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Chapter I Product Introduction

Jepower HT380K intelligent mobile data terminal is one hand-hold data collection terminal with high protection and overall performance which is independently developed, designed and manufactured by our company based on internet of things application field. This product is one high-performance hand-hold data terminal which is based on Android 4.4 operating platform and equipped with Qualcomm Netmosa data communication solution. It integrates computer technology, image technology, wireless communication technology, bar code scanning, RFID and GPS, has many advantages such as powerful functions, complete interfaces, compatible various protocols, and design in technical grade (IP65), entirely meets special requirements of logistics industry, in particular, high-duty and high-frequency operating, efficiency-oriented and complex service environment.

Android Operating System: Openness system platform, Qualcomm quad-core platform, rapid system operating speed, network-friendly, abundant function selection, over ten thousand application program supports, and free of copyright problem.

Excellent Quality: Stable performance, sturdy and durable structured design, industrial IP65 packaging standard design, obviously improved waterproof and dust tightness, guarantee for normal running under complex and rigorous environment, assistant of high-capacity Li-polymer safe battery with long life, easy and ease to use.

Netmosa Communication: It supports 4G network of China Mobile, China Unicom and China Telecom, TD-LTE, FDD-LTE, WCDMA, CDMA2000, GPRS and CDMA. It is able to transmit picture, folder and other kinds of large files, switch to 3G/2G service automatically when 4G network is unavailable, guarantee the data transmission speed, offer powerful support for the client's real-time field data, and guarantee the work efficiency.

Diversified Wireless Communication Function: It supports Bluetooth 4.0+EDR and IEEE 802.11 a/b/g/n WLAN wireless communication.

Diversified Data Acquisition Function: It supports one-dimensional barcode, two-dimensional engine, NFC and other kinds of data acquisition methods. The built-in high-speed reliable laser barcode scanning engine can be operated in various industrial environments.

Considerate Customize: The product adopts modular design, which can be customized considerably based on the clients' personal needs, and provides the highest cost performance for the clients.

Powerful Service Support Team: Our Company has more than ten years of research and development experience and abundant project implementation experience. We are able to provide professional technical support service for the clients, and any development problem can be timely supported by our professional service.

1.1 Technical Parameters of the Product

Basic Parameters		
Processor		Qualcomm MSM8916 Quad-core Dominant Frequency 1.2GHz
Operating System		Android 4.4.4
RAM	Original RAM	RAM: DDR3 1GB NandFlash: 8GB
	Extended RAM	Micro SD (TF) Card can be extended to 32G
Display Screen		3.5 inches multi-point touch screen high-definition and highlight IPSscreen, 480×800 resolution ratio
Keyboard		26 physical keyboards (including numeric keys, function keys and power keys), and 2 user-defined function side keypads
Battery		3.8V 4000mAh plug-in polymer lithium battery
尺寸 Size		166mm (Length) ×68mm (Width) ×28mm (Thickness)
Weight		260g (Including 4000mAh Battery)
Camera		8 million pixels high-definition camera, supports automatic focusing, is equipped with flash lamp
Card Slot		Micro SD (TF) Card * 1, SIM Card * 1, PSAM Card * 1
Indicator Light		Power Light *1
Outer Joint		USB 2.0 Joint *1, Earphone *1
Voice		Loudspeaker *1, Microphone *1, Earphone *1, Receiver *1
Phone Function		It supports high-definition voice mobile communication function
Vibration Prompt		Support
Voice Decibel		Loudspeaker reaches 90 dB, easy to handle with noisy environment
Data Acquisition Parameters		
Symbologies	One-dimensional Bard code	High-speed and accurate professional scanning engine, it is able to recognize: Code 39, Codabar, Code 128, Discrete 2 of 5, Interleaved 2 of 5, Code 93, UPC-A, UPC-E, AN-8, EAN-13, MSI, EAN-128, ISBN/ISSN and other code systems
	Two-dimensional Bard code	High-speed and accurate professional scanning engine, it is able to recognize: 1D: Code 39, Codabar, Code 128, Discrete 2 of 5, Interleaved 2 of 5, Code 93, UPC-A, UPC-E, EAN-8, EAN-13, MSI, EAN-128, ISBN/ISSN and other code systems 2D: PDF417, QR Code(QR1, QR2, Micro QR) , Data Matrix,

