MUNBYN IPDA088 Android Barcode Scanner User Guide

MUNBYN

IPDA088 Android Scanner
Easy Setup Guide
1.00

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IPDA088 Android Barcode Scanner

Version History

Date	By	Changes	Version
2022-8-1	Williams	Initial Version	1
2022-12-6	White	Update SIM&TF card , what's in box part	2

Product Overview

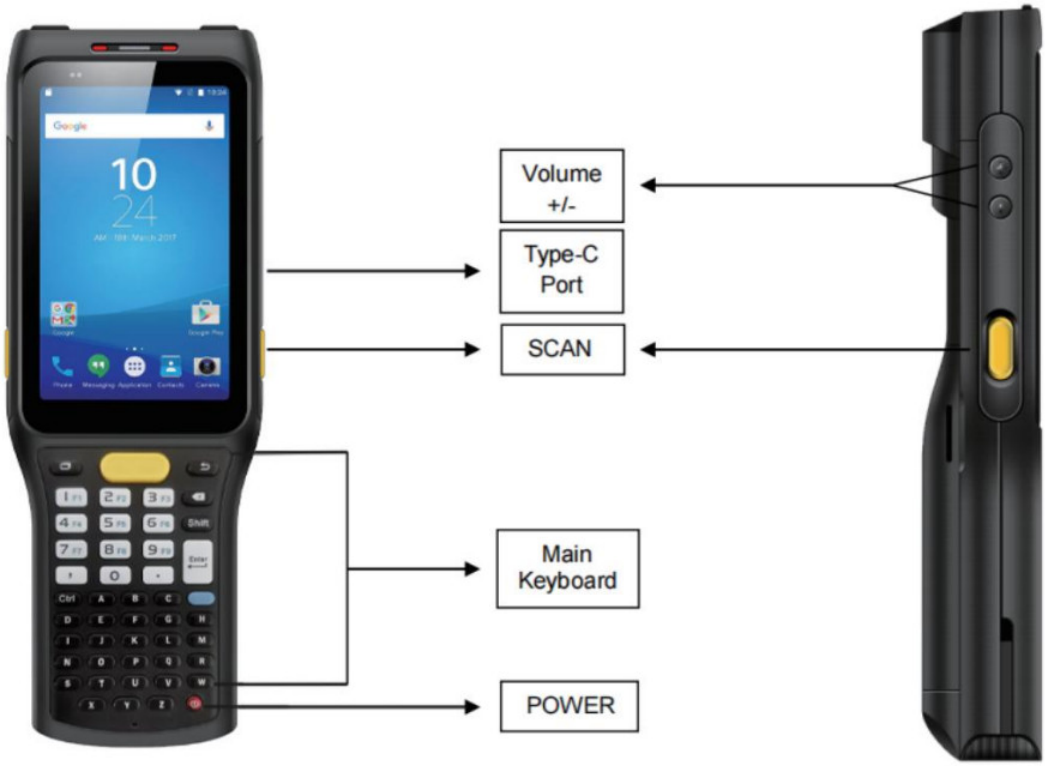

Figure 1- 1 Product overview

	Key	Function
1	Power Key	Located on the left side, press to ON/OFF device.
2	Function Key	Located on the left side, its function can be defined by softw are.
3	SCAN Key	The scanning button is located on both sides.
4	Main Keyboard	Keyboard buttons.

Packing Open and Installation

2.1. What's in the box?

When you receive the package, open and check the packing list in the package.

Table 2-1 Packing list

No.	Name
1	Handheld Terminal Device
2	Tempered Film Set (Including tempered film, screen wiper, dust-proof sticker)
3	Silicone Sleeve
4	USB Cable
5	Plug
6	Handle wrist strap
7	User Manual

2.2. Install the SIM or Micro SD

- Place the SIM card or Micro SD Card into the tray as shown. The take card pin is in the package.
- Please notice that the covers of tray cannot be open, please insert the card into slot gently.
- Before insert the TF card please open the lock flap (where the red arrow points)

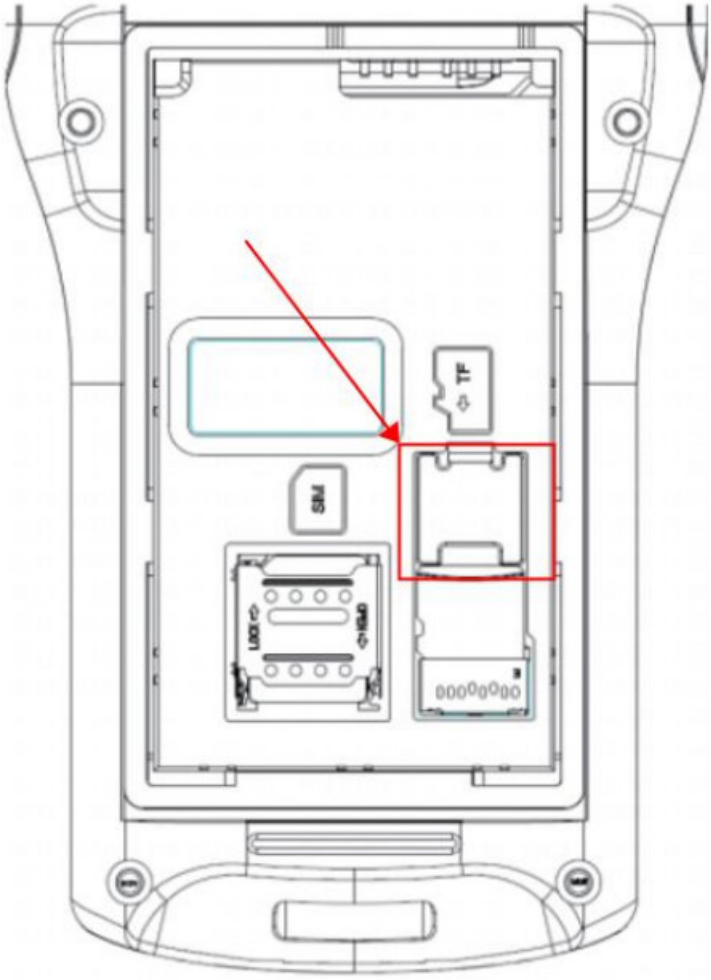

Figure 2- 1 SIM card slot

2.3. Using Battery

The IPDA088 uses a split removable battery, after receiving it please remove the battery and tear off the insulating sticker on the battery, then turn it on and use it, if you can't turn it on, please use the original power cable in the package to charge it for 30 minutes and then use it normally.

- Do not leave the battery unused for a long time, no matter if it is in the device or inventory.
- After inserting the batteries, close the cover and fasten the tabs.
- The lifespan of a Li-ion battery is around 2 to 3 years, the battery capacity will be lower after circularly charged about 300 times. (One full battery charge period means completely charged and completely discharged.)
- If a battery is stored or otherwise unused for an extended period, be sure to follow the storage instructions in this document.
- If the IPDA088 fails to power up or charge, the battery is usually faulty, please contact our team of professional technical engineers we will provide you with a replacement battery for testing and use. (Refer to section 5.0)
- Store the battery at temperatures between 5 °C and 20 °C (41°F and 68°F).

TIP: Please slide the latch tightly after inserting the battery, if the latch is not tightened, the PDA will not turn on. While charging, the device and the charger may become hot and stop charging. This usually does not affect the device's lifespan or performance and is in the device's normal range of operation. For more solutions to battery woes, refer to Troubleshooting.

