



For Android™ 9

Enterprise Mobility

PM90

User Manual

User Manual

Please note your phone is battery-embedded design with removable battery and battery cover. Unauthorized personnel are strictly prohibited from disassembling the phone. Make sure to use only the power adapter (5V 2A Output AC/DC) that came with PM90.

In case your phone does not work as expected, you are strongly recommended to restart it by pressing and holding the power button for at least 12 seconds until the startup screen appears. If your phone has encountered a serious error and cannot be recovered, you should reset your phone to factory settings by using the menu, either “Backup & Reset”, or “Factory Reset”. For more details, please refer to “[Factory data reset](#)” section.

Note: Please be cautious while performing the factory data reset. Because this will erase personalized settings and data saved in your phone, such as SMS, Contacts, Music, etc.

Screenshots in this manual may different compare with latest Android App version

Rev 07

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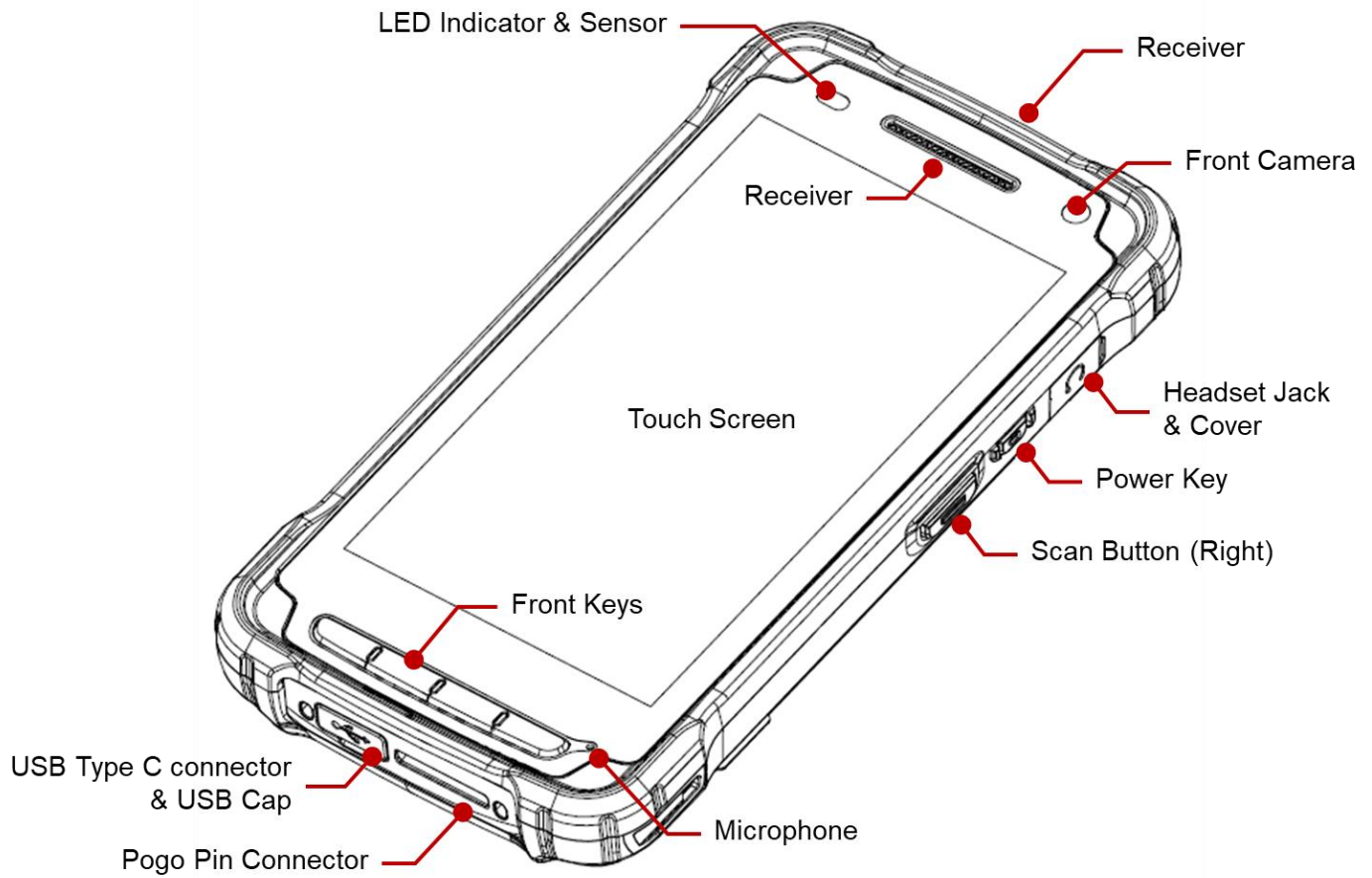
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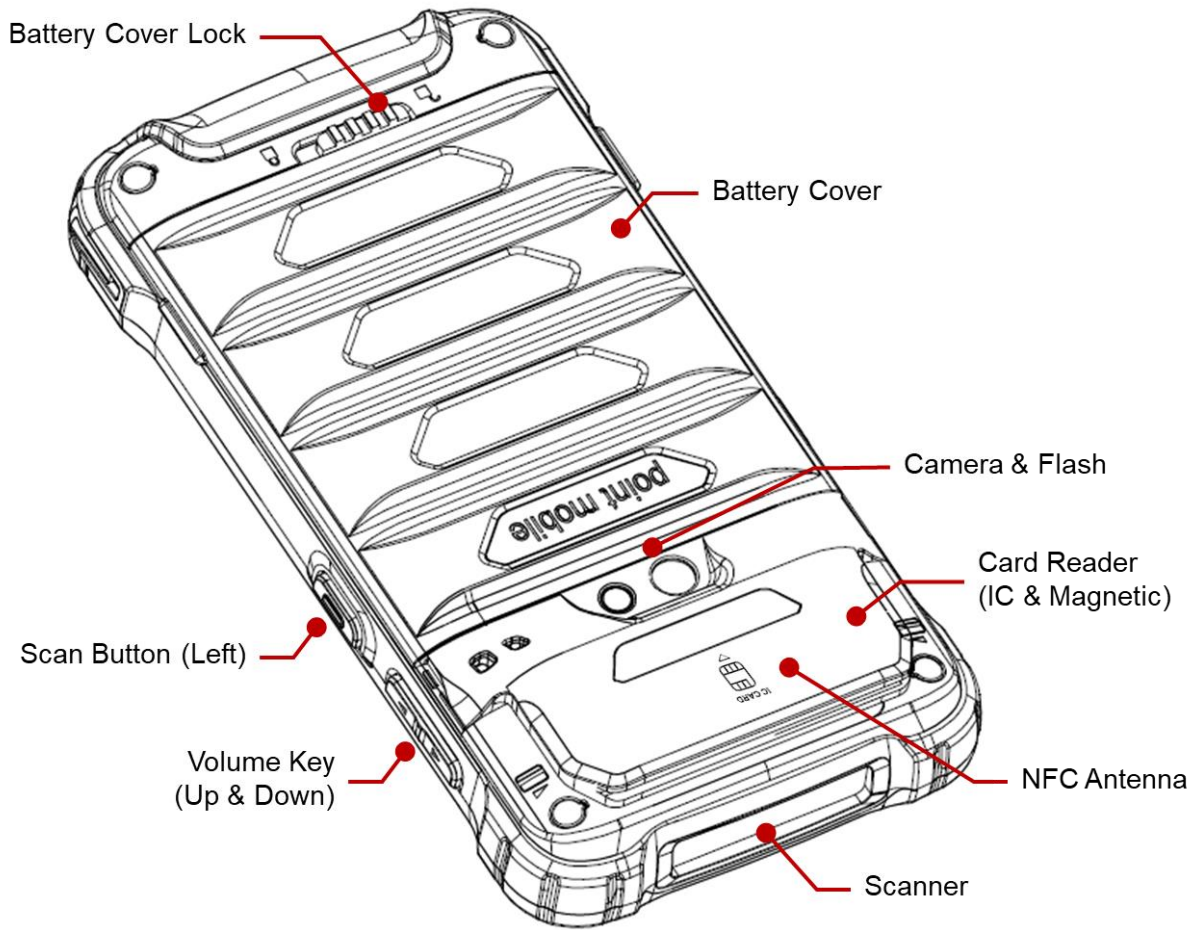
Major Parts

