

# Rugged Handheld Computer

- PA768 -



## User's Manual

Version 1.1

## Revision History

<b>Date</b>	<b>Change Description</b>	<b>Version</b>
20221207	First Published Version	V1.0
20221226	Update GPS information in 1.3 Specifications	V1.1

## Preface

### About This Manual

Thank you for purchasing the Unitech product.

This manual explains how to install, operate and maintain our product.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, such as photocopying, recording, or information storage and retrieval systems, without permission in writing from the manufacturer. The material in this manual is subject to change without notice.

## Regulatory Compliance Statements

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### FCC Warning Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to

which the receiver is connected.

–Consult the dealer or an experienced radio/TV technician for help.

1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure requirements, avoid direct contact to the transmitting antenna during transmitting.
3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

## **FCC Label Statement**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

## **RF Radiation Exposure Statement**

For body contact during operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

## **European Conformity Statement**

Unitech Electronics co., Ltd herewith declares that the Unitech product is in compliance with the essential requirements and all other provisions of the RED 2014/53/EU directive.

The declaration of conformity is available for download at :

<https://portal.Unitech.eu/public/Safetyregulatorystatement>

## **CE RF Exposure Compliance**

For body-worn operation, this device has been tested and meets the ICNIRP guidelines and the European Standard EN 62209-2, for use with dedicated accessories, SAR is measured with this device at a separation of 0.5 cm to the body, while transmitting at the highest certified output power level in all frequency bands of this device. Use of other accessories which contain metals may not ensure compliance with ICNIRP exposure guidelines.

## **CE Mark Warning**



## RoHS Statement



This device conforms to RoHS (Restriction Of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

## Waste electrical and electronic equipment (WEEE)



Unitech has set up a policy and process to meet the 2012/19/EU concerning electronic waste disposal.

For more detailed information of the electronic waste disposal of the products you have purchased from Unitech directly or via Unitech's resellers, you shall either contact your local supplier or visit us at :

<https://portal.Unitech.eu/public/WEEE>

## Taiwan NCC Warning Statement

### 低功率電波輻射性電機管理辦法

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。應避免影響附近雷達系統之操作。高增益指向性天線只得應用於固定式點對點系統。

SAR標準值2.0W/KG，送測產品實測值為：0.395 (W/KG)

#### 注意事項：

1. 使用過度恐傷害視力。
2. 使用30分鐘請休息10分鐘；未滿2歲以下幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時。
3. 減少電磁波影響，請妥適使用。

#### Note:

*Within the 5.25-5.35 GHz band, U-NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.*

## Laser Information

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The Unitech product is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 60825-1. Class II and Class 2 products are not considered to be hazardous. The Unitech product contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or prescribed service operations.

The laser safety warning label required by the DHHS/IEC for the Unitech product's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

\* Laser information only applies to the products with laser components.

**CAUTION!** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner, including binoculars, microscopes, and magnifying glasses, with will increase eye damage. This does not include eyeglasses worn by the user.

## LED Information

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The Unitech product contains LED indicator(s) or LED ring whose luminance is not harmful to human eyes during normal operation, user maintenance or prescribed service operations.

\*LED information only applies to the products with LED components.



## Battery Notice

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1. To guarantee optimal performance, it is recommended that rechargeable batteries be replaced every year, or after 500 charging cycles are completed. It is normal for the battery to balloon or expand after one year or 500 cycles. Although it does not cause damage, it cannot be used again and must be disposed of according to the location's safe battery disposal procedures.
2. If a battery performance decreases more than 20%, the battery is at the end of its life cycle. Stop use and ensure the battery is disposed of properly.
3. The length of time that a battery lasts depends on the battery type and how the device is used. Conserve the battery life by doing the following:
  - Avoid fully uncharging the battery because this places additional strain on it. Several partial uncharges with frequent charges are better than a fully uncharged battery. Charging a partially charged battery does not cause harm to the unit.
  - Keep the battery cool. Avoid hot vehicles. For prolonged storage, keep the battery at a 40% charge level.
  - Do not leave the battery uncharged and unused for an extended period of time, the battery will wear out and the longevity of the battery will be at least half of one with frequent charges.
4. Protect battery life by not over or under charging the battery.
5. Please do not leave battery unused for long time without charging it. Despite Unitech's safety precautions, the battery pack may begin to change shape. If so, stop using it immediately. Please check to see if you are using a proper power adapter to charge the battery or contact your service provider for service.
6. If you cannot charge the battery after it has been idle for an extended period of time and it begins to heat up, please do not try to charge it. It may not be functional anymore.
7. Please only use the original battery from Unitech. Using a third party battery can damage our products. Please note that when such damage occurs, it is not covered by Unitech's warranty policy.

**CAUTION!**

- RISK OF EXPLOSION IF BATTERY IS REPLACED INCORRECTLY.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- 電池若未正確更換，可能會爆炸。請用原廠建議之同款或同等級的電池來更換。請依原廠指示處理廢電池。請依製造商說明書處理用過之電池
- 如果更換不正確之電池行事會有爆炸的風險  
請依製造商說明書處理用過之電池

## Battery charge notice

It is important to consider temperature when the battery pack is charging. Charging is most efficient at normal room temperature or in a slightly cooler environment. It is essential that batteries are charged within the stated range of 0°C to 40°C. Charging batteries outside of the specified range could damage the batteries and shorten their life cycle.

**CAUTION!** Do not charge batteries at a temperature lower than 0°C. This will make the batteries unstable and dangerous. Please use a battery temperature detecting device for a charger to ensure a safe charging temperature range.

**CAUTION!** To ensure the unit working properly, please keep all connectors away from the contaminants staying inside of them such as dust, grease, mud, and water. The negligence may cause the unit with no communication, short circuited, overheated and so on.

**CAUTION!** If the connector is damaged, please ensure the connector is being fully repaired before use the unit to avoid causing short circuited.

## Storage and safety notice

Although charged batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens, they will require recharging prior to use. Batteries may be stored at temperatures between -20°C to 60°C, however they may deplete more rapidly at higher temperatures. It is recommended to store batteries at room temperature.

*\* The message above only applies to the usage of the removable batteries.  
For the products with non-removable batteries / without batteries, please refer to the specification of each product.*

## Product Operation and Storage Notice

The Unitech product has applicable operation and storage temperature conditions. Please follow the limitation of suggested temperature conditions to avoid failure, damage or malfunction.

*\* For applicable temperature conditions, please refer to the specification of each product.*

## Adapter Notice

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1. Please do not leave the power adapter in the socket when it is not connected to your Unitech product for charging.
2. Please remove the power adapter when the battery is fully recharged.
3. The bundled power adapter that comes with your Unitech product is not meant to be used outdoors. An adapter exposed to water or rain, or a very humid environment can cause damage to both the adapter and the product.
4. Please only use the bundled power adapter or same specification of adapter to charge your Unitech product. Using the wrong power adapter can damage your Unitech product.

*\* The message above only applies to the product connected to the adapter.  
For the products without using the adapters, please refer to the specification of each product.*

# Hearing Damage Warning

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To prevent possible hearing damage, do not listen at high volume levels for long periods.




Figure 1 – Warning label (IEC 60417-6044)

# Worldwide Support

Unitech's professional support team is available to quickly answer questions or assist with technical-related issues. Should an equipment problem occur, please contact the nearest Unitech regional service representative.

For complete contact information please visit the Web sites listed below:

<b>Taipei, Taiwan – Headquarters</b> <b>Tel:</b> +886-2-89121122 <b>E-mail:</b> info@hq.ute.com <b>Address:</b> 5F, No. 136, Lane 235, Baoqiao Road, Xindian District, New Taipei City 231, Taiwan (R.O.C.) <b>Website:</b> <a href="http://www.ute.com">http://www.ute.com</a>	<b>Europe</b> <b>Tel:</b> +31-13-4609292 <b>E-mail:</b> info@eu.ute.com <b>Address:</b> Kapitein Hatterasstraat 19, 5015 BB, Tilburg, the Netherlands <b>Website:</b> <a href="http://eu.ute.com">http://eu.ute.com</a>
<b>China</b> <b>Tel:</b> +86-59-2310-9966 <b>E-mail:</b> info@cn.ute.com <b>Address:</b> Room401C, 4F, RIHUA International Mansion, Xinfeng 3rd Road, Huoju Hi-tech District, Xiamen, Fujan , China <b>Website:</b> <a href="http://cn.ute.com">http://cn.ute.com</a>	<b>Japan</b> <b>Tel:</b> +81-3-62310896 <b>E-mail:</b> info@jp.ute.com <b>Address:</b> Tosei Building 3F., 18-10 Nihonbashi-Hakozakicho, Cyuouku, Tokyo, 103-0015, Japan <b>Website:</b> <a href="http://jp.ute.com">http://jp.ute.com</a>
<b>Asia &amp; Pacific / Middle East</b> <b>Tel:</b> +886-2-27911556 <b>E-mail:</b> info@apac.ute.com info@india.ute.com info@mideast.ute.com <b>Address:</b> 4F., No. 236, ShinHu 2nd Rd., NeiHu Chiu, 114, Taipei, Taiwan <b>Website:</b> <a href="http://apac.ute.com">http://apac.ute.com</a> / <a href="http://mideast.ute.com">http://mideast.ute.com</a>	<b>Latin America</b> <b>Tel:</b> +52-55-5171-0528 <b>E-mail:</b> info@latin.ute.com <b>Address:</b> 17171 Park Row, Suite 210 Houston, TX 77084USA (Rep.) <b>Website:</b> <a href="http://latin.ute.com">http://latin.ute.com</a>
<b>North America</b> <b>Tel:</b> +1-714-8916400 <b>E-mail:</b> info@us.ute.com / info@can.ute.com <b>Address:</b> 6182 Katella Ave, Cypress, CA 90630, USA <b>Website:</b> <a href="http://us.ute.com">http://us.ute.com</a>	<b>Please scan QR Code to visit us :</b> 

## Warranty Policy

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The following items covered under the Unitech Limited Warranty are free from defects during normal use:

The warranty period is varied from each country. Please consult with your supplier or Unitech local office for actual length of warranty period to your purchased product.

Warranty becomes void if equipment is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.

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# Chapter 1 - Overview

## 1.1 Package

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Please make sure the following contents are in the PA768 gift box. If something is missing or damaged, please contact your Unitech representative.

### The Package Contents

- PA768 Rugged Handheld Computer
- Battery
- Hand Strap
- USB Type-C Cable
- Quick Start Guide

### Optional Accessories

- Hand Strap
- USB 3.0 type C cable
- Fast charge adaptor
- 9H glass screen protector
- 1 Slot USB cradle
- 1 Slot Charging cradle
- 1 Slot Ethernet cradle
- Multi-Slot Terminal Charging / Ethernet Cradle / Battery Charger
- Standard/UHF gun grip
- Stylus with Coiled strap

## 1.2 Product Detail

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### PA768 Product View

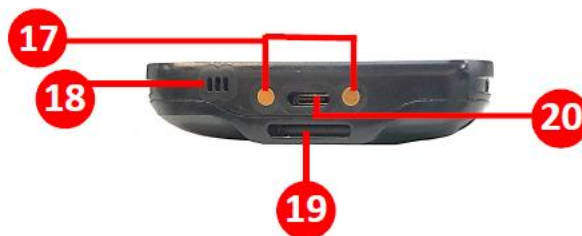


- 1. Barcode Scanner Window
- 2. Receiver
- 3. LED Indicator
- 4. Front Camera
- 5. Volume Key

- 6. Scanner Trigger Key
- 7. Power Key
- 8. Programmable Key
- 9. Scanner Trigger Key

**Rear View**


**Note:**  
Please remove the black film while using gun grip.


**Bottom View**

- |                      |                           |
|----------------------|---------------------------|
| 10. Microphone (Sub) | 16. Pogo Pin for gun grip |
| 11. Flash LED        | 17. Pogo Pin for cradle   |
| 12. Rear Camera      | 18. Microphone (Main)     |
| 13. Speaker          | 19. Hand Strap Hole       |
| 14. Hand Strap Holes | 20. USB Type-C Hole       |
| 15. NFC              |                           |

## 1.3 Specifications

<b>System Features</b>	
<b>CPU</b>	Qualcomm Snapdragon™ 6490 Processor, 64bits, Octa Cores up to 2.7 GHz
<b>Memory</b>	6 GB RAM 64 GB UFS Flash (128GB option)
<b>OS</b>	Android 12 with GMS & AER certified
<b>GMS certified</b>	GMS certified
<b>Languages support</b>	Multiple languages
<b>Display</b>	
<b>Screen Size</b>	6.3" Color LCD 2160 X 1080 (FHD+) High Resolution Display
<b>Touchpanel</b>	Gorilla Glass with Multi-Touch Capacitive Touch Panel, support stylus, glove, wet-finger Compatibility High sunlight visibility - LCD backlight up to 500nits
<b>Keypad</b>	
Programmable key, Volume up/down key, Left/right scan key, Power key	
<b>Camera</b>	
5 MP Front camera 16 MP Rear Camera with LED flash and auto-focus function, Support Google ARcore	
<b>Indicator Type</b>	
LED, Vibrator	
<b>Symbologies</b>	
Built-in 2D imager engine with red laser aimer, with 1 Mpx & global shutter function Optional Middle range engine support read range up to 10 meters Support all 1D & 2D major barcodes	
<b>RFID</b>	
<b>UHF</b>	UHF gun grip (see RG768)
<b>HF</b>	Support HF/NFC Frequency 13.56Mhz Support: ISO14443A/B, ISO15693, Mifare, Felica(ISO/IEC18092)

<b>Power Source</b>	
<b>Main Battery</b>	Hot Swappable 5100mAh Li-Polymer battery / battery with cover in one piece
<b>Extended battery</b>	7840mAh / battery with cover in one piece (optional)
<b>Hot Swap</b>	Yes
<b>Regulatory Approvals</b>	
CE, FCC, NCC, VCCI, TELEC, CCC, SRRC, BQB, N-Mark, RoHS 2.0	
<b>Communication</b>	
<b>Bluetooth®</b>	Bluetooth® 5.2 , BLE 5, Class 1
<b>WLAN</b>	WLAN 6E+DBS, 2.4GHz & 5GHz & 6GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (2x2 MU-MIMO) Security WPA3, WPA2, WPA & WEP
<b>WWAN</b>	5G Sub 6GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 (4x4 MIMO) 4G LTE(FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 17, 20, 28 (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz)
<b>GPS</b>	GPS, GLONASS, Galileo, Beidou, QZSS, SBAS, supports L1+L5, a-GPS, XTRA
<b>Sensors</b>	Gyroscope, G-sensor, E-compass, Light & Proximity Sensor
<b>I/O Interfaces</b>	
<b>USB</b>	USB 3.1 type C, support fast charging, OTG
<b>POGO PIN</b>	Bottom pogo pin for cradles, rear pogo pin for gun grips
<b>SIM Slot</b>	Nano SIM Slot x 2
<b>Expansion slot</b>	Micro SD x 1, up to 256 GB
<b>Audio</b>	SmartPA Speaker support 100 dB at 10cm Dual-Microphone support noise cancellation
<b>Enclosure</b>	
<b>Dimensions</b>	167mm x 75.5mm x 17mm ( H x W x D )
<b>Weight</b>	270 g
<b>Environmental</b>	
<b>Operating temperature</b>	-4°F to 131°F (-20°C to 55°C)

<b>Storage temperature</b>	-40°F to 158°F (-40°C to 70°C), without battery
<b>Relative Humidity</b>	5% ~ 95% (Non-Condensing)
<b>Drop Specification</b>	1.8 meter with bumper 1.5 meter without bumper
<b>Sealing</b>	IP67
<b>Vibration/Tumble test</b>	Tumble 600 times (1.6 ft./0.5 m)
<b>Software</b>	
<b>MDM Software</b>	SOTI, AirWatch, 42Gears, 12Manage, and MoboLink
<b>Accessories</b>	
<ul style="list-style-type: none"> <li>■ Hand Strap</li> <li>■ USB 3.0 type-C cable</li> <li>■ Fast charge adaptor</li> <li>■ 9H glass screen protector</li> </ul>	<ul style="list-style-type: none"> <li>■ 1 Slot USB cradle</li> <li>■ 1 Slot Charging cradle</li> <li>■ 1 Slot Ethernet cradle</li> <li>■ Multi-Slot Terminal Charging / Ethernet Cradle / Battery Charger</li> <li>■ Standard/UHF gun grip</li> <li>■ Stylus with Coiled strap</li> </ul>

**Note:**

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK
	IS	LI	NO	CH	TR		

## 1.4 Getting Started

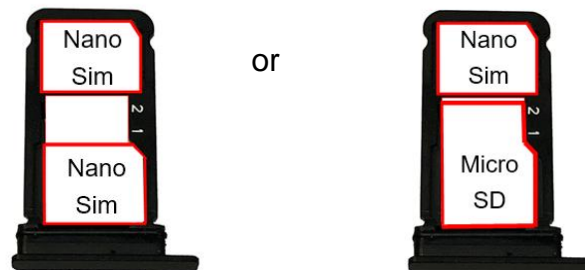
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### 1.4.1 Inserting the Micro SD/Nano SIM Card

1. Pick out the Micro SD/Nano SIM card holder.



2. You may put in 2 SIM cards or one SIM card and one SD card at a time.





## 1.4.2 Install the Battery

1. Align the battery with the battery compartment following the picture below.



2. Press and hold both of the plastic buckles at the bottom, then push against the front.



3. Press down the battery to secure in place





### 1.4.3 Remove the battery

1. Press and hold both of the plastic buckles at the bottom.



2. Push the battery against the front and lift to remove.



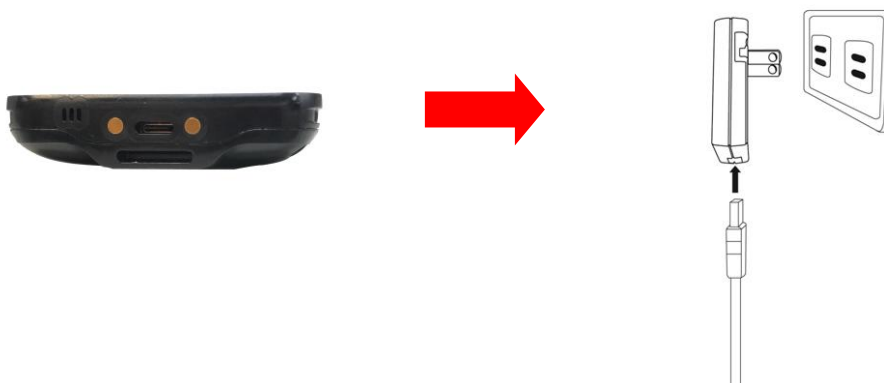
## 1.4.4 Charging the Battery

Before using the PA768 for the first time, you need to charge it for about 24 hours. For the regular use, you can charge the PA768 for 4 hours to recharge the battery to full capacity.