		GS1-DataBarTM (RSS-Limited, RSS-14, RSS-14 Stacked, RSS-Expand) and other code systems
NFC		It supports ISO14443A, ISO15693 and Mifare (supporting S50 and S70 cards read-write)
WiFi		IEEE 802.11a/b/g/n, it supports 2.4GHz and 5.0GHz double frequency
Bluetooth		Built-in Bluetooth 4.0
Location		GPS Function
Wireless Communication		It supports 4G/3G/GPRS/CDMA network of China Mobile, China Unicom and China Telecom, Netmosa network, call, data transmission and SMS functions
Environmental Parameters		
Operating Temperature		-10°C~+50°C
Storage Temperature		-25°C~+70°C
Relative Humidity		5%RH ~ 95%RH (no condensation)
Protection Grade		IP65, within operating temperature scope, the impact falling to hard ground from 1.5m high can be undertaken by 6 faces
Accessories		1 charger, 1 polymer lithium battery, 1 USB data line, 1 Software disk and 1 wrist strap

1.1 Exterior Structure



Back





Side Joints



Top

Chapter II How to Start

2.1 Install the Battery

Operating steps: (As shown in Figure 2.1.1)

- 1) Move the locking key of battery to free location **FREE** ←
- 2) Open the rear cover
- 3) Place the battery wafer in the battery cabin inward and upward.
- 4) Cover the rear cover, depress the rear cover, and move the locking key of battery to locking location **LOCK**.

Step1



Step2



Step3

Battery Wafer



Step4



Figure 2.1.1

2.2 Install TF Card and SIM Card

Operating steps:

- 1) Ensure the equipment is powered off and not charged.
- 2) Removal the battery cover.
- 3) Take out the battery.
- 4) Slightly push the TF card to the most inside location of the cassette in the direction shown in Figure 2.2.2.
- 5) Slightly push the SIM card to the most inside location of the cassette in the direction shown in Figure 2.2.3, and the installation effect is shown as Figure 2.2.4.
- 6) Place the battery in the battery cabin and cover the rear cover.
- 7) Move the locking key of battery to locking location **LOCK**, as shown.



Figure 2.2.1



Figure 2.2.2



Figure 2.2.3



Figure 2.2.4



Figure 2.2.5

2.3 Battery Charge

The charging mode of the equipment: charge using adaptor or USB data line.

- 1) Use the adaptor, direct access with 220V AC power to charge by using charger, shown as Figure 2.3.1.
- 2) Use the USB data line, direct insertion in USB interface of the computer to charge.



Figure 2.3.1

2.4 Power On and Power Off

2.4.1 Power On

After the equipment is accessed with electronic battery, press the  on/off key for 2-4 seconds, loosen the on/off key after you feel the equipment is vibrating, the equipment enters into startup interface, the Ldisk backlight lights, wait for 30 – 50 seconds, the equipment enters into main menu interface, and the equipment is started up completely.

2.4.2 Power Off

Press the  on/off key for 2-4 seconds, and the equipment main menu will popup dialog box, select “power off”, then the equipment enters into power off mode, the equipment may vibrate when it is powered off, when the Ldisk backlight is off, the the equipment is closed down completely.

Note: When using, please note that you should loosen the  on/off key after you feel the equipment is vibrating, if you still press it, the equipment will enter into restart status again and again, which may result in screen damage and data loss.

2.5 Sleeping and Awakening

2.5.1 Sleeping Awakening

In case the equipment is open, if it is needed to enter into sleeping status to save electricity, you may press the  on/off key once, then the equipment screen will be off immediately, at that

time, the equipment has entered into sleeping status, after it, the keyboard and touch screen will stop responding until the equipment is awakening.

In case the equipment is open, if it is not operated for a long time, it will enter into sleeping status automatically in order to reduce the power consumption. (The sleeping time can be set).

2.5.2 Awakening

In case the equipment is in sleeping status, only slightly press the  on/off key once can awaken it immediately, after the equipment is awakening, you can operate it normally.

Note: When using, please note that you'd better not click the  on/off key for many times in short time to force it into sleeping/awakening status frequently, unless it may result in screen damage and data loss.

2.6 Status Bar

The toolbar above the screen is the taskbar of the system, as shown (in Figure 2.6.1):



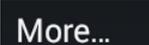
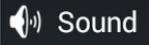
Figure 2.6.1

- The status bar in above the screen
- The USB connection status and message notice will be shown on top left.
- The silent mode, Wifi connection status, mobile signal, electric quantity/charging status of the battery of the equipment and current time will be shown on top right.