Getting Started



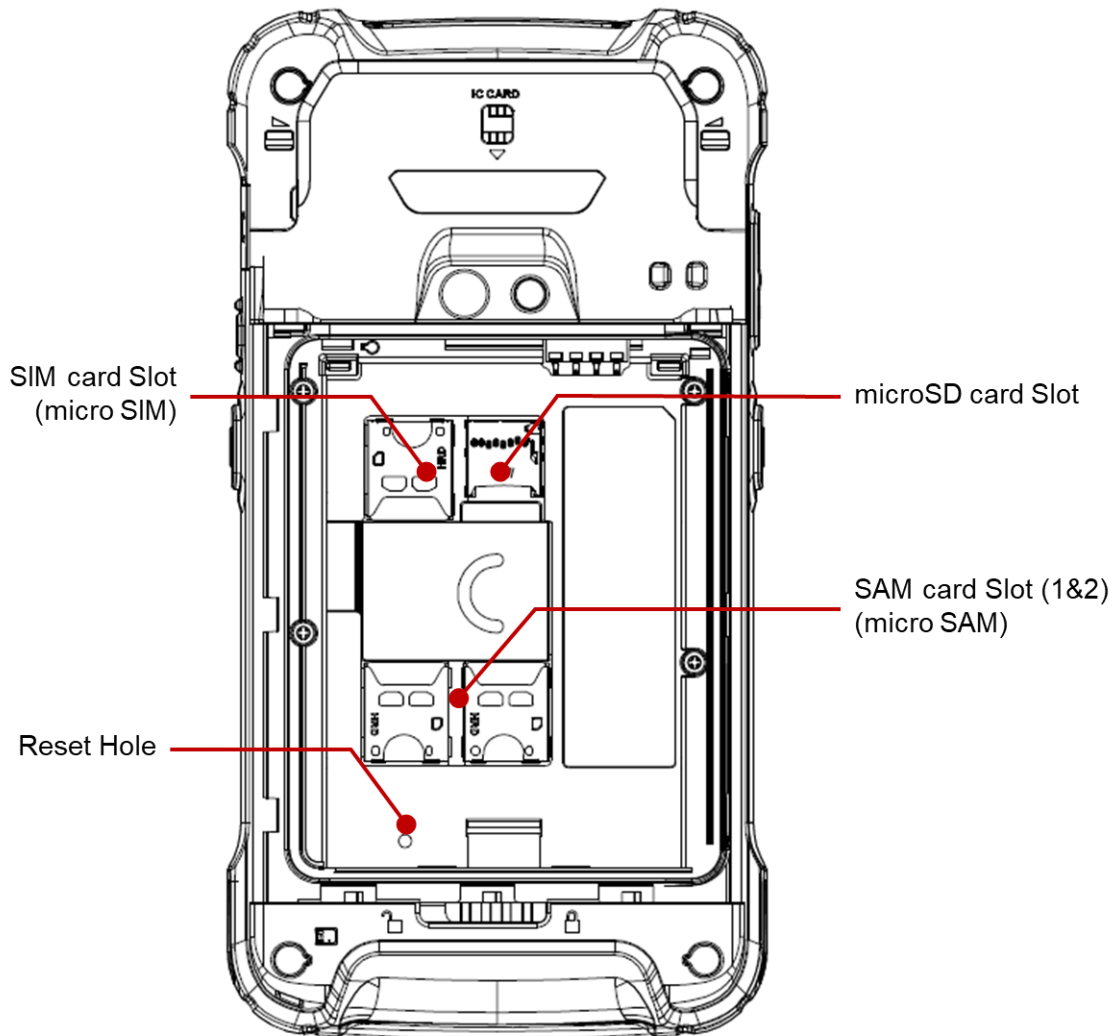
Major Parts

Getting Started



Major Parts

Getting Started



Note 1: PM90 only supports the micro SIM cards. Do not insert a size modified card with SIM adapter. Size modified card is thicker than the standard Nano SIM card and may damage the card slot



