

IPDA080

Handheld Terminal

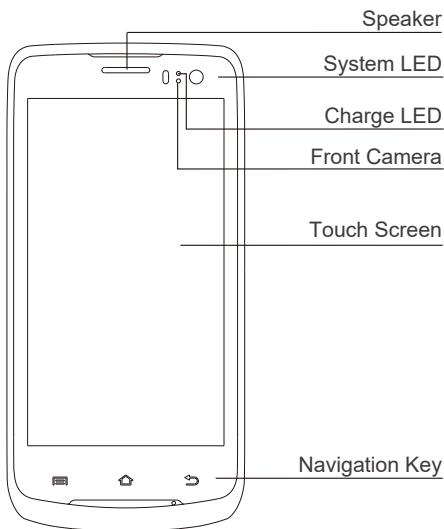


User Manual

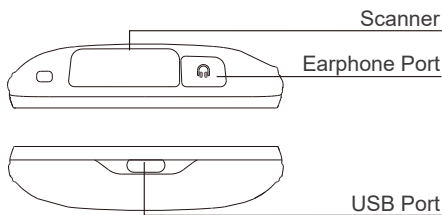
Content

Chapter 1 Device layout	01
1.1 On-off operation	03
1.2 Installing the SIM Card/TF Card	03
Chapter 2	
Battery and other important instructions	04
2.1 Battery Operation	04
2.2 Indicator	06
2.3 PC Connections	07
2.4 Precautions	09
Chapter 3 Data Acquisition	10
3.1 Scan engine	10
3.2 Scan Settings	11
3.3 Floating action button	12
3.4 Trigger mode	13
3.5 Output by keyboard	13
3.6 Output by Intent	16
3.7 Chinese code type	17
3.8 Other settings	18
3.9 Exposure	19
3.10 Bar code formatting	20
3.11 Bar code settings	25
3.12 Reset	28
Chapter 4	
FAQ	30

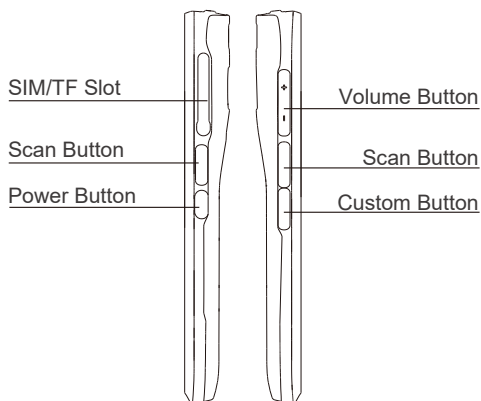
Chapter 1 Device layout



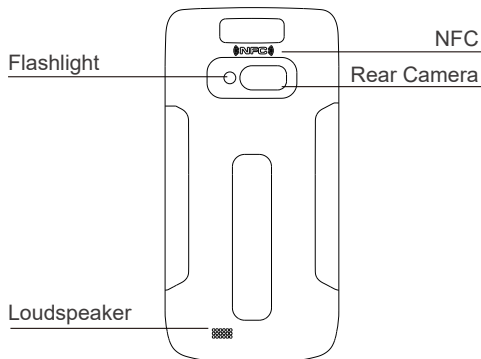
1-1



1-2



1-3



1-4

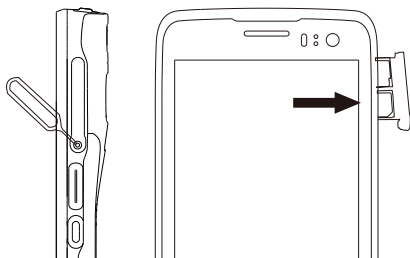
1.1 On-off operation

To turn on device: Press power button until the device switches on.

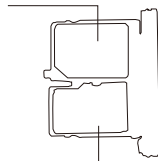
To turn off device: Press power button during operation until the device popup a menu, select “Power off”.

To turn off display: Press the power button. After a period of inactivity, the device will automatically turn off the display. That amount of time can be configured by “Setting→Display→Sleep”.