Chapter III System Settings

Click “

The main function setting items are listed in following table:

Items	Description
 Wi-Fi	WIFI option setting, you can “open” or “close” WIFI function based on this option.
 Mobile data	Mobile data option setting, you can “open” or “close” mobile data function based on this option.
 Bluetooth	Bluetooth option setting, you can “open” or “close” bluetooth function based on this option.
 Data usage	You can check current flow service condition, then you can control the flow more clearly.
 More...	Entering this option, then you can open airplane mode, set VPN, share network, and set up options related to mobile network.
 Sound	Entering this option, you can adjust the volume, select bell and set up various warning tones.
 Display	Entering this option, you can set up screen brightness, screen wallpaper, sleeping duration, screen rotation and display fonts.

 Storage	This option displays store status of the equipment, you can use it to install, unload or format the SD Card.
 Battery	This option displays battery status; you can use it to change power management property.
 Apps	You can use this option to check and manage the application programs downloaded by the equipment, and no need to delete the unwanted programs.
 Location	You can use this option to open and close Google location-based service or GPS satellite
 Security	You can use this option to set up the mode to lock the screen, encrypt the phone, lock the SIM card, enquire the equipment manager, manage the data with unknown source and use and install the application programs.
 Language & input	You can use this option to select the language for the system and set up the input method.
 Backup & reset	You can use this option to restore factory settings (if you restore factory settings, all the data on the phone will be cleared away)
 Date & time	You can use this option to manually or automatically set up date, time, time zone and time display format.
 Accessibility	You can use this option to open and close some special functions.
 About phone	You can use this option to check equipment information, including status information, model, version number and base band information.

Note: As for the item without functional description, please do not operate it.

3.1 WIFI Option

Through selecting “ settings >  Wi-Fi > ON”, the screen will display the wireless network nearby the user (as shown in Figure 3.1.1). You can select the WIFI network that you want to access, input the password and click connect (as shown in Figure 3.1.2).

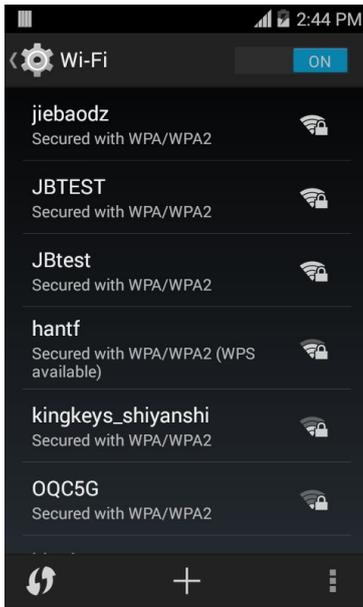


Figure 3.1.1

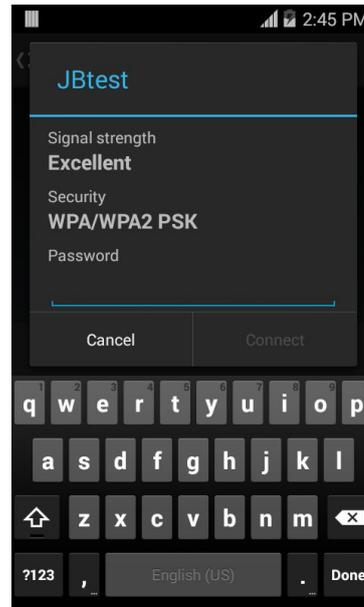


Figure 3.1.2

3.2 Bluetooth Option

Through selecting “ settings >  Bluetooth > ON > search for devices” (as shown in Figure 3.2.1), pair the equipment you want to connect in accordance with hints, then you can transmit the data (as shown in Figure 3.2.2).

