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**XtendLan**

**XL-DM317G**

User manual



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## Chapter I

### Summary and System Structure

#### 1. Summary

XL-DM317G is designed for meeting entire network requirement, whose functions including WFMS processing, wireless signal collection, GPS positioning, xDSL test, LAN test, optical power test, visual fault locator, tracing and PDA. XL-DM317G has wireless voice and communication module, which can logon Internet through wireless network, and finish the task quickly. Meanwhile, collecting all kinds of specifications of wireless signals, upload to server, achieve some test functions. And also test all kinds of xDSL line (xDSL includes ADSL, ADSL2, ADSL2+, READSL etc.), LAN test. It not only can test xDSL physical layer parameters to confirm whether the line is proper to provide xDSL service or not; but also evaluate the quality of the service you provide. The tester can emulate the user's PC to test broadband IP line or perform PPPoE dial through user's Modem in order to test the connectivity of IP network and the problem of user's Modem or eliminate malfunctions that leads to failing logon Web Pages caused by user's PC. XL-DM317G adopts 480\*800 TFT IPS true color LCD resistive touch screen, and embedded with Android 4.1.2 JB operation system. It is easy to operate and check the test

results. It can meet the installation and maintenance requirements of wireless device, xDSL access, LAN access and optical access and so on. Meanwhile, it's a powerful tool for improving the efficiency of maintaining Internet.

## **Standard Accessories:**

Please make sure all the following accessories are in good condition:



Charger



Direct Ethernet Network line



USB data line



Touch Pen



Touch pen rope



Carrying Bag



User Manual

## Other Accessories:

(It is different due to different modules.)



Test Line



USB inverting power line



Tracing receiver



Belt

## 2. Safety Warning and Attentions

In order to use the tester safely and efficiently, please read the following information before using.

- Please use the tester according to the rules when you in the hospital.

- Please keep far away from the precision instrument
- Do not use chemical solvent to clean the equipment.
- Do not throw away the waste battery. Put it into the battery recycling bins.
- Please do not use or store the equipment as well as its accessories under the environment of high temperature, low temperature, high humidity or dust.
- Please put the equipment and its battery in a safety place and avoid strong shake and impact.
- When use the equipment for the first time, please charge the battery completely.
- Don't disassemble the equipment by yourself. If you need, please go to the appointed professional organization to mend it.
- Please put the equipment and its accessories in the place out of children's reach.
- Please take care of the UIM card and avoid static, scratch, as well as bending.
- Please use the original accessories of the product.
- Please use the standard battery, charger and other accessories. We will not be responsible for anything if you use the accessories from the third party.
- Same as other mobile equipment, with built-in antenna on the bottom of the product, there is some radiation and interface of this product. If you want to operate the product in light-hearted, as well as take of your personal safety, any part of your body do not too close to the antenna.

- Please use the equipment within network coverage range.
- The LCD display effect will change a little in the temperature severely-changed and long-time conversation environment.

## **3. General Operation Standards and Attentions**

### **3.1. Operation Standards**

- **Test Interface**

Please firstly connect the test cord to test interface and then connect to the test line. Please don't touch the metal parts of clamps to avoid the high dangerous voltage.

- **USB port**

Please do not short the port with metal; otherwise the internal circuit will be damaged.

- **Cleaning**

The shell of this instrument is mainly made of plastic, when cleaning, use dry and soft cloth, and do not use volatile chemicals, otherwise, it will cause discoloring and deformation.

- **Protecting the case and operating panel**

Do not pour volatile agents on the case or operation panel, and avoid prolonged contacting with rubber and PVC; otherwise, it may result malfunctioning.

➤ **When moving the instrument**

Please make sure the power cord and connection cables are removed before shift the instrument. And unplug all the connecting cables from socket after using.

➤ **When the instrument is unused for a long time**

If the instrument is unused for a long time, the battery characteristics may have deteriorated. And it will also take a longer time to charger. If it take a very short time to charger and the operating time is extremely short, please replace the battery.

➤ **Faults**

If there are strange sound, smell, or smock coming from the instrument, please turn off the instrument and unplug of the power, and then contact with us immediately.

### **3.2. Attentions**

➤ Please charger the battery full when using it for the first time as well as each time.

➤ Please use touch pen and click the screen gently to operate function keys, do not click it roughly, otherwise, the LCD may be damaged.

➤ If there is any abnormal phenomenon during the process of operating, please turn off and restart it.

➤ Please don't put the instrument under the strong direct sunlight or put it near the origin of heat. Or else, there will be bad effect to internal circuit as well as the shell.

➤ Condensation may occur if the instrument is moved to another place where the temperature is higher or the room

temperature change rapidly. In such situation, let the instrument adjust to the new environment for at least one hour before using the instrument.

➤ Using the instrument near strong magnetic field sources will have adverse affects on the internal circuit of the instrument. That because the electromagnetic wave from the mobile may effect the normal identification. If you are using a portable phone to transmit measured data, move the portable phone at least 1m away from the instrument.

## 4. Structures and Functions





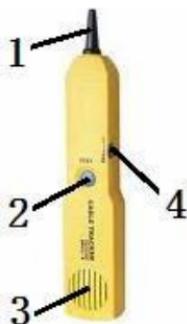
NO	Name	Functions
1	Optical power port	Connect with the fiber interface, can be used as optical power meter
2	VFL port	Connect with the fiber interface, can be used as visual fault locator.
3	Dust-proof cap of optical port	Protect the optical port from dust and water

## XL-DM317G Multi-service Access

4	Scanning Head	Window of bar code scanning engine, which is used to scan the bar codes.
5	Dust-proof cap of electric port	Protect the electric port from dust and water
6	Ethernet port	The port to connect with Ethernet
7	Dust-proof cap of USB	Protect the USB port and Headphone from dust and water
8	USB Port	It is used to connect with PC or for charging
9	Headphone Jack	Connect the headphone
10	RJ11 port	Connect with telephone line to test xDSL
11	Receiver	Receiver of the equipment
12	Indicator	It is used to indicate the conditions of the equipment
13	Display screen	Display of the screen
14	Keyboard	Please refer to the following instructions for more details.
15	Reset	Reset operation
16	MIC	MIC Hole
17	Touch pen	Touch pen of the equipment
18	Hand Belt	It is used for holding the equipment.
19	Battery Cover	It is used to fix the battery

20	Battery Cover Screw	It is used for fix or loose the battery cover
21	Fixed groove of the hand belt	It is used to fix the hand belt.
22	Loudspeaker	Loudspeaker hole
23	Camera	Make a photo or video.
24	LED light	LED light also can be used as flashlight.
25	RFID side key	RFID hotkey
26	Scan side key	Scan hot key
27	Volume key	Adjust volume of phone call or the loud speaker.

**Cable Tracing Receiver ( It depends on the real item )**



Number	Name	Function
1	Receiver probe	Antenna probe
2	Test button	Press it to test the signal
3	Loudspeaker	Audio signal generator loudspeaker

4	Switch and volume adjustment key	Turn it down to increase the volume and turn it up to decrease the volume
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**Buttons:**

Buttons	Name	Functions
	Power button	Under power-on state, shortly pressing the button can close or light the screen; long pressing the button can pop up an operating menu of "Device Options". Under power-on state, long pressing the button can close the tester.
	Return Button	Return back to the previous page.
	Main Screen Button	Pressing this button to return back to the main screen window.
	Menu Button	Under main screen interface and application program interface, pressing this button can pop up the operating menu.
	Light Button	It is used to open the flashlight.

	<p>Camera Button</p>	<p>Long pressing the button to enter into camera interface, and shortly pressing enter into photo interface</p>
	<p>Hang up Button</p>	<p>When a call is coming, it can hang up the call.</p>
	<p>Dial/Answer Button</p>	<p>Dial or answer the phone; under standby condition, pressing this button to enter into call records.</p>
	<p>Delete Button</p>	<p>When input text, it is used to delete words before the cursor.</p>
	<p>Number Button</p>	<p>It is used to input the numbers.</p>
	<p>Bar Code Scan Button</p>	<p>Shortly pressing the button can start to scan the bar code.</p>
	<p>RFID Scan Button</p>	<p>Shortly pressing the button can start to scan the RFID label.</p>
	<p>Volume Adjust Button</p>	<p>Can adjust the volume for calling and louder speaker; up is louder and down is lower.</p>

**Indicator lights:**

The meaning of the 4 indicator lights from left to right is as

following:

**Indicator light 1:** Mobile phone light, indicating the mobile state, which have 3 glittering state.

1) Normal state: 0.5s on, 4.5s off

2) Incoming call state: 0.5s on, 0.5s off

3) Receive the message or missed call: 0.5s on, 1.5s

**Indicator light 2:** Unused

**Indicator light 3:** xDSL Link indicator; when it is in activating mode, the indicator will glitter; when it is activated, it will always light.

**Indicator light 4:** VFL and Cable Tracing indicator; when the VFL or cable tracing signal is open, this indicator will light.

**Standby shortcut icon is as following:**



: Click to enter into main menu interface.

: Click to enter into dialing plate interface.

: Click to enter into message interface.

: Click to enter into browser interface.

: Click to enter into contacts

## 5. Instructions of Fixed Icon Display Area

	Display the current signal intensity of CDMA network and EVDO: the more column bar is, the better the signal intensity will be;  means there is no
	Display the current signal intensity under roaming condition: the more column bar is, the better the signal intensity will be; × means there is no signal.
	Means that there is unread multimedia message
	Means the signal intensity of the WLAN.
	Means Bluetooth function has been opened.
	Means uploading or downloading documents
	Means that there is unread short message.
	Means that there is unread short message.
	Means it is in the flight mode.
	Means the USB connection

	Means that the alarm clock has been set.
	Means that TF card has been inserted into the equipment.
	Means that TF card hasn't been inserted into the equipment.
	Means the current battery power.。
	Means the battery is charging
	Means it is on the phone
	Means there is missed call.
	Means it is using data service currently.
	Means it is under silent mode.
	Means the network card is open.
	Means the PPPoE link has been built.
	Means GPS is open.

## 6. Charging Battery Icon



: The battery is in low power and needs to charge.



: The battery is charging and displays in motion.



: The battery has already been full.

## 7. Install TF Card

Open the battery cover, take down the battery, and

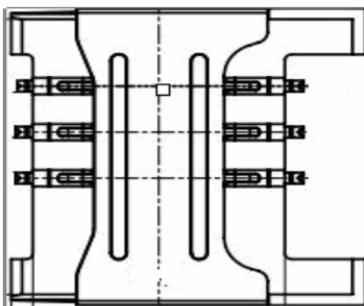
insert the TF card into the slot, when there is a slight sound of clicks, the buckle will seize up the card automatically, and installation work is finished, please see the following:



Uninstall TF card: Push the TF card, when there is a slight sound of clicks, the card buckle has loosed, and the TF card will pop up automatically.

## 8. Install UIM/SIM Card

Open the battery cover, take down the battery, put the UIM/SIM card into the top slot, make sure the chip side down, and push it into the bottom of slot, as following:



**Notice:**

Insert CDMA/EVDO UIM card for EVDO edition; and the GSM/WCDMA SIM card for WCDMA, Please insert the corresponding card for different mode to keep the phone function.

## 9. Battery Usage

### Install battery

Firstly, unscrewed the two screws, remove the battery cover;

Insert the battery and make the battery metal sheet well connected with the contact point, and then press the lower end of the battery.

When remove the battery, pull the scotch tape on the battery upward, the battery can be removed easily.

Then cover the battery cover and tighten the screw with corn or screwdriver at clockwise. The installation is finished. Please make sure the installation of battery is right before start the equipment.