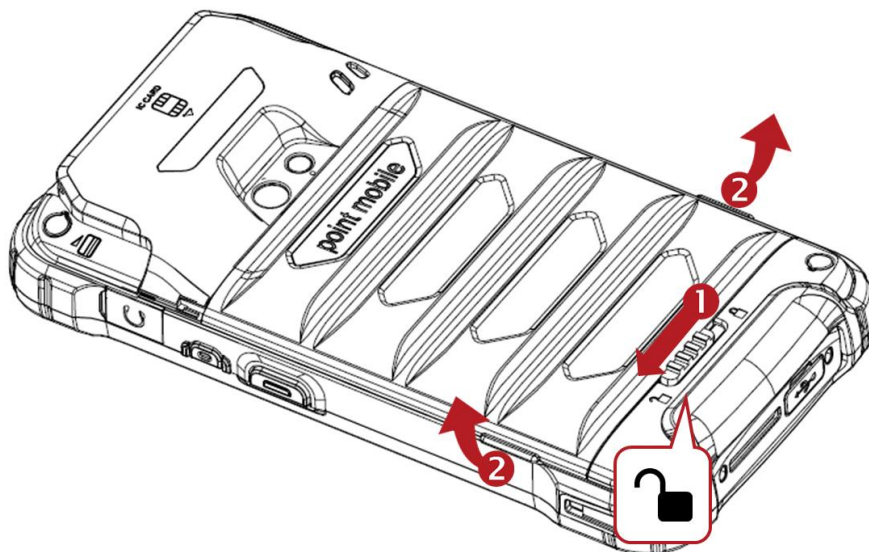
Note 2: PM90 supports up to 32GB microSD card

Setup PM90

Getting Started

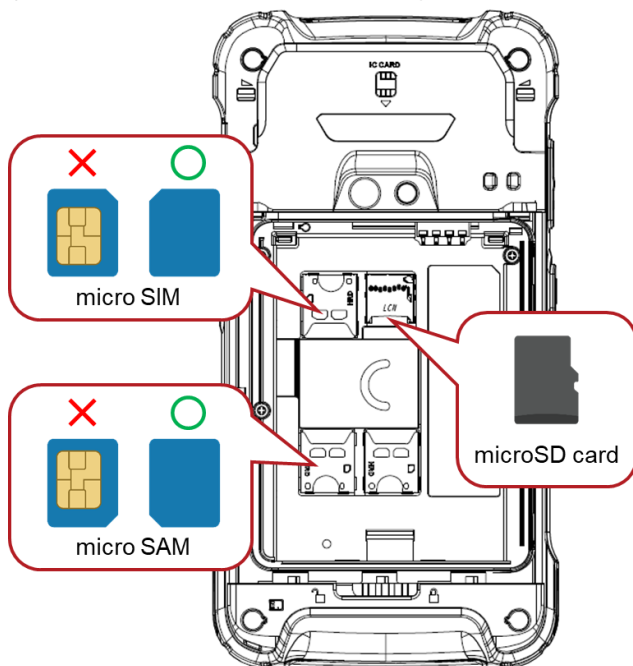
Remove the Battery Cover

1. Slide **Battery Cover Lock** to the **Unlock**  position
2. Pull up the **Battery Cover** from bottom side area



Install micro SIM card, micro SAM card and microSD card

1. Insert the micro SIM card, micro SAM card and microSD card into each slot
(Gold contact should face down)



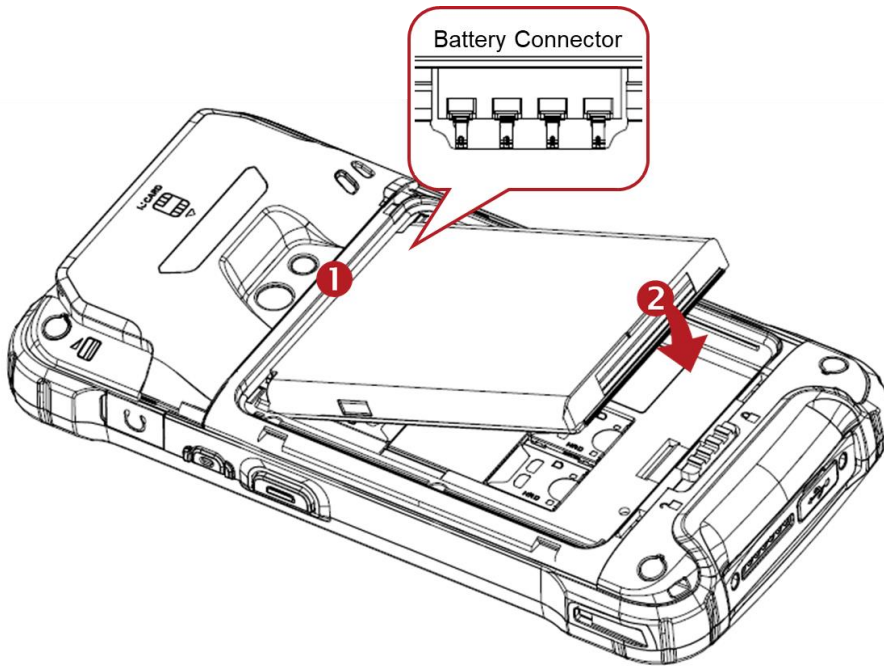
2. To remove the card, gently slide it out of the slot.


Setup PM90

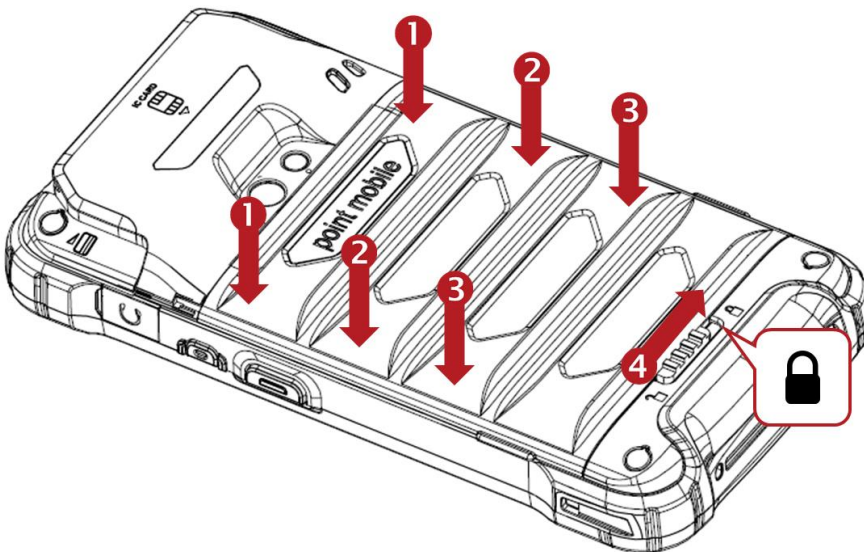
Getting Started

Insert the Battery

1. Insert Battery from the top first, and then put in the bottom. Make sure battery contact **Battery Connector**



2. Insert the Battery Cover from the top area first and then put in bottom area. Press Battery Cover with both hand and Make sure **Battery Cover Lock** is **Lock**  position