1.2 Installing the SIM Card/TF Card



SIM Card 1



TF Card Slot

Chapter 2 Battery and other important instructions

2.1 Battery Operation

The device battery is polymer type battery and immovable, which should only be charged by using original power adapter. Do not store battery in hot, humid, or corrosive environment. Do not break or crack battery. Do not store battery when it is fully charged completely drained.

Notes:

1. The battery should be charged for at least 8 hours before the first use.
2. Since the battery only retains a small amount of power when leaving the factory, it must be charged before use.
3. If the product will not be used for a long time, please charge the machine at least once every two months.
4. When charging, the LED light is steady red, and when the battery is fully charged, the LED light is steady green.

5. If the battery is exhausted, it may not turn on immediately after plugging in the charger. This is a normal phenomenon. Please continue charging for a while, and then turn it on again.











6. The battery can be recharged repeatedly, but the battery is a wearable product. If the standby time of the device is significantly reduced, please replace it with a new battery.

7. Battery charging time varies with temperature conditions and battery usage, please charge within a reasonable temperature range.

8. When the battery power is low, the device will pop up a low battery prompt.

9. When the battery power is too low, the device will automatically shut down.

2.2 Indicator

Battery		Full power
		Medium power
		Charging
		Low power
Network Signal		Good signal
		Unstable signal
	NONE	SIM card not installed
		SIM card error/no service
WiFi		WiFi on.No available wireless networks for connection
		WiFi connected
	NONE	WiFi switched off
NFC		NFC switched on

2.3 PC Connections

Connect device to PC using the USB cable provided. If additional driver is required, PC will automatically download from internet. Once the USB port has been connected, drag the notification bar from the top of the screen to display the USB setting interface.

- 1) Tap this to activate developer menu shown.(Figure2)
- 2) Tap this to activate USB preference menu shown.
(Figure1)

Figure 1

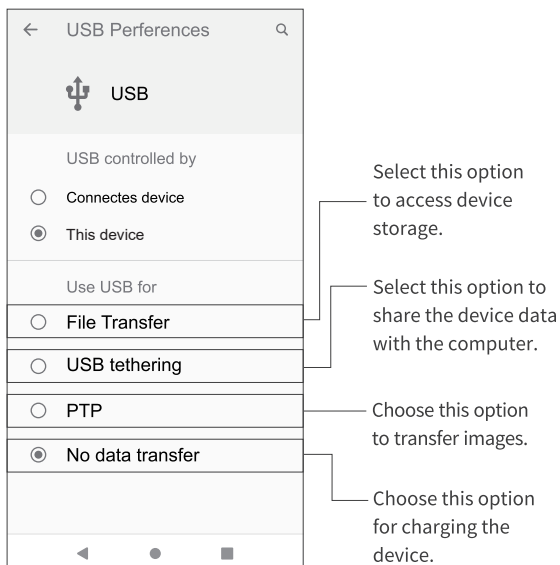
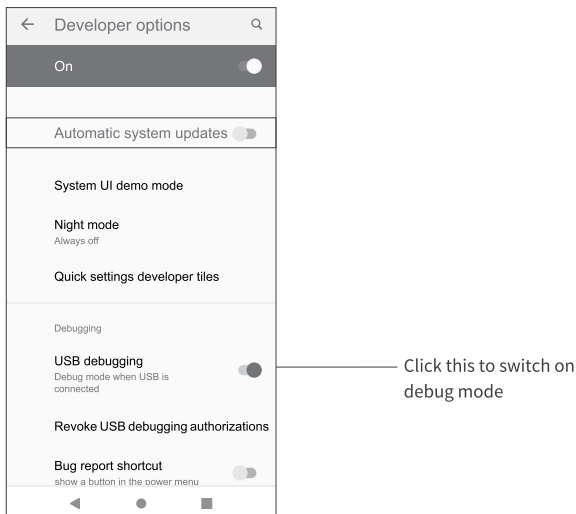


Figure 2



On Windows PC, go to "My Computer". Click on "Removable Disk" to view and transfer device data.