- **Notice:** Please close the tester before removing the battery.
- Please follow the above procedures.
- Please tighten the screws for the battery cover, in case the battery fall out when the equipment is dropped.

### Battery performance

The standby time will be affected by system

environment, system setting, service test, taking photos and using data service.

Calling or opening a backlight will consume more power than standby and standby time will shorten.

The standby time of no service area will be short than the normal standby time.

The battery performance will change with the charging status, temperature, local network as well as the background light status.

	6000mAh(Standard Battery)
Standby Time*	About 600 hours
Talking Time*	About 9 hours

More accurate time will depend on the local network status, using conditions and equipment card.

### **Charging:**

Insert the charger into the charger port of the equipment.

Insert the charger into the power socket with 100~240V, 50/60Hz. When it is charging, the battery power icon on the screen will shine; after charging finished, the battery power icon on the screen will stop shining.

After charging finished, pull the charger out of the equipment and then pull the charger out of the power socket.

### **Charging time**

If the AC voltage is very low, you should charge the battery in a long time.

The charging time is about 7~9 hours. (More accurate time will depend on the battery condition.)

The environment temperature of normally charging should be 0°C~40°C. Charging under below 0°C or above 40°C, the battery performance will descend and the battery life will shorten. When charging under too high or too low temperature for a long time, it will cause damage to the battery. For example, the battery can't charge fully and cause the battery inflation.

It will lengthen the charging time to use nonstandard charger.

It will also lengthen the charging time to operate the tester when charging.

### **Note:**

- You should fully charge the tester before the first usage; please disconnect the charger in time after charging finished because the long-time charging will damage the battery performance.
- Please guarantee that the battery is inside of the tester.
- When it is not charging, please take the charger from the outlet.
- When it is charging in very low battery, the tester will not start immediately and will display low battery prompt if you do booting operation. After charging for a while, the tester will start normally.
- Charger is safety device, please use our specialized charger. Meanwhile, please be careful during the usage.

## **10. Main Specification of the Equipment**

- It adopts 480×800 TFT IPS true color touch screen
- It adopts the built-in Android 4.1.2 JB operation system.
- It supports CDMA 1x, EVDO Rev.A 800MHz/1900MHz; also supports voice and data service. (XL-DM317GE)
- It supports WCDMA/HSDPA/HSUPA 850/1900/2100 MHz and GSM/GPRS/EDGE 850/900/1800/1900MHz, supports voice and data service. (XL-DM317GW)
- Rechargeable 3.7V 6000mAh polymer battery and the max power is 3W.
- Can make a phone call in earphone and listen to music. (needs earphone)
- Support 1D bar code scan
- Support HF RFID 13.65MHz (optional)
- Camera with 5 million pixels and support auto focus and flash function.
- Support flash light function
- Dimension: 174mm\*83mm\*52mm
- Weight: 500g

## **Chapter II**

# **Specifications and Functions**

## **1. Technical Specifications**

### **1.1 xDSL Index (Optional)**

1) It can meet the following standards: ITU G.994.1 (G.hs), ITU G.992.5, ITU G.992.5 Annex L. The max distance which can be connected is 6.5km. Be compatible with ADSL, ADSL2 and READSL.

2) It can test the transmission parameters in the DSL line:

- ◆ Attenuation: 0~63.5dB
- ◆ Noise Margin: 0~32dB
- ◆ Upstream Channel Rate (interweaved / fast mode):  
0~1.2Mbps

- ◆ Downstream Channel Rate (interweaved / fast mode): 0~24Mbps
- ◆ The maximum rate and capacity ratio of upstream Channel and downstream channel.
- ◆ The modulating bits in the DMT sub-channel: 0~15 and each sub-channels' frequency points
- ◆ The number of error codes (CRC, HEC, FEC, NCD, OCD)
- ◆ The output power of DSL
- ◆ It can display every condition of the DSL line: lost of signal and shutdown of link.

## **1.2 Optical Power Index (optional)**

- Wavelength range(nm): 800~1700
- Photo-sensing material: InGaAs
- Power test range(dBm): -70~+10 (-50~+26)
- Error range:  $\pm 5\%$
- Display distinguishability  
Linear display: 0.1%  
Logarithmic display: 0.01 dBm
- It has different adapters: FC, ST, SC

## **1.3 Visual Fault Locator (Optional)**

- Wavelength: 650nm $\pm$ 20nm
- Light source: FP-LD laser
- Output power: 1mw/3mw/5mw/10mw (You can choose the different power value)

- Connector: 2.5mm universal adapter(SC, FC, ST)
- Working mode: CW or 2Hz modulation
- Applicable fiber: SM/MM

## **2. General Functions**

### **2.1. On/Off**

#### **Open the tester**

Under the "off "condition and there is electricity in the battery, long press the power key to start the equipment.

#### **Close the tester**

Under standby interface and there is electricity in the battery, long press the power key to pop up an option menu and then choose "Power Off" to close the tester.

### **2.2. Standby and Wake up**

Under the "on" condition, the system will enter into standby state or shortly press on/off key to enter into standby state. Under standby condition, shortly press on/off key to wake up the system. (The time entering into standby is relevant with the backlight time setting in setup options. If the setting is "Light Forever", the system will not standby automatically. But you still can realize the standby by pressing on/off key.)

After waking up, the system will restore to the interface before the standby and the program will restore to the state before the standby.

## 2.3. Table Management

There are five default pages of the table screen and it can display different screens by sliding with finger.

### Lock or Unlock

If there is no equipment operation, after some time the keypad will automatically locked. Press the power button to wake up the screen, click the lock icon, you can slide in different directions respectively, into different functional, as shown below



In main menu "Settings> Display> Sleep" can set time delay before the device sleep.

### Add Desktop Icons

Click  to enter menu interface, find out the program which you want to create a desktop shortcut. Keep pressing the icon, when icon vibrate, you can move, and then drag the icon to where you want to let go on desktop (note please

keep pressing the icon during the operate)

### **Delete the desktop icon**

Keep pressing the desktop icon, after icon vibrate, the top of the screen appears "× Remove", move the icon to "× Remove" place , release after the icon turns red , the target can be deleted.

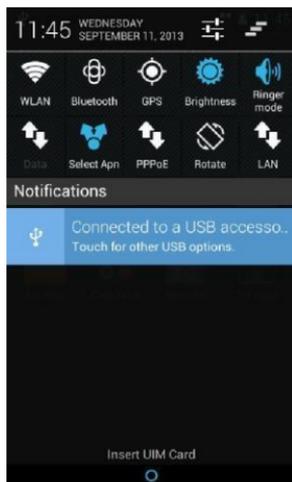
### **Change Wallpaper**

Keep pressing the desktop space will pop up the following menu: Wallpaper, Live wallpaper and Gallery, you can also set a picture as wallpaper when you browse the pictures.

### **System prompt bar**

System prompt bar (the top row of the screen) displays the current notification system (such as unread messages or missed calls, etc.).

Open the prompt bar: press the screen with a finger drag down the status bar.



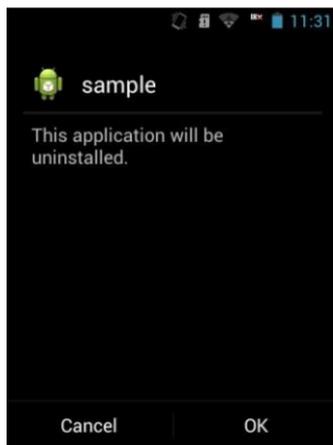
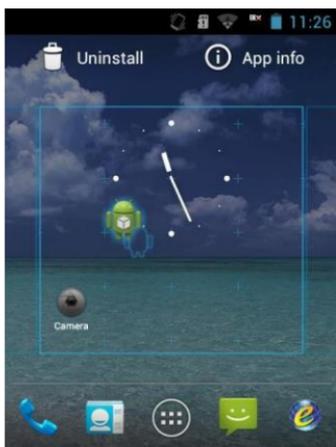
### **Add /Remove desktop plug**

To add desktop clock and other desktop plug, you need to enter the menu, and then click on the widgets, Keep pressing the icon of plug-ins, plug-in icon vibrate, you can move, and then drag the icon to your plugin want placement can let go (note that during the operation to hold the plug-in icon do not put). As shown below:



### Quick Uninstall Installed Programs

Enter the menu screen, select the program icon you want to uninstall, keep pressing the icon, icons vibrate, you can move, move to the desktop uninstall icon will pop uninstall interface, click OK to start the uninstall program, and then click OK to uninstall complete.



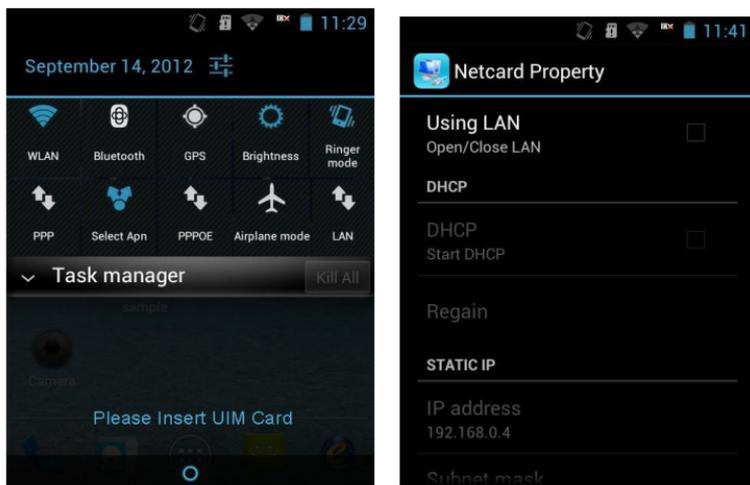
## View program information

Enter the menu screen, select the icon for the program you want to view, keep pressing the icon, icons vibrate, you can move, move to the desktop App info, the application will pop up the relevant information. As shown below:



## 2.4 Open / Close net card

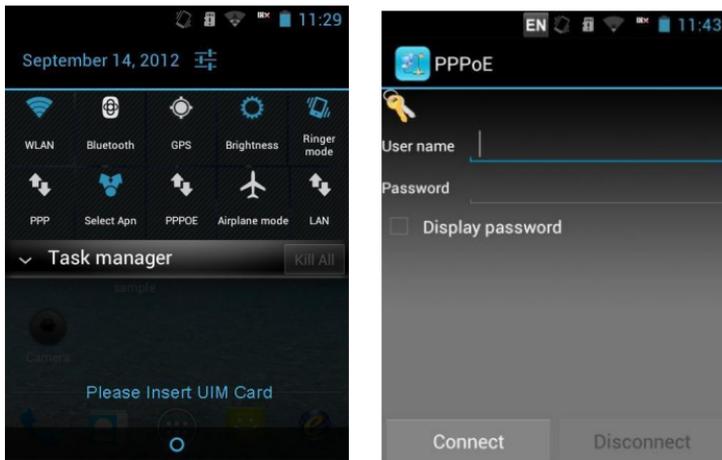
To open the device's net card, pull down the prompt bar and click the LAN icon  (the icon is blue card means turned on, the icon is white means closed), the system pop-up card properties window, as shown below:



Select Using LAN, you can choose to open DHCP or fixed IP mode, the DHCP mode, you can click again to reacquire to make the device to obtain an IP address from a DHCP server. In the static IP status, you can modify the NIC's IP address, subnet mask, gateway, and DNS, DNS is divided into two, namely DNS1 and DNS2, should first set the DNS1.