Turn On/Off PM90

Getting Started

Turn On

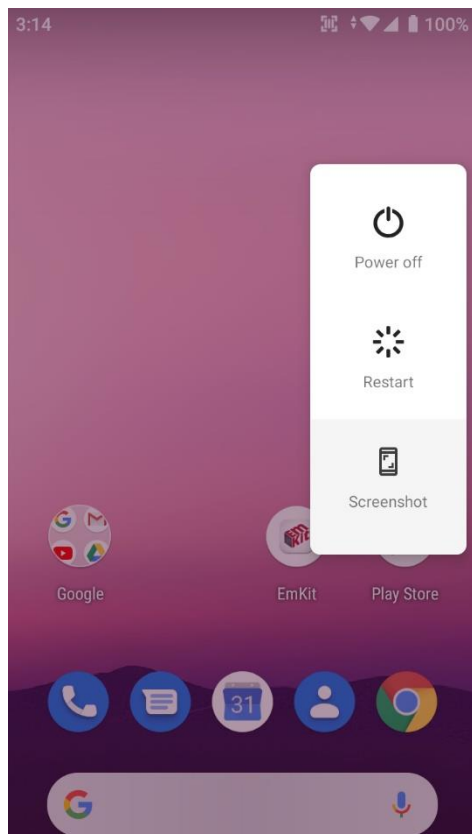
1. Press and hold the **Power Key** for a few seconds
2. When PM90 enter to the boot mode, it will display “SMART BEYOND RUGGED” logo
3. Release the Power Key and wait until PM90 finish booting

Note: If you cannot turn on your PM90, please try below steps

- To turn on PM90, battery needs to be charged certain level. Please charge first
- Press and hold the “Power key” for over 12 seconds to force reboot
- Press and release the Reset Hole and then turn on PM90 again

Turn Off

1. Press and hold the “Power Key” until you see the power menu



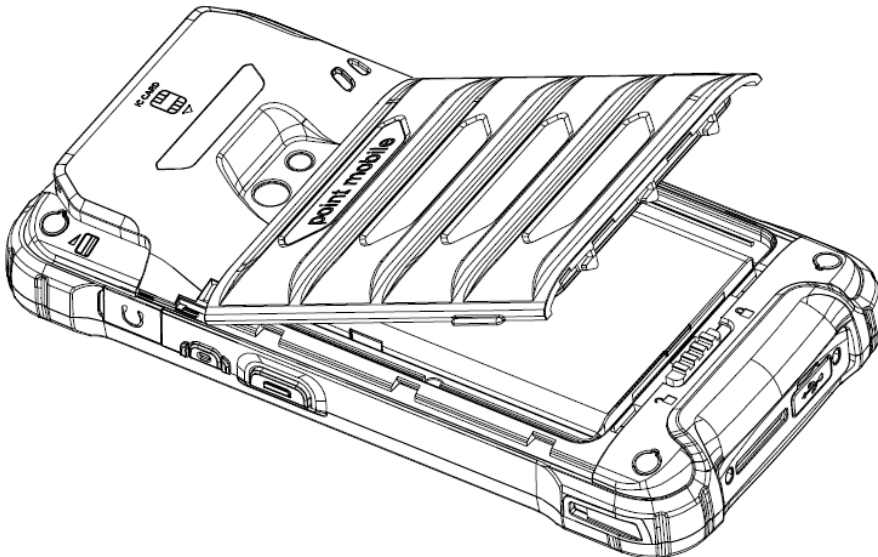
2. Touch **Power Off**

Hot swap the Battery

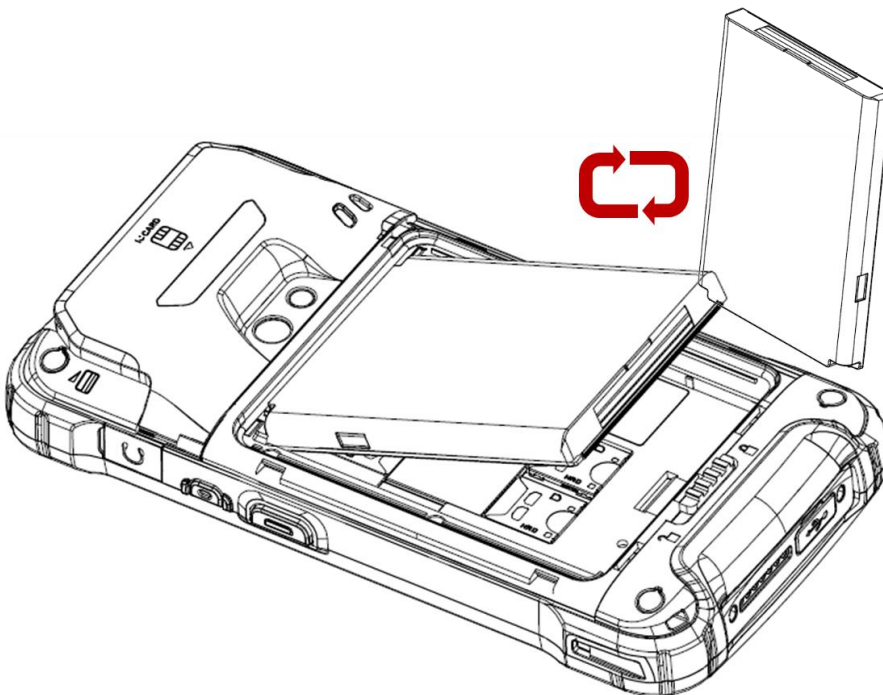
Getting Started

When Battery level is low, you can replace the battery without turning off and on the PM90