Note:

1. When the device as a SLAVE connect to PC, 'This device' option will be automatically selected.
2. When the device as a HOST connect to other devices, 'Connected device' will be automatically selected.

2.4 Precautions

1. Read all information in this guide before using the device to ensure safe and proper operation.
2. Please use the accessories that have been approved by this manufacture and corresponds to this model. Use of any power source, charger, battery, etc. that has not been approved by this manufacture may cause a fire, explosion, or other hazards.
3. Please use device and accessories within the specified temperature range. Equipment failure may occur when the ambient temperature is too high or too low.
4. Do not disassemble the product and its accessories. If the equipment or any of its components are not working properly.
5. The battery is made from a flammable and explosive material. Do not disassemble, squeeze, drop and make any other destructive operations on the battery. Do not place the battery in high temperatures.
6. Disposal of used batteries is subject to local relevant documents or policies regarding disposal of used batteries.

Chapter 3 Data Acquisition

3.1 Scan engine

IPDA080 device terminals support data acquisition in the following methods :

(1) Scan engine decoding.

(2) 2D scan engine can read various 1D/2D bar codes and 360° read various bar code systems, including the most prevalent linear bar code, postal code, PDF417, QR, DATAMATRIX, etc.

(3) By scanning techniques, 2D scan engine takes a photo for a bar code, saves the generated image in memory, and executes a top software decoding algorithm to extract bar code data from the image.

3.2 Scan Settings

Scanning heads may differ from each other in the settings interface. SE4710 is taken as example for illustration herein.

When using with a handle, you need to turn on the scan handle button, as shown in the figure below.

Scanner Settings

Scan Handle

Enable Scan Handle

☒

Suspension button on/off

Suspension button

☐

Phone Mode

Scan Screen

☐

Triggering Modes

Host

Clipboard

☐

Keyboard output mode

output the barcode into the focused edit box

☒

Keyboard output

Keyboard type

Always Soft keyboard

Figure 3-1 Scan Settings

3.3 Floating action button

The virtual key scanning tool--USCAN, which is available for dragging at will and touching to simulate the key scanning function;

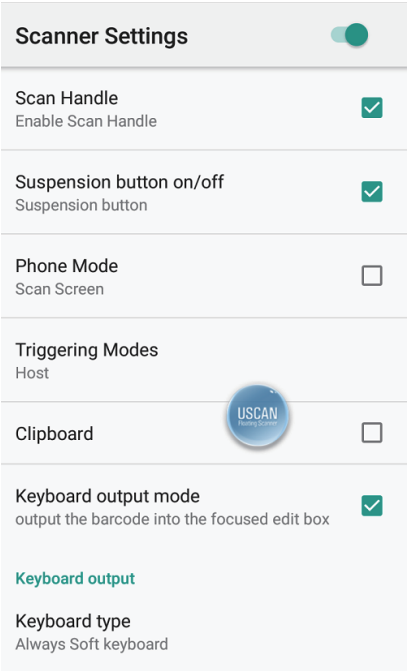


Figure 3-2 Floating Button Scanning Function

3.4 Trigger mode

- **Auto mode:** manually trigger the scanning function. Press the scanning key and laser light or supplementary light will be shown. The light will not go out until decoding is completed or scanning times out;
- **Continuous mode:** manually trigger the scanning function. In the continuous scanning mode, the scanning laser or supplementary image light will not go out after decoding. Instead, decoding will sustain;
- **Manual mode:** manually trigger the scanning function. Press the scanning key and laser light or supplementary light will be shown. Release the key and the light will go out. In addition, the scanning light will also go out after decoding;

3.5 Output by keyboard

Check this mode and the scanning results will be output to the app focus edit box in the foreground by keyboard. Cancel checking this mode and output will be done by broadcast.