2.4. Charging the Device

- The charger type is GME10D-050200FGu, output voltage/current is 5V DC/2A. The plug is considered as a disconnect device of the adapter.
- Connect the device to the cable. The device turns on and starts charging. The charge/notification LED is blue when charging and changes to a steady green when fully charged.

TIP: The standard battery charges from fully depleted to 90% in approximately seven hours and from fully depleted to 100% in approximately three hours. In many cases, 90% provides a significant charge for everyday use. Depending on usage, a 100% charge lasts approximately 14 hours.

2.4.1. Battery Usage Tips:

- Do not use the battery in direct sunlight or in smoky and dusty environments
- Do not strike, squeeze or step on the battery, nor throw it into liquid or fire
- If the battery is deformed or damaged, replace immediately
- Any product warranty is only valid if batteries supplied by MUNBYN
- Charging time should not exceed 24 hours. Over-charging or over-discharging may damage the battery
- If the product is not being used for an extended period, whether in storage or otherwise, make sure to recharge the battery at least every 6 months
- After installing the battery, please lock the cover which above the battery cover.

2.5. Scanning

To read barcodes, a scanning-enabled application is required. The device contains the Keyboardemulator application. The function of the app is to allow the user to enable the scan processor, decode the barcode data and display the barcode content, outputting the barcode to the corresponding open app.

- Ensure that an application is open on the IPDA088 and that a text field is in the cursor
- Place the top scanning head squarely on the barcode and press the scan button

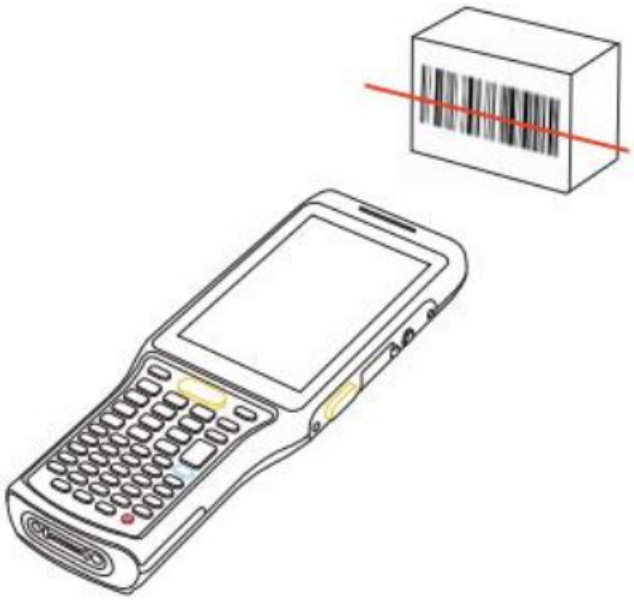

Figure 2- 2 The red LED red aiming dot turns on to assist in aiming

2.6. Screenshot

Capture an image of your screen. Your device will automatically create a Screenshots album in the Photos app.

- Operation path: Scroll down the status bar > select the Screenshot function (if not on the first page swipe right to go to the second page) > tap Screenshot

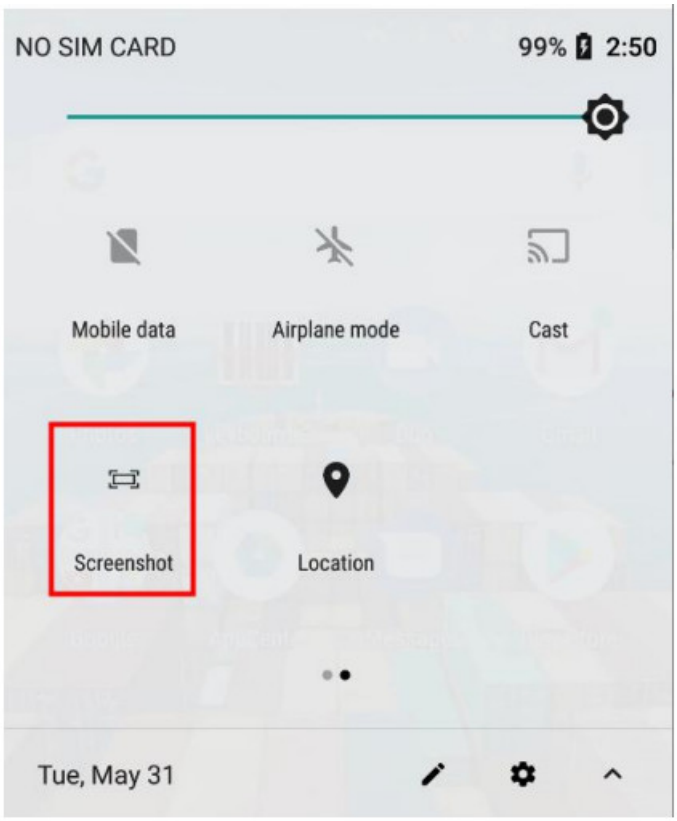

Figure 2- 3 Status bar

2.7. Download (User Manual & SDK)
You can download this manual and the SDK for our models with the links below:

- User Manual & SDK: **http://u.pc.cd/T3w7**

Operation

3.1. Barcode Scan Data capture
This section provides information on using the various scanning options and scanning barcode data.

KeyboardEmulator app is an internal software application to test barcode-scanning.
Meanwhile, it can be used in some basic business scenarios depending on the customer's choice. Please review this chapter for more information and details.
Please ensure that it is switched on before use.

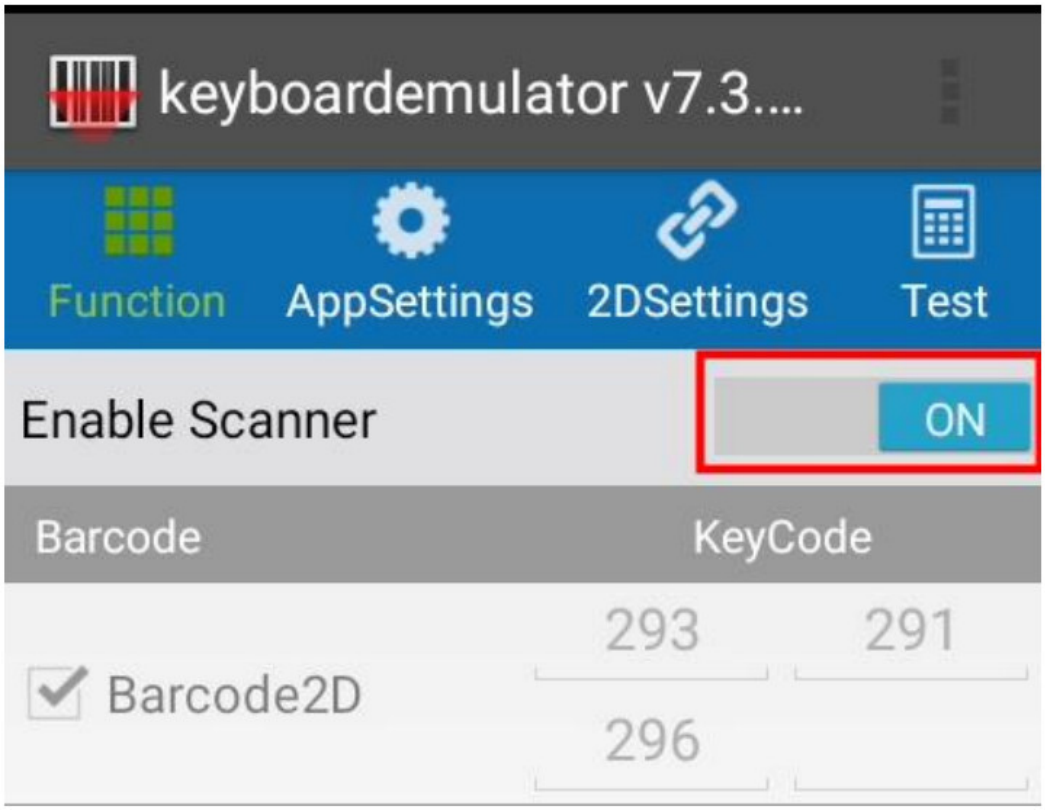

Figure 3- 1 Turning on the scan switch

When Enable Scanner is turning off, the following functions are can be setup:

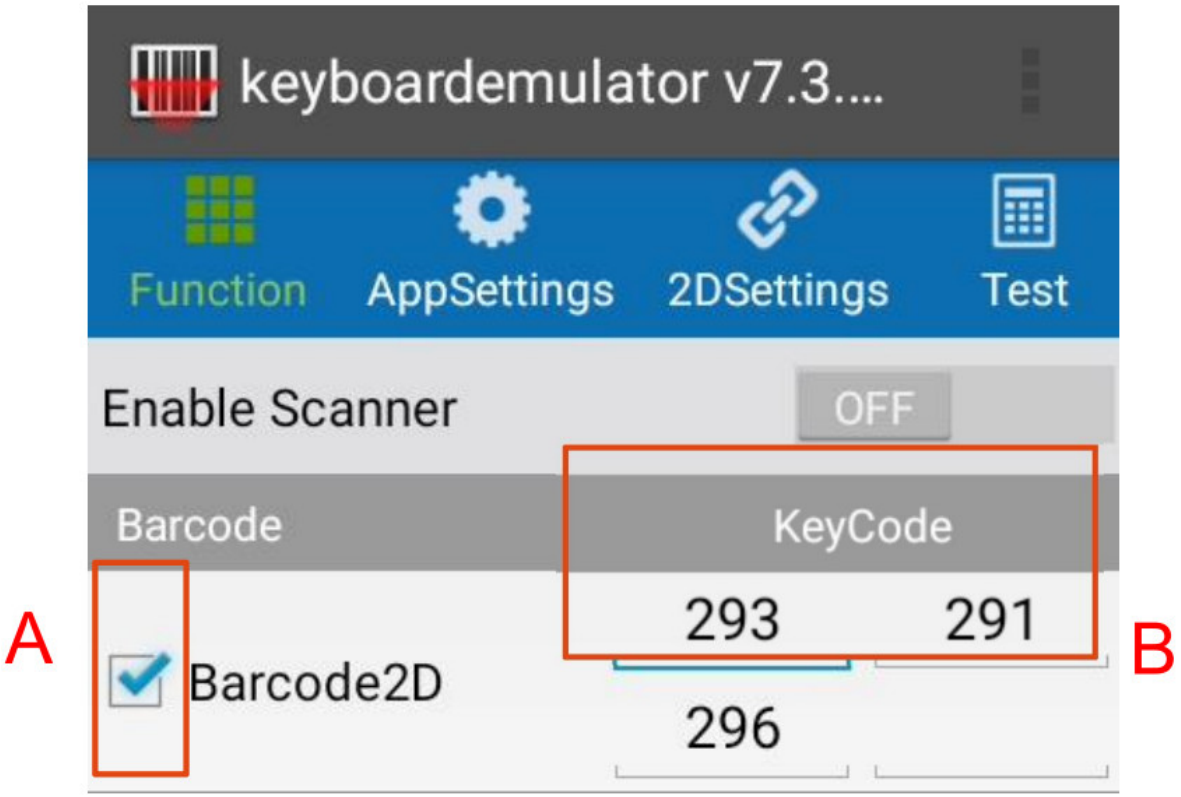

Figure 3- 2 Setting key values

A:This field represents your scan head model, tick 2D if 2D, 1D if 1D and H for the ultra far custom model (not required to be selected)

B:This area indicates your key setting, the default key value for the scan left button is 293, the default key value for the scan left button is 291 and the key value for the scan gun button is 296

TIP: In use, when no light comes from pressing the button of the scanner gun, please add the 296 key value to the Keyboardemulator Function.
Scanning out of light solution video: **http://u.pc.cd/U1V**

Note:The 2D scan head can scan barcodes and QR codes, the 1D can scan barcodes, this is related to the configuration you have purchased and not to the app settings.

If you are unable to use the scan gun keys after receipt, please follow the below steps:
a. -Select the Barcode type that corresponds to your device.
b. -Tap the input box, then press Scan Key/Pistol, the key-code will appear automatically.
c. -Turning on the Enable Scanner.
After finishing the above steps, then you can use Scan Key/Pistol to triggerbarcode-scanning.