1. Remove Battery Cover




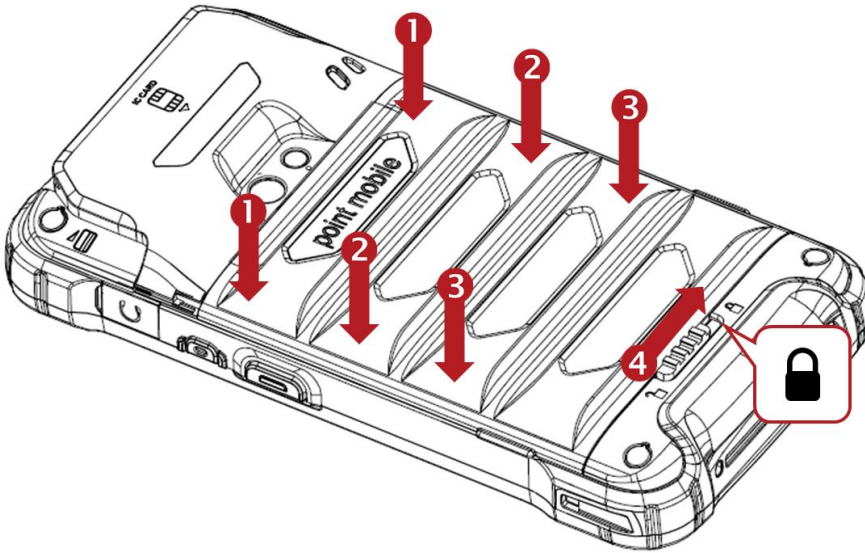
2. Replace the Battery



Hot swap the Battery

Getting Started

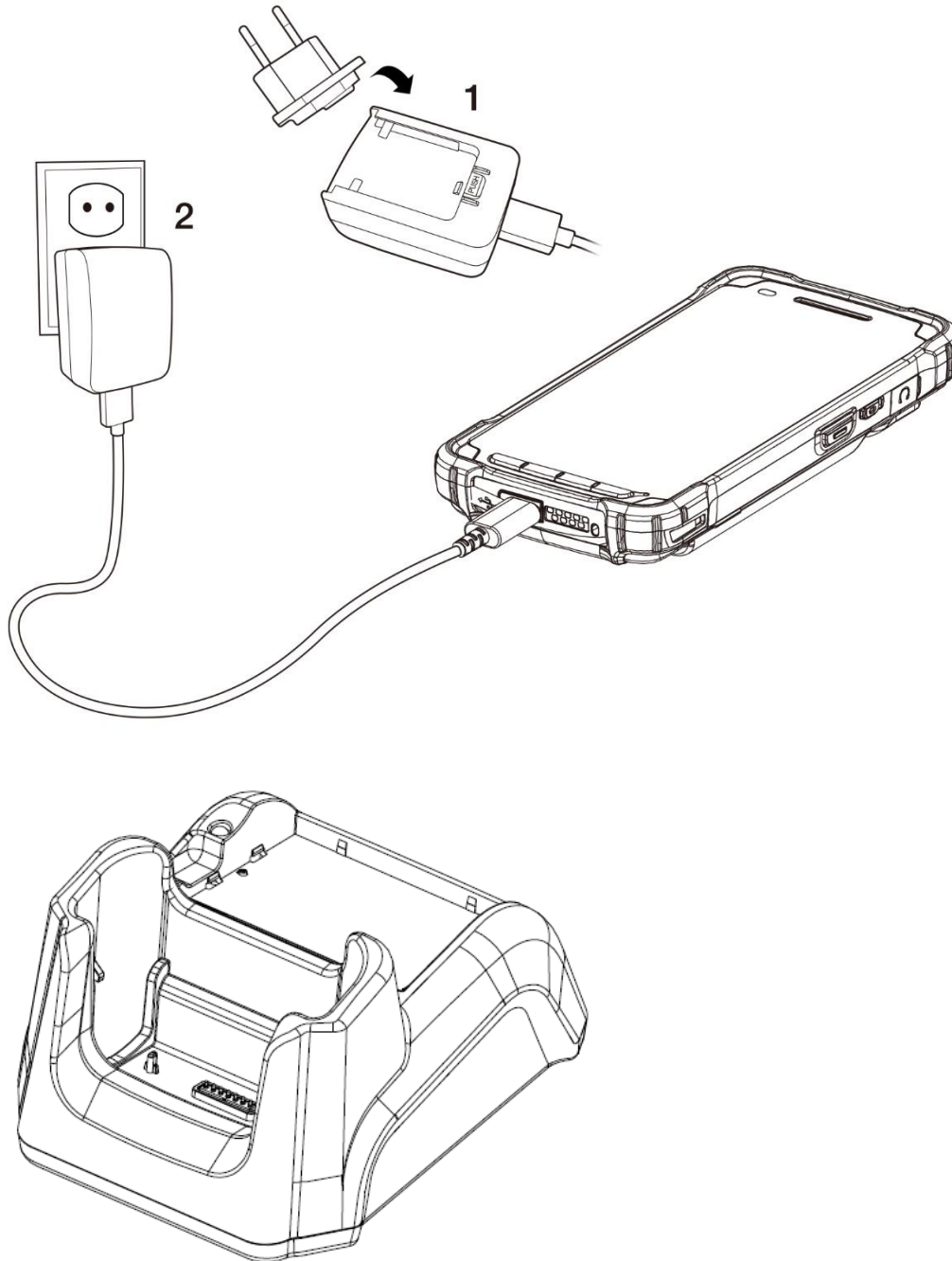
3. Close the Battery Cover firmly. Make sure **Battery Cover Lock** is **Lock**  position



Charge PM90

Getting Started

1. Assemble the country code and AC adapter first. Connect USB cable to assembled AC adapter
2. Connect another side, USB type C connector to the PM90 and apply the power from wall socket



You can also charge the PM90 with cradle (optional accessory)

Charge PM90

Getting Started

3. LED indicator will display charging status

Steady Red	Battery is charging or Battery level is low
Blinking Red	Battery level is critical low
Steady Green	Battery is fully charged

Battery specification

Standard Battery	2,900mAh 3.85V
Extended Battery	5,800mAh 3.85V
Backup Battery	60mAh 3.7V
Charging time	Standard Battery : About 4 hours Extend Battery : About 6 hours

Note: Always use an original charger and cable from the Point Mobile. Other chargers and cables may damage PM90.

In addition, make sure connector, charger, cables are not wet

Smart Charging

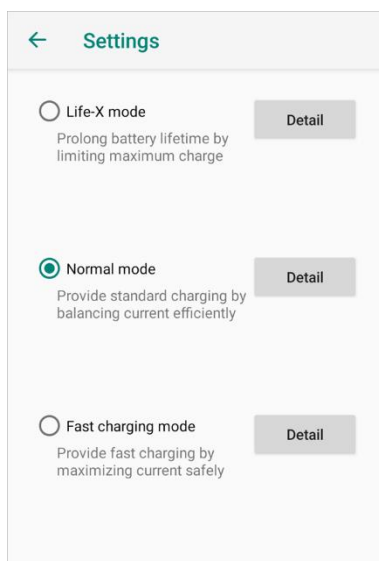
Getting Started

PM90 supports three charging modes to provide optimal battery performance for your work. Each mode controls the charging current or the maximum charging level to meet the needs.