To charge the PA768, please use the USB charging cable or the cradle.

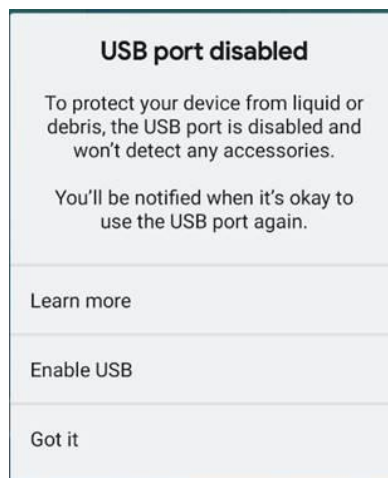
Connect the type C USB cable to the USB port on PA768 and the other end of the USB cable connect to AC power adapter into the electrical outlet on the USB plug.

The charging LED indicator on PA768 is turning red when it is in charging state.



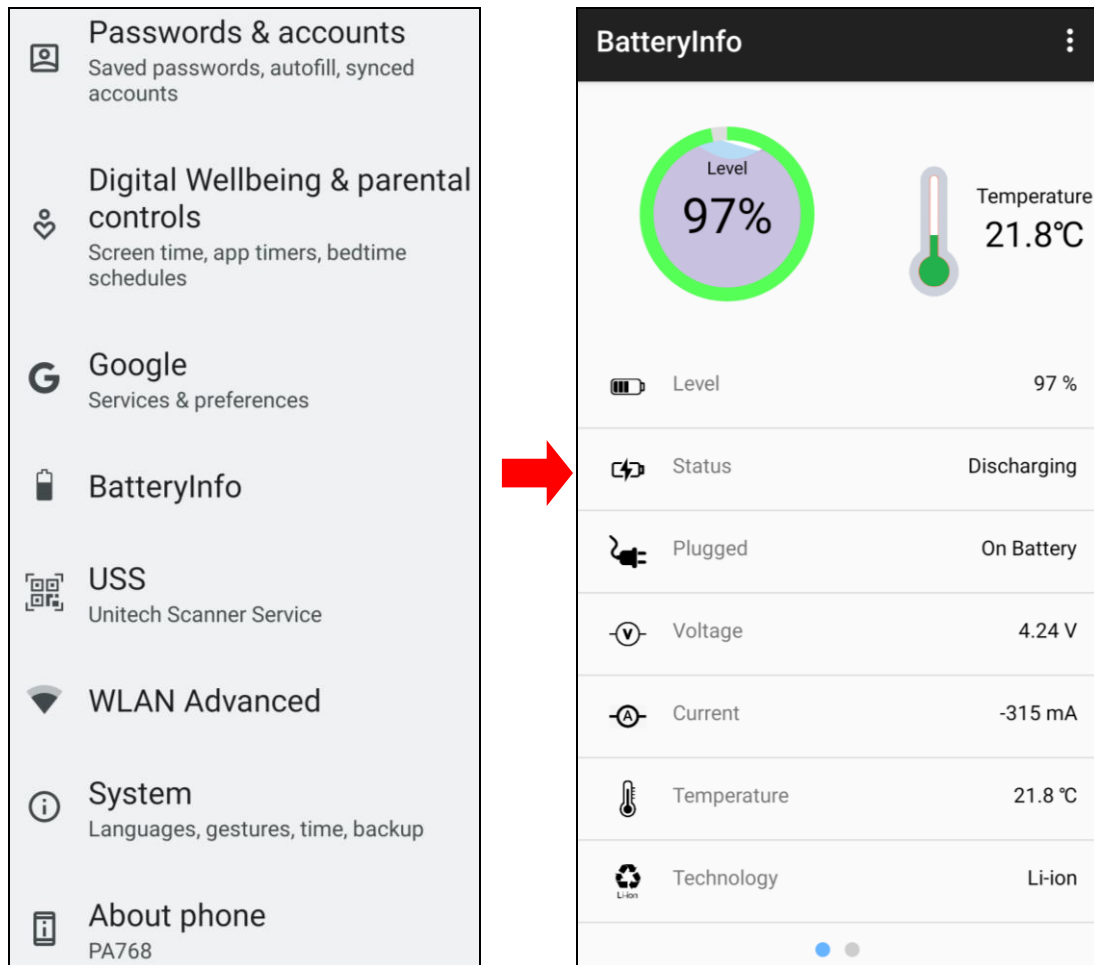
**Note:**

To protect your device, the USB port will be disabled once it detects contaminants. You will see the following popup window:



## 1.4.5 Battery Info

Please go to **Settings** → **BatteryInfo** for more detailed battery information.



## 1.4.6 Turning on the PA768 for the first time

It is recommended to fully charge PA768 before first use. You can now start up your device to set up the languages, WLAN setting, and date and time.

### Power Button

Turn ON your device by pressing the power button on the side of the PA768.



## 1.4.7 Checking the LED status

### Checking the Battery Status

LED	Description
Red Light	<ul style="list-style-type: none"> <li>● Battery Charging</li> </ul>
Green Light	<ul style="list-style-type: none"> <li>● Battery Fully charged</li> <li>● Barcode scan good read</li> </ul>
Blue Light	<ul style="list-style-type: none"> <li>● Message</li> </ul>
<p><b>If scanner app is running, LED is controlled by the scanner app. No LED (Red and Green) display when battery is out. (even with AC IN)</b></p>	

**WARNING!** *There is a risk of fire and burns if the battery is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service the battery. Dispose of used batteries according to local recycling guidelines in your area.*

## Chapter 2 – Installation & Operation

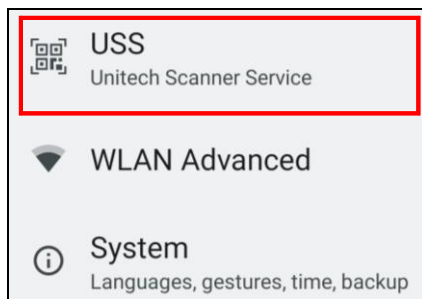
### 2.1 Barcode Setting

1. On the main screen, scroll up the screen to reach the APPS, and

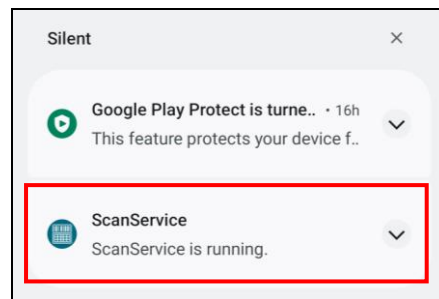


tap **Settings** and then tap **USS** (Unitech scan service).

Or from the notification bar to tap ScanService.




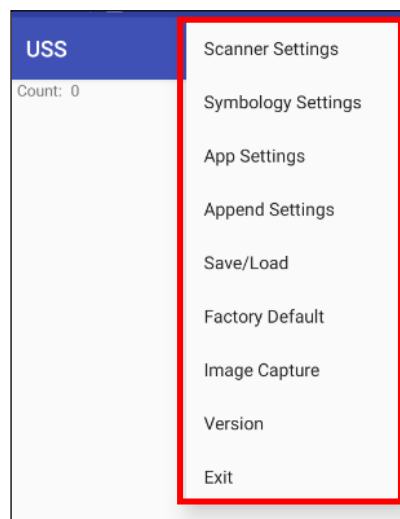
or



2. You now enter the Unitech scan service application.

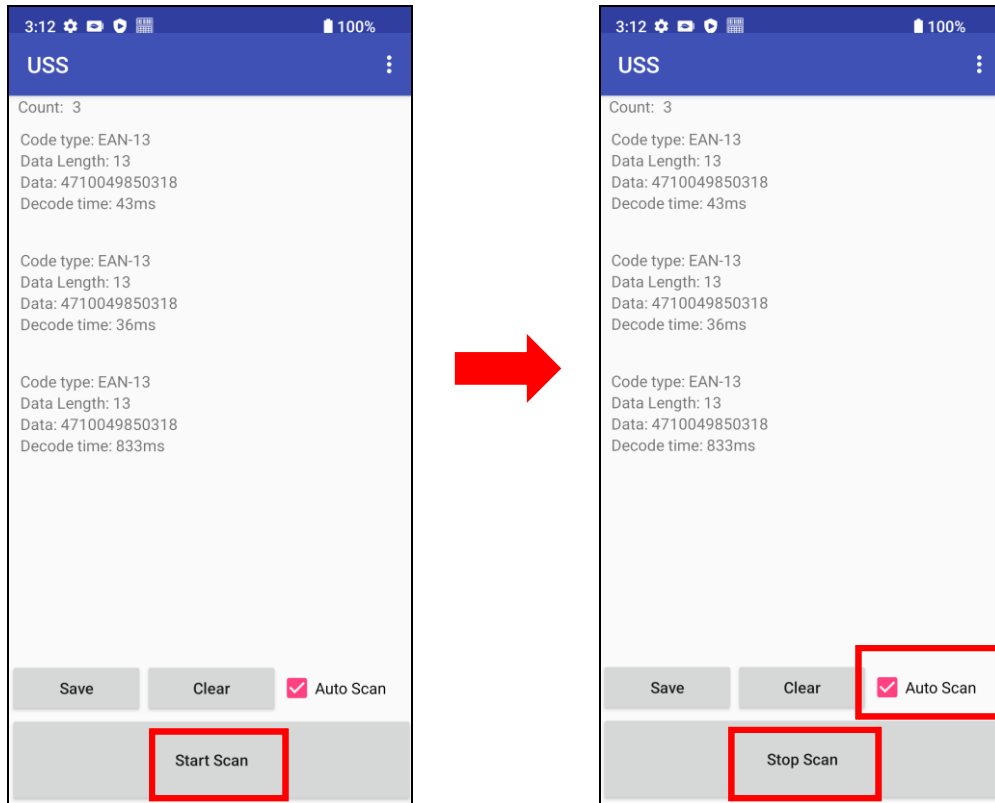
#### 2.1.1 Settings


After you enter the Unitech scan service application, please tap  on the screen to see all the settings of **USS**.

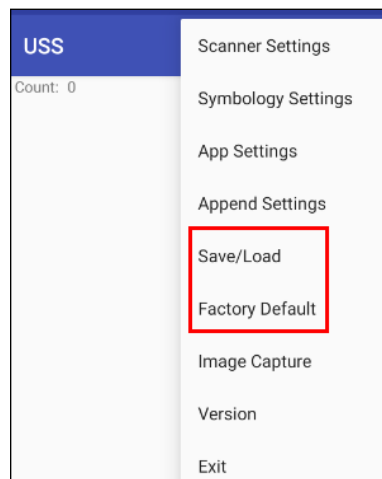


## 2.1.2 Barcode Scan

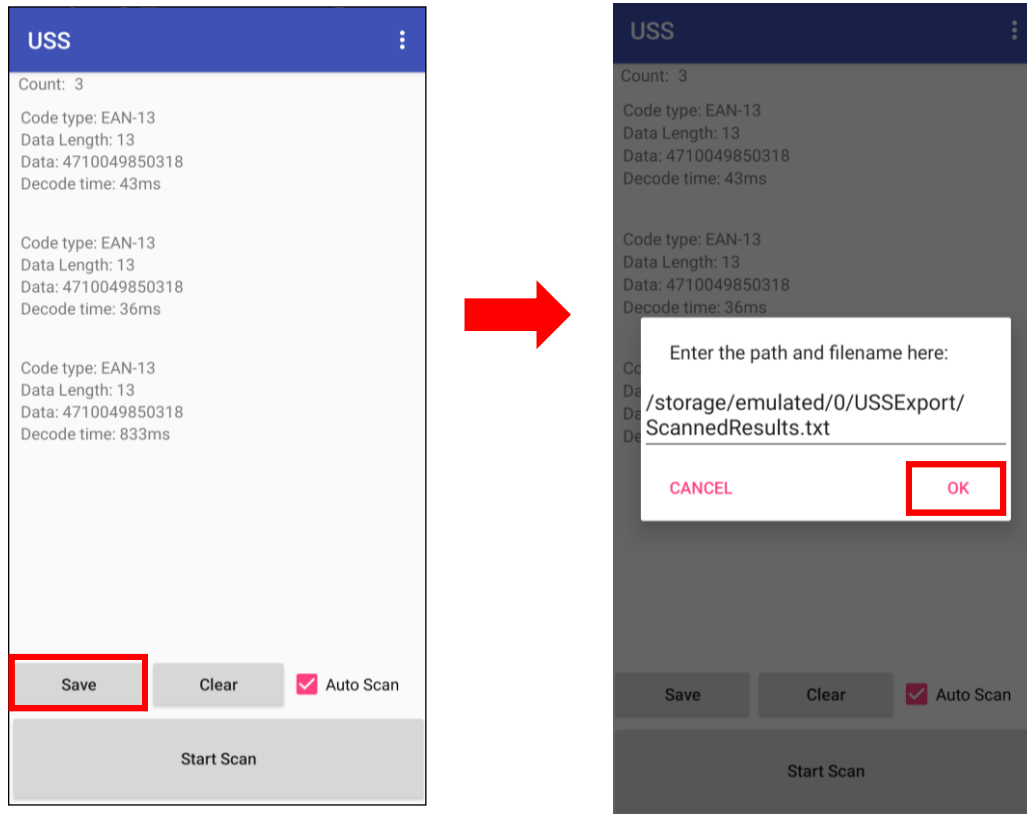
1. Please tap **Start Scan** to get ready for barcodes scan service.  
You may tap **Stop scan** to stop scanning, and choose if you want to scan under **Auto scan** mode.



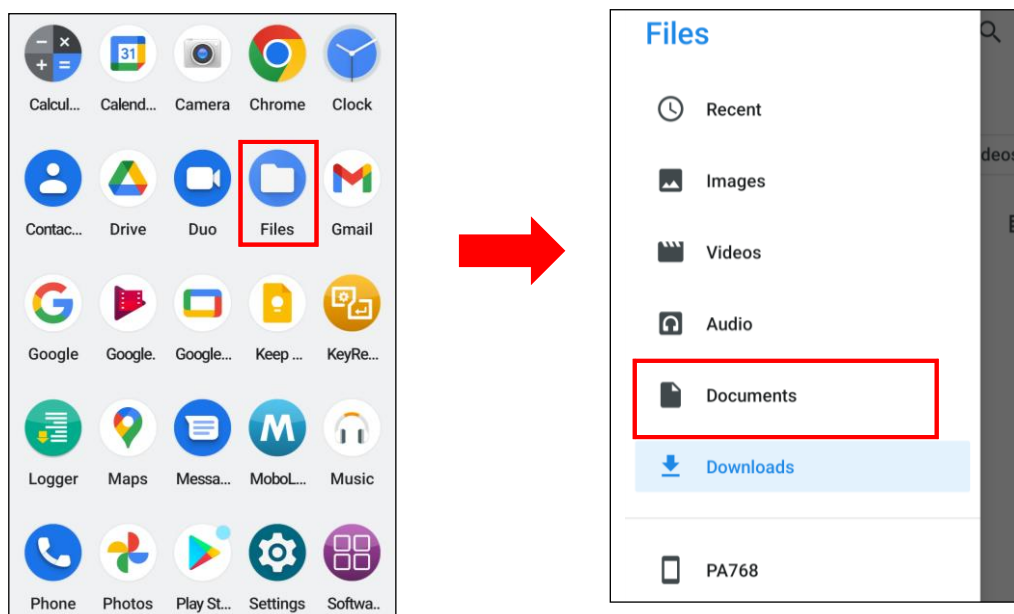
2. For **Save / Load Settings**, and **Factory Default**, Please tap  and to select **Save / Load Settings**, and **Factory Default**.



- To save settings, you can also tap **Save** on the screen and input path then tap **OK**.

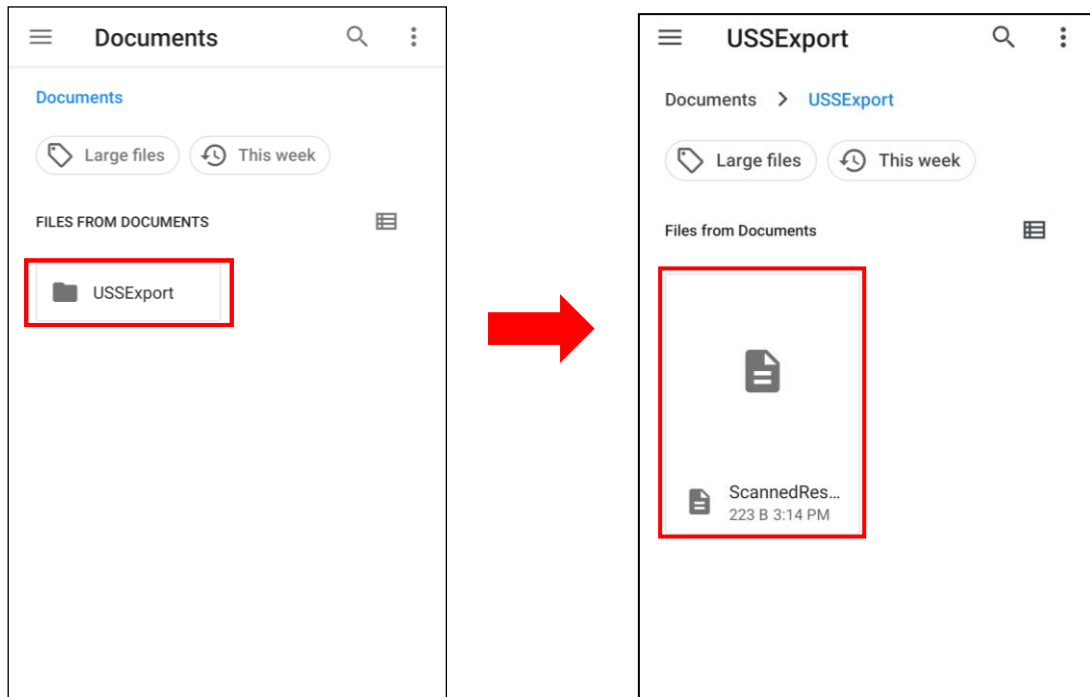


The saved data is stored in Files → Documents





USSEExport → ScannedResults.txt.