## 2.5 PPPoE dial

To make the network port PPPoE dial, pull-down prompt bar, select PPPoE icon  (the icon is blue means PPPoE dial is connected, the icon is white means PPPoE dial not connected), PPPoE Properties window pops up, as shown below:

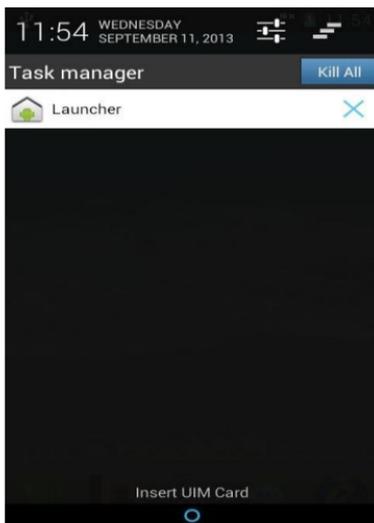


In the dial-up interface to enter a user name and password, click CONNECT can be established PPPoE link.

## 2.6 Task Manager

Equipment systems have Task Manager, you can close opened programs to release program memory, improve system efficiency.

Pull down prompt bar, single click , Task Manager will appear, as shown below:



Enter into a running program menu; click on the Stop button corresponding to the task, which can close the current task and free the occupied memory space. (The Launcher is desktop manager, so it can not be turned off)

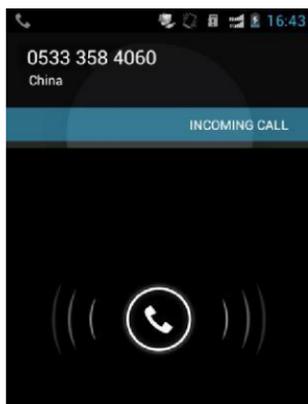
### 2.7 Dialer

In the main menu interface or standby desktop, click the  or  enter the phone number, press the call button or dial button, you can call the number; To end the call, click the  button or press  hook key to hang up. As shown below:



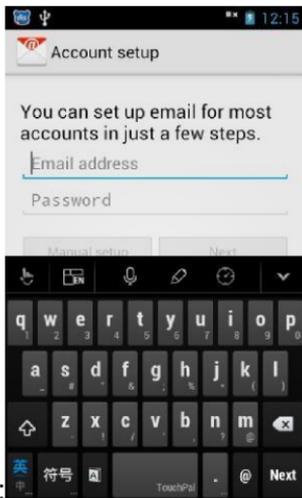
### 2.8 Answer the phone

The system call interface pops up in the caller interface, slide right to the green icon to answer the call; slid left to red icon can reject an incoming call; slide up to SMS icon can send text messages.



## 2.9 Input Method

Click the application's text box; the system will automatically bring up the built-in input method. As shown



below:

System using TouchPal input method, tap  on the keyboard to switch the input character case. Click  on the keyboard hidden input method. Click  will switch the input method to Pinyin input method, and then click becomes English input method. Keep pressing the on-screen keyboard to the left or right button; it will switch the input keyboard layout. Click  on your keyboard to switch to

digital / character input method, which includes English characters, facial expressions, network, digital, Greek, Latin, mathematics and other options, as shown below:



Keep pressing the  bottom left corner to switch the input method window pops up as shown below:



Where you can select the desired input mode, (You can also install other input methods, such as stroke, etc.) devices also support install other input methods, such as, Sogou input method, Baidu input method.

Change the text input method



In the system settings have language & input options. Contains all installed input method, as shown above, you

can click the check box in front to set the default input method.

## 2.10 Flashlight

This device supports flashlight, camera fill light can be used as lighting in the boot state. Keep pressing  (2 seconds or so) can be turned on or off flashlight. (Flashlight will remain in the standby System standby state before, please note the close flashlight to save power)

## 2.11 Camera

This device has a camera shortcut key , in the normal state, press the camera button that can pop up camera interface, the camera screen, press the button for the camera operation.

## 2.12 Breathing indicator

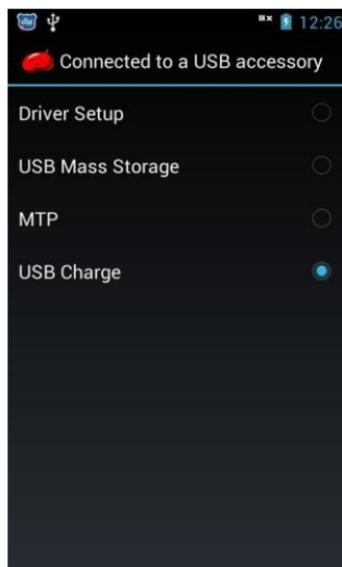
When device in the boot and standby state, breathing light gap flashes to indicate that the device is in working condition, in calls or missed calls, received messages have different breathing light blinking to alert customers.

## 2.13 Mass storage mode

Mass storage mode is USB data cable connect with the PC, the device will be a virtual mass storage U disk, via a

PC can be copied or deleted U disk file.

Through Mini USB data cable to connect the device with the PC, the device prompts bar prompts a USB connection, pull down the prompt bar, click the USB connection, select USB Mass storage, PC machine will find U disk, which can be operated via a PC U disk content. As shown below:



If there is no TF card, will virtual a U disk, if have TF card, will virtual 2 U disk. (Drive letter will vary on how many different devices) as shown below:



## 2.14 Headset

Device supports headset, listening to music, the device's headphones as an ordinary hole, the device is equipped with a headset plugged into the headphone jack, that is to meet the needs of calls and listening to music, the headset supports off-hook and on-hook operation. (Dedicated headphone headset, other headphones may not be used)



No	Name	Specification
1	plug	3.5mm
2	Hook button	ABS Black
3	horn	$\phi 10$ 32 $\Omega$
4	shell	ABS black sequins plating

## 2.15 Vibration

Device supports two vibration modes, one is only vibration, the other is added ringing vibrations. Vibration mode requires only pull down prompt bar, click  until

changes in the  vibration mode only. You can also press the power button on the pop-up screen; click the  icon to enter the vibration modes

Ring & vibration modes need to enter the Setting> Sound to select Vibrate and ring.

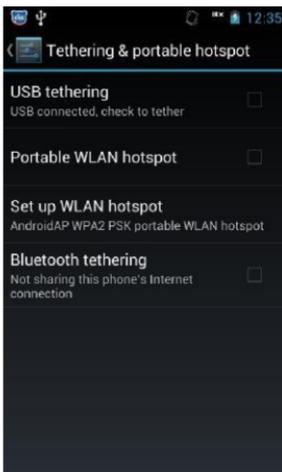
## **2.16 GPSone Passive Positioning**

Device supports GPSone passive positioning, you can through the machine's positioning software to check latitude and longitude information, passive positioning feature requires phone cards opened passive location services, and will produce certain passive localization data traffic. Only need to open the GPS device side support GPSone passive position, when the GPS is turned off, the device does not support GPSone passive location query.

## **2.17 WIFI hotspot**

Portable devices support WIFI hotspot, providing 3G network links WIFI connection to other devices.

Connect 3G data connection, and then enter Settings>more, click Tethering & portable hotspot, the interface as shown below:



Select the Portable WLAN hotspot, which you can open WIFI portable hotspot, through other devices with WIFI hotspot that can search the AP and connect Login networks. Click the set up WLAN hotspot; you can set up WIFI hotspot SSID, security, passwords and other content, as shown below:



## Chapter III

### Usage of Main Functions

Click on the bottom  of the standby screen, pop up the main menu. As shown below:



Slide left or right to view more menu items, press the Back button to close the main menu, you can directly click the application or widget to switch applications and widgets options. You can also put your own favorite features onto the desktop, keep pressing the icon you want to move and hold, after a brief vibration to move, drag it to where you want the icon placement can let go (Note: during operation to keep pressing the icon and not loose).

## 1. Test Functions

The test function is professional test software, which includes xDSL test, Modem emulation, optical power test, visual fault locator, network layer test, E Netcom, download meter, FTP client, etc. The customer can choose the corresponding functions. Test interface picture is as following:



Please see the details:

### **xDSL test (optional)**

Through inner xDSL Modem, test xDSL line. It includes Physical layer test, Modem setting and web.



Physical layer test can test physical layer parameter, which including xDSL connection status, connection mode, Upstream/downstream channel rate, noise margin, attenuation, the output power, the number of error codes (CRC, HEC, FEC, NCD, OCD) and channel bits picture.

Using this function can check whether there is problem in the user line or not, and the user line parameter. Resolving the problems is due to users' Modem and computer.

Please see the following picture:

## XL-DM317G Multi-service Access



Physical layer parameter



Error codes statistics



Bits in map



Bits in text

The current status means:

**Handshake:** Shake Hands

**Discovery:** Discover the local DSLAM;

**Training:** it is training;

**Showtime:** distal end DSLAM is connected.

Connection mode:

**G.DMT:** ADSL G.DMT protocol mode, in accordance with ITU-T G992.1 standard;

**G.LITE:** ADSL G.LITE protocol mode, in accordance with ITU-T G992.2 standard;

**T1.413:** ADSL T1.413 protocol mode, in accordance with ANSI T1.413 issue1 & Issue 2 standard.

**ADSL2/ADSL2+:** ADSL2+ G.DMT.BISPLUS protocol mode, in accordance with ITU-T G992.5.

**ADSL2:** ADSL2 G.DMT.BIS protocol mode, in accordance with ITU-T G992.3 standard;

Physical layer parameter:

**Activating times:** Display the active times from the beginning of test to the current time, the activation time will increase one with each active.

**Test Duration:** Display the time when start physical layer test after initialization of the Modem.

User can check the current channel bit value in the channel bit map interface, and the value will be displayed in graph. User can see the test result in text through pressing text button.

## Modem Parameter Setting

Modem parameter setting including Modem mode setting and VPI/VCI setting.

In Modem setting, can set up Modem working mode and seven groups VPI/VCI value. Modem mode supports two modes: ADSL compatible mode and ADSL 2+ mode, through choosing, you can set up current working mode (after setting, you should restart Modem).

**ADSL2+ Mode:** It is standard ADSL2+ mode. The current connection mode can be automatically chosen according to local side. ADSL2+ mode is the first choice of the connection. When local side cannot connect the ADSL2+ mode, will connect ADSL mode automatically, but ADSL mode is only part compatible with ADSL line.

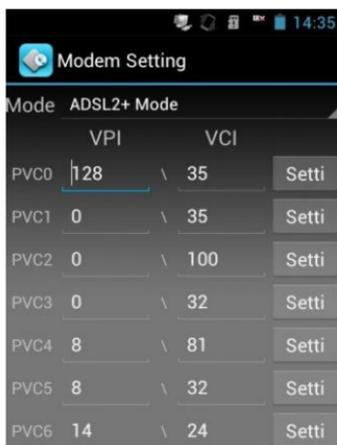
**ADSL Compatible Mode:** The ADSL2+ connection mode is unavailable under such mode.

The seven groups of VPI/VCI parameters which were set before will be displayed. If it needs to be modified, type new VPI/VCI value from VPI and VCI bar. Click "Setti", and the Modem VPI/VCI will be set (can be saved even if power off)

### Note:

If the MODEM Mode is modified as another kind of it, please exit the xDSL Test and re-enter it again. Otherwise, the MODE Modifying will not be effective Modem.

Setting picture is as following:



Modem parameter setting interface

### PPPoE Dial

PPPoE is in the status bar, you can see it pull-down list, as follows:



Click  icon, the dialing window will pop up, as follows:



Input the user name and password, click connect to do the PPPoE dial, the equipment will memorize the user name and password automatically. User can test the web browsing.