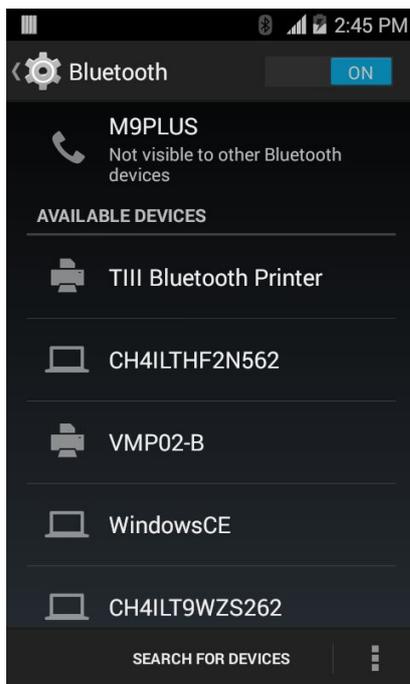


Figure 3.2.1

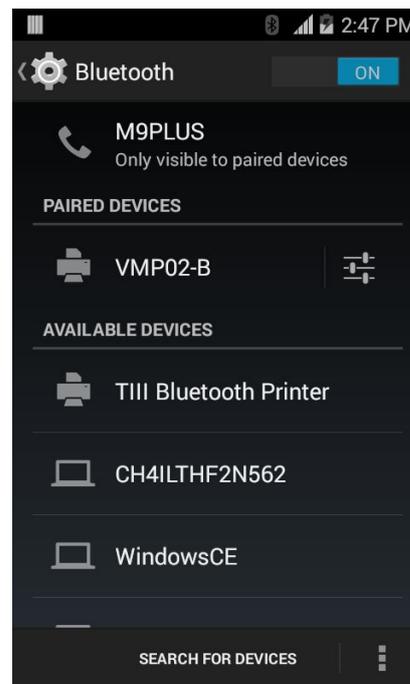
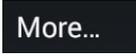


Figure 3.2.2

3.3 Wireless and More Network Options

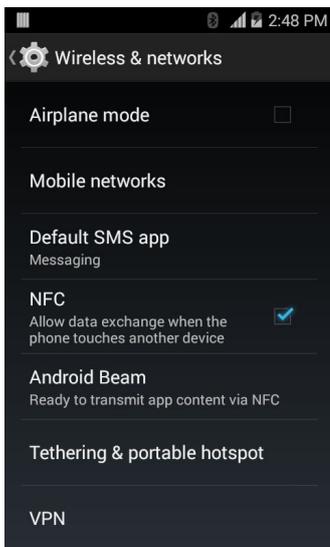
Through selecting “ settings > ” you can enter the operation interface for more options of wireless and network.

Airplane mode: Your phone can enter into or exist from airplane mode through selecting airplane mod.

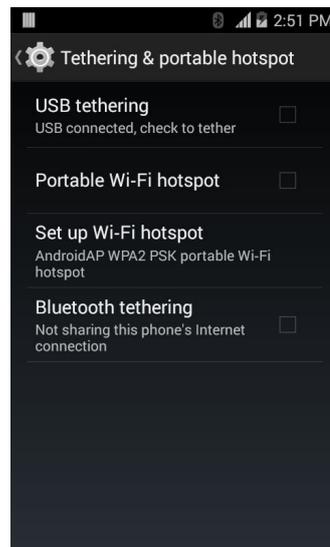
Tethering & portable hotspot: As shown in Figure 3.3.2, after opening network sharing and portable hot point option, you can share the network through USB or Bluetooth, or set up portable Wi-Fi hot point.

NFC: This function is used to open or close working power supply of NFC module, when you need to use NFC function, the relevant functions are only available when the NFC power supply is open.

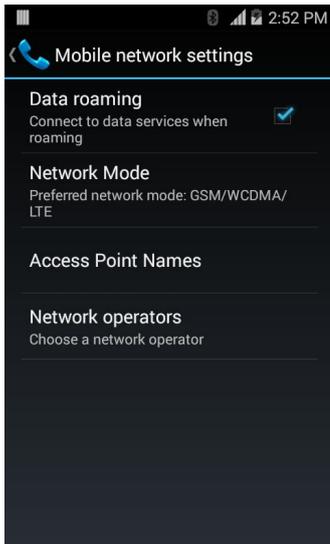
Mobile networks: You can use this option to close or open data traffic and start using data network roaming service, as shown in Figure 3.3.3.



As Shown in Figure 3.3.1



As Shown in Figure 3.3.2



As Shown in Figure 3.3.3

3.4 Volume and Voice

Through selecting “ settings >  Sound”, you can enter the operation interface for voice settings.

Volume setting: You can select “volume” and adjust the volume of various options based on needs (as shown in Figure 3.4.2), then you can save the adjustment through clicking OK.

Mobile phone bell: You can select “mobile phone bell”, select the bell and press OK, you can click “cancel” if you don’t want to save the setting (as shown in Figure 3.4.2).