When the device is charged to the maximum charging level, the device turns to a fully charged state (Power LED lights green).

- **Life-X mode**
 - Limits the maximum charging level to extend the battery lifetime.
 - Maximum charging level: below 100%
- **Normal mode (Default)**
 - Standard charging mode.
 - Maximum charging level: around 100%
- **Fast charging mode**
 - Charges the device faster than the other modes by maximizing the current safely.
 - Maximum charging level: around 100%

To change the smart charging mode, go to **Settings > Battery** or **EmKit > EmSettings**, and select **Smart Charging**. Find detail information of each mode in **Detail**.



Use a keypad

Learning the basics

Power key



Press

- Lock the screen / Light up the screen.

Press and hold

- Display the power menu “Power Off / Restart / Screenshot”

Press and hold over 12 seconds

- Force rebooting

Press and hold the **Power key** and **Volume Down key** together

- Screen capture

Volume keys



In general

- Adjusts the media and ringtone volume
- **Mute** the ringtone during an incoming call (Volume Up / Down key)

In voice call

- Adjusts the volume (Speaker or Headphone)

In camera preview

- Take a photo (Volume Up / Down key)

Scan Button



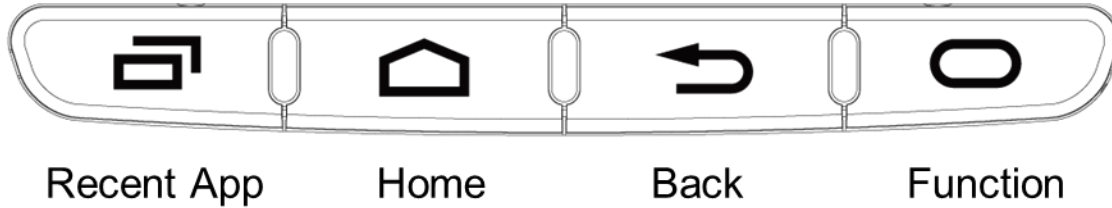
When **Scan Wedge** mode is activated

- By pressing, PM90 scan the barcode

Use a keypad

Learning the basics

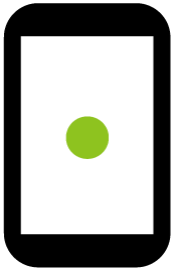
Front Keys



- Recent App** Press to see recently used apps
- Home** From any apps or screens, press to return to the Home screen
- Back** Press to go back to the previous screen, or to close a dialog box, options menu, notification panel, etc
- Function** Press to run the function or run the preset action. You can set **EmKit - Program Buttons**

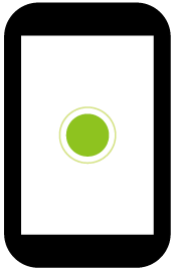
Use a touch screen

Learning the basics



Touch

One-finger press



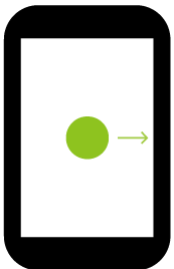
Double touch

One-finger press, lift, one-finger press, lift for **Zoom in**



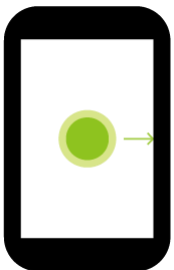
Long press

One-finger press, wait, lift for **Select an item**



Drag, Swipe, or Fling

One-finger press, move, lift for **Scroll** or **Tilt**

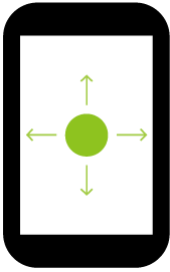


Long-press drag

One-finger press, wait, move, lift for **Pick up and move** or **Select multiple items**

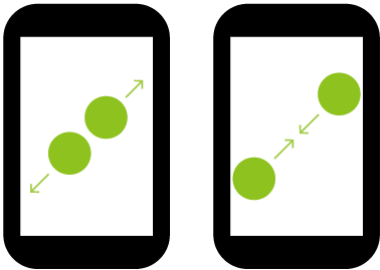
Use a touch screen

Learning the basics



Scroll

Vertical or horizontal **Swipe** in a single direction



Pinch Open & Close

Two-finger press, move outwards and in words, lift for **Zoom in and out**

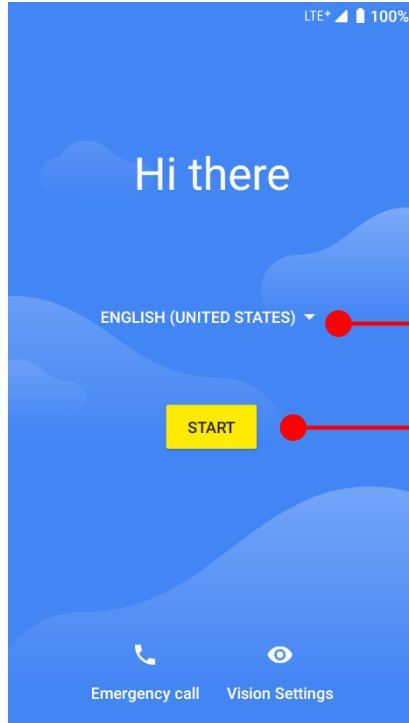


Rotate

When PM90 is turning sideways, screen orientation is changing

Setup Wizard

Learning the basics



When you power on your device very first time or boot after factory reset, you need to setup your device first

Language Selection

- Choose your language during setup process.