## **Internet**

When dialing succeeded, click web icon to open the browser and input the website in the address bar, and then click the triangle arrow or click OK on the keyboard to enter into the website. User can test the connectivity of the xDSL line.

If the other program needs xDSL access, the program will give hints that exit with or without electricity. Choose exit with electricity when xDSL is needed for external use and without for needn't.

It can also press main menu button, back to main menu, do PPPoE dial.

xDSL test flow is:

xDSL line quality test—>line exit with power test—>PPPoE Dial —>network layer test—>application layer test.

Insert telephone line into RJ11 as follows:

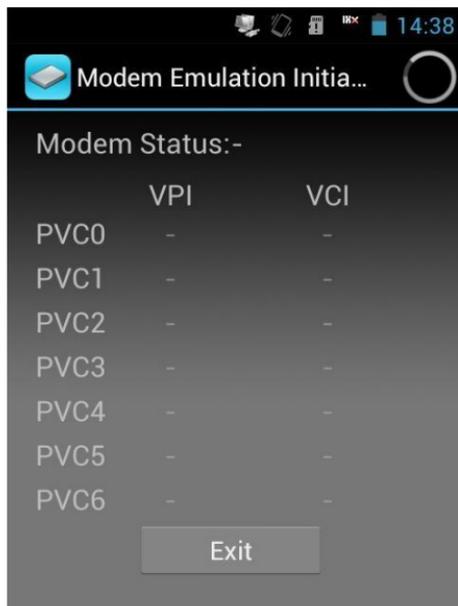


xDSL test wiring diagram

Entering into xDSL test interface, it can show activation situation, when line activated, it can show the parameter of Up/down stream channel rate, noise margin, attenuation, the output power, the number of error codes (CRC, HEC, FEC, NCD, OCD) and channel bits picture, it can check all test parameter when sliding screen. Then press PPPoE dial and input the user name and password, and then do the landing page test after finishing dialing.

### **Modem Emulation**

Emulate user Modem, and eliminate user Modem. When click Modem Emulation, it can open the power of Modem, and show VPI/VCI, please see the following picture:



The tester will emulate user Modem to realize PPPoE dial through PC. (If the VPI/VCI value needs to be modified, please modify it from Modem Parameter window). Tester can realize PPPoE dial through user Modem emulation, and check the fault of user Modem. If it needs to exit Modem Emulation state, please Click **Exit!** to exit it.

Modem emulation connection is as follows:

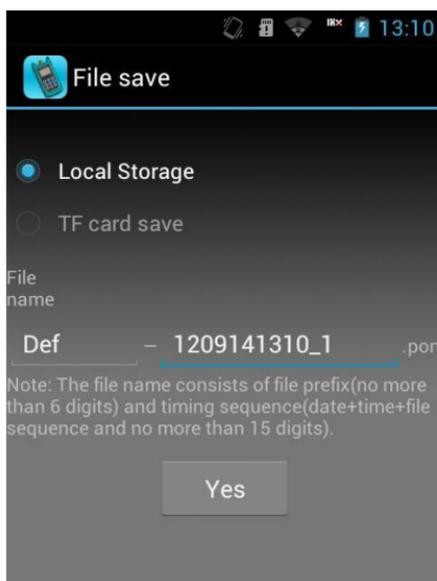


### Optical power test (optional)

Optical power test can test the power of optic fiber, please see the picture:

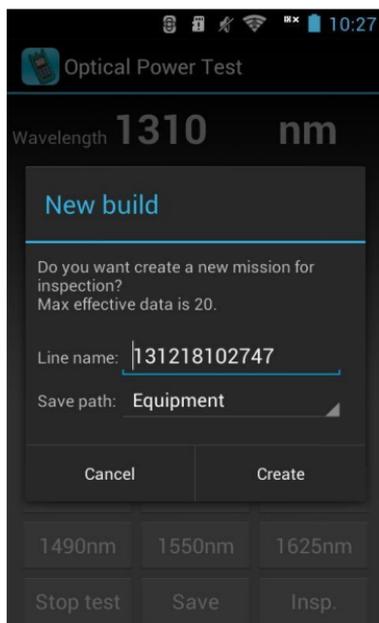


There are six wavelengths as calibration wavelength, choose corresponding wavelength can test current optical power value. It is shown as dBm and xW when having a test. User can stop testing by pressing "Stop Test", and the data displayed is the latest testing result. You can also choose save current test result, in help of checking afterwards. As following:



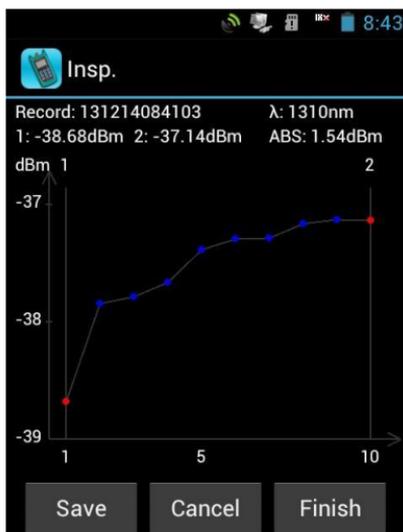
User can modify the file name by themselves.

Click the Insp button can build inspection mission for line inspection operation, as following:



Input the name of the line to separate different lines. Inspection significance is: test one fiber on different positions of the optical power value, then draw the power curve (test curve is similar to the OTDR), you can view any attenuation values between 2 points.

After establishing inspection mission, click on the inspection button, current optical power value will be added to the inspection record end and will be displayed with the curve graph. The two vertical lines are two movable cursors; drag the cursor to view the power value and difference of any two points.



### Visual Fault Locator (Optional)

Can be used as the visual fault locator; can output the CW and 2Hz modulation. Click "Red Light", the tester can be used as the visual fault locator. As follows:



Click "Open" to turn on the VFL, and click "Close" to turn off the VFL. CW/2Hz is the switch button of the continuous and modulated light, the tester can memorize the VFL mode automatically.

The output power is 1mw/3mw/5mw/10mw

### **Cable Tracing (Optional)**

Tester can do cable tracing and twisted pair and line distinguish.

Tester can produce special video signal and inject it into cable, and the video signal will be leaked during the transmission, and user can receive the signal by receiver, and do the route test to find different cable.

Click the Tracing icon to enter into the route test

interface. As follows:



Cable tracing interface

Click "Open" to start cable tracing, tester start sending video signal, and then click "Close" to stop the video signal sending, and user can exit cable tracing by pressing return.

Turn on the receiver, connect the RJ11 test line to the cable needed to be test, and the click "Open" icon button, the receiver will start inspection. Keeping the video signal, and then you can find the route of the wiring.

### **Network Layer Test**

Network layer test which including Ping test, Ifconfig test, Route test and Traceroute test. Sliding screen can

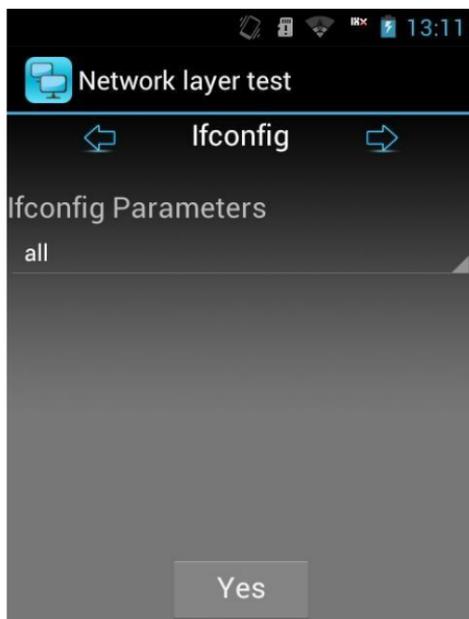
switch test items.

## Ping Test



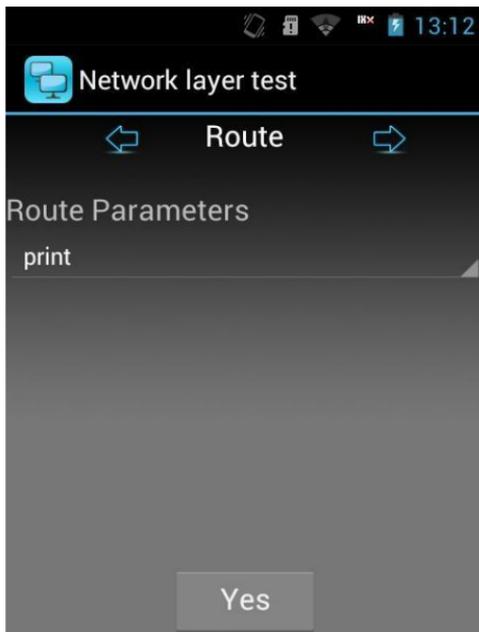
Type IP address or domain name; choose the data package size and Ping times. At last click "Yes".

## Ifconfig Test



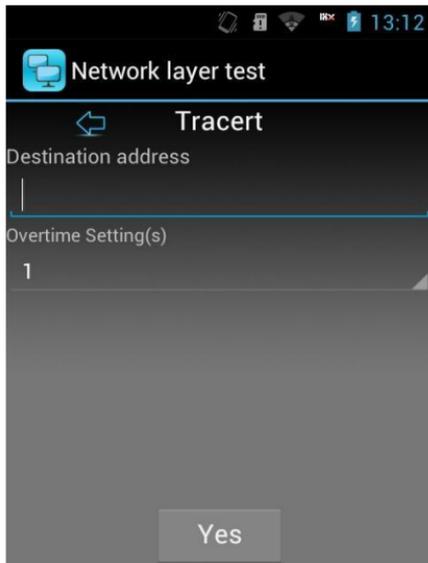
Click "Yes" to see current network information.

## Route Test



Click "Yes" to check the current web information.

## Traceroute Test



Typed the destination address, choose overtime, click "Yes".

## E Netcom Test

Click "Search Device" to look for the network equipment in the local network. The IP, MAC address and host name of the equipment will display on the interface. You can also save the current test result to check later.

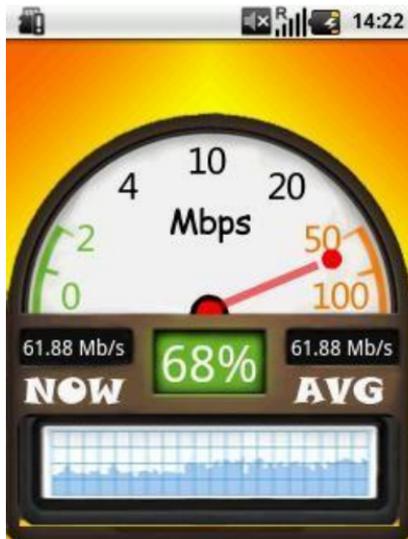


### Download Meter

Download speed test can test the web download speed, reflect the web state directly.

Can browse the download attachment by entering the website, and user can also download the well-settled attachment in menu. (the homepage and the address of attachment download is settled in setting.)