Keyboard output	
Keyboard type	Physical keyboard
Sounds	Short
Vibrate	<input type="checkbox"/>
Vibrate when the scan is successful	
Action key character	Carriage return

Figure 3-3 Scanning Output by Keyboard

(1) Keyboard Type: options include Physical Keyboard, Input Method Software and Physical Keyboard Only among others. Such options may cause a difference in scanning results. Please select with caution.

(2) Physical Keyboard: If a focus input box arises in any app interface in the foreground, it will directly show all the data, otherwise the device will output scanning results character by character through keyboard simulation;

(3) Input Method Software: the device directly displays all the data in the input box through input method software simulation;

(4) Physical Keyboard Only: the device outputs scanning data through physical key event simulation at any interface.

(5) Input Method Only: output through any non-Android input box, e.g., webpage or search box.

(6) Notification Tone: set the system's notification tone for scanning, which may be None, Instant (default) or Squeak.

(7) Vibrate: check to enable the function of vibrating after scanning.

(8) Operational Key Character: None, Carriage return, Line feed or Tab. Add operational key characters behind scanning results through keyboard simulation.

(9) None: no operation.

(10) Carriage return: add an enter behind scanning results through keyboard simulation.

(11) Line feed: add an OK operation behind scanning results through keyboard simulation.

(12) Tab: add a Tab key operation behind scanning results through keyboard simulation.

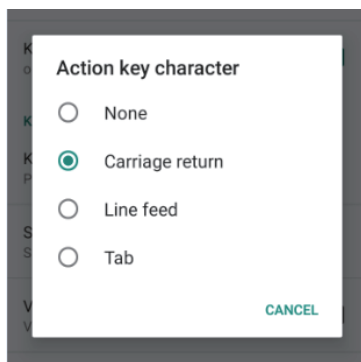


Figure 3-4 Operational Key Character

3.6 Output by Intent

Cancel checking output by keyboard and output will be done by Intent.


Intent Output	
Intent action	android.intent.ACTION_DECODE_DATA
Intent string extra	barcode_string
Sounds	Sharp 
Vibrate	Vibrate when the scan is successful <input type="checkbox"/>

Figure 3-5 Output by Intent

Set broadcasting via a corresponding app to receive tag and motion data of the designated broadcast. If the scanned data matches the app's broadcast tag and motion (tag and motion are editable), the data will be directly received by the Broadcast Receiver. Any intent transfer value may be separately output or handled in the background.

3.7 Chinese code type

The Chinese code type is UTF-8 by default. This option needs to correspond to the Chinese code type of 2D codes. Any mismatch between the two may lead to code garbling. Please use this function carefully.

Coding format

- ☒ UTF-8
- ☐ GBK
- ☐ BIG5
- ☐ SHIFT-JIS
- ☐ ISO-8859-15
- ☐ US-ASCII
- ☐ UTF-16
- ☐ UTF-16BE
- ☐ UTF-16LE

CANCEL

Figure 3-6 Chinese Code Type

3.8 Other settings

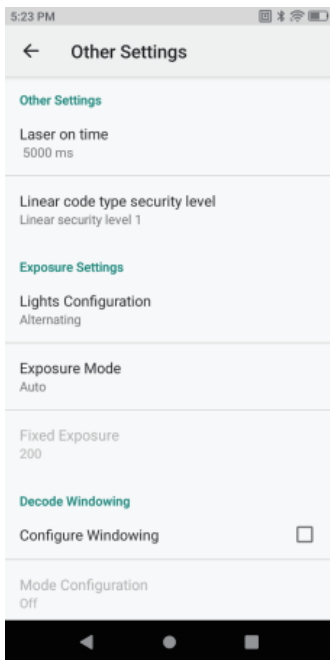


Figure 3-7
Other Settings for Scanning Head

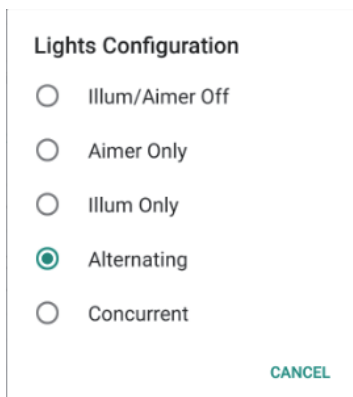
(1) Laser Duration - laser duration for failing in single scanning, range of 500-9900 ms, 5000 ms by default;

(2) Multiple Check - set the check level to lower the error rate. The higher the level is, the more accurate it will be but the slower decoding per time will be;

3.9 Exposure

Fill light configuration

Different scanning heads vary from each other in the settings. SE4710 scan engine is taken as example for illustration.