3.1.1. Scan App Settings

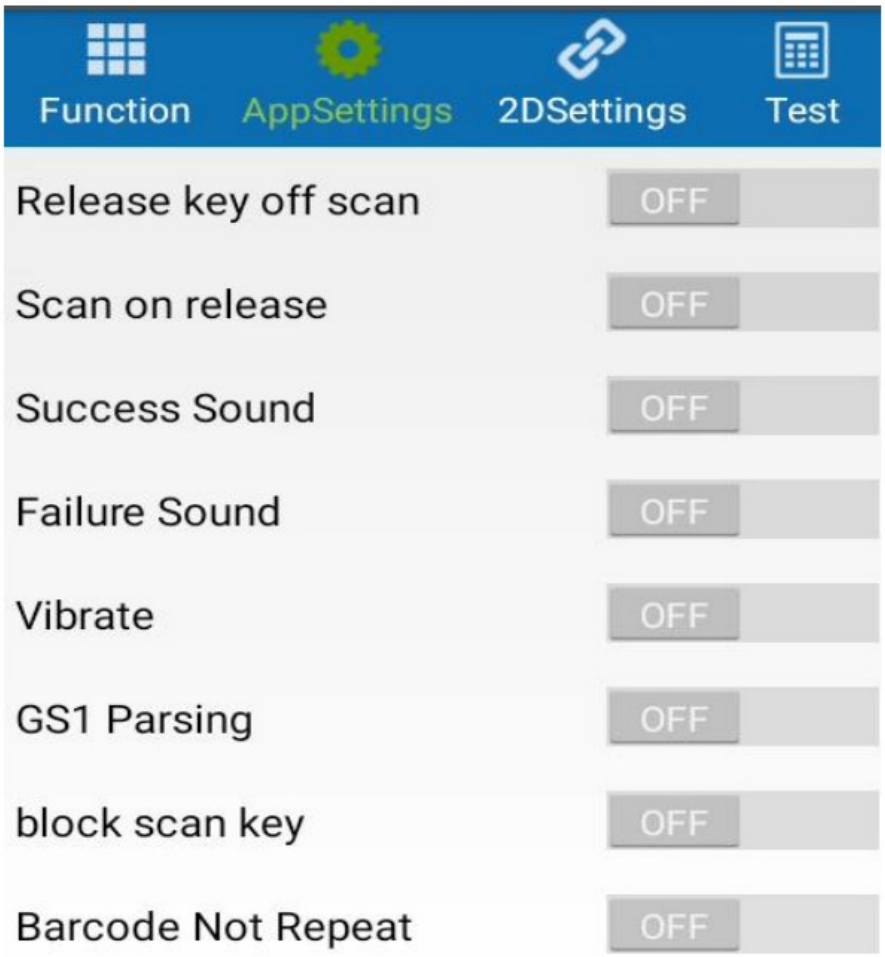

Figure 3- 3 KeyboardEmulator AppSettings

- Release key off scan – if you release the scan key, then scanning would stop.
- Success Sound – if scanned successfully, there will be sound as a reminder.
- Failure Sound – if failed to scan, there will be sound as a reminder.
- Vibrate – if scanned successfully, there will be vibration as a reminder.
- GS1 Parsing- identify Globe Standard 1 barcode system
- Remove group separator – it will remove the group separator from barcodes.
- block scan key – this is to block scan key-value, can leave it if it's not necessary.
- Scan Auxiliary Light – open the pistol auxiliary light.

- Barcode Not Repeat – on this mode, repeated barcodes will not show when scanning.

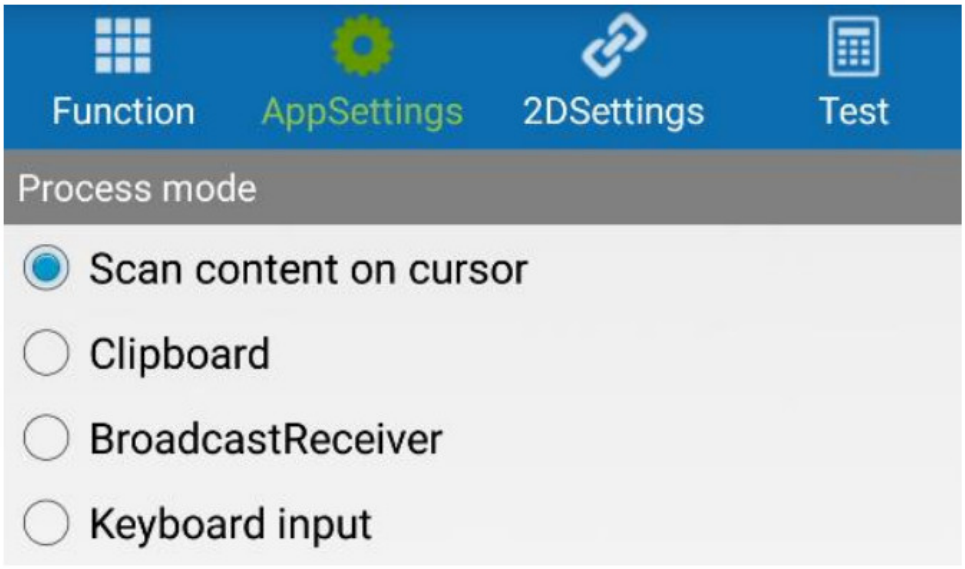

Figure 3- 4 Scanning output mode

- Scan content on cursor – the data will show up in the place with cursor simultaneously.
- Clipboard – read-out data will be saved in the clipboard, and can be pasted directly to anywhere with the cursor.
- Broadcast Receiver – it is the method that uses the broadcast mechanism of Android to transfer data to the customer's program.
- Keyboard input – the data will show up together in the input box with the cursor.

TIP: If you encounter a situation where the barcode is not output in the app, please select the keyboard output mode as a priority, which will solve the problem.

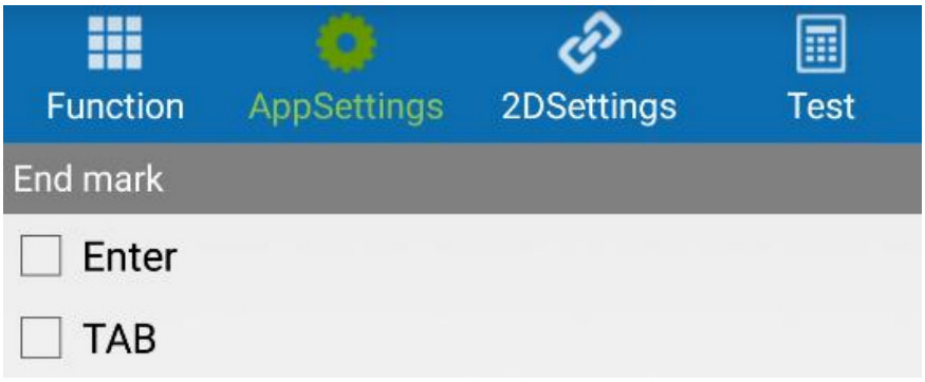

Figure 3- 5 Scan default suffix

- Enter – Tick this checkbox, the output will be word-wrapping automatically.
- TAB – The read-out data will be added with the tab character "\t" suffix. when data is acquired in Excel, the cursor will move to the next cell automatically.