Click "Download", the following interface will be shown:

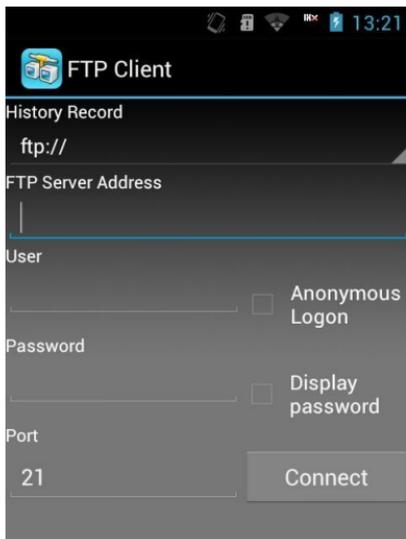


Tester will statistic the max and average download speed and download progress, the screen will display as follows after finishing download:



## FTP Client

FTP Client can log on FTP server, upload and download programs like the following picture:



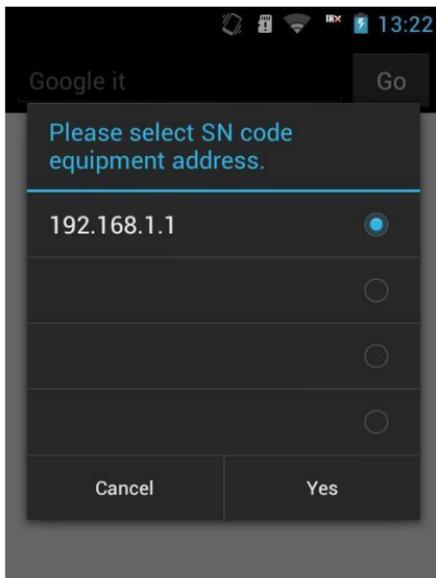
Typed FTP server address, user name, password and port number, and then clicking "Connect" can log on FTP server. The system will memorize the logged on FTP server address, user name, password and port number.

**Note:** the precondition of log on FTP server is the network is available, either LAN network or WIFI.

## 2. SN Code

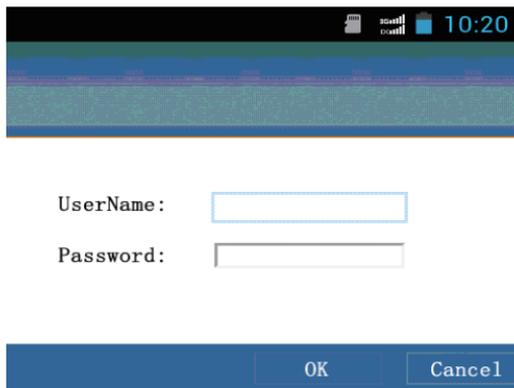
Tester can connect with Modem through Ethernet, login the configuration page of WEB, and modify SN code.

(Should know IP address, and set up network card IP address and Modem IP address in same range). This tester can set up four SN code address, see the following picture:



SN code device address is IP address of SN code device.

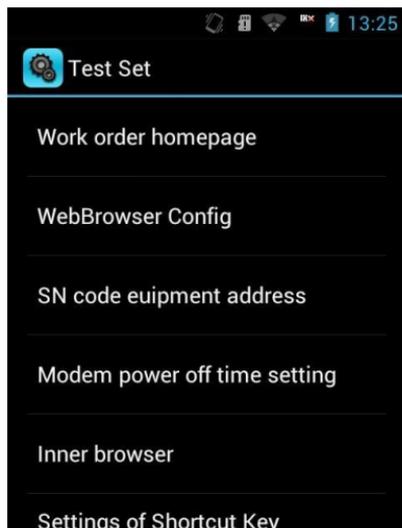
Before login, you should confirm the device and tester has connected through network line, and then clicks SN code, it will appear SN code device address window, user choose and write device address, click "Yes" can login WEB page. (Usually, it will appear user name and password before login). Login picture is:



Input the user name and password, and login the configuration page of WEB, double-click the browser to enlarge the content, slide the screen to view the different area of the webpage.

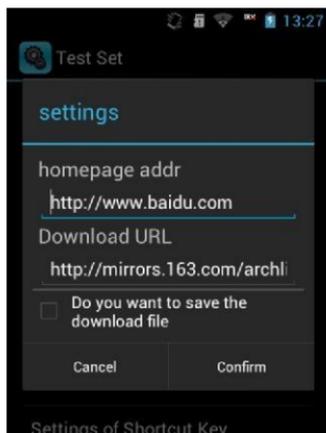
### 3. Test Setting

Test setting used in device software setting, including files management and SN code device setting, Modem power off time setting, like the following picture:



### Webbrowser Config

Set the homepage address of the testing speed, the download address of files and whether the speed testing file need to be stored. As follows:



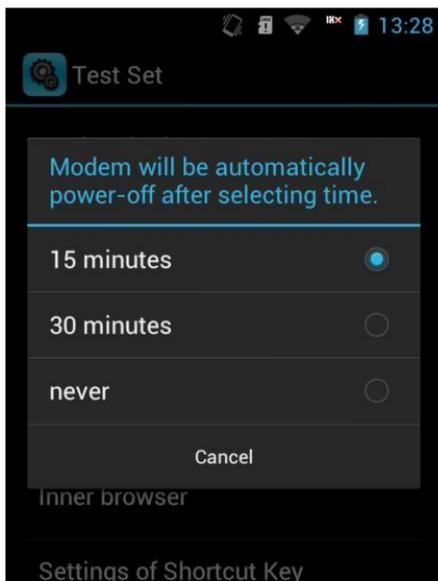
## SN code equipment address

This option is setting for SN code default IP address; it can setup four IP address.



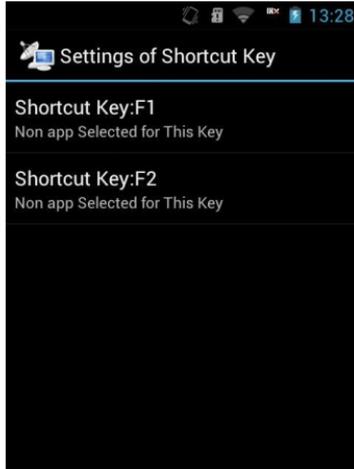
## Modem power off time setting

It is used to setup Modem working time; over the setting time, Modem will shut down. As follows:

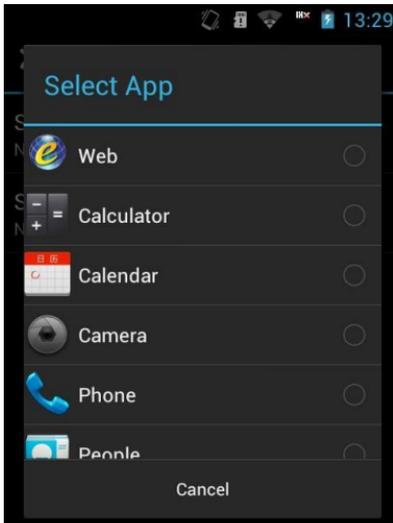


### **Settings of shortcut key**

Set the corresponding program for F1 and F2, which can start the setting related program through the two keys, the setting widow is as follows:



Click shortcut key F1 or F2, the program selected window is as follows:



Select the program need to be started, and then long

press F1 or F2 will start the program.

## About

Device software version and company contact way:



## 4. Records

Browse the test records which have stored. See the picture:

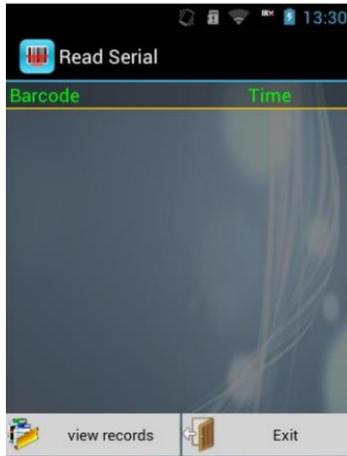


**Note:** when show device name, if the name is too long, it will intercept appropriate name automatic.

Click corresponding test records can open and check records.

## 5. Read Serial

Barcode scan test interface is shown as below:



In the "Read Serial" interface, after pressing "SCAN" key on the side, it can work. The red light just aim at bar code, the test result will show on screen. Tester can scan continuously and show the scan result in table, and record the scan time. A prompt box about whether store will be pop up when exit.

## **6. Control of the Electric Quality and Wireless Dial**

Control of the electric quality and wireless dial is in setting, and the tester provides the quick way to control. Pulling down the prompt column, system will display the shortcut control icon; click the shortcut icon can open or close the corresponding option, white is close and blue is

open. Please see the following picture:



Description of the control item is as follows:

 **Settings:** shortcut icon of setting open, click it can open the setting quickly.

 **Task Manager:** Shortcut icon of task manager and click it can open the task manager quickly.

 **WLAN icon:** the switch for WIFI, if use a router for the first time, user need to enter into setting, searching WIFI router at first, and enter the password to connect with the router.  icon will be shown in the prompt bar after connection.

 **Bluetooth icon:** the switch for Bluetooth, user should

search and pair with it when searching other Bluetooth user.



**GPS icon:** the switch for GPS



**Brightness icon:** Adjust the brightness of the screen, click it to adjust the brightness, which includes low, middle, high, user can adjust the brightness continuously in setting.



**Voice icon:** adjust the voice mode, which includes voice mode, silent mode and vibration mode.



**Data:** switch for 3G wireless. SIM/UIM card is needed, flow and cost will be generated after clicking, and please close the link when do not use.



**PPPoE icon:** switch for PPPoE.



**Rotate Icon:** open or close the auto Screen revolve mode.



**LAN icon:** switch for the LAN network card.

## 7. Web

Click web to enter into the browser interface for all functions, and user can login the common site under the main menu. As follows:



Enter into the website or IP address in the address bar to login the webpage.

Internet setting menu will pop up when clicking the menu key which includes refresh, forward, bookmarks, save to bookmarks, share page, find on page and so on.

Click "Save to bookmark" to store the current page into the bookmark, and then user can open the webpage quickly.

Click "Settings", the setting interface will pop up which includes General, Privacy & Security, Accessibility, Advanced and so on.

User can set the homepage of the browser in "General", the tester will connect with it automatically when login.

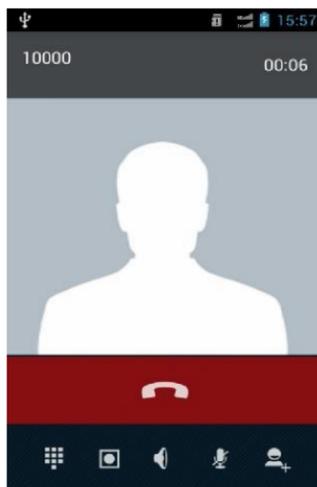
"Settings--Advanced---Save Location" can set the storage position of the download files, and user can store it in the inner memorizer or SD card.

## 8. Dialer

Click dialing key or the number key to enter into the dial interface. As follows:



**Dial interface**



**Call interface**

Press  call or  dial key after input the phone number to make a phone call; click  or  key to hang up the phone. Under phone interface, user can adjust the volume by pressing the volume key.

Click  to show the call records, and click the corresponding phone icon to dial the number.

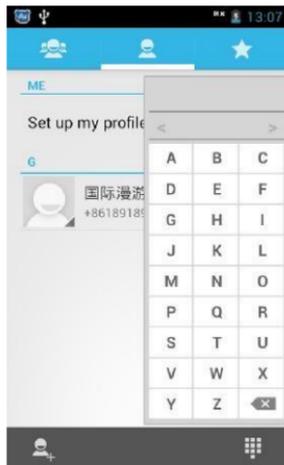
Click  to display the address, and click the contact to dial the number.

Click  to show the stored contacts.

Click  to conceal the dialing keyboard.

## 9. Contacts

Contacts are the storage information about personal and business.



Press menu key in "Contacts" interface, can display the contacts information and Import/Export contacts.

**Note:** The Import/Export contacts are in the catalogue of TF card mnt/sdcard.

### Find contacts

Input the name of the contact person in the right textbox

until you find the person you want.