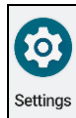


**Note:** For more information, please refer to [3.1 USS \(Unitech scan service\)](#)

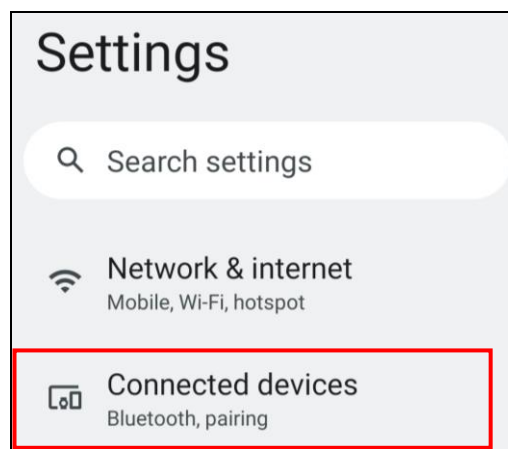
## 2.2 HF Setting

### 2.2.1 HF Setting

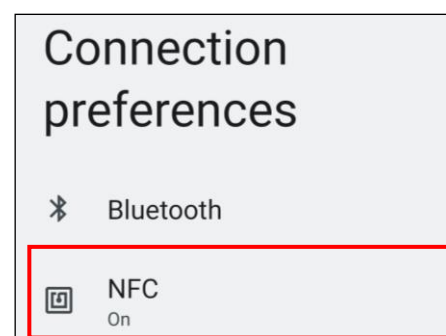
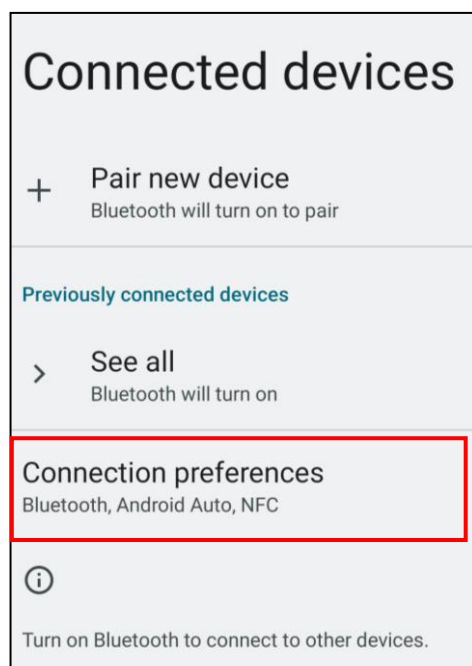
1. On the main screen, scroll the screen from bottom to top to reach the APPS,



and tap **Settings** then **Connected devices**.



2. Tap **Connection Preferences** to enable **NFC**

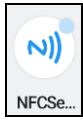


4. Make sure that both devices are unlocked and have NFC turned on. Also make sure that the NFC antenna area of PA768 and the other phone's NFC area are close to one another. Slightly moving the phones until a connection is made. Tap the screen.

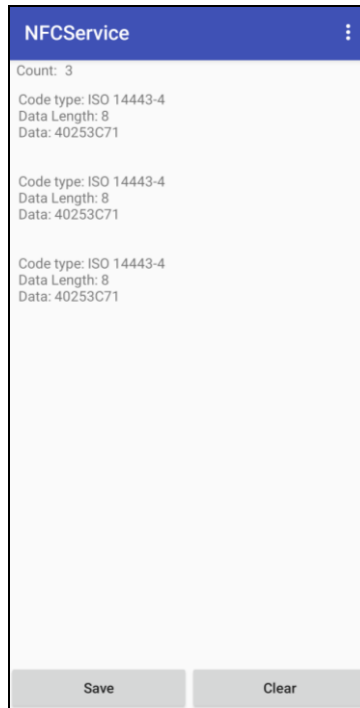


## 2.2.2 NFCService

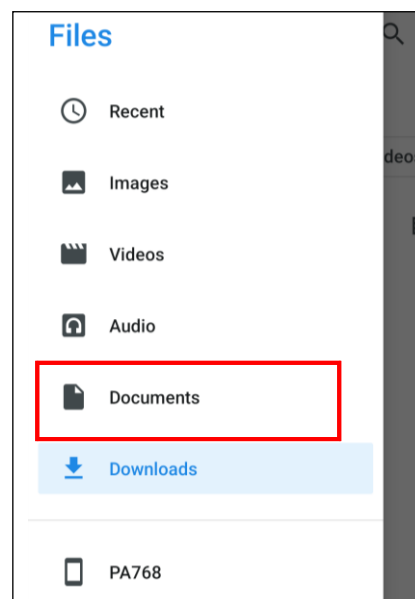
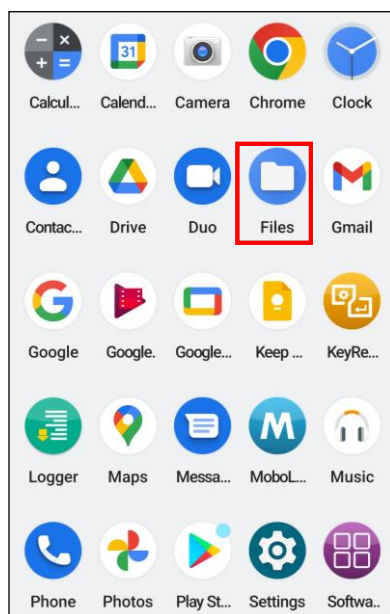
On the main screen, scroll the screen from bottom to top to reach the APPS,



and tap **NFCService**



The saved data is stored in Files → Documents

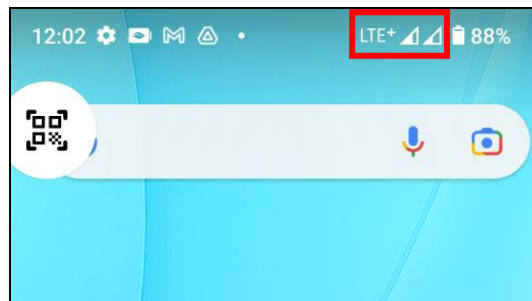


## 2.3 WWAN Setting

1. Turn off the PA768 to insert the SIM card.

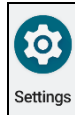
**Note :** • For the instruction, please refer to [1.4.1 Inserting the Micro SD/Nano SIM Card](#)

2. Turn on the PA768, LTE signal will show at the top of the screen.

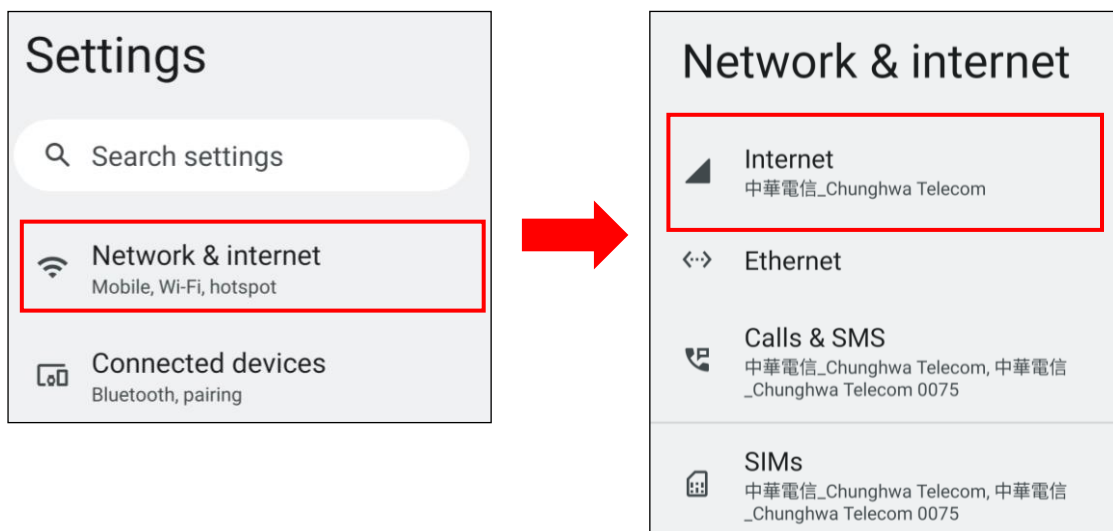


### 2.3.1 Mobile Network Settings

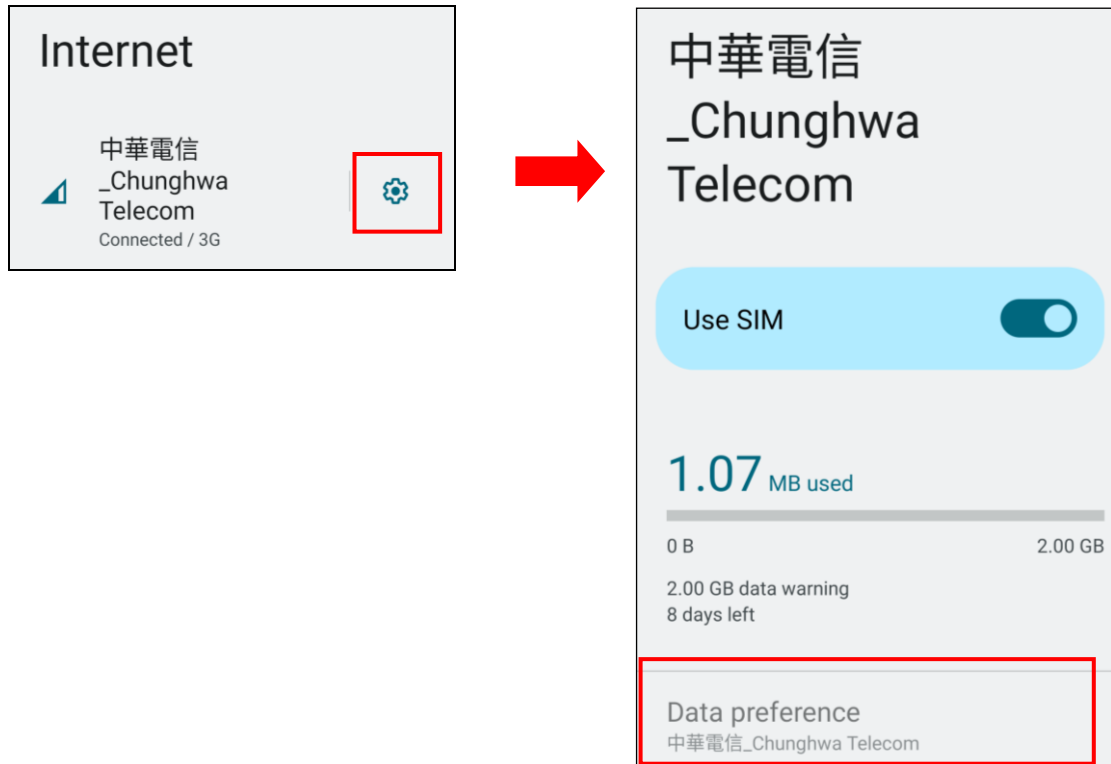
1. On the main screen, scroll the screen from bottom to top to reach the



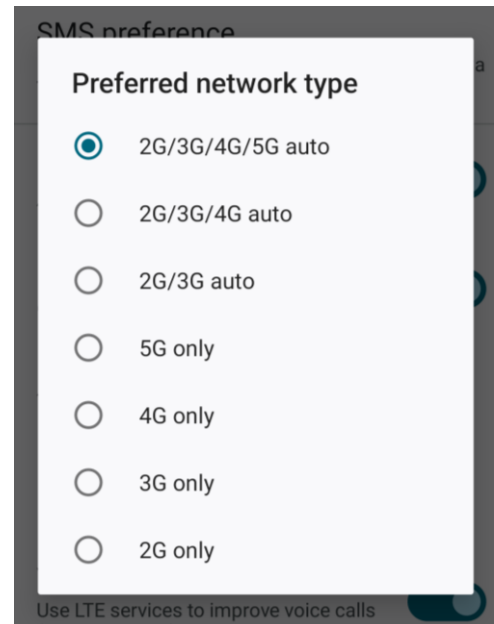
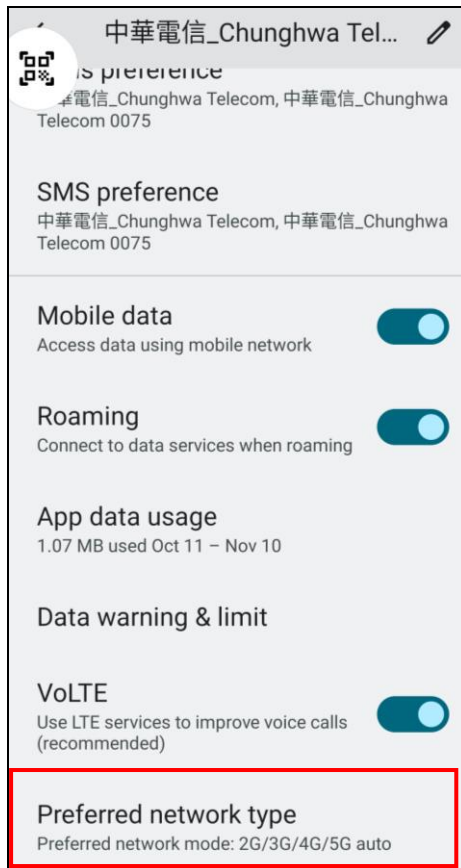
APPS, and tap **Settings** and then tap **Network & internet**.



2. Tap on the settings icon for more network settings.  
To switch between 2 SIMs, tap on data preference.



3. To choose different network type, please tap **Preferred network type**.

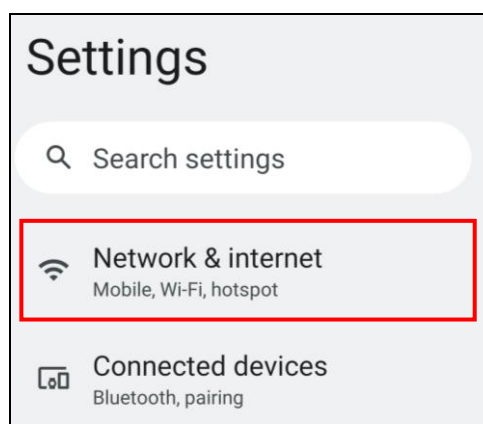


## 2.4 WLAN Setting

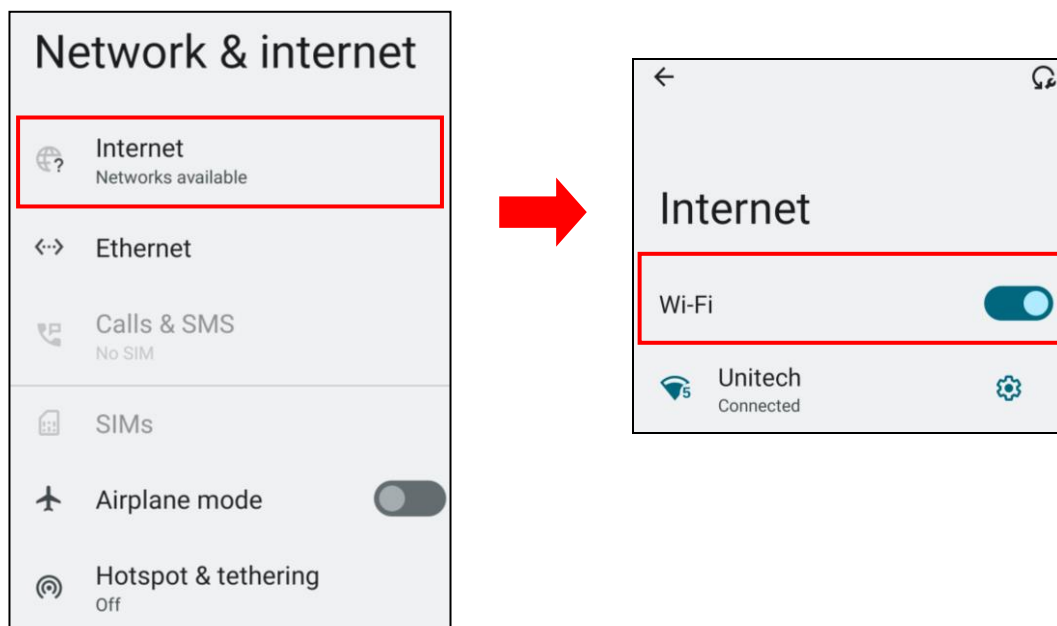
1. On the main screen, scroll the screen from bottom to top to reach the



APPS, and tap **Settings** and then tap **Network & internet**.