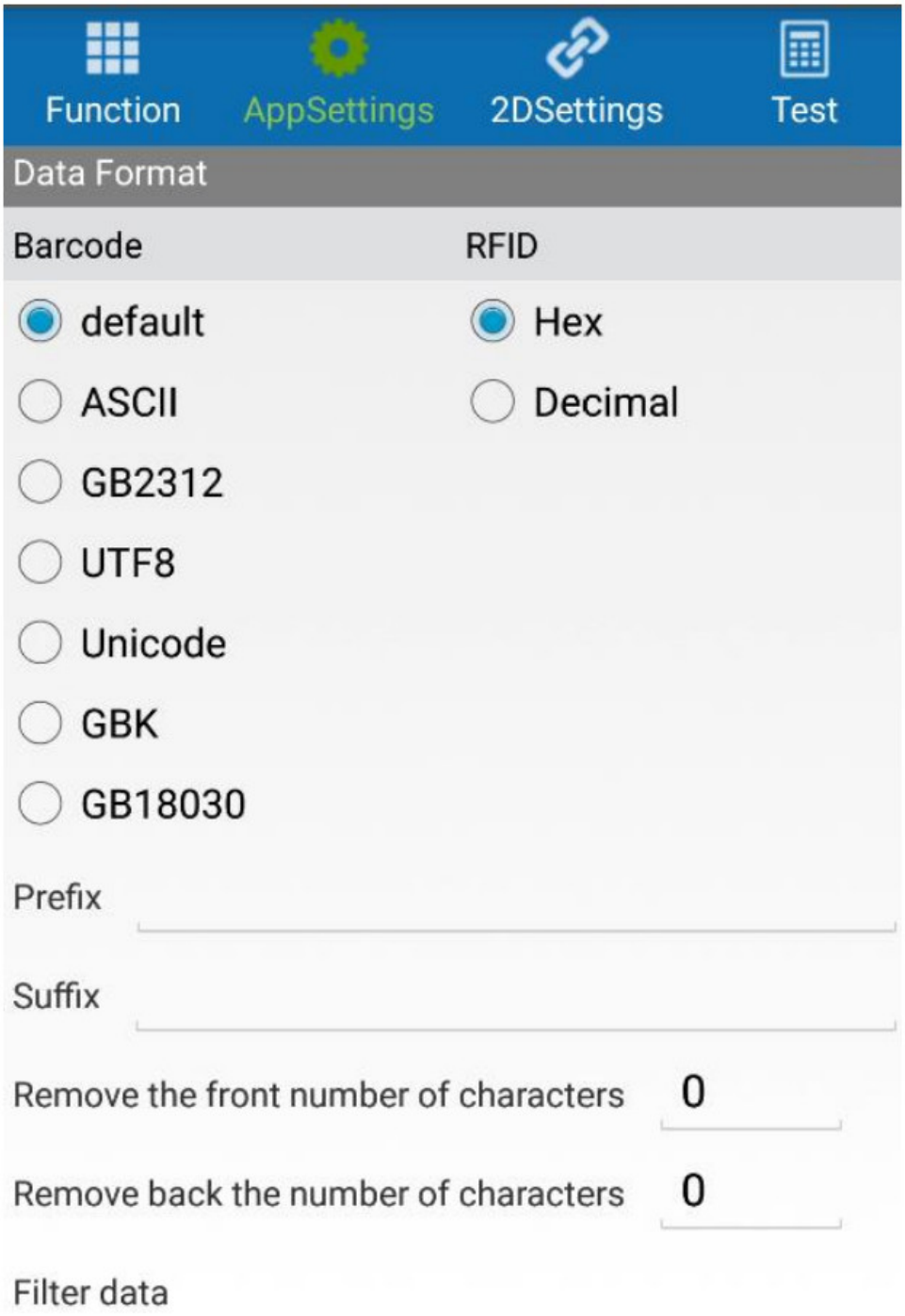

Figure 3- 6 Scan data format settings

- Prefix: The prefixing numbers or letters will be added to the front of the output.
  e.g.: If you input ‘ABC’, and the original barcode is ‘12345’, then the final output will be as ‘ABC12345’.
- Suffix: The suffixing numbers or letters will be added to the front of the output.
  e.g.: If you input ‘ABC’, and the original barcode is ‘12345’, then the final output will be as ‘12345ABC’.
- Remove the front number of characters: Input the number of characters you want to remove from the front.
- Remove the back number of characters: Input the number of characters you want to remove from the back.
- Filter data: It will be filtered out the data you input.

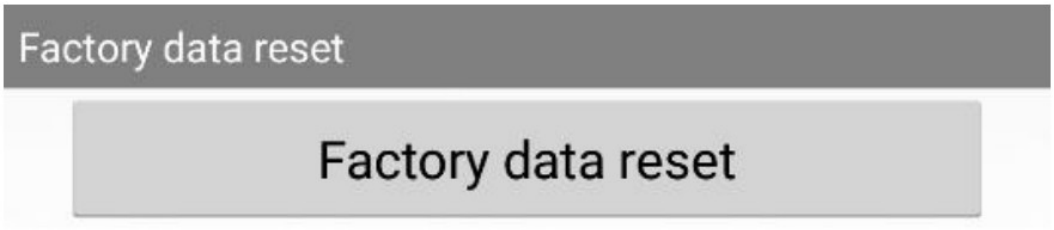

Figure 3- 7 Factory scan settings

⚠ By clicking ‘Factory Data Reset’, the KeyboardEmulator app will reset to the original status.

Note: If the IPDA088 does not produce light when the scan button is pressed or if other scan data is scanned after the setting, you can click on Factory data reset

3.1.2. Barcode Settings

We’ve integrated some common Barcode settings in this section. Under this section, you will find ‘Base setting’ and some common barcodes of 1D and 2D. Some Settings need to be turned on manually.

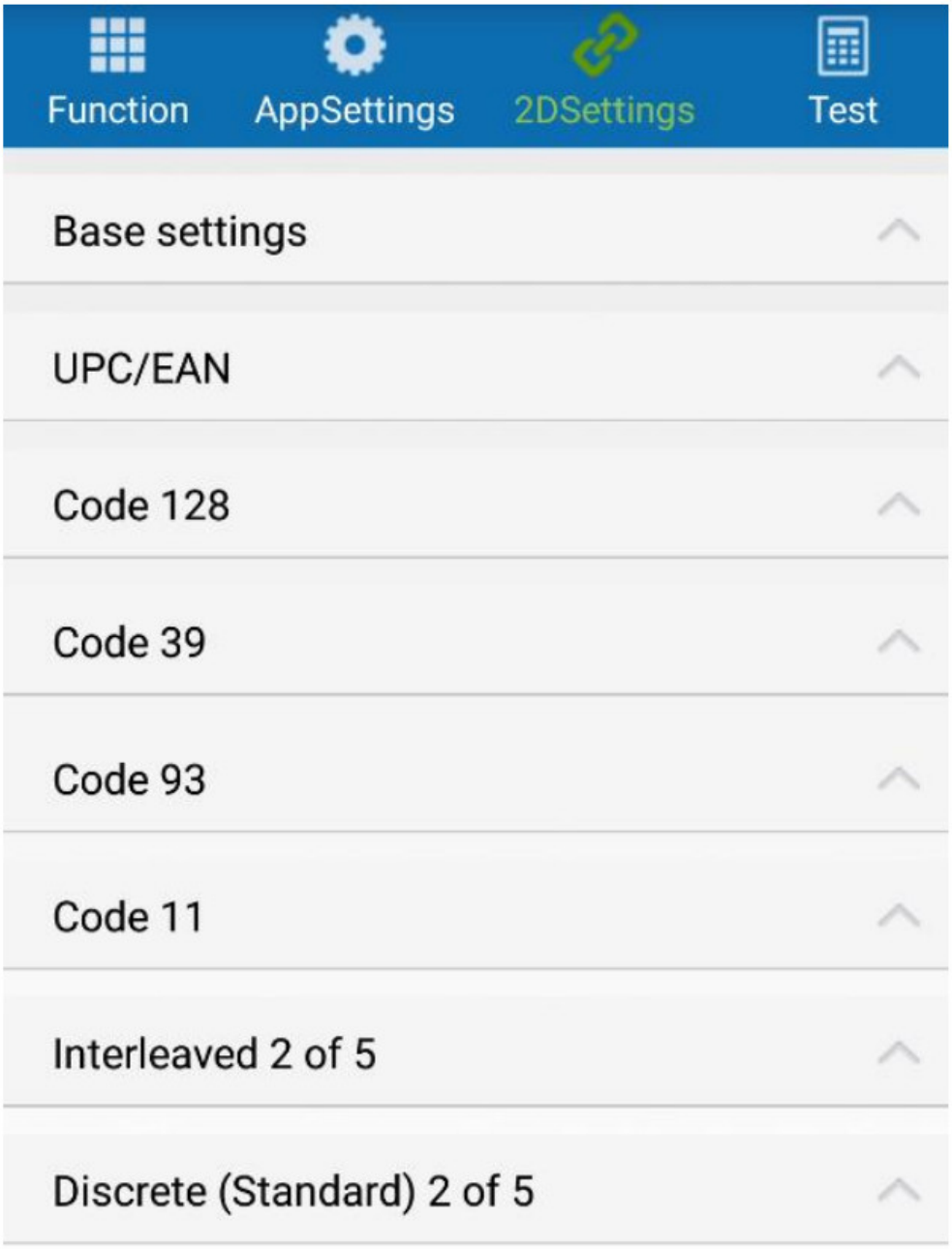

Figure 3- 8 Barcode setup

3.2. Network & Connec

This section provides manage connections between your device and a variety of networks and other devices.