Touch to start setup your device



Connect to Wi-Fi

To get apps or copy data, connect to a network



Pointmobile_Public



Pointmobile_Public_A



CIT_LAB



coreedge-2.4



E-FosWiFi



See all Wi-Fi networks

SKIP

To setup your device, Android requires internet connection. Please connect to your Wi-Fi network or use mobile network in this step



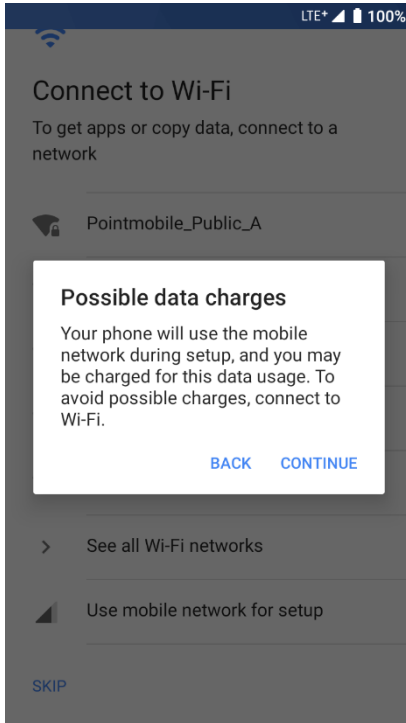
Icon means: Open Wi-Fi network. You don't need to enter the password



Icon means: Secured Wi-Fi network. To connect this Wi-Fi, you need to enter the password

Setup Wizard

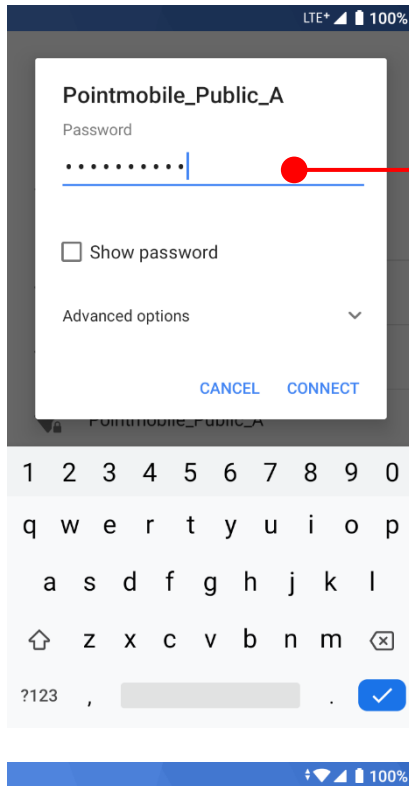
Learning the basics



Note: If you choose **Use mobile network for setup** option, you may be charged for mobile data usage.

Setup Wizard

Learning the basics



Please select Wi-Fi network and input the password (If required)



Checking for updates...

Installing updates



Android will check updates in Setup process and move to next step

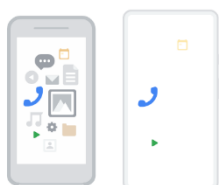
Setup Wizard

Learning the basics



Copy apps & data

Transfer your apps, photos, contacts, Google Account, and more. You can choose which content to copy.



DON'T COPY

NEXT



Bring your data from...



A backup from an Android phone
Use your old phone to copy data wirelessly



A backup from the cloud
Sign in with your username & password



An iPhone® device

DON'T COPY



After internet connection, Android will ask set PM90 as new device or copy apps & data from Google account

Next

- You can copy your settings from other Android phone or Google account or iPhone

Don't Copy

- Set your PM90 as your new device

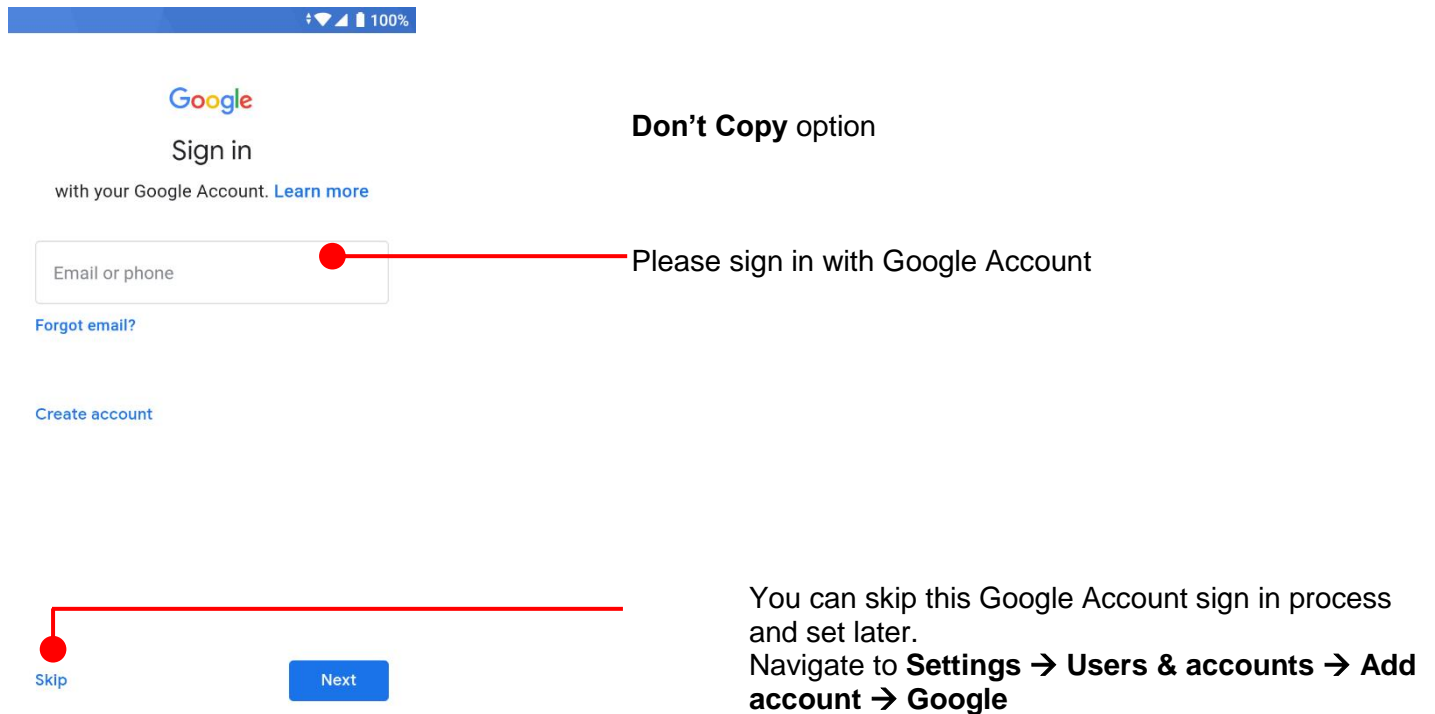
Next option

- PM90 will sync the setting from other Android phone or Google account or iPhone