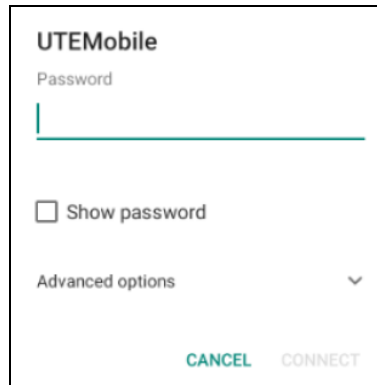


2. Tap Internet and turn WLAN **ON** to see available networks. Tap to choose available networks.

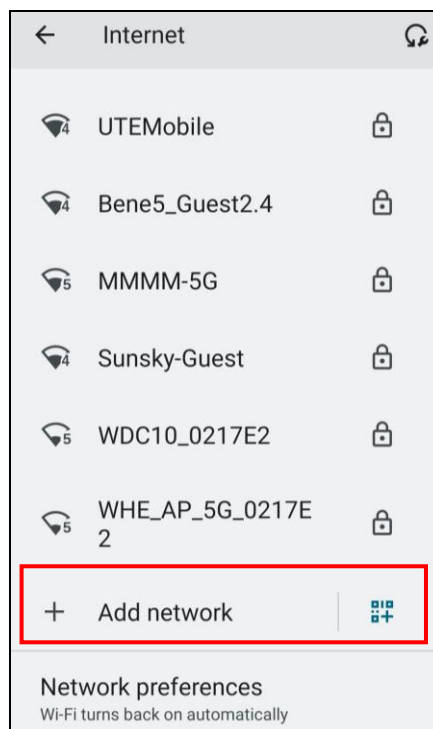




3. Choose the available networks, and enter the Password and tap **Connect**.



4. If the wireless network that you want is not listed, tap **+ Add network** to manually add it.



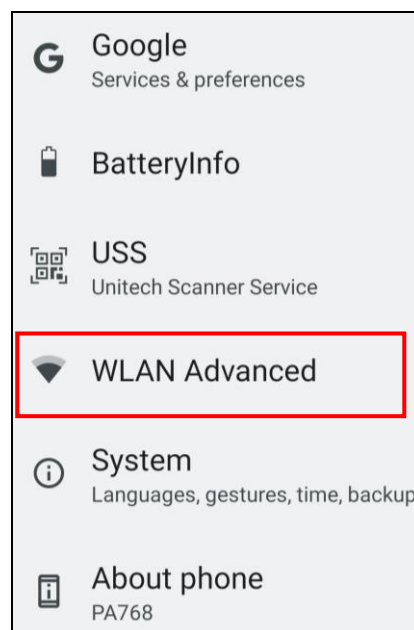
5. When enabled, the icon  is displayed on the status bar.

## 2.4.1 WLAN Advanced

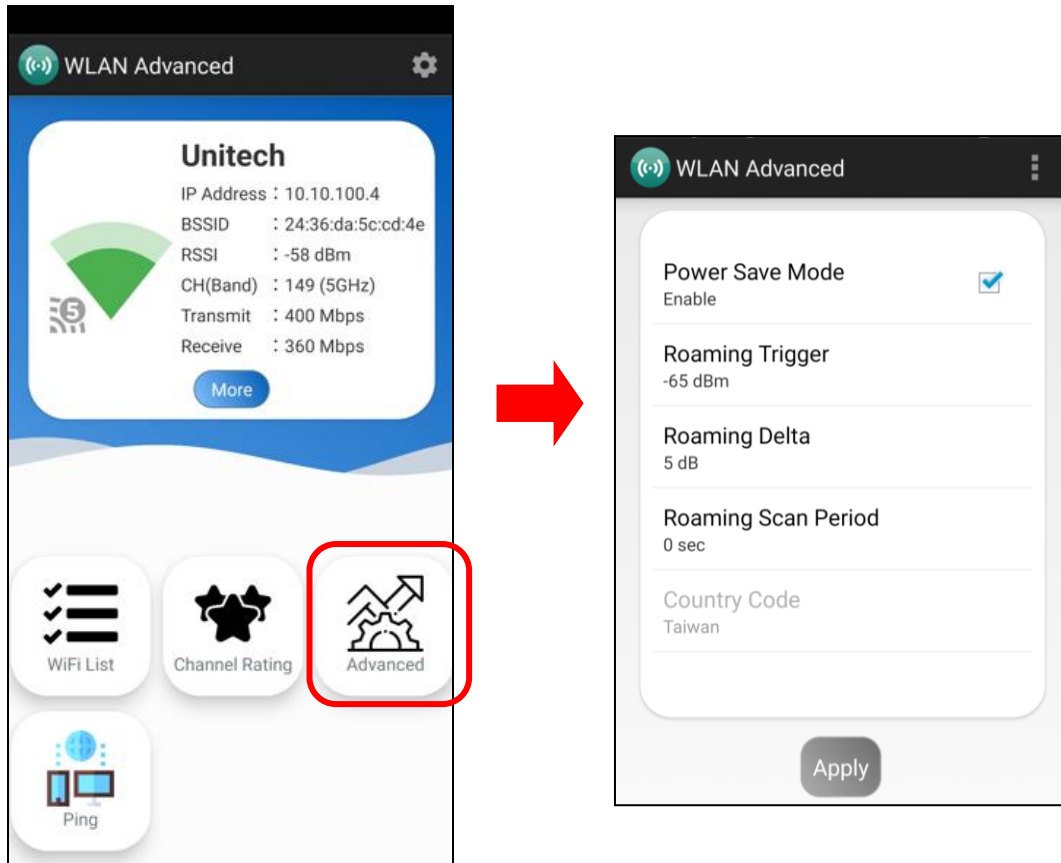
WLAN advanced can enhance the roaming behavior when the device is in areas of particularly low coverage or losing its connection to the network infrastructure and provides the power save mode to control the power consumption setting.

WLAN advanced will help users to manage the seamless roaming.

1. On the main screen, scroll the screen from down to top to reach the APPS, and tap **Settings** then **WLAN Advanced**.



2. Tap on **Advanced**.

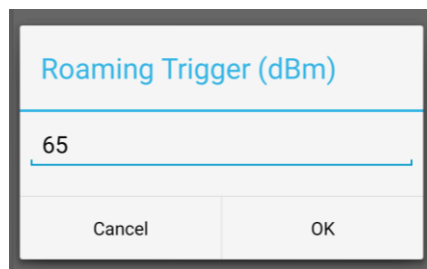


**Power Save Mode**

Tap to enable the power save mode to set the WLAN module to its optimum power consumption setting.

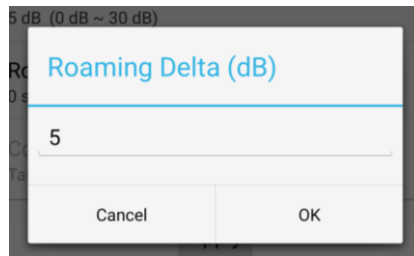
● **Roaming Trigger (Default : -65 dBm, Range : -10 dBm ~ -120 dBm)**

Roaming trigger will help users to look for a better and stronger signal strength (in dBm) by scanning many access points. When the signal strength is lower than roaming trigger value, roaming trigger will start to look for better access points.



● **Roaming Delta ( Default : 5 dB, Range : 0 dB ~ 30 dB)**

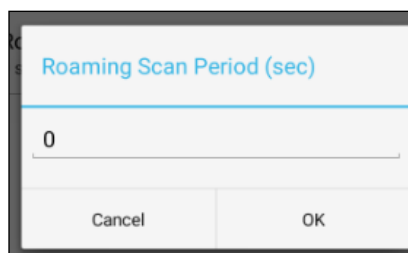
Based on roaming delta value, the device will roam to a better signal strength access point.




● **Roaming Scan Period (Default : 0 ms, Range : 0 ms ~ 60 sec)**

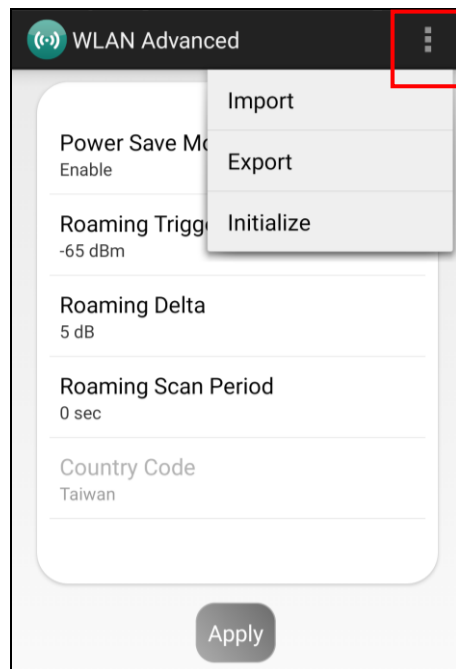
The device will stay with the current AP based on the roam period value

before it roams to a different AP.




### 2.4.1.1 Other options

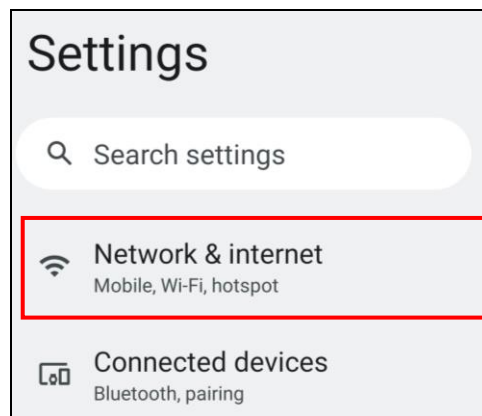
Tap  for more options to import / export the current data from the device. **Initialize** is able to restore the default settings.



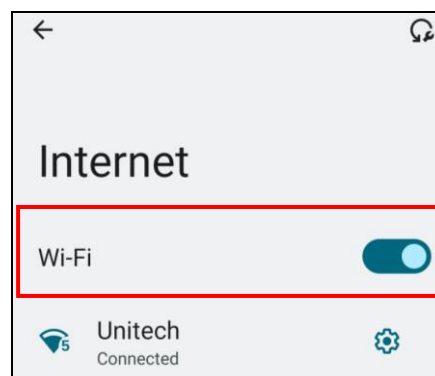
## 2.4.2 Share Wi-Fi

1. On the main screen, scroll the screen from bottom to top to reach the APPS,

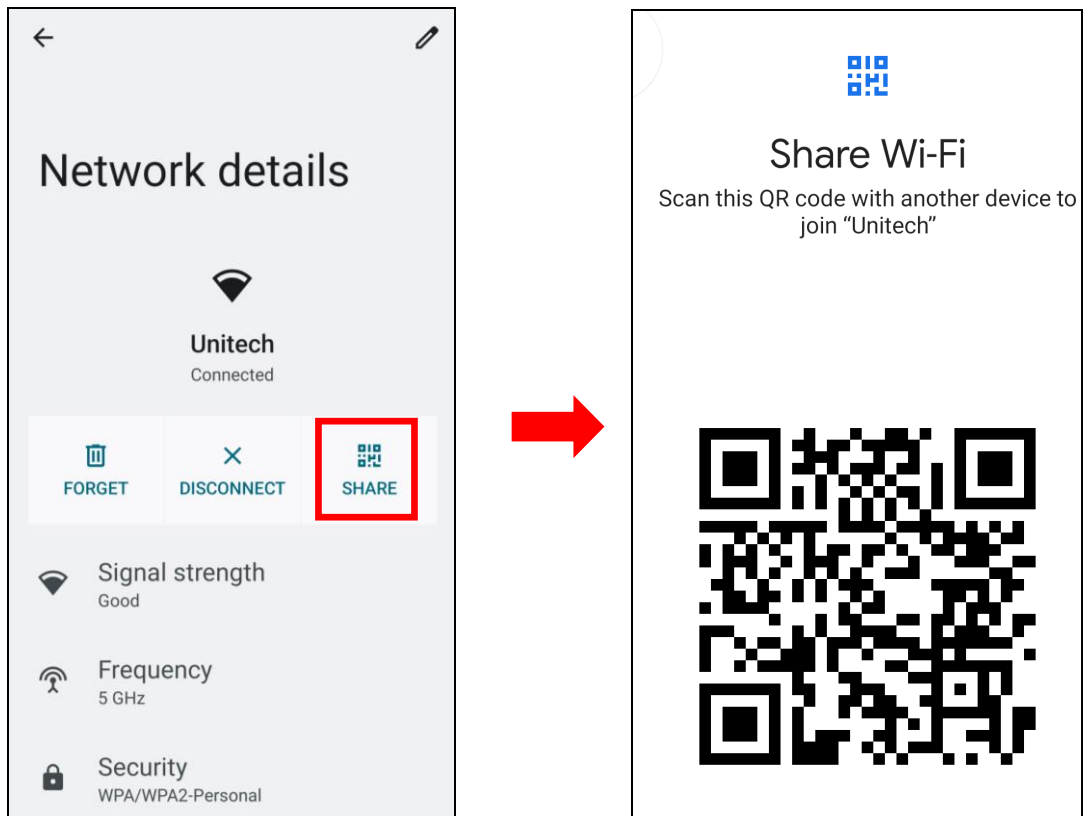
and tap  **Settings** and then tap **Network & internet**.



2. Tap Internet and turn WLAN **ON** to see available networks, then tap to choose the available networks.




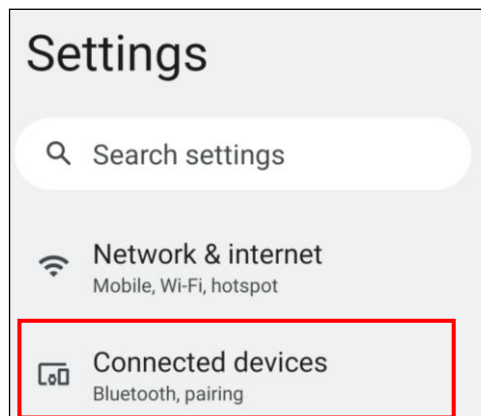
- When Wi-Fi is connected, tap **Share** icon to show QR code.



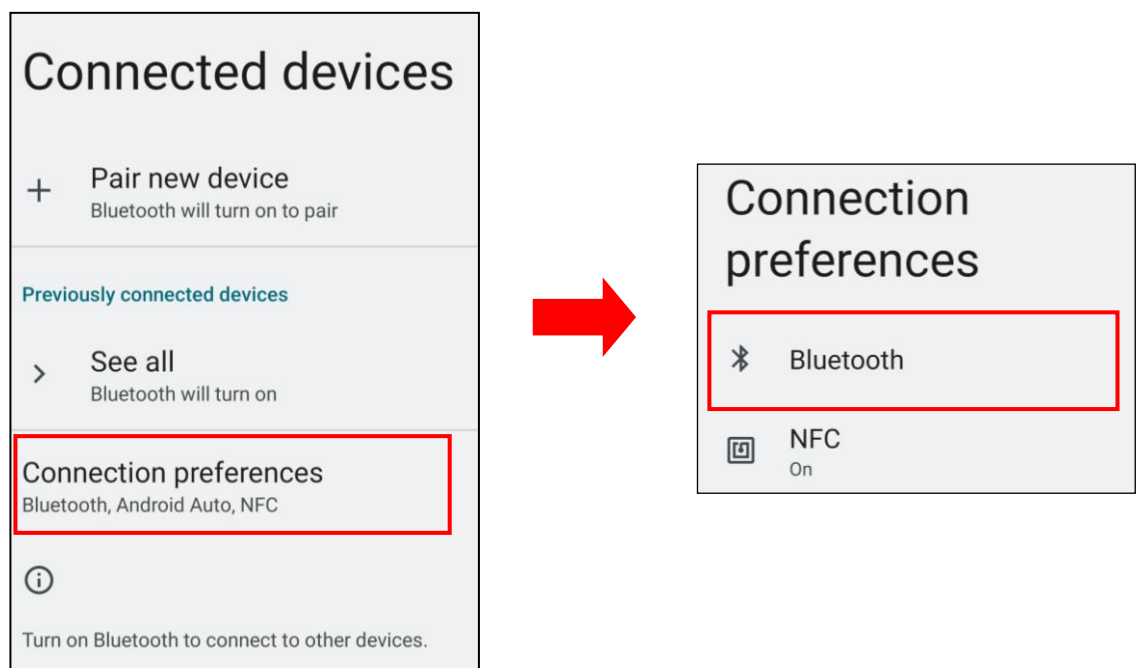
## 2.5 PAN Setting

1. On the main screen, scroll the screen from bottom to top to reach the

APPS, and tap  **Settings** and then tap **Connected devices**.

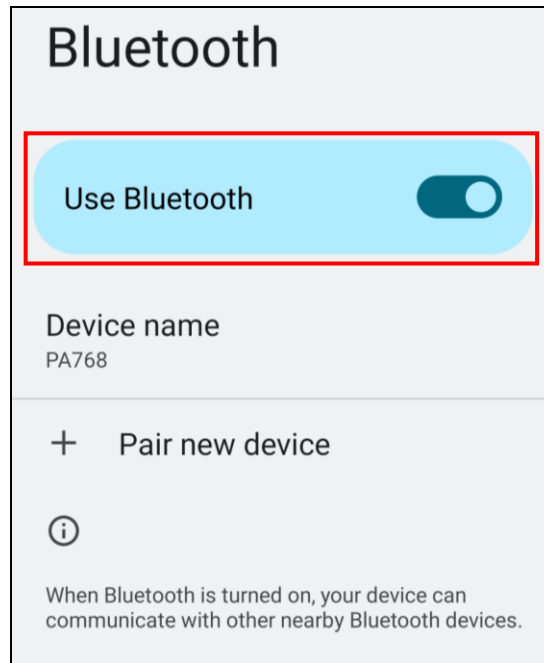


2. Tap **Connection Preferences** to enable **Bluetooth®**.





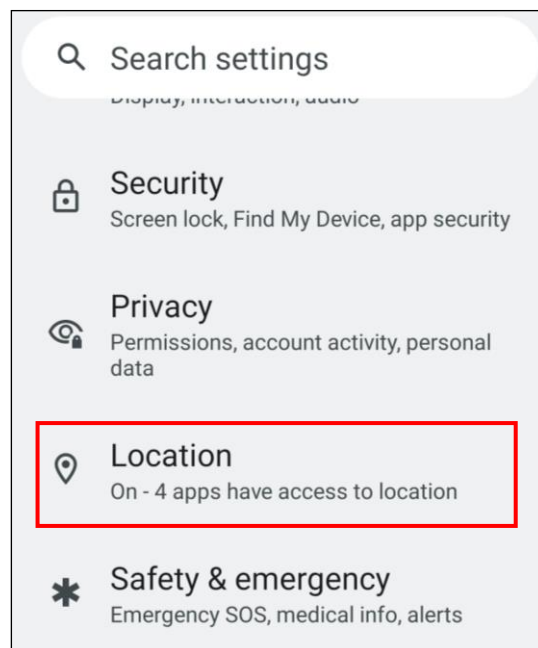
3. Tap **ON / OFF** to enable / disable Bluetooth®.  
To pair the available device, turn Bluetooth® **ON** to choose the available device.