3.2.1. Wi-Fi

You can connect your device to a Wi-Fi network to access the Internet without using your mobile data.

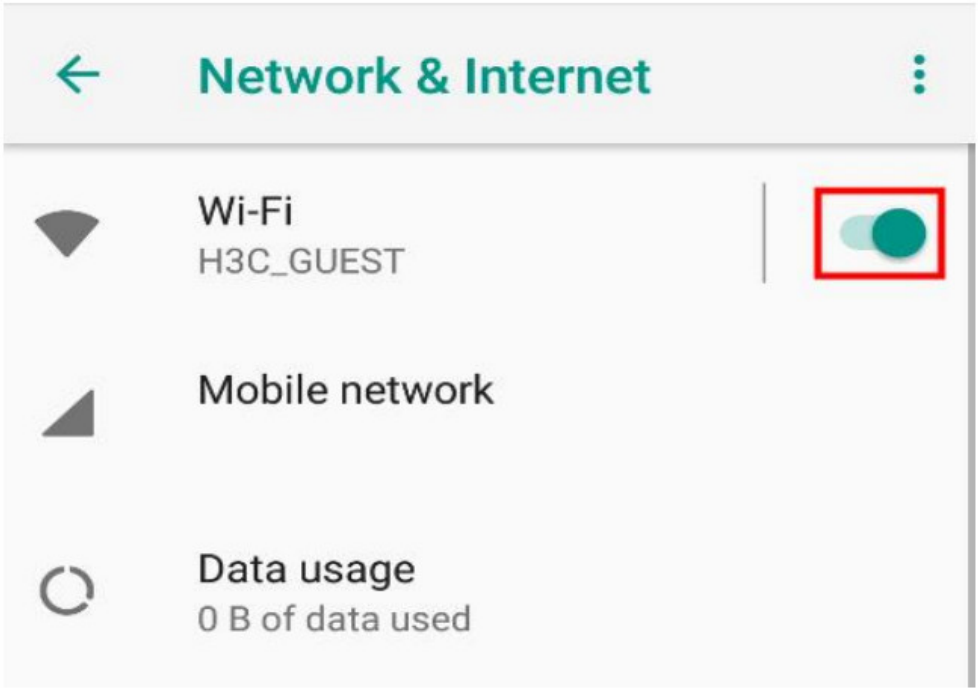

Figure 3- 9 Turn on Wi-Fi

1. From Settings, tap Network & Internet –> Wi-Fi, and then tap to turn on Wi-Fi and scan for available networks.
2. Tap a network, and enter a password if required.
3. Tap Connect.

Connect to a Hidden Wi-Fi Network

If the Wi-Fi network you want is not listed after a scan, you can still connect to it by entering the information manually. Ask the Wi-Fi network administrator for the name and password before you begin.

1. From Settings, tap Network & Internet –> Wi-Fi, and then tap to turn on Wi-Fi and scan for available networks.
2. Tap Add network at the bottom of the list.
3. Enter information about the Wi-Fi network:
   • Network name: Type the exact name of the network.
   • Security: Select a security option from the list, and enter the password if required.
   • View more: Define other advanced options, such as IP and Proxy settings.
4. Tap Save.

3.2.2. Mobile Networks

Use Mobile networks to configure your device's ability to connect to mobile networks and use mobile data. Insert a SIM c ard before using it, Options may vary by carrier.

1. From Settings, tap Network & Internet –> Mobile networks.
   • Data roaming: Enable data roaming usage.
   • Preferred networks: Select the priority of SIM cards or network type.
   • Preferred network type: Choose preferred Network type.
   • Access Point Names: Choose or add APNs, which have the network settings your device needs to connect to

your provider.

• Network operators: Choose available and preferred networks.

3.2.3. Bluetooth

You can pair your device to other Bluetooth-enabled devices. Once a pairing is created, the devices remember each other and can exchange information without having to enter the passkey again.

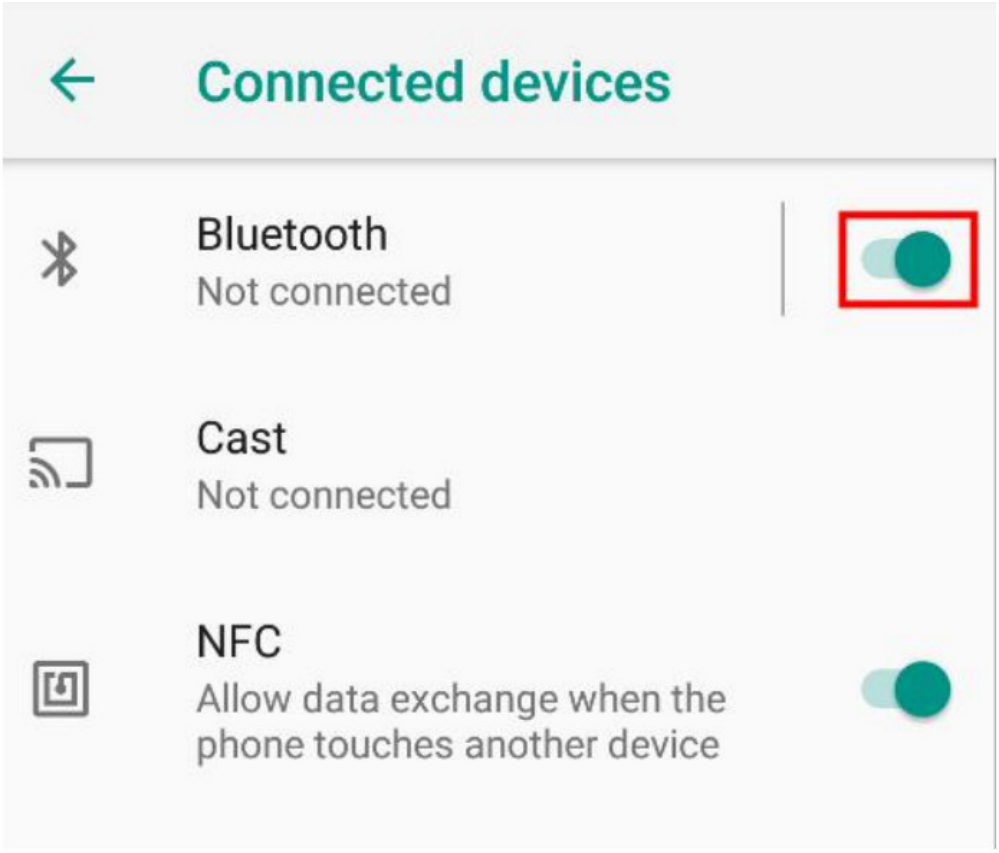

Figure 3- 10 Turn on Bluetooth

1. From Settings, tap Connected device –> Bluetooth, and then tap to turn on Bluetooth.
2. Tap a device and follow the prompts to connect.

Rename a paired device

You can rename a paired device to make it easier to recognize.

1. From Settings, tap Connected device –> Bluetooth, and then tap to turn on Bluetooth.
2. Tap Device name to enter a new name, and then tap RENAME.

3.3. Reset Options

Reset network settings and app preferences. You can also reset your device to its factory defaults.