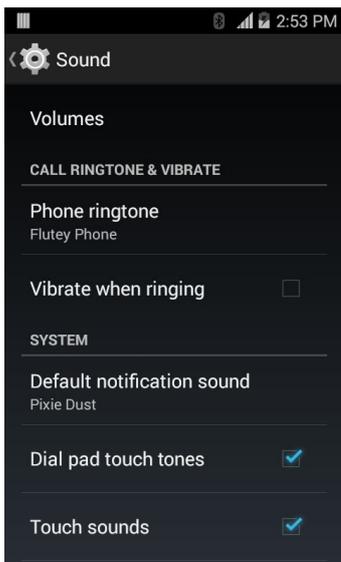


Figure 3.4.1

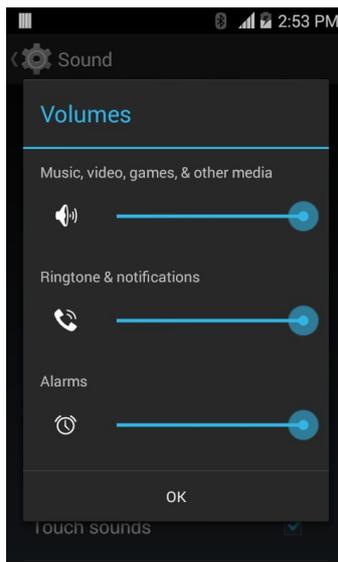


Figure 3.4.2

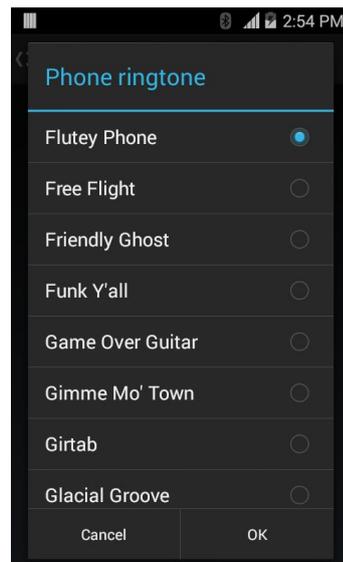


Figure 3.4.3

3.5 Battery

Through selecting “ settings >  Battery”, you can check the service time of the battery and power consumption conditions of various modules (as shown in Figure 3.5.1).

Through clicking battery service time, you can enter into “detailed information of history records” (as shown in Figure 3.5.2).

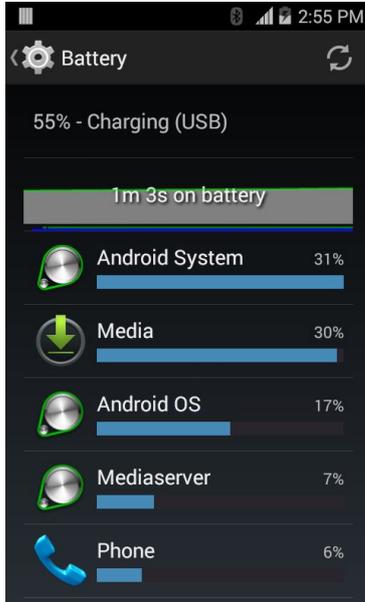


Figure 3.5.1

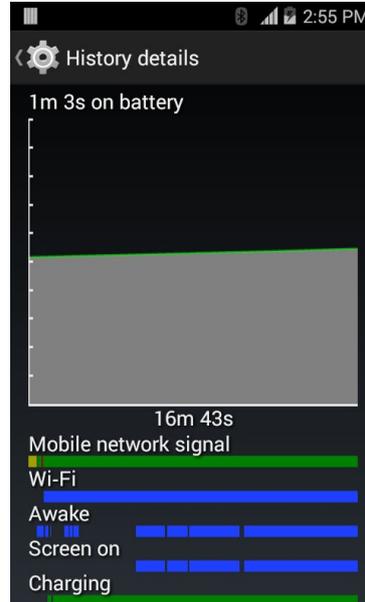


Figure 3.5.2

3.6 Backup and Resetting

Through selecting “ settings >  Backup & reset”, you can restore factory settings, (warning: if you restore factory settings, all the data on the phone will be cleared away, please be cautious) as shown in Figure 3.6.1. If the dialog (as shown in Figure 3.6.2) appears after you restore factory settings, you can complete the operation through resetting the phone and inputting the password.