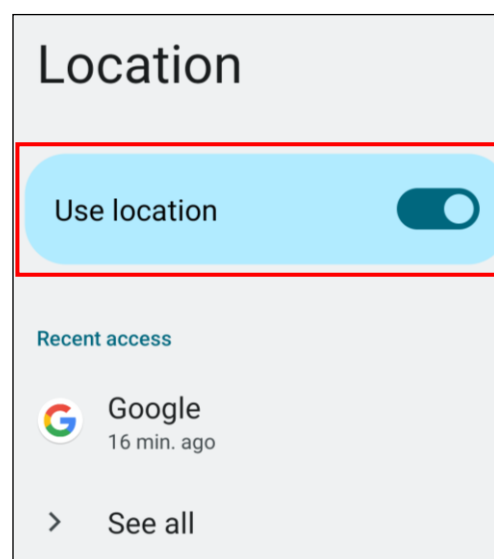
## 2.6 GPS Setting

1. On the main screen, scroll the screen from bottom to top to reach the


 APPS, and tap **Settings** and then tap **Location**.



2. Tap **ON/OFF** for the permission to use your location information.



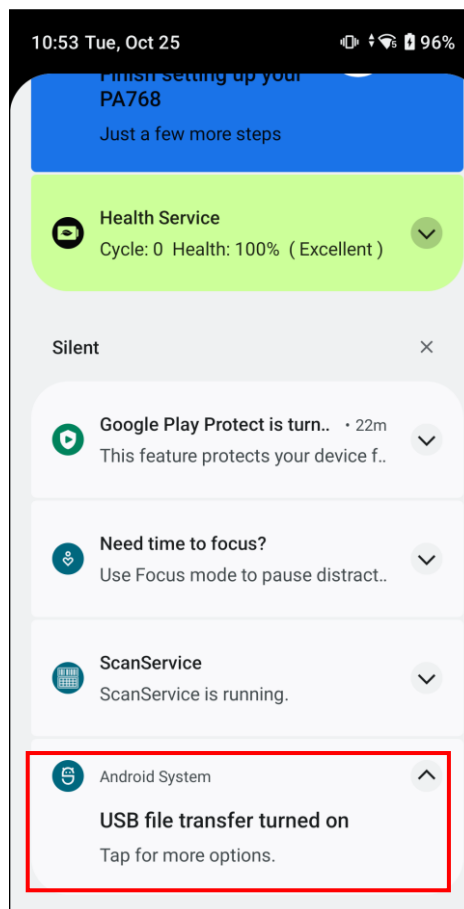
## 2.7 PC Setting

---

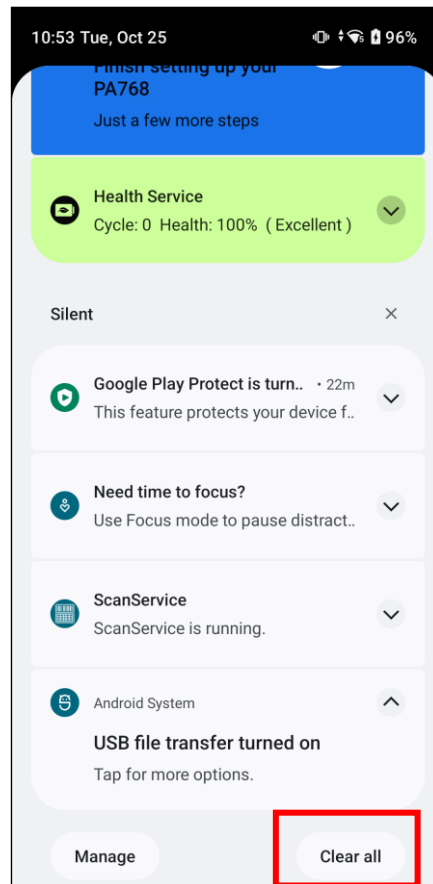
1. Connect PA768 to your computer with the USB type C cable. Your computer will recognize it is USB charging.



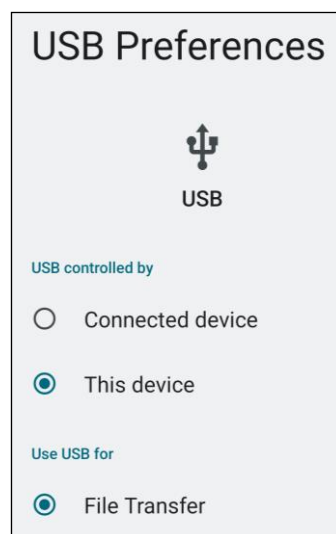
2. Slide down from top, the system will show as follow picture, then you can tap on **Android System Charging this device via USB**.



*Note:* If you cannot find the Android System Charging this device via USB notification in step 2, click on CLEAR ALL and try again.



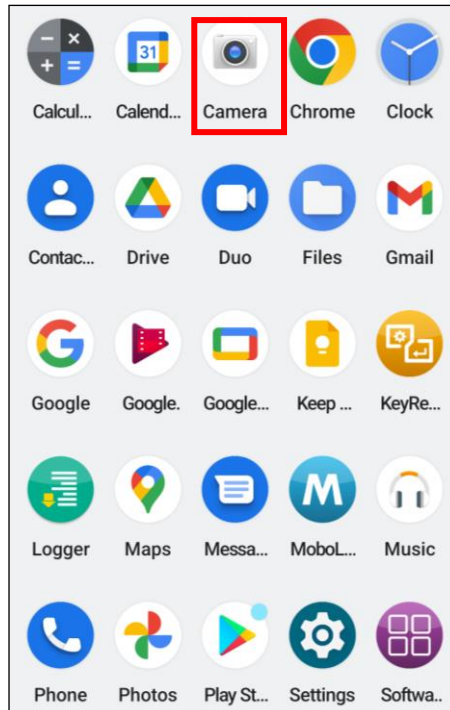
3. Then you can select File Transfer.



## 2.8 Camera Setting

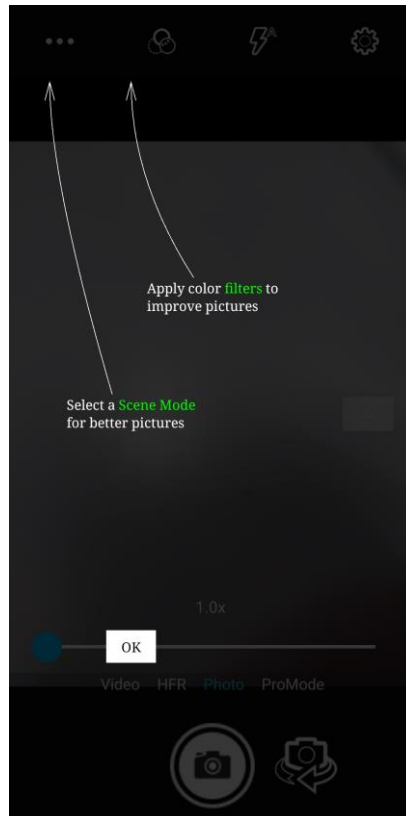
---

1. Scroll the screen from down to top to reach the APPS, and tap **Camera**.




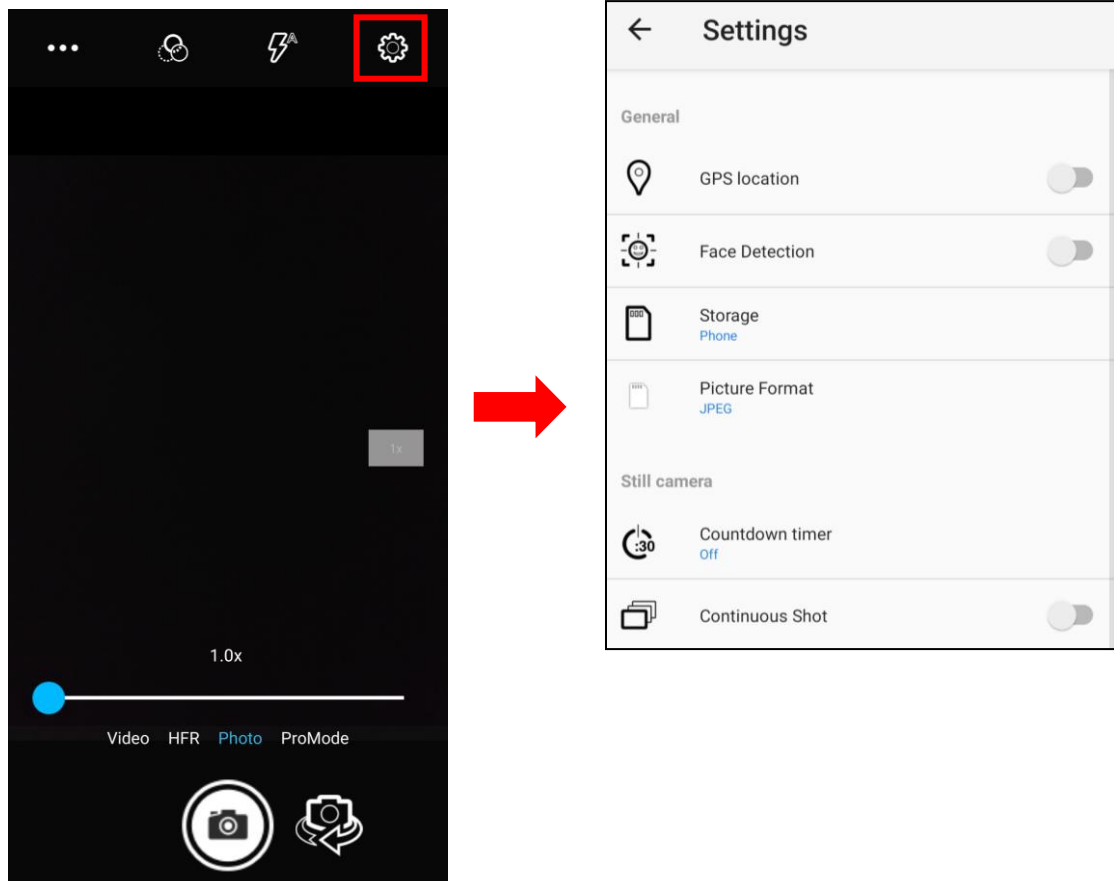
## 2.8.1 Introduction

For the first time turn on, the screen will show a brief introduction about camera settings.

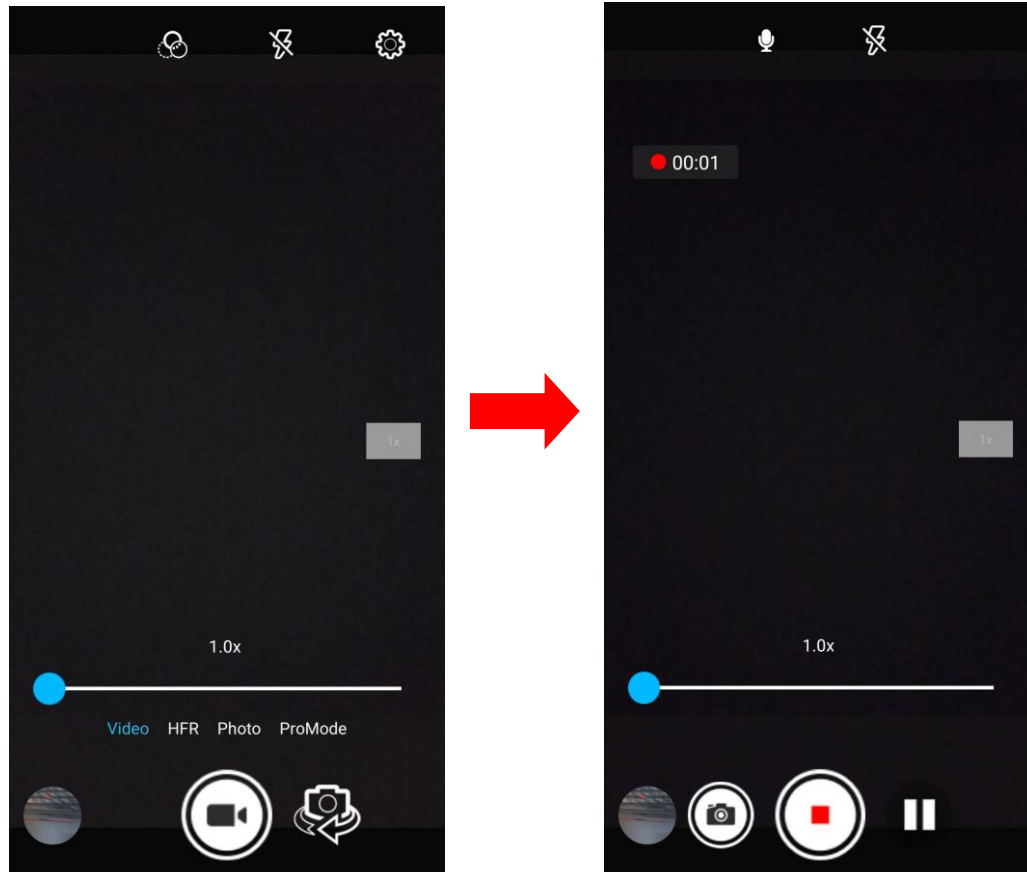


## 2.8.2 Settings

Please tap  to enter the settings section.



