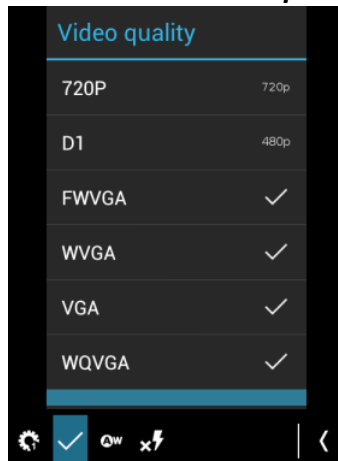
NOTE:

    ▶   Remove the protective film on lens before using the camera.

Touch ⊞ on the Home screen ＞ Settings ⊟

1 About Phone

View more information of IMX-3000 in About.

1.1 Status

　　(1) Battery status

　　　▶ Battery status: Charging or discharging

　　　▶ Battery level: battery capacity

　　(2) Network

　　　View carrier and SIM card related information.

　　(3) Signal strength

　　　View wireless signal information.

　　(4) Mobile network type

　　(5) Service state

　　(6) Roaming

　　(7) IMEI

　　(8) Wi-Fi MAC address

　　　View Wi-Fi MAC address

　　(9) Bluetooth address

　　　View Bluetooth MAC address.

1.2 Baseband version

　　(1) Baseband version refers Arm9.

1.3 Software version

　　(1) Software version refers Arm11.

2 Display

2.1 Brightness setting

　　(1) Setting brightness by scroll bar.

　　(2) Setting brightness to Automatic brightness

　　　▶ Press the check box "Automatic brightness" to enable it. The brightness will set automatic according illuminate.

2.2 Auto-rotate screen

　　(1) Disable Auto-rotate screen, the screen will not rotate automatic.

2.3   Sleep setting

Adjust the delay before the screen automatically turns off.

- ▶ 15 seconds
- ▶ 30 seconds
- ▶ 1 minute (default setting)
- ▶ minutes
- ▶ minutes
- ▶ 10 minutes
- ▶ 30 minutes
- ▶ Never

2.4   Touch key light duration

Set key light duration for keypad.

- ▶ 1.5 seconds
- ▶ 6 seconds
- ▶ Always off
- ▶ Always on

NOTE:

- ▶ The IMX-3000 goes into standby mode after screen timeout in order to save battery power.

1 Button utility

The Button Utility allows the following keys to be re-defined to another key or a shortcut key for launching an application.

      (1)   Side key – up key

      (2)   Side key – down key

      (3)   Search key

      (4)   Scan key

Launch Button utility by press , then press Button Utility.

1.1 Re-define key as key value

    (1)   Press the Key radio box, and then press to launch the menu to re-define key value.
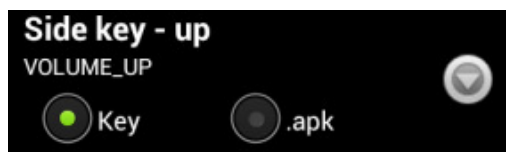
    (2)   You may assign one of the following key to the key.

      ▶   Tab

      ▶   Enter

      ▶   Volume_up

      ▶   Volume_down

      ▶   Search

      ▶   Scan
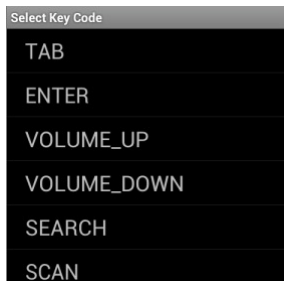
1.2 Application assignment

    (1)   Press the .apk radio box, and then press to set the shortcut of application in the menu.
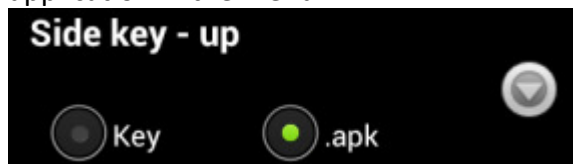
    (2)   You may re-assign the key to one of Android application.

2 Reader Utility

2.1 Outlook

— Menu sheet

— Scan engine type will be auto detected.