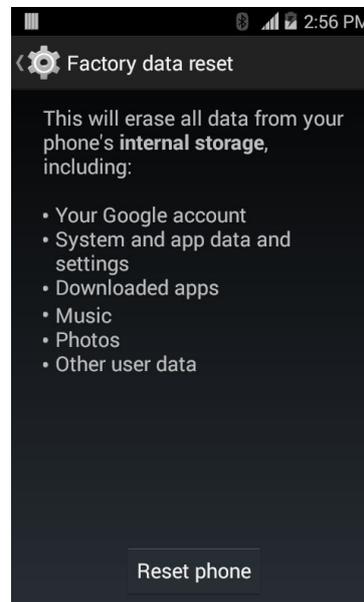
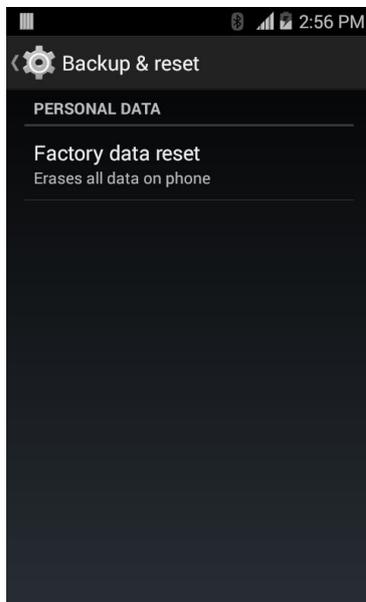


Figure 3.6.1

Figure 3.6.2

3.7 TF Card Browse

On the standby interface, you can enter the interface for all the applications through selecting interface icon “

Figure 3.7.1

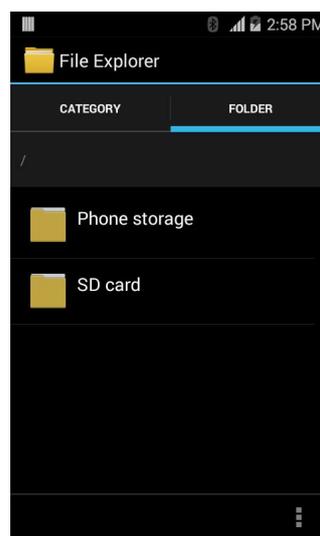


Figure 3.7.2

After entering the interface, you can choose external memory card in the files, and have operations such as previewing, deletion, moving, etc to the documents In TF.

3.8 Make a Call and Send a SMS

3.8.1 Make a Call

On the standby interface, you can enter into making a call interface through selecting interface icon “

19

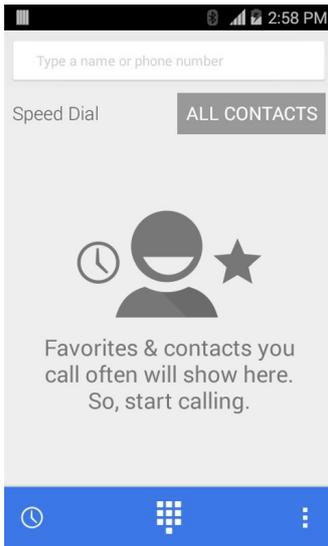


Figure 3.8.1.1

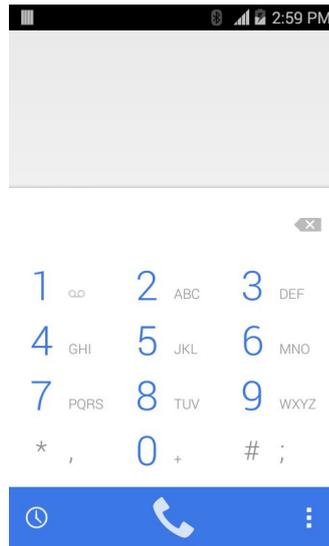


Figure 3.8.1.2

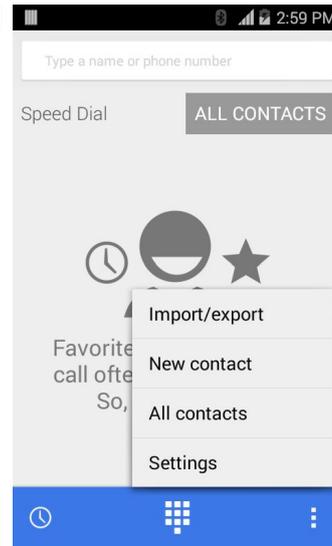


Figure 3.8.1.3

3.8.2 Send a SMS

On the standby interface, you can enter into sending a SMS interface through selecting interface icons “” > “” (as shown in Figure 3.8.2.1), enter into SMS editing interface through selecting “” option (as shown in Figure 3.8.2.2), add photos, videos and other annexes in the SMS through selecting “”, add SMS receiver in contact person through selecting “”, and send the SMS to the receiver(s) through clicking “”.