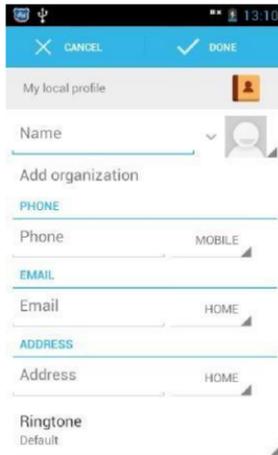
### Create new contact

In Contacts list interface, click "Add" , can add contact person into device.

**Note:** More contact persons will affect the system running speed.

### The operation for each contact person

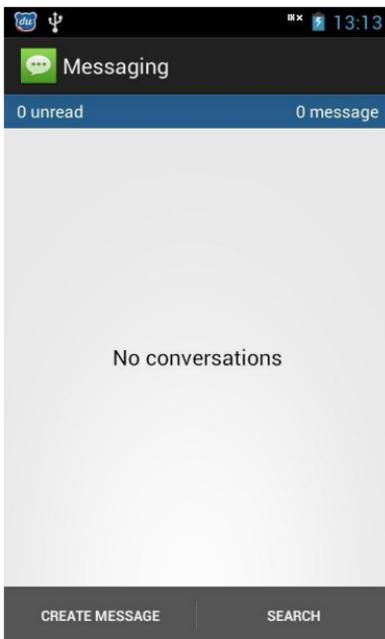
Press the contact person shortly to enter into the interface with detailed info of the contact person.



Press menu again can edit or delete the contact person and also can set the corresponding ring. Click the pen icon below can edit the contact person.

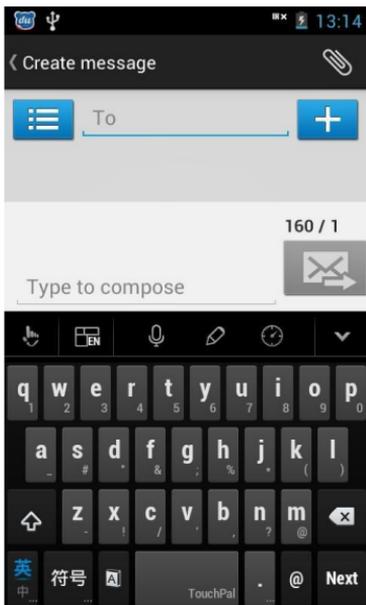
## 10. Messaging

In main menu interface, click "Messaging" to enter into message list interface. Press menu key to show setting item, delete old messages, and click "settings" can set the content of the message. Clicking "delete " can delete all the messages.



### New message

In messaging interface, click **CREATE MESSAGE** to enter into the new message interface and it will show as follows:



Click "Receiver" to type into the number of receipts and then type the content need to be sent in "Type Message".

Clicking number edit box can type number.

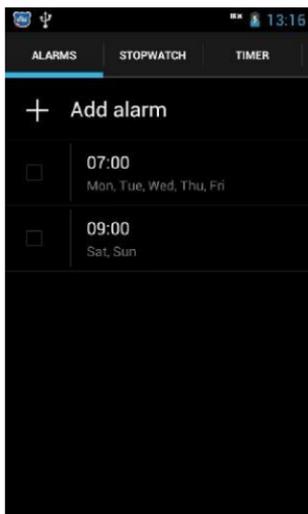
Click  to add the attachment.

Click  to add the attachment.

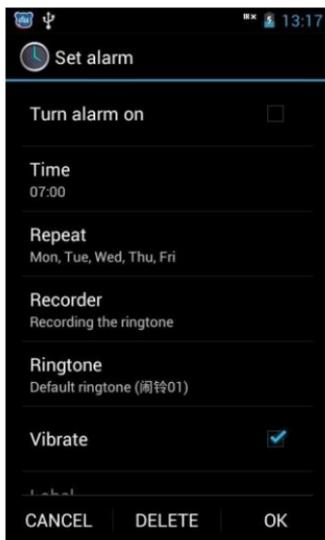
Click  to send message.

## 11. Clock

Click clock icon, the clock interface will pop up as follows:



Click alarm, and then tester will enter into the alarm add interface. As follows:



**Setting:** you can turn on/off the alarm, set time, repeat, ring tone, vibrate and so on.

### Open alarm

Click  on the top right corner of the alarm interface and bright display means the function is open.

### Note:

In the off state, the system will automatically open and then start the alarm service.

In order to ensure the alarm effect, please do not set mute mode.

Please change the battery in 1 minute if needed, otherwise the alarm, automatic switch, time and date information may be inaccurate or missing.

## 12. Calendar

Click calendar to look up the calendar as follows:



The screenshot shows a mobile calendar interface for September 2012. At the top, there are icons for a home button, signal strength, Wi-Fi, and battery, along with the time 13:39. Below the title 'September 2012', there are icons for the current month (31), a calendar icon, and a plus sign. The calendar grid shows days of the week (SUN to SAT) and dates from 26 to 6. The date 14 is highlighted in white.

SUN	MON	TUE	WED	THU	FRI	SAT
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

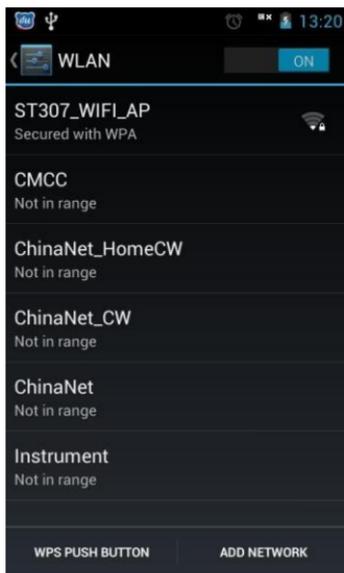
## 13. Settings

"Settings" includes all the content needed to be set, detail see the following:

### 13.1 Wireless & Networks

#### WLAN

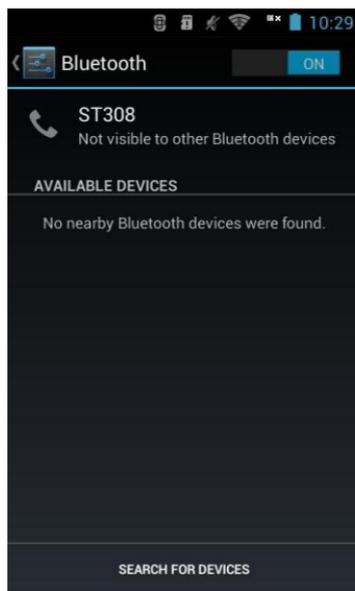
Slide the switch from left to right to open or close WLAN and click the icon into WLAN setting, as follows:



Tester will search WLAN router automatically after entering into WLAN setting, and the result will be shown in list. Click the router can connect with it and some of the connection needs password. Click "WPS Push Button" or "Add Network" to search other internet.

### Bluetooth

Slide switch from left or right to open or close Bluetooth and click the icon into Bluetooth setting, as follows:



When open Bluetooth, click "device name" can make the device be found, and detect all the equipments around. Click "Search for Devices", the device will search and show Bluetooth list. Press to rename device, set visibility timeout, show received files.

### Data usage

Open or close the date usage function; check the usage of data.

## More:

Do the operation of airplane mode, VPN, tethering & portable hotspot, WLAN direct, WLAN direct setting and mobile networks.

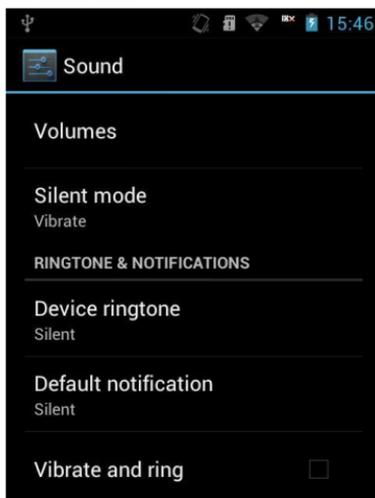
## 13.2 Device

### Sound

Open or close the silent mode.

Set the volume, ring tone, default notification and so on.

Open or close the vibration and ring, dial pad touch tones, touch sound, screen lock sound, vibrate on touch and emergency tone. As follows:

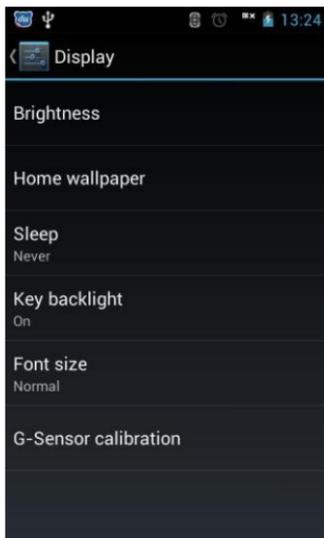


**Note:** Adjust the volume of the loudspeaker through the up and down key.

### Display

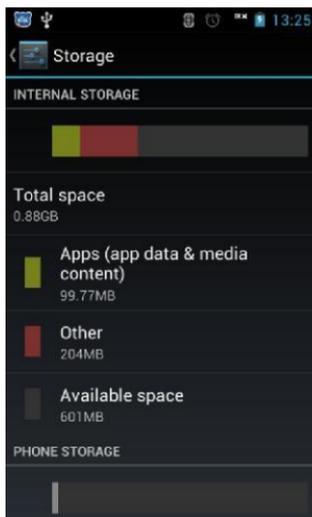
Adjust screen brightness, wallpaper, sleep time and

font size. As follows:



### **Storage**

Check TF card space capacity and available system space as follows:



### Battery

Check the quantity of the electricity.



### Application program

You can manage the application program.

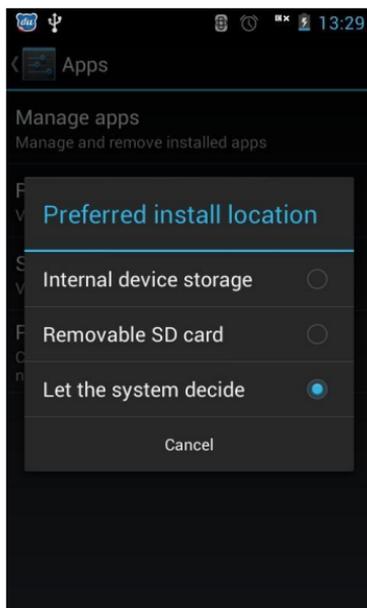
Application management: used in managing the installed applications including display application program storage, permissions and other information as well as clear data, clear default settings and forced stop.

Running service: view and control the currently running services.

Storage: check the storage space of the application program. As follows:



Preferred install location: it can be used to set the default installation root of apps



### 13.3 Personal

Includes the settings related to personal:

#### **Location Services:**

Click to choose the different location modes such as GPS satellite.

#### **Security:**

- Choose the screen lock mode;
- Owner info;
- Open or close the password visible function;
- Choose the device administrators;
- Set application password and the default password is 1234;

- Install the unknown sources with default password 1234 and you can change the password in "Application Password".

- Choose the trusted evidence.

- Install from the SD card;

- Clear credentials

### **Language and input**

- Select the display language

- Open or close the spelling correction

- Choose different input method

### **Factory data reset**

Factory reset function will clear all the information. Please copy the important information such as: Contacts and message etc.

## **13.4 Accounts**

After opening the function, add the account to keep the synchronization of the equipment and account.

## **13.5 System**

### **Date and time**

- Open or close the automatic date & time which is provided by network.

- When closed, you need to set the date, time zone and time.

- Choose the time or date format.

### **Accessibility**

- Press power key to end the phone call.
- Choose the touch and hold delay time.
- Choose whether install the network script or not.