— Barcode type display area

— Barcode content display area
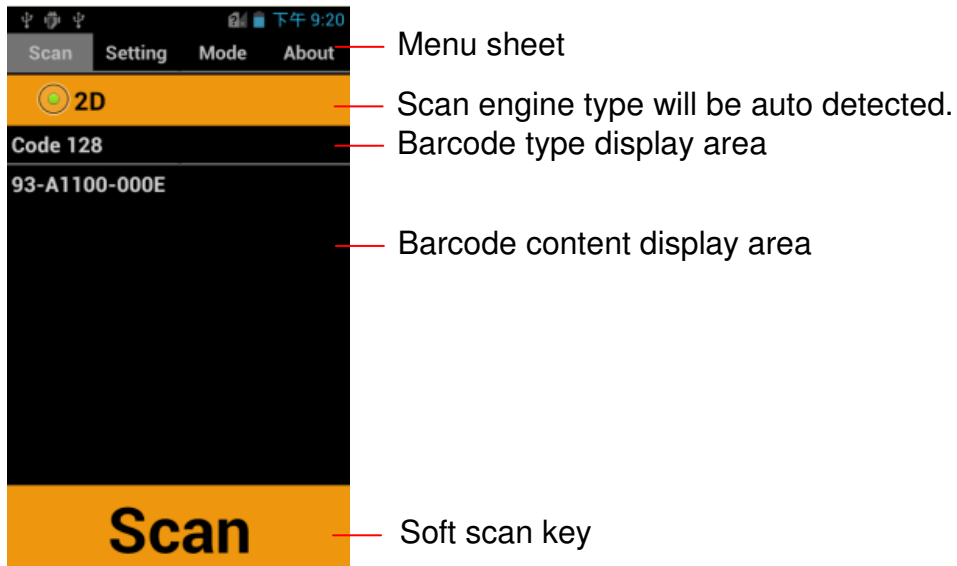
— Soft scan key

(1) Barcode Reading
- ▶ Trigger scan engine by pressing SCAN key or soft scan key on the screen.
- ▶ Align the scan light to barcode sheet to get the barcode data.
- ▶ The barcode type and data will display on the page.

(2) Background Scan
- ▶ Hide Reader Utility by launch another application or press BACK/Home key.
- ▶ Get barcode data by press Scan key. The barcode data can sent to any text area that you focus on.

2.2 Setting
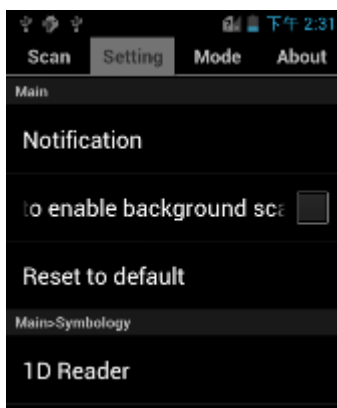
(1) Notification
- ▶ LED notification

Press check box to enable LED notification. Green LED will turn on when good read.

- ► Sound notification

  Sound will play in good read.

- ► Vibration notification

  The vibrator will vibration when good read

- ► Prefix output code

  Add the prefix code in previous of barcode content.

- ► Suffix output code

  Add the suffix code in end of barcode content.

- ► Delimiter

  Add a delimiter in end of barcode content.

- ► Auto Enter

  Add an ENTER character in the end of one scan

(2)   Auto enable background scan when system boot.

Reader utility will enable in background when system boot.

(3)   Reset to default

- ► Reset all columns to default volume.

2.3   Setting scan mode

Mode		Enable Hands Free	Disable Hands Free
One time mode		Press Scan key then release it, align the scan line to barcode sheet to get barcode content.	Press and hold Scan key, align the scan line to barcode sheet to get barcode content.
Continuous mode	Fixed interval	Press Scan key then release it, align the scan line to barcode sheet to get barcode content. The scan engine will be trigger continuous in each interval of 2 seconds. In this mode, the barcode data will be not check	Press and hold Scan key, align the scan line to barcode sheet to get barcode content. The scan engine will be trigger continuous in each interval of 2 seconds. In this mode, the barcode data will be not check
	Ignore same code	Press Scan key then release it, align the scan line to barcode sheet to get barcode content. The scan engine will be trigger continuous in each interval of 2 seconds. In this mode, the same barcode data will be ignoring.	Press and hold Scan key, align the scan line to barcode sheet to get barcode content. The scan engine will be trigger continuous in each interval of 2 seconds. In this mode, the same barcode data will be ignoring.
	Stop when success	Press Scan key then release it, align the scan line to barcode sheet to get barcode content. The scan engine will be trigger continuous in each interval of 2 seconds. The scan engine will stop to trigger until get the barcode data successful.	Press and hold scan key, align the scan line to barcode sheet to get barcode content. The scan engine will be trigger continuous in each interval of 2 seconds. The scan engine will stop to trigger until get the barcode data successful.
	Delay for same code	Press scan key then release it, the scan line will continuous trigger, align the scan line to barcode sheet to get barcode content. The scan line will short stop trigger for 0.5 second when get the barcode data. In this mode the scan trigger will not stop trigger until press Scan key again.	Press scan key then release it, the scan line will continuous trigger, align the scan line to barcode sheet to get barcode content. The scan line will short stop trigger for 0.5 second when get the barcode data. In this mode the scan trigger will not stop trigger until press Scan key again.

Technical Support

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