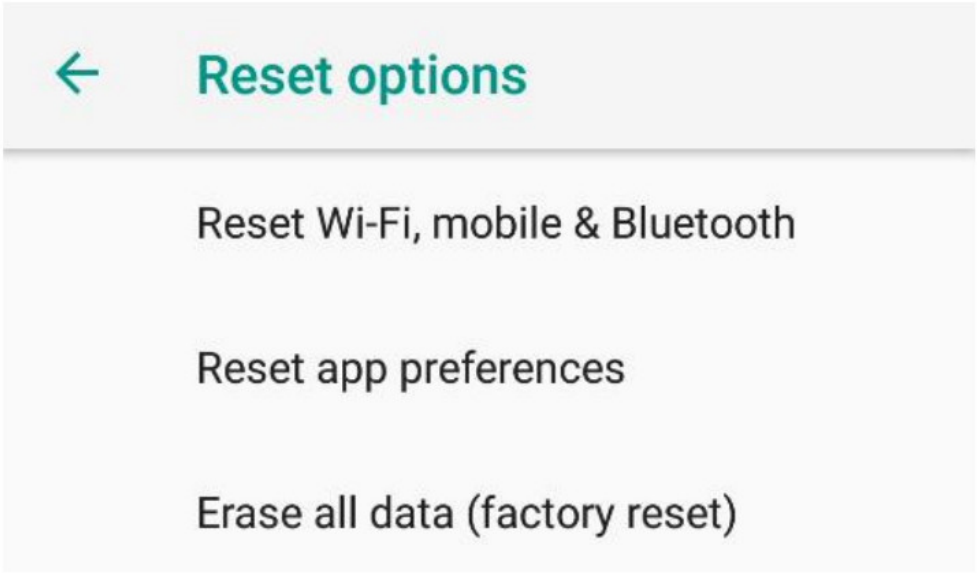

Figure 3- 11 Reset Options

1. From Settings, tap System –> Reset options. The following options are available:
   • Reset Wi-Fi, mobile & Bluetooth: You can reset Wi-Fi, mobile data, and Bluetooth settings with Reset network settings.
   • Reset app preferences: You can reset all app preferences settings and will not lose any app data.
   • Erase all data (factory reset): You can reset your device to factory defaults, erasing all data from your device.

This action permanently erases all data from the device, including Google or other account settings, system and application data and settings, downloaded applications, as well as your music, photos, videos, and other files.

3.4. Testing Tool

AppCenter is an internal software application to test the function of each module of the device(If you encounter any fault problems during use, you can use this app to check) .

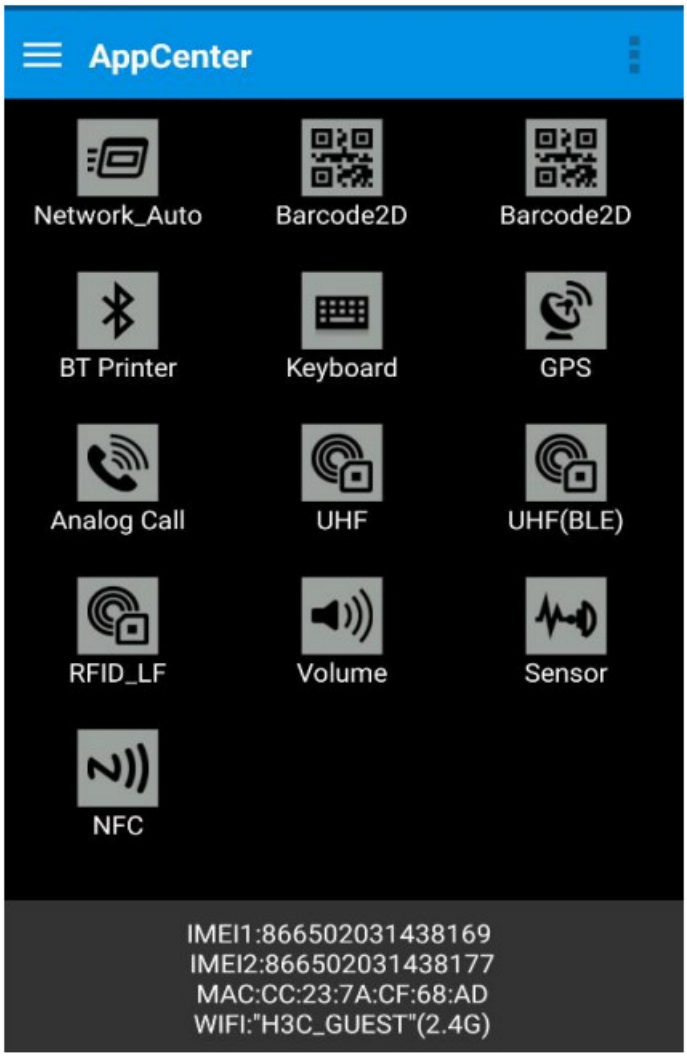

Figure 3- 12 App center test list

3.4.1. Network test

From the AppCenter app, tap Network.

Tap **Start** to test Wi-Fi or Mobile signal by requirement.

Figure 3- 13 Network test interface

3.4.2. GPS test

From the AppCenter app, tap GPS to access GPS information.

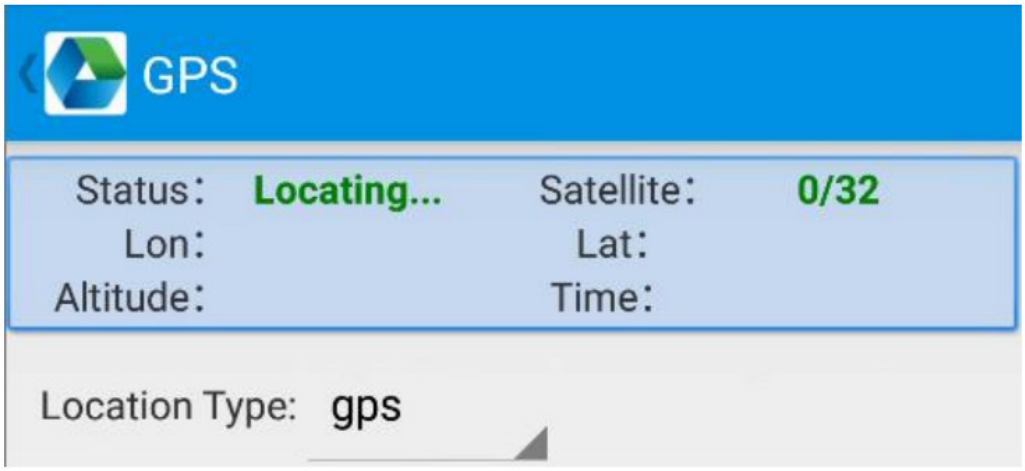

Figure 3- 14GPS test interface

3.4.3. NFC test

From the AppCenter app, tap NFC to read or write ID/IC card, or write and reader block.