Lights Configuration

☐ Illum/Aimer Off

☐ Aimer Only

☐ Illum Only

☒ Alternating

☐ Concurrent

CANCEL

Figure 3-8 Fill Light Settings

(1) Lights Configuration

- **Off:** turn off fill light;
- **Aim Light Only:** turn on aim light only;
- **Floodlight Only:** turn on floodlight only;
- **Alternate:** turn on floodlight and aim light in alternation;
- **Simultaneous:** turn on floodlight and aim light at the same time;

(2) Exposure Mode: auto/on. In the auto mode, the scanning head may automatically regulate the exposure value; in the on mode, the exposure value can be set;

(3) Exposure Value: 1~600. The higher the value is, the brighter it will be;

3.10 Bar code formatting

Upon access of bar codes, the system may be available for additional functions: Formatting, Prefix, Suffix, Substitute.

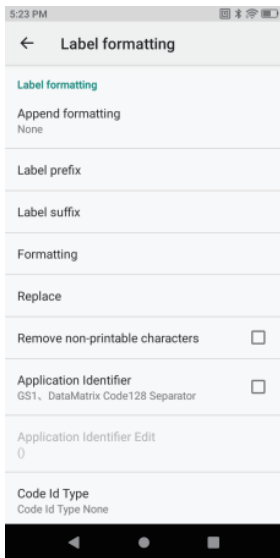


Figure 3-9 Bar Code Formatting Settings

(1) Open Bar Code Formatting and select the additional formatting type;

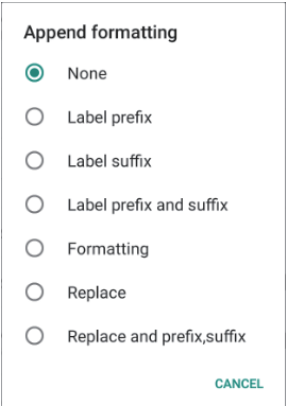


Figure 3-10 Formatting Type Settings

(2) **Suffix:** select the mode and modify the suffix content, e.g., select [CR] which indicates enter;

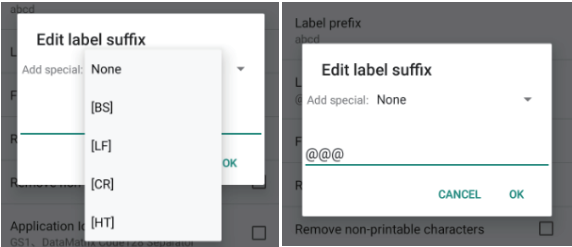


Figure 3-11 Edit Suffix

(3) Prefix: select the mode and modify the prefix content, e.g., select [CR] which indicates enter;

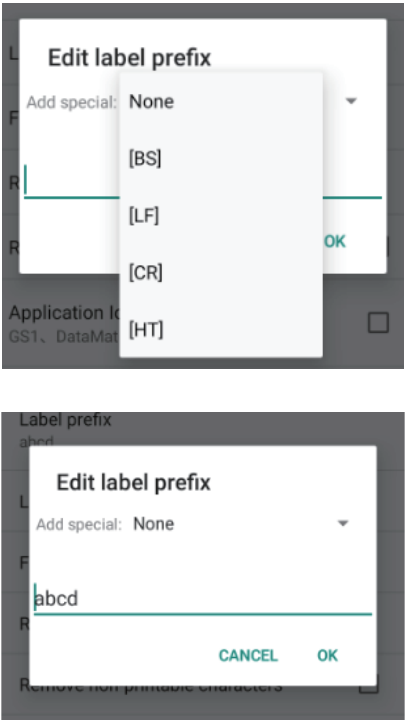


Figure 3-12 Edit Prefix

(4) Select the default type from the drop-down list box or define any character as the prefix/suffix;