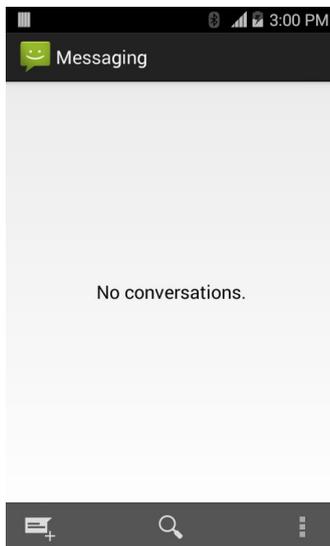


Figure 3.8.2.1

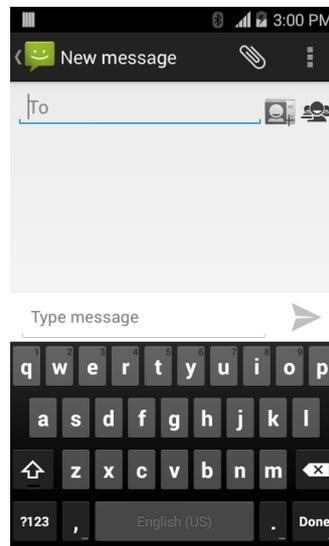


Figure 3.8.2.2

3.9 USB Interconnection

When the USB data line is connecting with the computer, if the drop-down menu displays “Connected as a media device” (as shown in Figure 3.9.2), it is shown that the connection is normal, you can change the connection mode based on your need through clicking “Connected as

a media device” on “USB computer connection” interface (as shown in Figure 3.9.2).

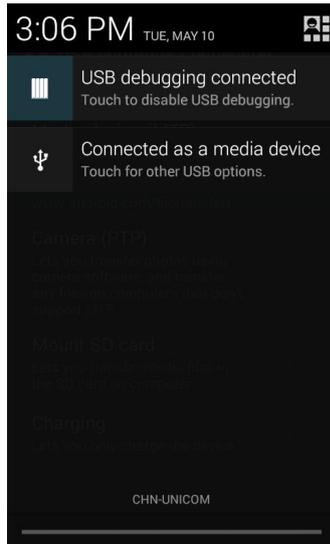


Figure 3.9.1



Figure 3.9.2

3.10 Install Driver under WINDOWS System

The systems above Win7 are equipped with MTP drive originally, which will recognize the disk automatically after connecting the computer. The XP system can support MTP mode only after it upgrades the Windows Media Player to version 10 or above, otherwise the computer is not able to recognize the removable disk.

Chapter IV Functional Application

4.1 Barcode Scanning Function

The scanner of the equipment is one the top of it, when using, you should align the scanning head to the bar code, the laser beam emitted by the scanner must completely cover the bar code, lean or incomplete coverage will result in inaccurate scanning.



Figure 4.1.1

You can scan once pressing the scanning key, the output data can display the location of the cursor. Special settings can be carried out on setting items of bar code scanning function in test program.

4.2 Psam Card Function

The Psam function of this equipment needs to install Psam card (as shown in Figure 2.2.1 – Figure 2.2.4), you can operate it through selecting PSAM card test program in test function when using (as shown in Figure 4.2.1), you can generate random number, modify the communication rate and work frequency of the SamCard through clicking resting the SamCard or inputting command.