3. Once tap the record button, it will start recording.

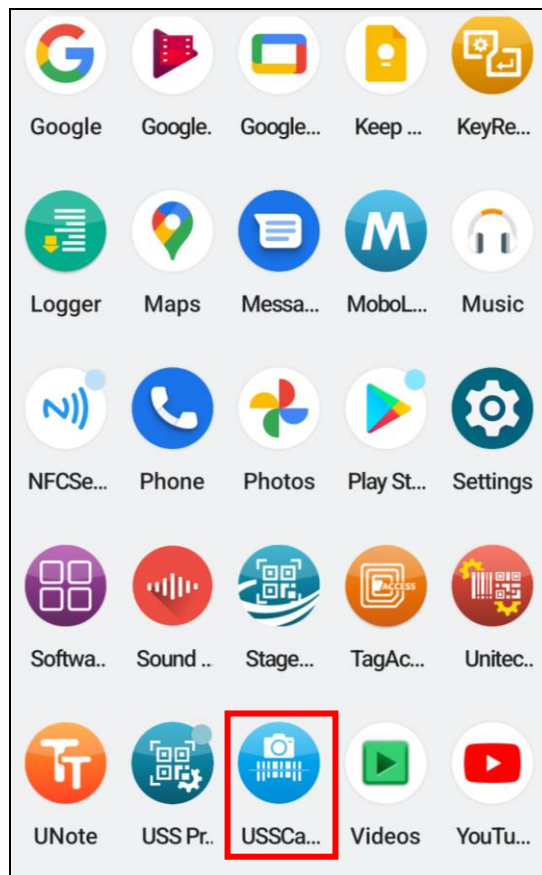




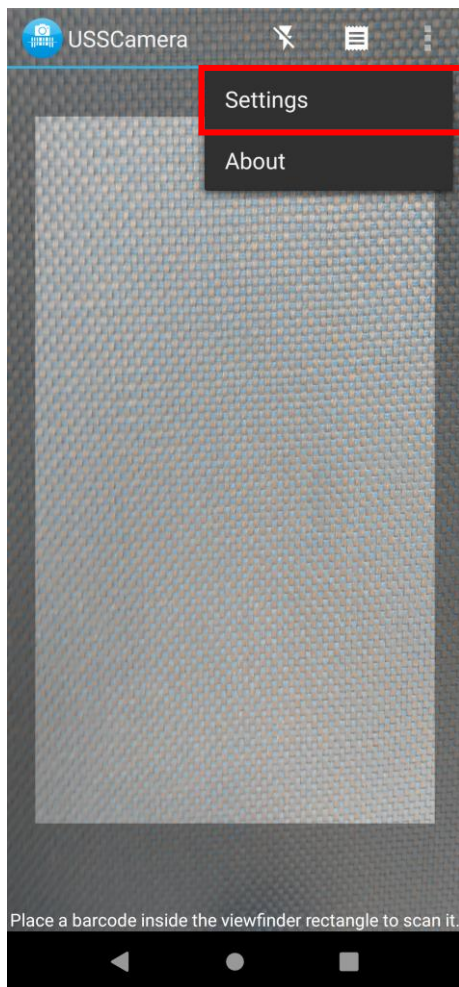
## 2.9 USS Camera

---

1. Scroll the screen from down to top to reach the APPS, and tap **USSCamera**.



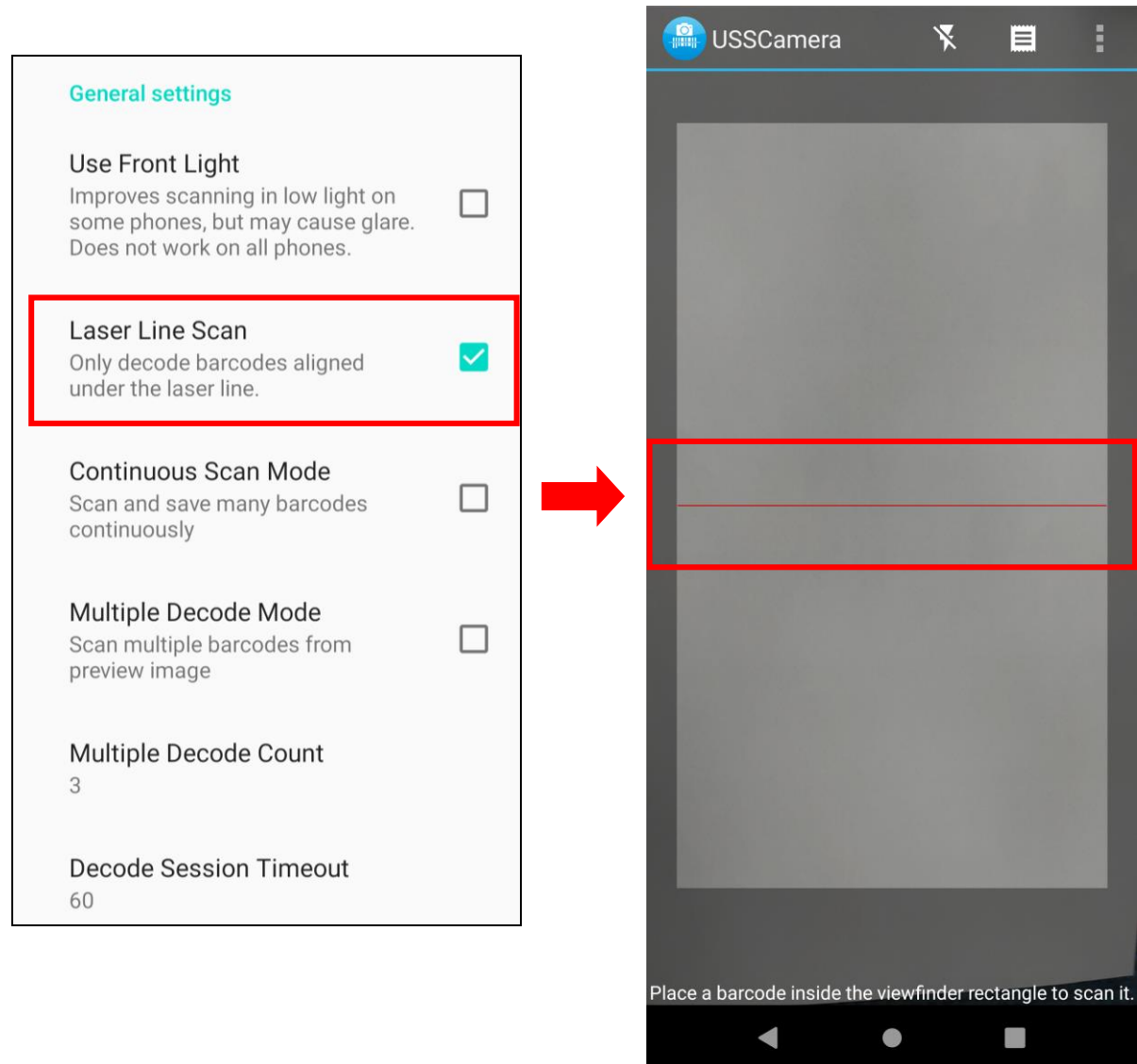
2. Select the types of barcodes from the settings.



When scanning for barcodes, decode...	
UPC-A	<input checked="" type="checkbox"/>
UPC-E	<input checked="" type="checkbox"/>
EAN-13	<input checked="" type="checkbox"/>
EAN-8	<input checked="" type="checkbox"/>
Code 39	<input checked="" type="checkbox"/>
Code 93	<input checked="" type="checkbox"/>
Code 128	<input checked="" type="checkbox"/>
ITF	<input checked="" type="checkbox"/>
Codabar	<input checked="" type="checkbox"/>
RSS-14	<input checked="" type="checkbox"/>
RSS-Expanded	<input checked="" type="checkbox"/>
QR Codes	<input checked="" type="checkbox"/>
Data Matrix	<input checked="" type="checkbox"/>

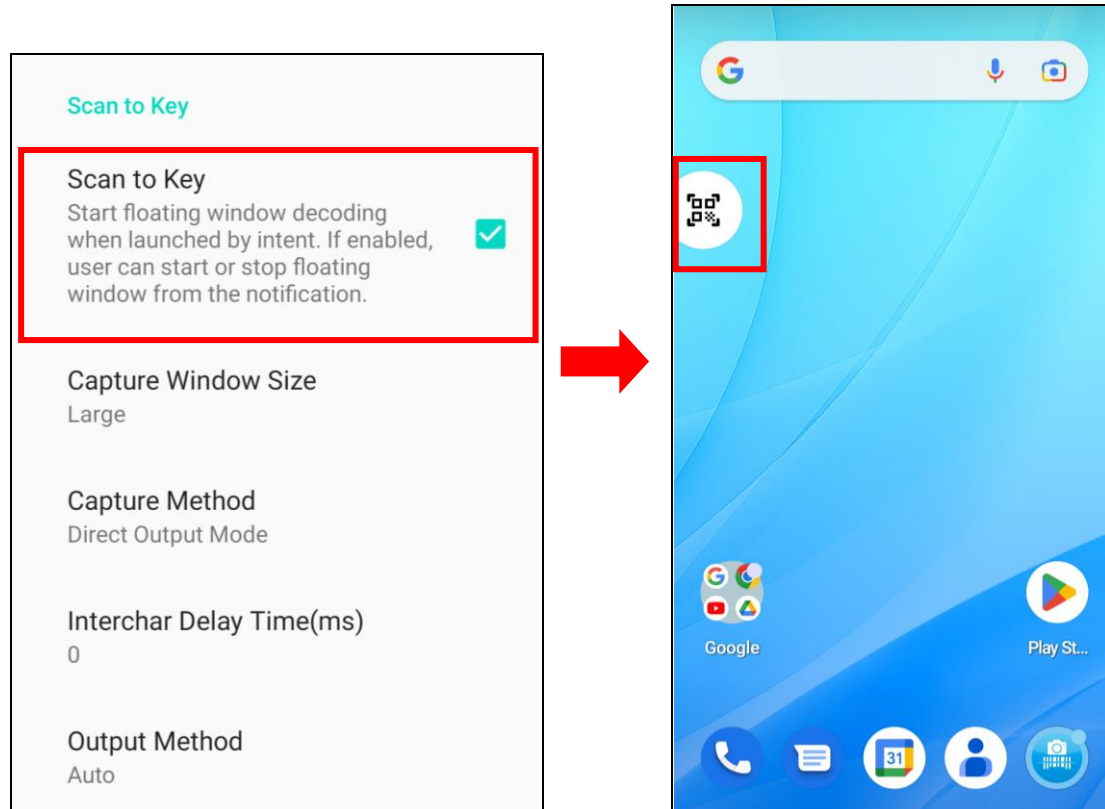
## 2.9.1 Laser Line Scan

When you select Laser Line Scan, it means only barcodes aligned under the laser line will be decoded.



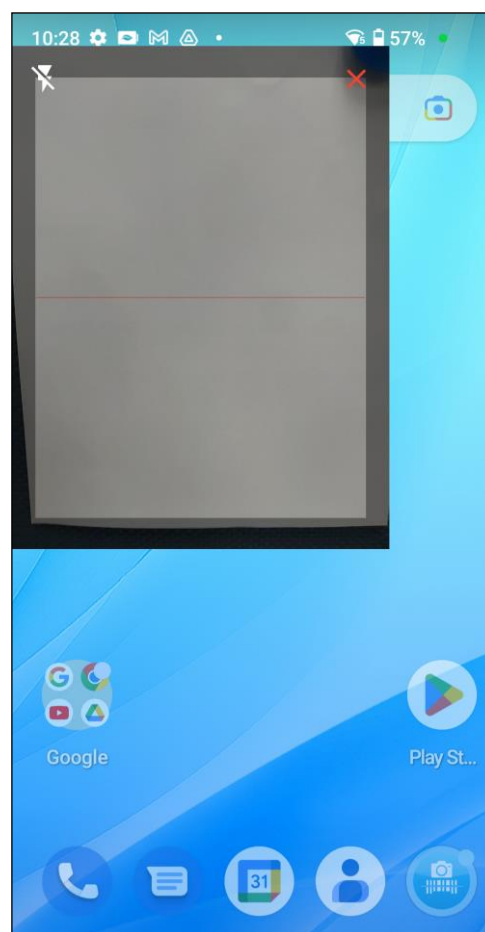
## 2.9.2 Scan to Key (floating window)

By selecting Scan to Key, start floating window decoding when launched by intent. If enabled, user can start or stop floating window from the notification. The icon will appear on the main screen.



3. The floating window will appear on the main screen.

**Note:** To close the floating window, simply by not selecting the Scan to Key.



## 2.10 Performing a Hardware Reset

---

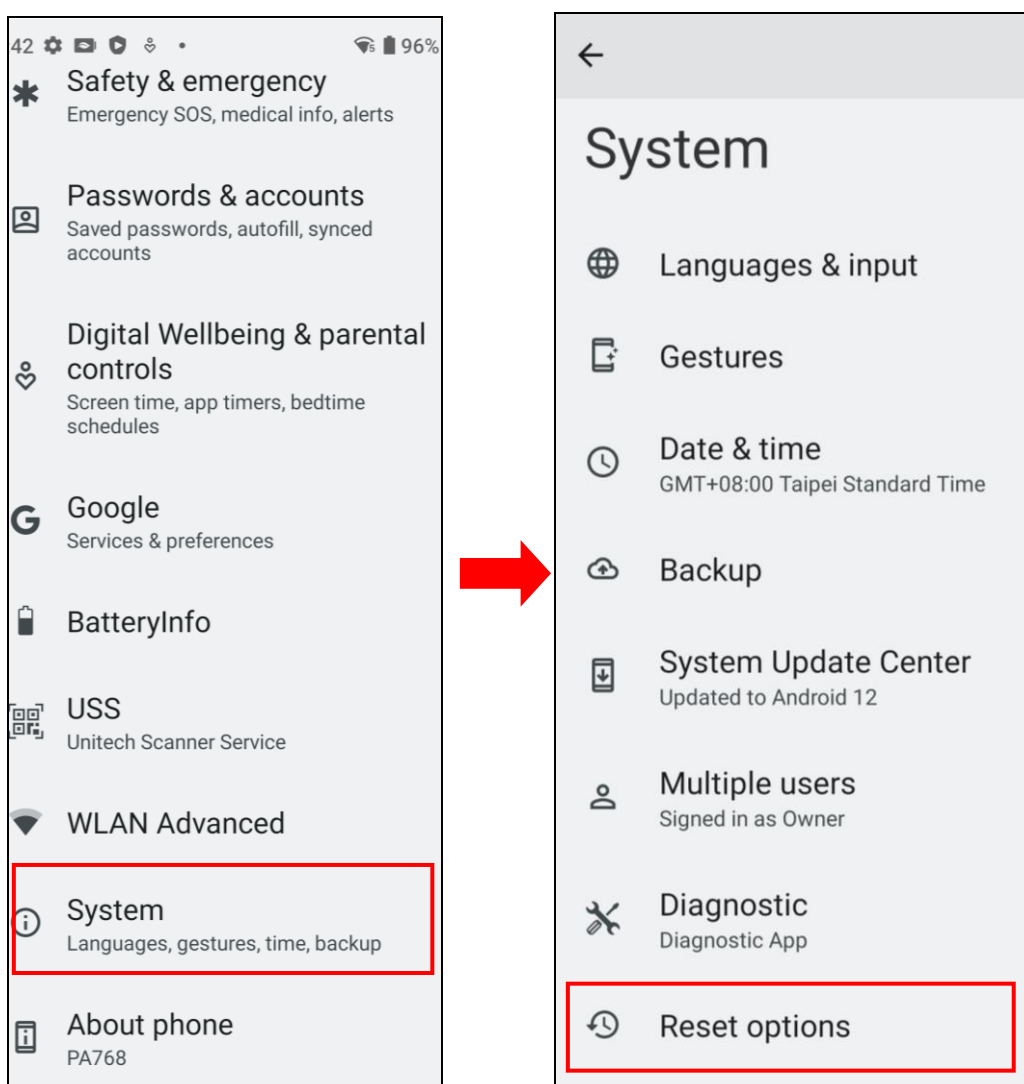
You may have to perform a reset if the device freezes (i.e., the PA768 no longer responds to the buttons or tapping on the screen). Long press and hold the **Power button** around 10 seconds to restart the device.



## 2.11 Performing Factory data reset

1. On the main screen, scroll the screen from bottom to top to reach the APPS,


 and tap **Settings** → **System**, then **select** Reset Options.



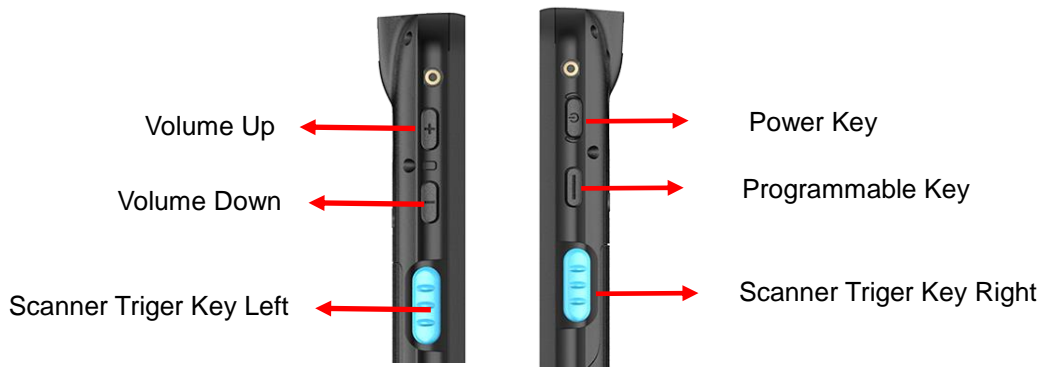
Note: When you select **Erase all data (factory reset)** in the **Reset Options**, it will erase all folders.




## 2.12 KeyRemap

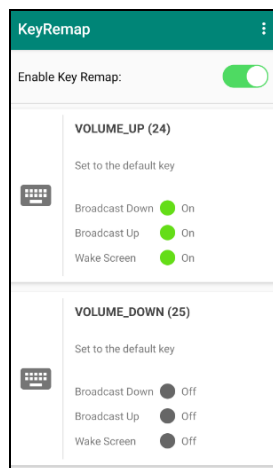
The PA768's keys can be programmed for users to be able to perform different functions or applications.

Four options to use key remap functions: Volume\_Up, Volume\_Down, Programmable Key 1, Scanner Triger Key Left and Scanner Triger Key Right.



### 2.12.1 Remap a key

On the main screen, scroll the screen from bottom to top to reach the APPS, and tap KeyRemap . Select the keys to remap and enable key.



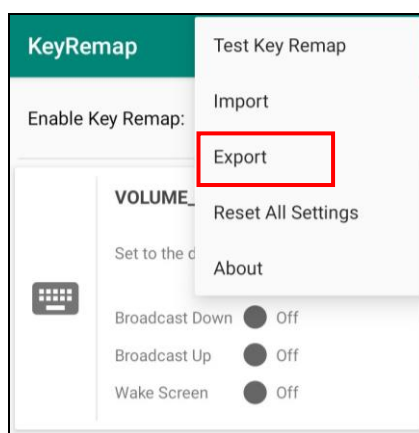
After remapping the key, remember to enable the key remap.



## 2.12.2 Export / Import a remap Key Configuration file

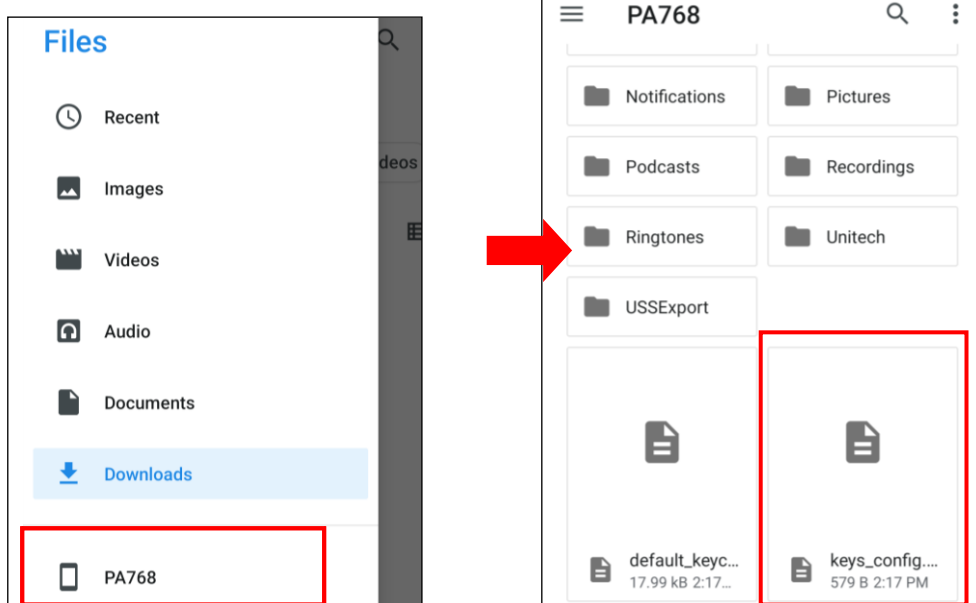
### ■ Export file

1. Tap 
2. Select **Export**



The remap Key configuration can be exported to a text file or imported into PA768.

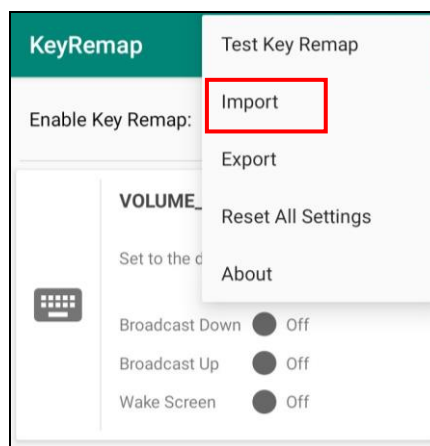
**Note:** The configuration file (keys\_config.txt) is saved in Files.