### **Developer Options:**

Choose the options for develop person.

### **Auto power on/off**

Set the time of auto power on/off.

### **About device**

View basic device information such as status, legal information, model number, Android version and so on.

## **14. Camera**

According to the camera in the device, you can easily take photographs and make video clips.

### **Photograph**

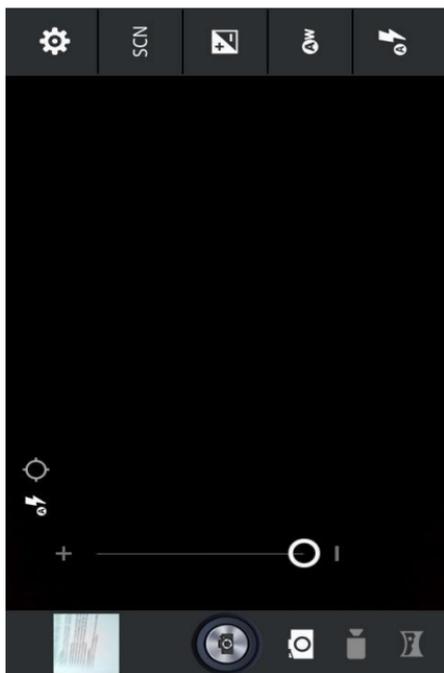
Enter the camera preview interface through pressing



or



, and user can set the parameters by clicking the icon on the menu as shown in the following picture:



Click  to enter into the basic setting for the camera, which includes select storage position, scene mode, picture size, picture quality and so on.

“Store location” can record the geographical location information of camera. After opening and GPS location, the photo will have longitude and latitude information. (You can see it during browsing photos in Gallery)

Click  to enter into white balance

Click  to enter into flash mode

Click  to enter into manual adjustment setting

Click  or  to take photos

## Video

In the camera preview interface, clicking  can be switched to the video. In video mode, the operation is as following shows:

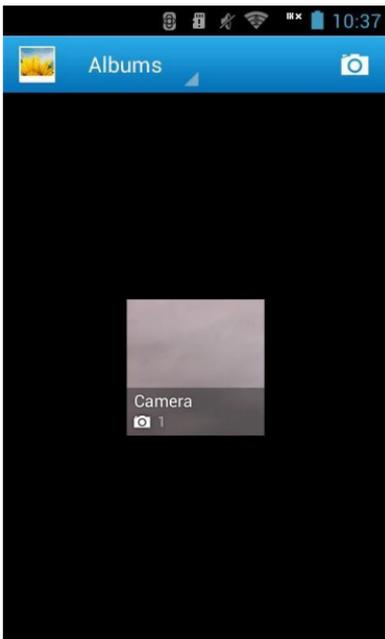
Click  to enter into the basic setting, which includes: select storage position, video size, video encoder, audio encoder and so on.

Click  to enter into white balance.

Click  or  to shoot video and pressing again to stop shoot.

## 15. Gallery

View the pictures and videos stored in the SD card, as shown in the following picture:



Click the folder to enter into the picture and video browsing mode; sliding from left to right can browse the pictures in the folders; and clicking the video can play it.

## 16. My files

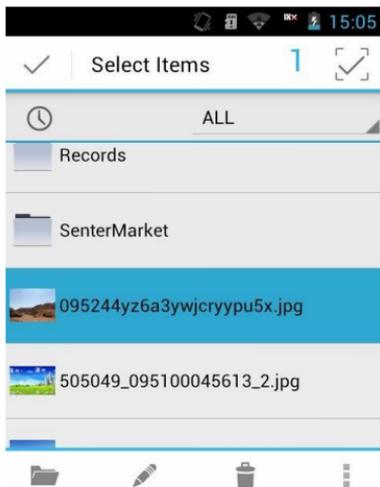
View the files stored in the device or SD card.

Click the  icon to check the recent files; click  to return to the previous interface; click  to choose locating file. Click "ALL" to pop up the file types. As the following picture:



From the "My Files", you can browse and manage the files and folders on the memory card.

Long press the selected file icon, the following picture will pop up:



 is to choose all files.

 is to open file.

 is to rename.

 is to delete.

➤ More operation: copy, cut, share and property.  
Press menu key to pop up :

➤ New: Edit the folder name and save file.

➤ Paste: paste the copied files or folders.

➤ Setting: view change and sort change

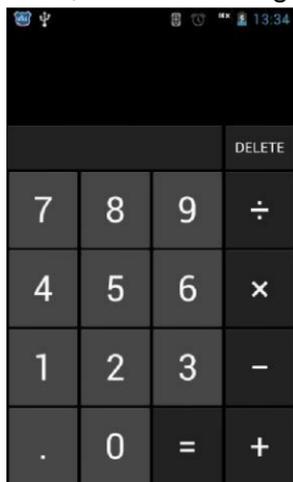
### **Note:**

The default storage path is as the following:

- Photo and video storage path is "DCIM/Camera".
- Download file storage path is "Download".
- System test record storage path is "Record".

## 17. Calculator

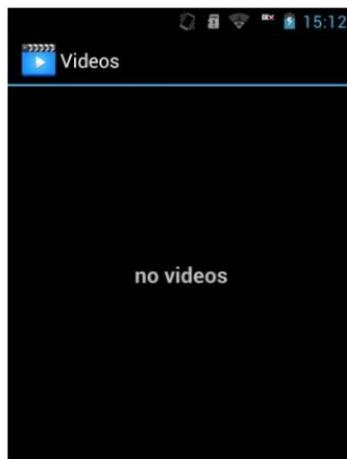
Use calculator function to make simple arithmetic. You can click the number and symbol to do corresponding calculation, as the following picture:



Press menu key and click "advanced panel" to do more calculating operation.

## 18. Video

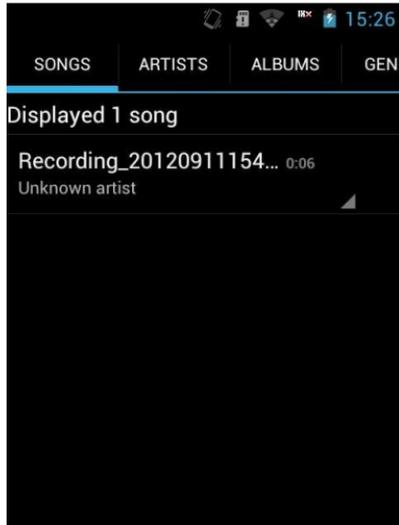
Click "Videos" to enter into video play interface. As follows:



**Note:** support formats: 3gp, MP4 etc.

## 19. Music

Click music to show all the music types and click file to play the music. As follows:



- Songs: check all the music
- Artist: in accordance with the artist's name to divide the type of songs.
- Album: in accordance with the album name to view the songs.
- Genre: check different genres
- Playlist: view the current playlist and pre-existing playlist.

Press one song entered the media player interface, click menu:

- Library: check this machine music library file.
- Add to playlist: add the songs to the playlist.
- Use as ringtone: set this song as ring.

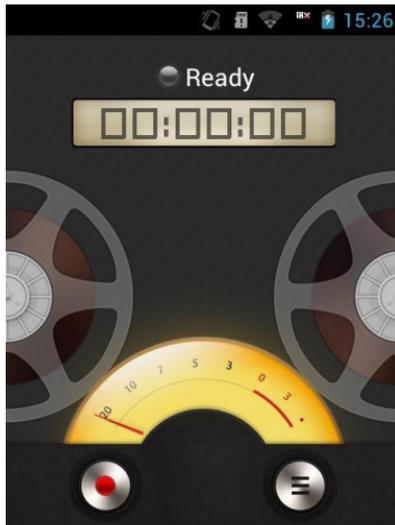
- Share: built-in many methods to share
- Remove: remove this song.

During playing the song, you can press the side keys to adjust the volume.

**Note:** support formats: MP3, AMR, WAV, mid, Ogg etc.

## 20. Recorder

The device provides a long time recording function; please make sure that your device has enough storage space. As shown in the following picture:



### Recording method:

- Keep the microphone near the sound source.
- Click  to start recording; click  to end, and then

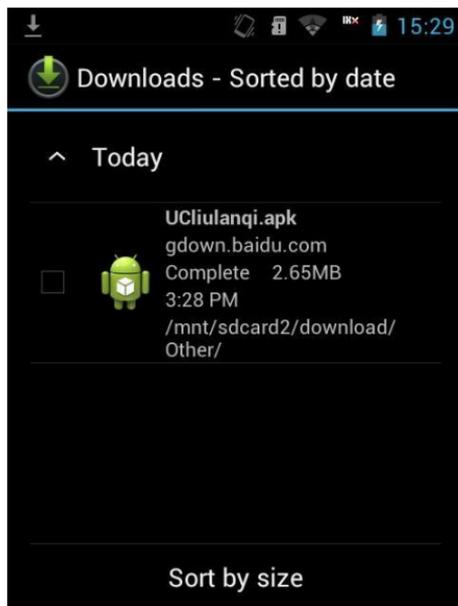
click  pop up the record list to check the record file.

- After the recording, it will save automatically.
- Click menu key to choose the storage location and choose the file type.

**Tip:** Using media player can directly play the recorded file.

## 21. Downloads

The content is downloaded from the Internet. Click the downloaded file to install. As follows:



## 22. G-Sensor Calibration

Click Setting-Display-G-Sensor calibration to enter.

Please follow the tip on the screen to calibrate. As the following picture shows:



Click "Calibrate" to start this program. When the water ball is located in the cross center, the calibration has finished and press "ok" to accomplish the calibration.

## 23. How to Install and Uninstall Software

### Install

In the "My Files" interface, please find the downloaded installation package (apk file).

After clicking installation package, if pop "installation is forbidden", please following up the instruction to set: open "Settings--Security--Unknown Sources" and then input

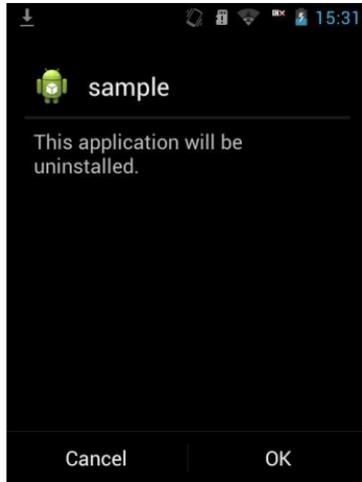
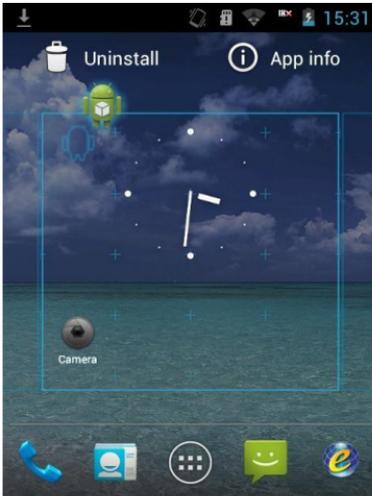
password (default password is 1234); then returned to the "Settings--apps" to click "Install".

After successful installation, go back to the main menu to run the installed application.

## Uninstall

Enter " Settings > apps > Manage apps".

Choose the application; click "uninstall". Or enter into the menu interface and choose the programme need to be uninstalled and keep pressing until shake, then you can move the icon to the desktop and a uninstalled interface will pop up. Click "OK" to uninstall the programme, and then click "OK" again to finish uninstall.