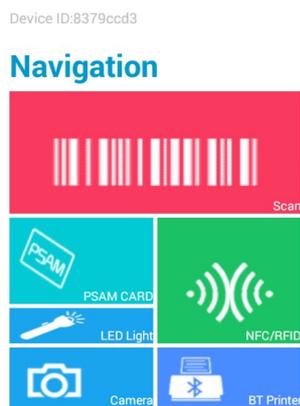


Figure 4.2.1

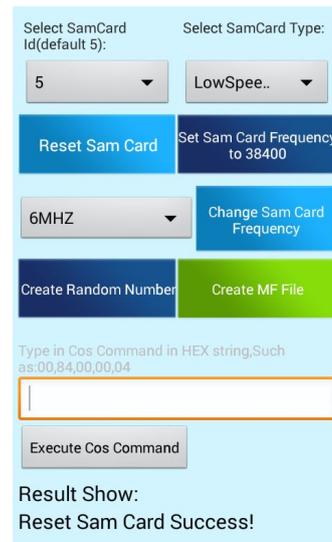


Figure 4.2.2

4.3 NFC Function

As for the NFC function of the equipment, the card swiping area is on the back of the machine and above the battery cover (as shown in Figure 4.3.1).



Figure 4.3.1

The NFC function is the standard configuration for Android system, the usage is the same with the phone, you can download NFC test program to test it at will, or operate it through NFC test program in test programs.

Chapter V Trouble Removal

5.1 Equipment and System Faults

Problems	Solutions
The terminal can't be started up	<ul style="list-style-type: none"> ● Ensure the battery is installed correctly (Please refer to 2.1). ● Replace another battery with sufficient electricity. ● Removal the battery an install it again.
The touch screen can't response	<ul style="list-style-type: none"> ● Clean the touch screen. ● Restart the equipment.
The screen can't display	<ul style="list-style-type: none"> ● Ensure whether the equipment is in standby status or not. ● Restart the equipment. ● Replace another battery with sufficient electricity.
The keyboard can't response	<ul style="list-style-type: none"> ● Ensure whether the equipment is in standby status. ● Restart the equipment. ● Replace another battery with sufficient electricity.
The TF card can't recognize	<ul style="list-style-type: none"> ● Ensure whether the TF card is inserted reversely or not. ● Ensure whether the TF card is inserted tightly or not. ● Ensure whether the TF card is damaged or not. ● Restart the equipment. ● Replace another battery with sufficient electricity.
The battery can't charge	<ul style="list-style-type: none"> ● Ensure whether the adaptor is damaged or not. ● Ensure whether the USB cable is damaged or not. ● Ensure whether the adaptor accesses the commercial power (220V) or not. ● Ensure whether the adaptor is inserted tightly or not.

5.2 Scan the Faults

Problems	Solutions
No response is given after	<ul style="list-style-type: none"> ● Check whether the scanning head is damaged or not.

the scanning key is pressed	<ul style="list-style-type: none"> ● Check whether the program is correct or not. (Please refer to DEMO for specific codes) ● Replace another battery with sufficient electricity.
No data is returned after scanning	<ul style="list-style-type: none"> ● Check whether the scanning head is damaged or not. ● Check whether the program is correct or not. (Please refer to DEMO for specific codes) ● Check whether the bar code is damaged or not. ● Check whether it is in correct scanning area and distance or not. ● Check whether the bar code is the type which the equipment is able to recognize. ● Check whether the scanning window is clean without dirt. ● Replace another battery with sufficient electricity.

5.3 Communication Faults

Problems	Solutions
The USB can't be recognized after connecting	<ul style="list-style-type: none"> ● Confirm that the USB cable is inserted correctly. ● Confirm that the USB cable is not damaged. ● Restart the equipment. ● Pull out and insert the USB connecting cable again. ● Whether the PC connecting settings are right.

Chapter VI Warranty and Maintenance Method

6.1 Warranty Scope

Any data acquisition terminal purchased from our Company, within one year after our company delivers the good, any machine damage or malfunction resulted from problem of manufacture or component quality belongs to the warranty scope confirmed by our Company. The specific warranty periods are as follows:

- Machine warranty period: one year
- Accessories warranty period: one year for communication cable;

Note: Any machine malfunction resulted from user's misuse or self dismantling and repair and other human factor, doesn't belong to warranty scope.

6.2 Warranty and Maintenance Method

If the product of the use has any malfunction to be repaired, the agent or our Company can provide the repair.

The user can dial service hotline of our Company, reflect the situation to the customer service engineer of our Company, the engineer will put forward solution and confirm whether it is necessary to send the product to our Company to repair it.

Appendix

Warranty Card

Type		No.
Customer	Unit Name:	
	Contact Name:	
	Contact Phone:	
	Contact Address:	
	Postcode:	
Warranty Time	From purchasing date on MM DD YYYY	
Maintenance Record		
Maintenance Record		
Maintenance Record		