## ■ Import file

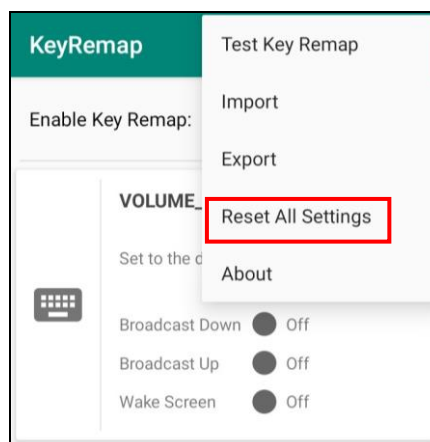
Before importing the file, please make sure the configuration file (keys\_config.txt) is in the Files.

1. Tap 
2. Select **Import**



## ■ Reset all settings

1. Tap 
2. Select **Reset all settings**

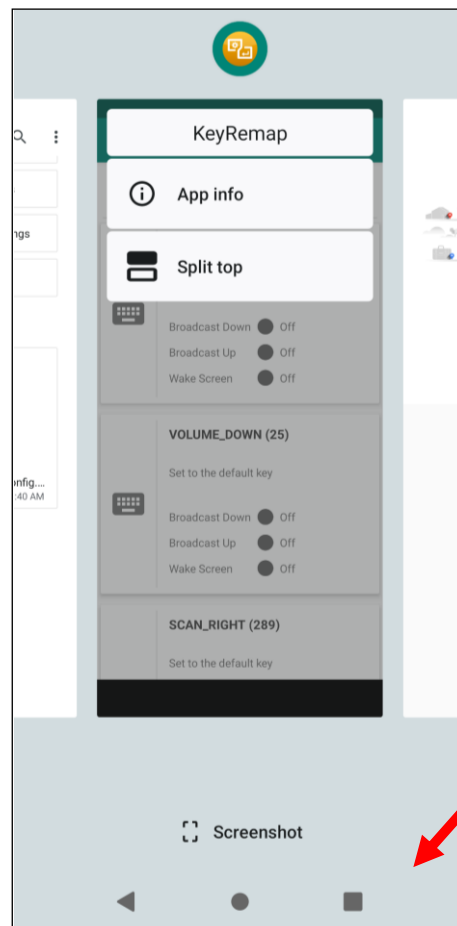


## 2.13 Split Screen

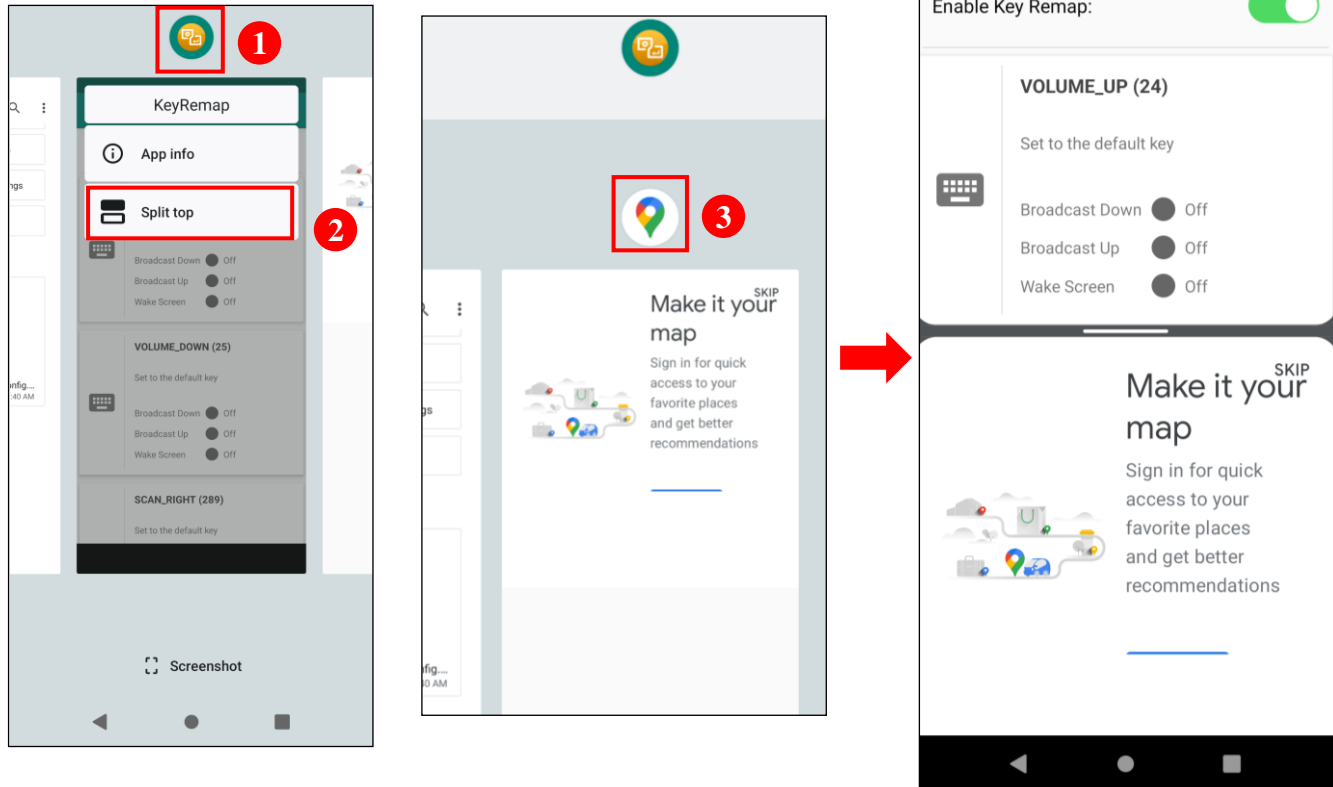
Split screen function allows you to have two apps work side by side on the same screen. Please follow the steps to enable split screen multitasking.

*Note: Some apps may not work with split-screen.*

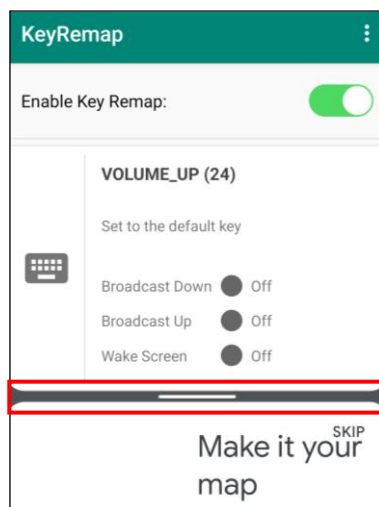
1. Tap **Background APP button** until you see those background apps on the screen.



2. Tap and hold the icon which appears above the APP thumbnail and then select "Split top." The first APP you chose to "Split top" will be on top of the screen. For another APP to show on the bottom half of the screen, simply tap on the APP thumbnail.



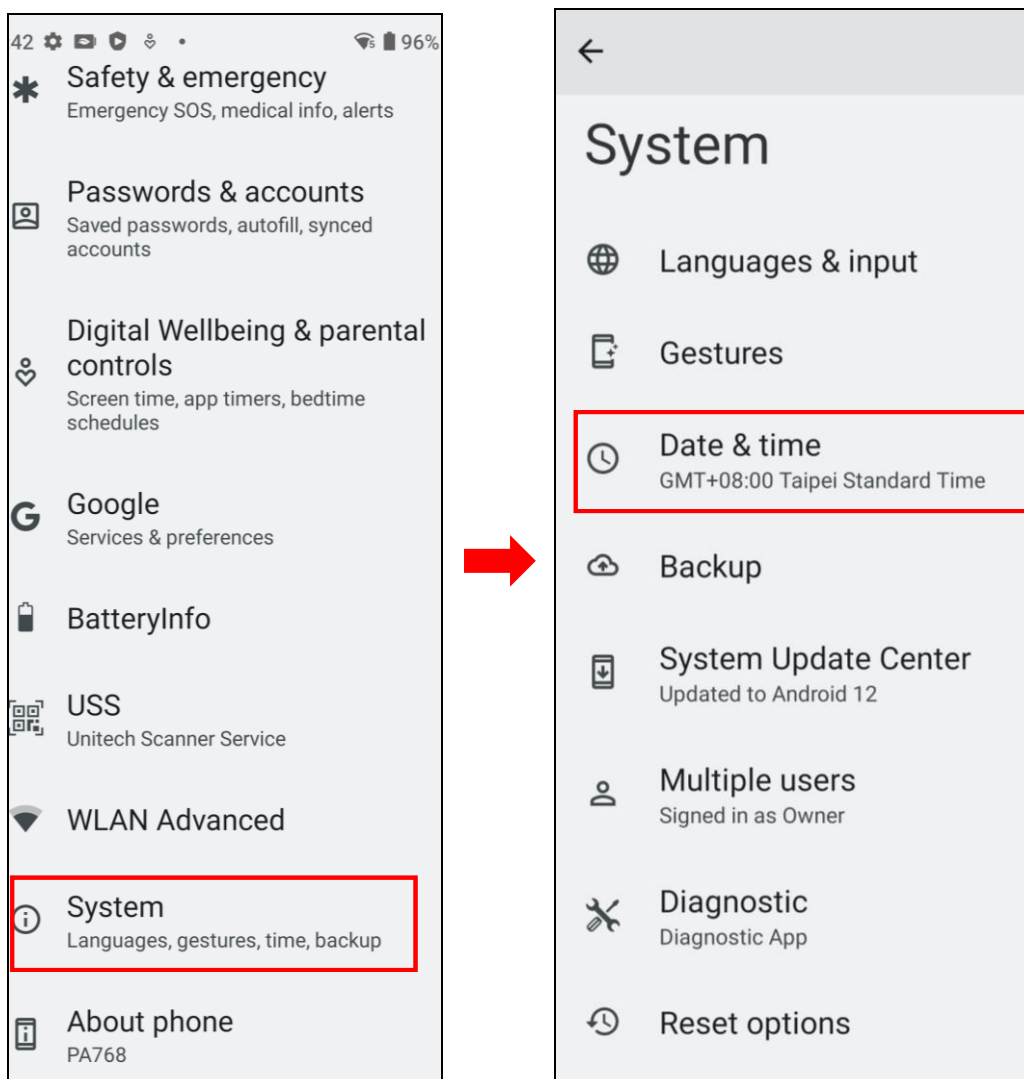
3. To cancel split screen, simply drag up or down the black bar in the middle of two APPs to expand the app that you would like to keep in full screen.



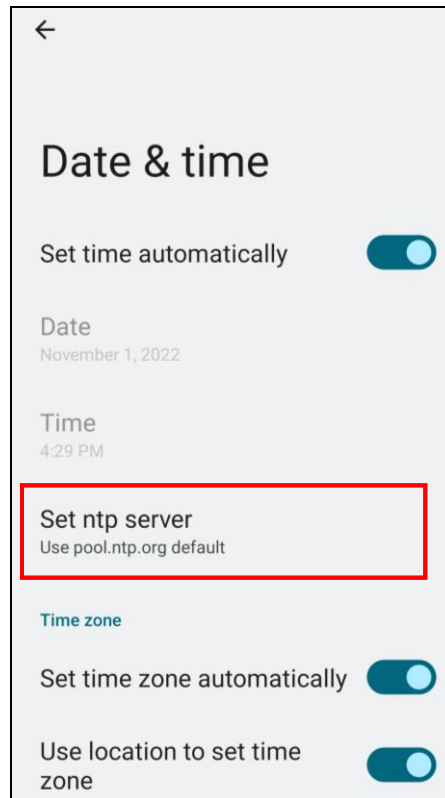
## 2.14 Network Time Protocol (NTP) Server

The Network Time Protocol is used to synchronize the clocks over the Internet. Allow the users to set the clock by using NTP Server.

1. On the main screen, scroll the screen from bottom to top to reach the APPS, go to **Settings** → **System** → **Data & time**.

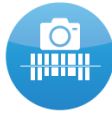











2. Tap **set ntp (Network Time Protocol) Server**.



## Chapter 3 - Introduction to Applications

### 3.1 Unitech SW Solutions (Overview)

Solution	Introduction
 <b>USS Camera</b>	USS Camera capture barcode data using the device camera and send the data to your applications as keyboard inputs. <b>Note:</b> For more details, please refer to <a href="#">2.9 USS Camera</a> .
 <b>Enterprise Keyboard</b>	Enterprise Keyboard gives various methods for user to input data to enhance efficiency and productivity.
 <b>Key Remap</b>	Key Remap reprogram physical buttons to act as another key or to launch an app.
 <b>Logger</b>	Logger provides an easy and fast way to get logs from a device.
 <b>MoboLink</b>	MoboLink can be your best MDM, MAM and MCM companions. You will be able to monitor and manage in real-time the device health of your devices, the locations, non-compliance event reports, online status, as well as manage the application & file deployments, or schedule to run StageGO configuration scripts remotely.
 <b>Software Update</b>	The Software Update app keeps all your installed Unitech software up-to-date. You can choose to automatically update all apps at once, or select only the ones you wish to update. When new apps are available for this device, you will also be able to install them in just a few taps.

Solution	Introduction
 <p data-bbox="331 600 475 633"><b>StageGO</b></p>	<p data-bbox="592 456 1347 589">StageGO is a barcode-based device staging solution from Unitech that helps IT admins to swiftly set up a device by just a few barcode scans.</p>
 <p data-bbox="316 790 491 824"><b>TagAccess</b></p>	<p data-bbox="592 651 1394 730">For versatile functions of RFID command via integrating with Unitech RFID Readers.</p>
 <p data-bbox="288 985 518 1064"><b>Unitech Scanner Utility</b></p>	<p data-bbox="592 846 1374 969">Unitech Scanner Utility is an Android application which helps users connect, configure and use a supported Unitech Bluetooth scanner.</p>
 <p data-bbox="352 1225 459 1258"><b>UNote</b></p>	<p data-bbox="592 1086 1406 1209">UNote is a simple text editor. You can use UNote to save scanned barcodes, open and view log files for troubleshooting, and much more.</p>



## 3.2 USS (Unitech scan service)

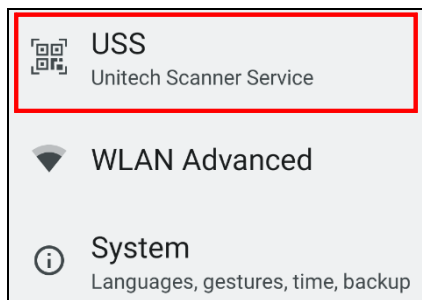
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1. On the main screen, scroll the screen from bottom to top to reach the

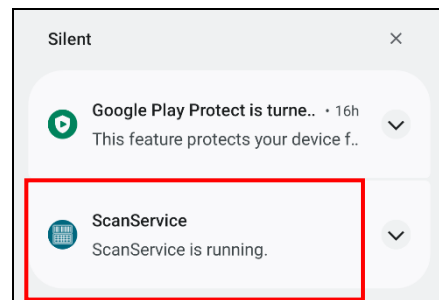


APPS, and tap **Settings** and then tap **USS** ( Unitech scan service ).

Or from the notification bar to tap USS ( Unitech scan service ).



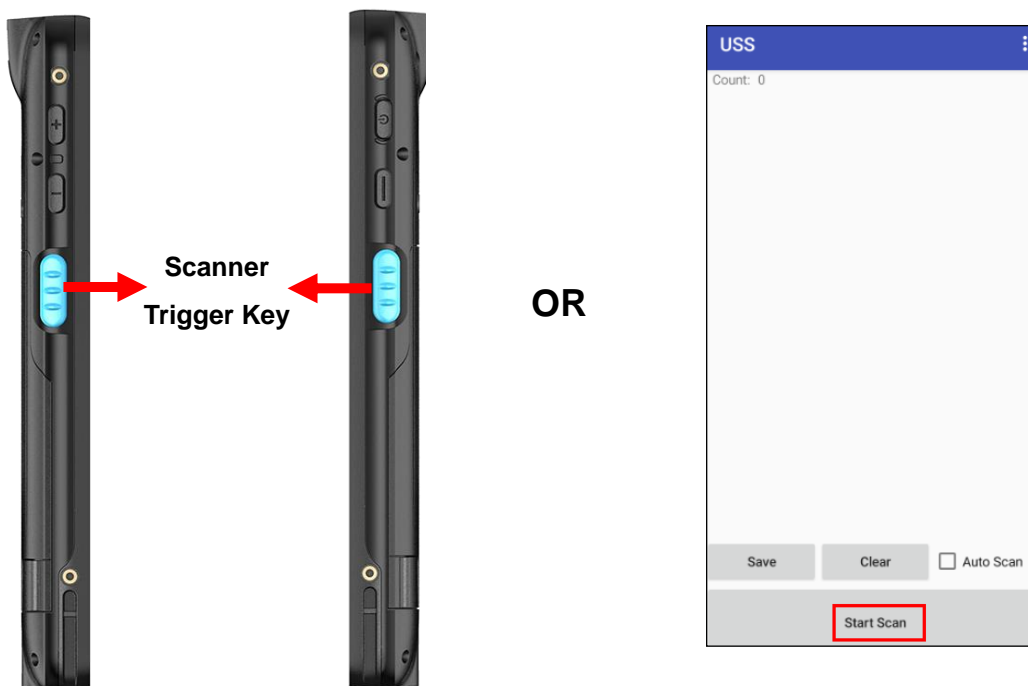
or



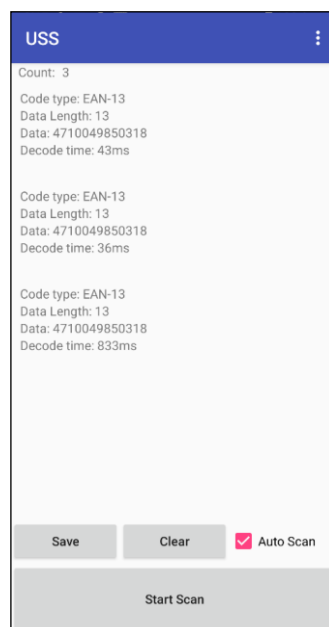
2. You now enter the Unitech scan service application.