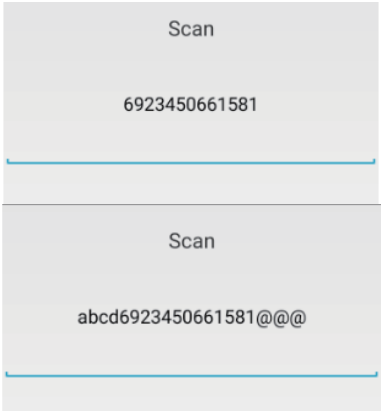


Figure 3-13 Test Prefix/Suffix

(5) **Formatting:** select the mode and modify the content, e.g., select [CR] which indicates enter;

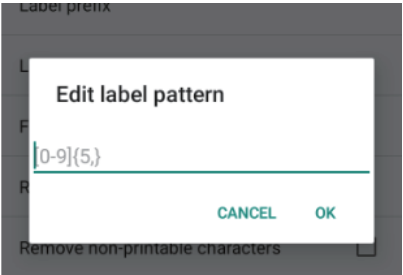


Figure 3-14 Edit Formatting

E.g.: Extract a longer section of bar code data.

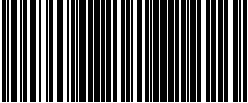
 1 2 3 4 5 6 7 @ 1 2 3 4 5	Append formatting Replace
<div>Scan</div> <div>1234567</div>	Label prefix abcd
	Label suffix @@@
<div>Scan</div> <div>@234567@@2345</div>	Formatting [0-9]{7,}
	Replace 31 > @

Figure 3-15 Example Result

Bar code formatting is required of input by regular expression, `\d{7,}` or `[0-9]{7,}`. Figure ≥ 7 rather than < 7

(6) Substitute: select the mode and modify the former character to be substituted and the substitute character and set the value of the substituted and that of substitute. The former character needs to be input in ASCII code (e.g., if the former character "1" needs to be substituted, enter its corresponding ASCII code value "31");

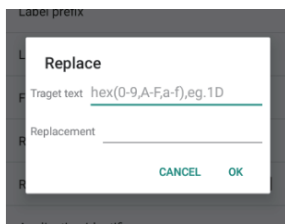


Figure 3-16 Edit Substitute

3.11 Bar code settings

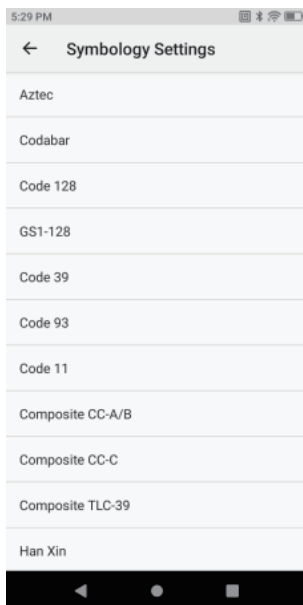


Figure 3-17 Bar Code Settings

(1) Modify code system type parameters in the list, e.g., bar code length, check bit or transfer character

Code 128	
Enable	<input checked="" type="checkbox"/>
L1 length 2	
L2 length 40	
ISBT 128	<input checked="" type="checkbox"/>

UPC-A	
Enable	<input checked="" type="checkbox"/>
Send checksum	<input checked="" type="checkbox"/>
Send system digit	<input checked="" type="checkbox"/>
Convert to EAN-13	<input type="checkbox"/>

Figure 3-18 Code128 &UPC-A Settings

- (2) **Enable:** enable
- (3) **L1 length:** minimum length
- (4) **L2 length:** maximum length
- (5) **ISBT128:** book code
- (6) **Send checksum:** check bit in transfer
- (7) **Send system digit:** numeric character in transfer

Interleaved 2 of 5

Enable



L1 length

2

L2 length

50

Enable checksum



Send checksum



Convert to EAN-13



Figure 3-19 ITF Settings

(8) Convert to EAN-13: transfer to EAN-13 code

Note: If parameters needed are not found in the settings, please contact the manufacturer's technical staff for modification.