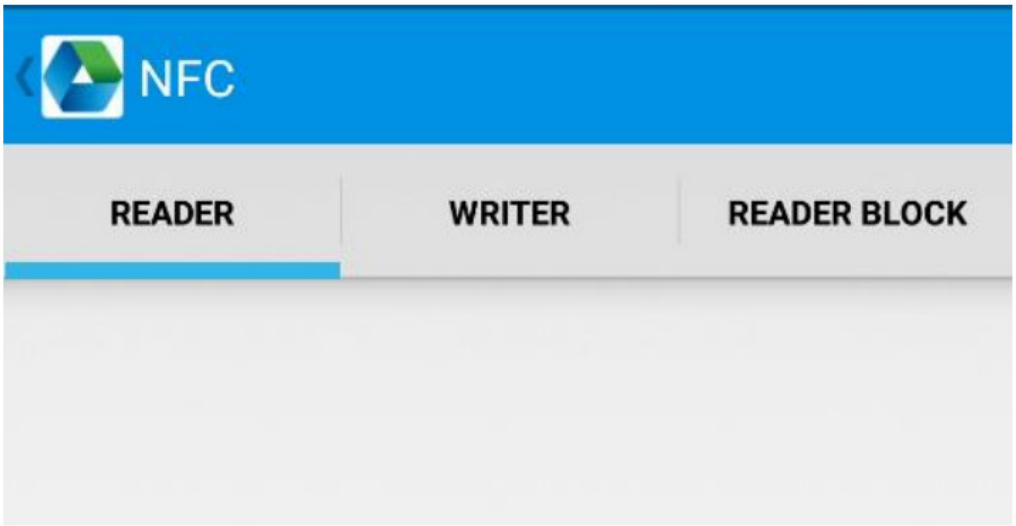

Figure 3- 15NFC test interface

3.4.4. More Functional Module Tests

From the AppCenter app, tap About, tap Config to select functions.

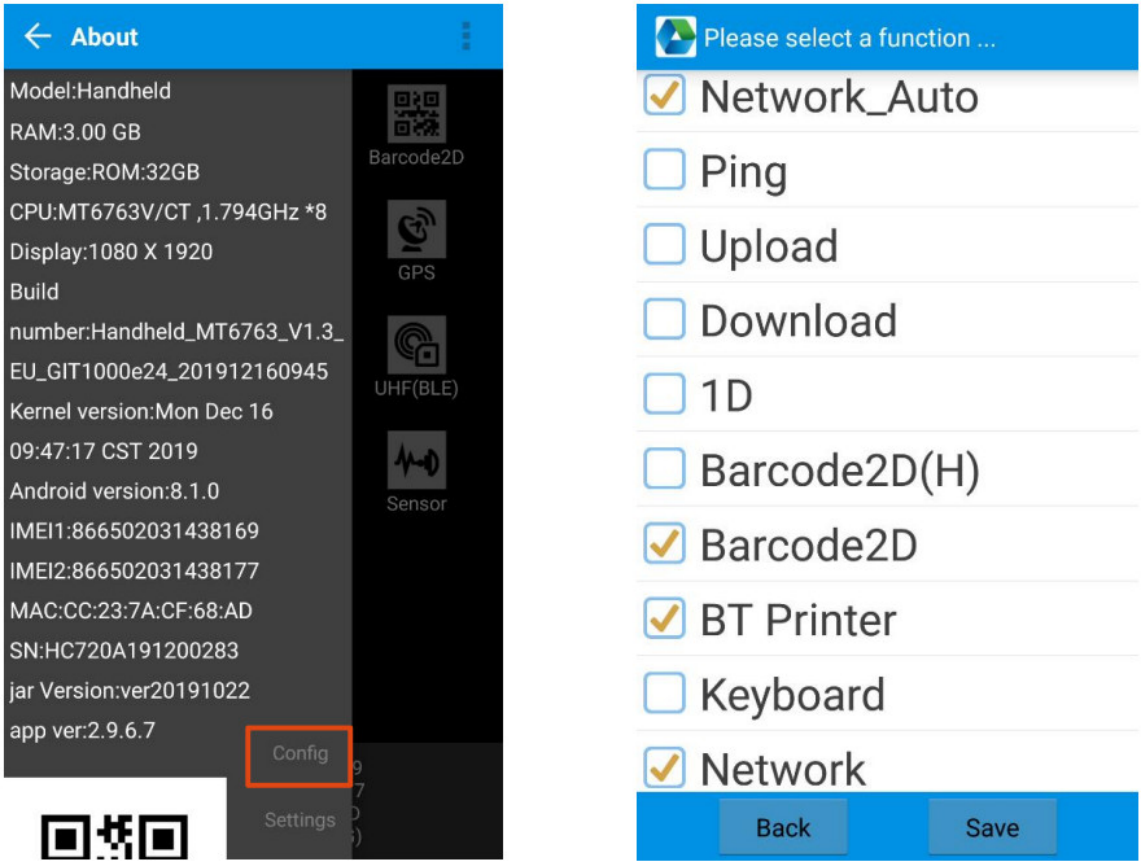

Figure 3- 16 Test function selection

3.5. FAQ

Problem	Cause	Solution
Can’t scan the code	Wrong scanning distance or an gle.	Place the device within proper scanning range or angle.
	The scanner can’t read the barc ode.	Enable the type of barcode being scanned in the KeyboardEmulator. Refer to the KeyboardEmulator application.
	Wrong barcode process mode.	Switch the input mode to the Keyboard input mod e in the KeyboardEmulator application.
	Scan keycode is incorrect.	Set the Scan keycode in KeyboardEmulator. Refe r to the KeyboardEmulator application.
	Wrong Scan setting.	Reset the KeyboardEmulator application and ena ble the Scanner again.
The device does not boo t up	Back cover not fastened	Install the battery back cover in place and snap it on
	The power button was not press ed.	Hold the Power Key until the screen lights up.
	The battery is not charged.	Charge the device.
	System crash.	Perform a reset.
The device cannot be ch arge	The battery or device is faulty.	Connect with the USB cable and check the device ’s LED light. If the LED lights up, the Battery is fau lty, otherwise is the device’s problem.

3.6. Cautions

- Strictly observe the following instructions while install and connect the device. Connect to stable power socket, try to avoid charging it together with high-power machines like air-conditioner.
- Please try not to use the device during thunderstorm in case of lightening stroke, and power off as well as cut off its connection to host machine.
- This is electrical product, be sure not let anything like pin, thumbtack, wire or water slip into the device, or short circuit will be caused to destroy device.
- Be sure no heavy pressure on device or place anything on it.
- Prevent fierce vibration, strike or beat.
- Ensure good working condition, never use it in humid, high temperature, sun burn, dustiness or frost environment, never get close to strong electromagnetic field, never use device under flammable and explosive conditions.
- Avoid plug or swap any part or peripherals when power is on, or it may cause inner hardware damage. Shutoff device before cut power.
- This device is integrated with Lithium battery, change our original battery if needed. Other types battery may cause damage to device. Contact us or our distributor when you need to change battery.
- Cut off power and stop operation if device break down. DO NOT disassemble device yourself.
- Avoid sleet, solar exposure, mechanical shock or extrusion. Be careful when delivering.
- Device should be kept in original package, temperature of warehouse should be 20℃ 60℃, relative humidity

should be 5% 95%. No noxious gas, flammable, explosive or mordant chemicals are allowed to be together, ensure no mechanical shock, impact or high magnetic.

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Documents / Resources

	MUNBYN IPDA088 Android Barcode Scanner [pdf] User Guide IPDA088 Android Barcode Scanner, IPDA088, Android Barcode Scanner, Barcode Scanner, Scanner

References

- u.pc.cd/T3w7
- u.pc.cd/U1V
- User Manual