### 3.2.1 How to scan

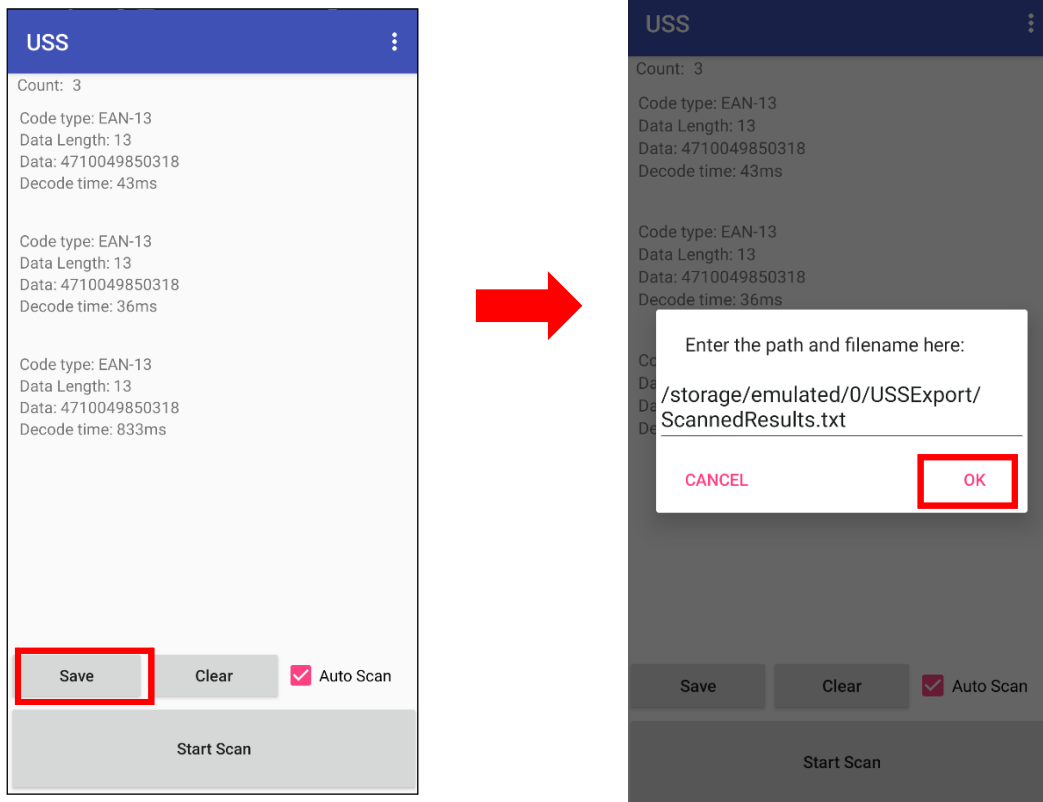
1. Aim the Barcode Scan Engine to the barcode and press one of two scan trigger keys or tap **Start Scan button**.




1. After scanning the barcodes, the barcode information is shown as below.

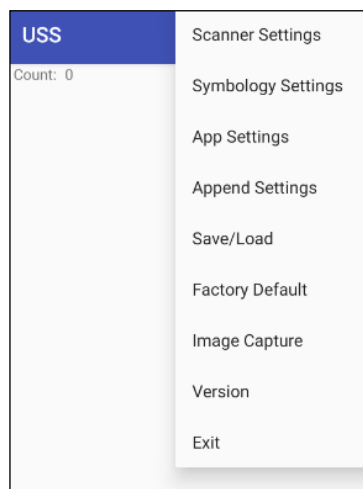


- To save the scanned data, tap **Save** and enter the path and filename, then tap **OK**.




### 3. More Options

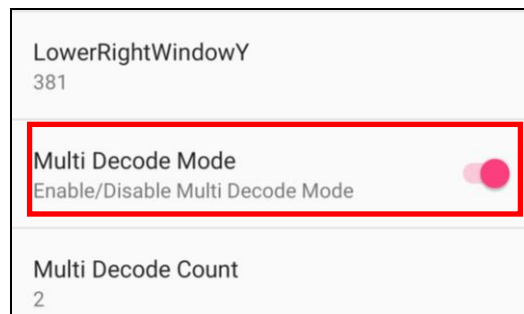
For more options and settings, please tap .



### 3.2.2 Multi Decode Scan Mode

Multi decode scan function allows users to scan multiple barcodes at once.


1. Tap  , Choose **Scanner Settings**
2. Enable **Multi Decode Mode**, and input the barcode decode count (up to 10 counts) and start multi decode scan.

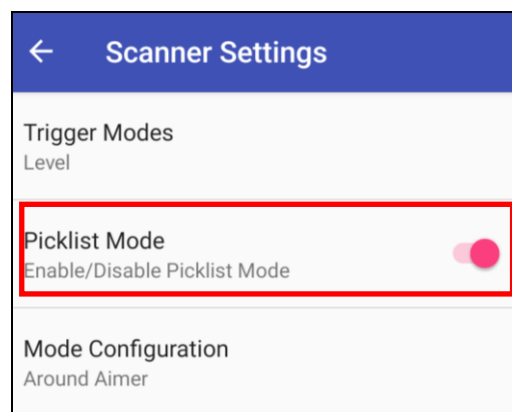


### 3.2.3 Picklist Mode

Picklist mode enables PA768 to decode only barcodes that are aligned under the laser crosshair or LED aiming dot.

For picklist mode demonstration, please click on our Youtube channel for more information : [https://www.youtube.com/watch?v=QjT2E6hxD\\_k](https://www.youtube.com/watch?v=QjT2E6hxD_k)

1. Tap  , Choose **Scanner Settings**
2. Enable **Picklist Mode**, and allows users to easily select and scan a single or specific barcode from a field of barcodes.



### **3.2.4 More information about USS**

For more information about USS, please download the document from the below link:

[http://w3.tw.ute.com/pub/cs/manual/uss/USS-RA-1-MANUAL\\_en20210326.pdf](http://w3.tw.ute.com/pub/cs/manual/uss/USS-RA-1-MANUAL_en20210326.pdf)

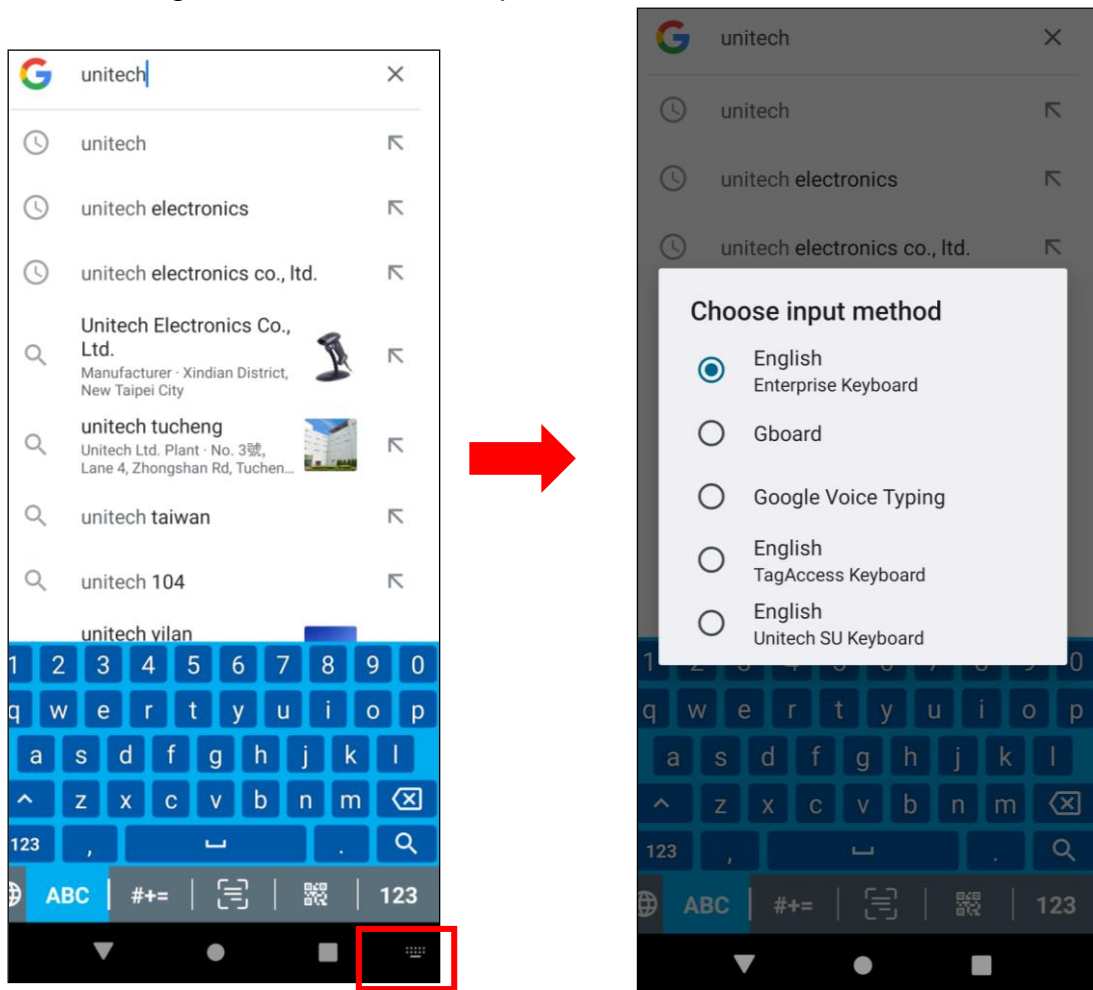
## 3.3 Enterprise Keyboard

### Introduction

Enterprise Keyboard is an AI-assisted virtual keyboard that offers both the traditional typing experience as well as the enterprise-focused typing experiences such as a dedicated number pad, dedicated symbol pad, and a tightly integrated keyboard wedge for collecting barcode and RFID inventory data. The Enterprise Keyboard also uses AI-assisted text recognition technology to enable users to extract text out of the camera image and then type them into an app.

When typing, you can select different input method.

For example, type in the searching bar first, then tap on the keyboard icon on the bottom right to select different input method.

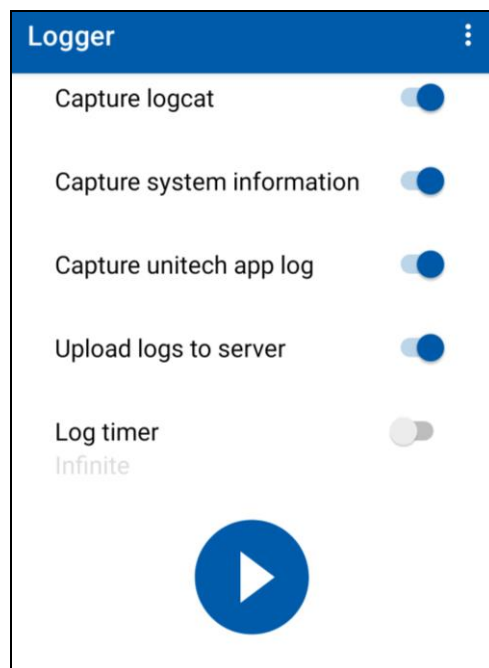


## 3.4 Logger

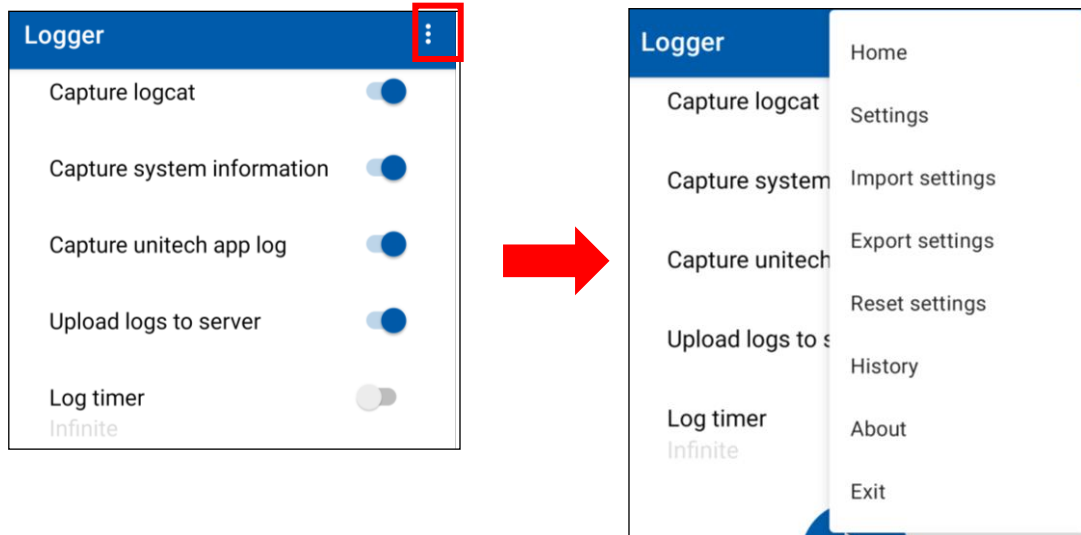
### Introduction

The Logger app offers an intuitive way to collect error logs from a device for troubleshooting. No technical skills required. Simply use the Start-Stop buttons to start recording vital system and app logs as one snapshot or as a time-lapse, and then the logs can be automatically submitted to the unitech support team for analysis.

1. Scroll the screen from down to top to reach the APPS, and tap Logger  
You will see the page below.



3. Tap on settings to view more.





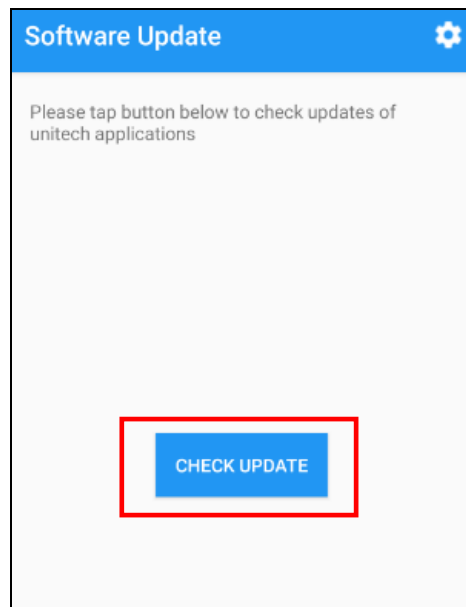
## 3.5 Software Update

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1. On the main screen, scroll the screen from bottom to top to reach the

APPS, and tap  **Software Update**

2. To update or check the latest version of each application, please tap **CHECK UPDATE.**



3. Select the Apps to be updated, and click Update.

### 3.5.1 Software Update Settings

Tap  for more settings on Software Update.



- **Operation Mode**
  - Normal Mode → User can manually select apps to update
  - Auto Mode → Apps are automatically checked and updated each time Software Update is run.
  - Silent Mode → Similar to Auto Mode, but the GUI is hidden when updating (Software Update is run in the background).
- **Update Policy**
  - App Updates → Configure whether all or only the selected apps are updated, or turn off App Updates altogether.
  - New App → Configure whether new apps are being installed when they become available for your device.
- **Passcode** → Configure a password to access the Software Update Settings menu.
- **Import / Export / Reset** → Import or Export settings to a file, or Reset all settings to factory default. You can find the exported settings file in the Internal Storage: /Unitech/usus/usus\_config.stxt

## 3.6 StageGO

StageGO is a barcode-based device staging solution from Unitech. StageGO helps IT admins to swiftly set up a device by just a few barcode scans.

### Features

- Swift and effortless device staging for Unitech Android Mobile Devices.
- Device staging becomes more accessible, time-efficient, and secure.
- Complete device control at your fingertips.
- Data Compression.
- Security and Privacy.
- No installation required.

Using StageGO to configure a device is in 3 simple steps:

### Step1: Create Script –



#### Create Script

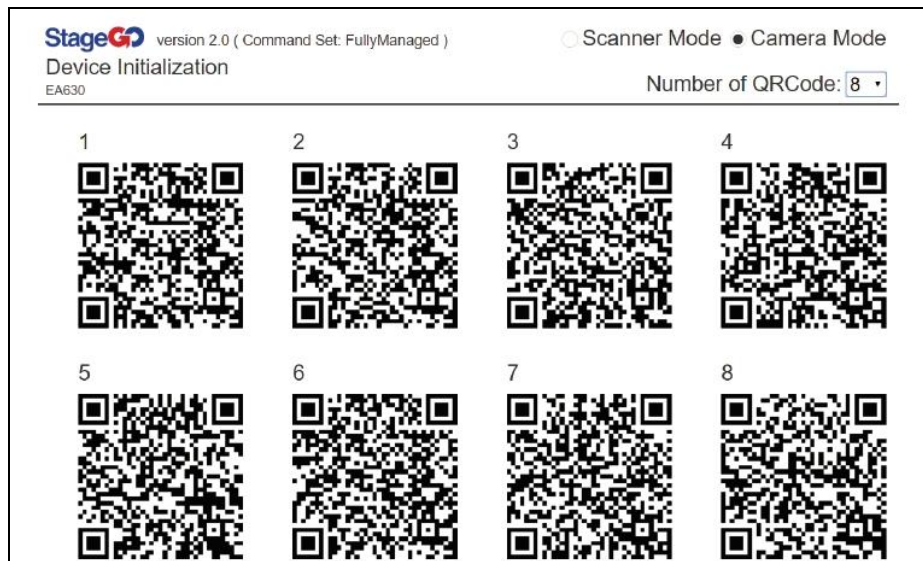
It all begins with IT staff creating a StageGO Script on the easy-to-use and secure web-based Script Editor. A StageGO script can contain one or more staging commands such as change system settings, connect to WiFi, download files, install apps, or set restrictions, etc.





### Print QRCode

This is when the script is ready to be transformed into QR Codes and get printed out for distribution to the fields. The QR Codes are always encrypted so that sensitive information such as username and passwords will stay hidden. You can also choose to save your script as an encrypted file and share it with a colleague.



**Step 3. Scan QRCode:**



Scan QRCode

The device user scans all the QRcodes into the StageGO app, or alternatively load script from file. The script will then automatically start to execute. Users will be informed of the progress of the execution, and should any execution errors occur, the execution report can be shared to IT admins for investigation.