3.12 Reset

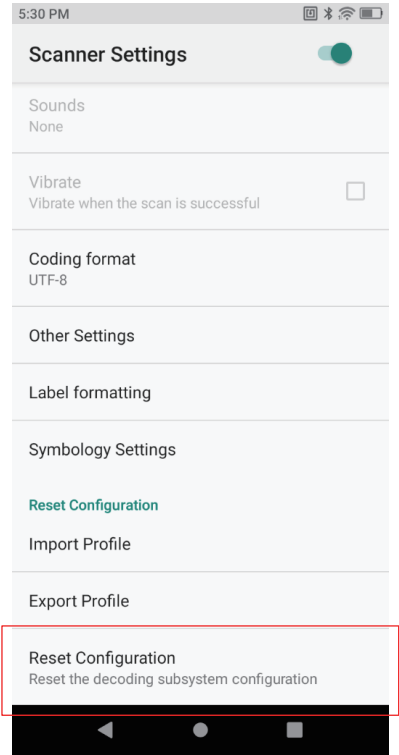


Figure 3-20 Reset

Import Configuration File - import all settings in the scanner_property.xml file saved in the /sdcard root directory;

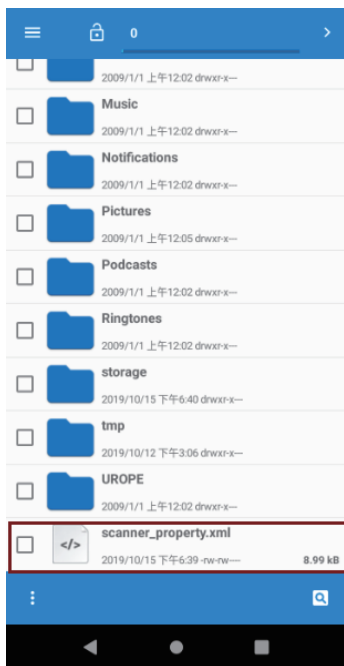


Figure 3-21 Scanner_property.xml File

Notes:

(1) Export Configuration File: export and save all set values in the current status in the scanner_property.xml file saved in the /sdcard root directory by default.

(2) Restore Scan Engine: if the scan engine needs to be reset, click this function option and reset and restore the scan engine. This function applies in spite of any unreadable or code garbling situation in scanning.

Chapter 4 FAQ

1.How to restore factory settings?

Select “Setting” → “Backup&reset” → “Factory date reset”.

2.Why can not power up the PDA?

(1)It needs about 4s to press and hold the power button to turnon, so please hold the power button until the screen showing contents.

(2)Please check if the battery are in low power, and charge the PDA for 30mins, then restart it.

3.When use scanner, there is no data but scan-light on, Why?

(1) Go to “scanner”app --- setting, and adjust the ‘output mode’.

(2) Reset the “scanner” app for twice, and switch on ‘Open scan’.

4.The device cannot scan the code.

(1) Check if each scan button can be used normally.

(2) Check if the scan engine supports the bar code.

(3) Check if the scanning lens and bar code is clear and unobstructed.

(4) Check the scan setting and reset .

5.The device cannot be charged.

(1) Check the device adapter and charging port are good.

(2) If the device is not used for a long time, please keep it charged for 30 minutes. Then check the device lights on or not.

6.How to use the battery correctly?

The battery is a polymer battery. If it is about to run out of power, please charge it immediately. Do not keep it in a fully charged or dead state for a long time. The best way is to keep the battery at 50% power.

Note: If the FAQs still not help, please contact us by email or whatsapp for further solution.