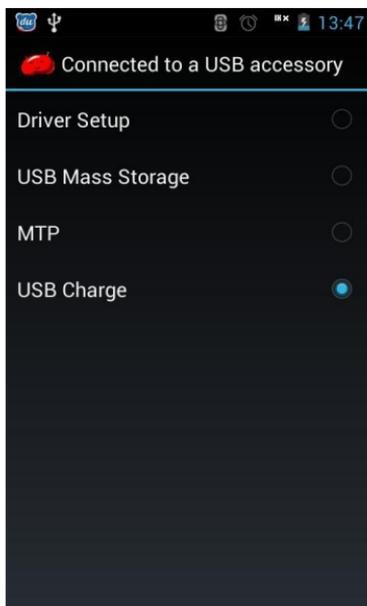


**Note:** The intelligent device has open application software; this feature is only used by personal but not for commercial purposes. For commercial purposes, it must need

professional adaptation and test.

## 24. How to Install the USB Driver

Connect the USB data cable to the tester, pull down the prompt bar and click the “Connected to a USB accessory”, as the following:



Choose eSurfing Data connection, the following window will pop up:



Close the installation window; computer will display a more drive as CD Drive (M:) eSurfingClient (drive code will change with the number of computer drives). Open the Disk, the content will be as follows:

Name	Date Modified	Type	Size
Setup	2012/7/13 15:45	Documents	
autorun	2010/12/18 17:12	Application program	288 KB
autorun	2008/10/19 10:49	Icon	8 KB
autorun	2011/1/12 22:19	Installation information	1 KB
autorun	2010/12/17 16:45	Configuration setting	1 KB
Install the cell phone driver	2010/12/17 18:03	Windows batching	1 KB
Tianyi Pc Modem install instruction	2011/3/23 0:22	MHTML File	444 KB
Uninstall the cell phone driver	2010/12/17 18:04	Windows batching	1 KB

Click install the cell-phone drive only, the following window will pop up:



After finish install the drive, the program will display as follows:



Click OK, and restart PC to enforce the program.

## **Chapter IV**

### **Usage and Maintenance**

The following suggestions are helpful for the users to use and maintain this tester.

- Put the tester and all the accessories in the place where the children can't reach.
- Please keep the equipment dry. Because there may be mineral substance in the rain, moisture and various liquids which can corrode the circuits.
- Please keep the tester far away from the magnetic equipments like magnetic card and floppy; don't put the tester, battery and charger in the electromagnetic field like electromagnetic oven and microwave oven.
- Don't put the tester in the high temperature place. Because the high temperature may shorten the lifespan of the electronic equipment, damage the battery and make the plastic accessories deform or melt.
- Don't put the tester in the low temperature place. Because when you move the tester from lower temperature place to the normal temperature place, there will be moisture inside of the tester, which may damage the circuits board.
- Please don't try to uninstall the tester because the improper operation of the nonprofessional person may lead to the damage of the tester.
- Please don't throw, hit or shake the tester because all

rude using method break the inside main board.

- Please don't use the irritant chemicals, irritant cleanser or caustic cleanser to clean the tester. When cleaning the tester, please use rag with mild soap water to wipe gently.
- Please don't spread the pigment for the tester. Because the pigment may obstruct the usage of the active accessories.

**Note:** The max SAR is 2.0W/Kg, which meets the requirement of the national standard GB 21288.

### **Optical power and visual fault locator part:**

- Keep the sensor end face clean: no dust, no pollution. Don't use unclean, nonstandard adapters. Don't insert into the end face with bad polished surface or the sensor end face will be damaged.
- When don't use the power meter, please cover the dust cap immediately to keep the end face clean in order to prevent the sensor from the dust to result in the error during the test.
- Clean the sensor end face regularly.
- when this visual fault locator is working, it is forbidden that eyes stare output end of the laser which will hurt eyes and skin.

## Chapter V

### Faults and Solutions

If you meet the following problems during the using process, please try to use the "Faults and Solutions" first to do the relative operation. If the problems still exist, please contact the professional maintenance person.

<b>Problem</b>	<b>Reason</b>	<b>Solution</b>
Unable to switch on the tester	The time of pressing the power key is not enough.	Press the power key for over 2 seconds and more.
	Low Battery	Charge the tester
	Poor contact of the battery	Reinstall battery or clean the battery contact point.
Some programs can't be used normally.	The storage space is not enough.	Clean the messages of built-in multimedia promptly and other application programs as well as the download application records.
The standby time is not enough.	The battery performance declines.	Change the battery.
	Play games and music for a long	Limit the time of playing games and music.

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	time.	
Charging fault	Poor contact	Check the contacts or change plug.
	Low battery voltage.	There will be no charging display. Charging for about half an hour and then unplug it to recharge.
	Battery fault	Change battery.
	Wrong charger type	Change proper charger.
	Charger fault	Change or mend the charger.
Can't connect with the net.	Weak signal	Move to a wide place and then try again.
	Not in service area.	Confirm the network coverage.
Can't make a call.	Equipment card fault	Check or change equipment card.
	Dialing error	Redial
	Reach to the cost limit.	Contact with the operator.
Invalid button operation	Get accident interference.	Remove the battery and then install 1 minute later.
Some calls can't	The telephone number digits	Check the telephone number.

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realize.	exceed the limit.	
	Setting fault	Check whether set "calling barring".
Can't find the Contacts.	The equipment card is changed.	Use the original equipment card.
There is no number in the Contacts.	Wrong setting or the battery is long time in low voltage or long time no use.	The saved data have lost due to the long time low voltage.
There is no call warning tone.	The volume is set to mute.	Reset the proper volume.
PIN code error	Input the wrong password for three times.	Contact with the operator.
Error of automatically locking password	Input the wrong password. (forget the password)	Please contact with the appointed after-sale service center.
The equipment is automatically closed	The battery electricity is severely not enough.	Please charge.
	Setting reason	Check whether setting the auto power-off or

		not.
	Get accident interference.	Restart
Big test error	Sensor interface is dirty	Clean the sensor interface

## **Chapter VI**

### **market**

#### **1. Summary**

market is a software market especially designed for PDA by Shandong Electronic Co., Ltd. Users can download and install the test application programs and the third-party programs. Users can download new test software or upgrade the current test program and related software. At the same time, users can give remarks to some software and give reflections as well as suggestion; we will give reply to your question immediately.

#### **2. Components**

- 1) Download the software package
- 2) Install, upgrade the software package

The installation and upgrade of test software as well as third-party test software.

- 3) Software Remarks

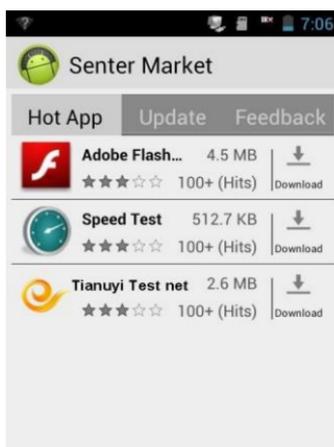
Customer can raise the problems and real-time communication.

4) Leave a message

Give an advice; point out mistakes; recommendation

### 3. Usage of Main Functions

Click the market icon to start, as follows:



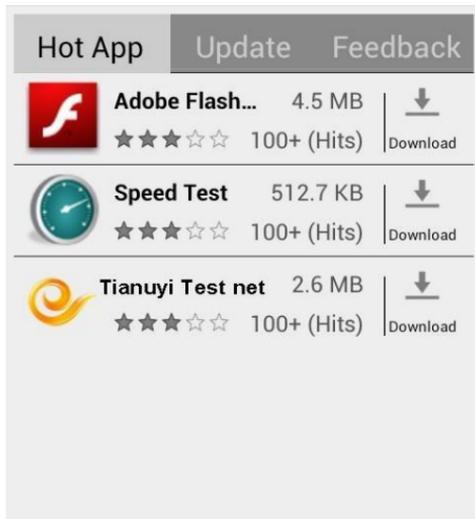
**Note:** This software is an internet application software so the software can only be used under the network connection. Please keep one of the WIFI, 3G or Ethernet work normally. What's more, some factors of 3G will affect the connection, so the Ethernet and WIFI are recommended.

#### 3.1 Download Software Package

All the upgrade service is included in this software and

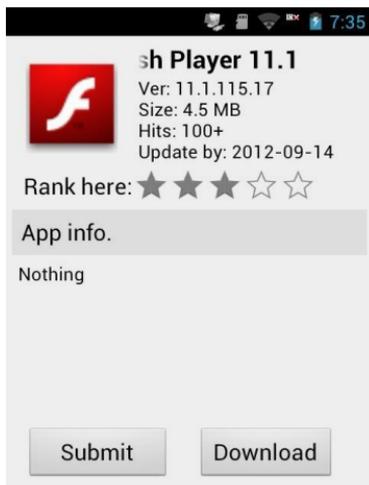
some third-party test tools as well as system software are also provided.

Click to run this software; it will interact with the server, the program which needs to be installed will be displayed as follows:



User can view the software through sliding the screen,

click  button to download the related program installation package; clicking the software name can display the detailed information of this software, as follows:

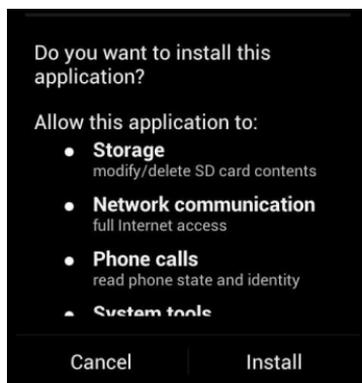


User can also download the program through pressing "Download" button under this interface. The download progress will be displayed in the pull-down list

**Note:** Download speed will be affected by various elements when using 3G networks, please use other connection method to download the software installation package. What's more, the 3G internet needs to pay and you should pay the operator for the flow. All the fee produced during this process is not related with market.

### 3.2 Installation and Upgrade

Market will open the installation program automatically after finishing download and prompt box will ask user whether install it or not, details as the following shows:



Click “cancel” to exit installation program; click “install” to install the software. If you complete the download by

clicking “update” in upgrade tester interface, it will inform users whether to replace the software. Click “OK” to install and upgrade the software.

Click “update” label and you can see the software which can be upgraded.

**Note:** there will be password protection from the malware when the tester is firstly used. Initial password is 1234 and user can modify the password in the system setting.

### **3.3. Remarks**

Click the software name to enter into its detailed introduction interface. Users can check the related information of the software such as: edition number, size, downloads and updated time. Even more, it also has remark

function. Users can remark the software by sliding stars. **Note:** Submit the remarks after star modification and then you can upload your remarks to the server and the beginning star is the comprehensive marks. The default is 3 stars.

#### 4. Trouble Shooting

When the tester has problem, please try the following fault exclusive method, and try to connect with company if the problem is unsolved.

Problem	Reason	Solution
The connection is time out	The tester is not connected with the Internet.	Check the network and try to check the connection.

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	Server is abnormal.	Please restart the software after a period of time, and contact with us for further problem.
The unauthorized visit	The Market has been installed on the unauthorized equipment.	Please purchase the authorized equipment.
Download abnormal	Unstable network	Check the network.
	Server is abnormal.	Please restart the software after a period of time, and contact with us for further problem

## **Chapter VII**

### **The Instruction of Program Installation after Resetting**

The testing program will be lost after resetting the Multi-service Access Test PDA. User can install the Market through file manager, and then install the testing program online through Market.

market is in the internal storage, it will not be lost even though the PDA has been reset. (except for user has choose formating the internal U disk). Choose file manager->internal storage->Market.apk, and then click it to install. (Installation of the program which does not get from the Market is permitted) The default password is 1234. Connect the PDA with 3G or WIFI network after installation, and then run the Market to install the test program and others according to the instruction.