Touch to go back previous step

Setup Wizard

Learning the basics



Google

Sign in

with your Google Account. [Learn more](#)

Email or phone

[Forgot email?](#)

[Create account](#)

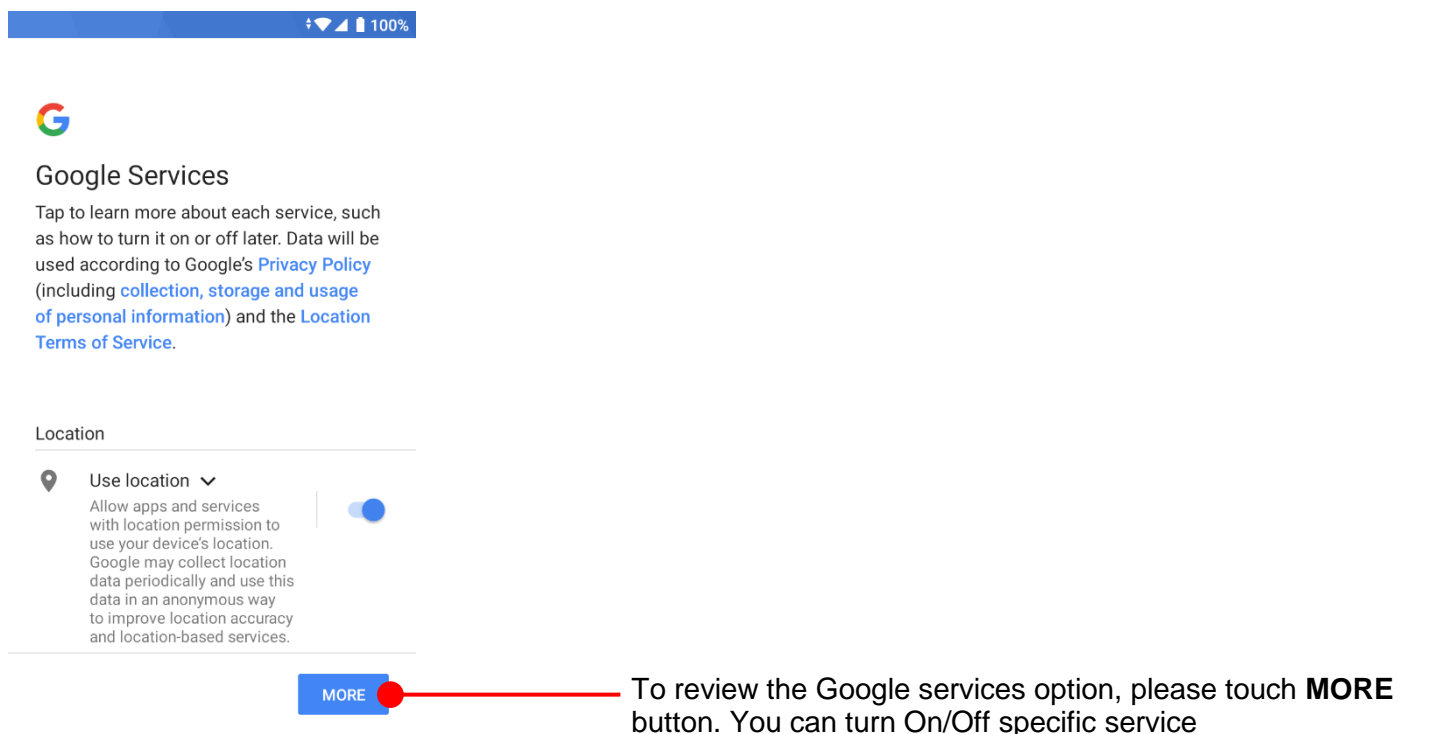
Skip

Next

Don't Copy option

Please sign in with Google Account

You can skip this Google Account sign in process and set later.
Navigate to **Settings** → **Users & accounts** → **Add account** → **Google**




Google

Google Services

Tap to learn more about each service, such as how to turn it on or off later. Data will be used according to Google's [Privacy Policy](#) (including [collection, storage and usage of personal information](#)) and the [Location Terms of Service](#).

Location

Use location 

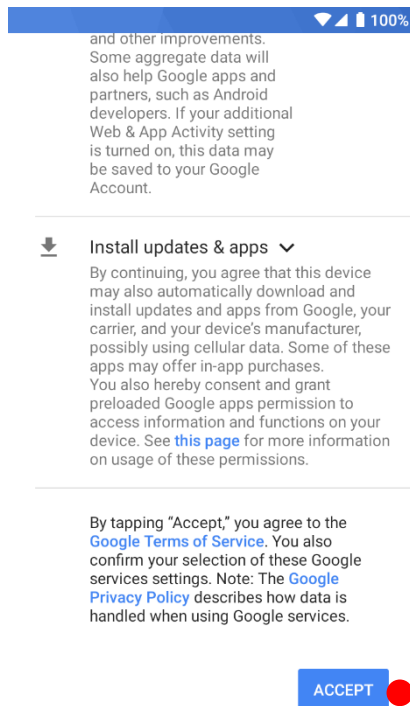
Allow apps and services with location permission to use your device's location. Google may collect location data periodically and use this data in an anonymous way to improve location accuracy and location-based services.

MORE

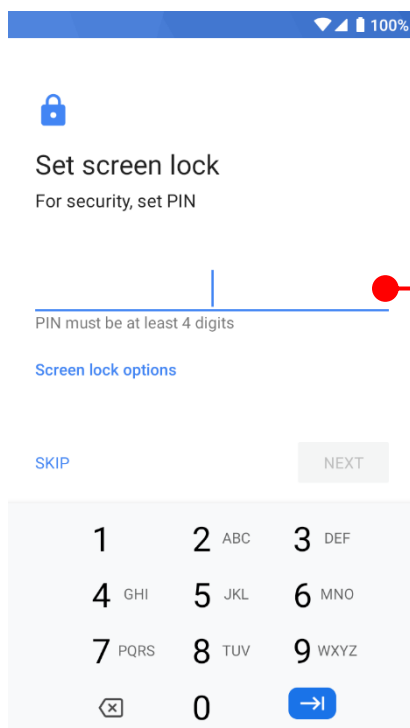
To review the Google services option, please touch **MORE** button. You can turn On/Off specific service

Setup Wizard

Learning the basics



After your reviewing and set Google services option, touch **ACCEPT** button for next step



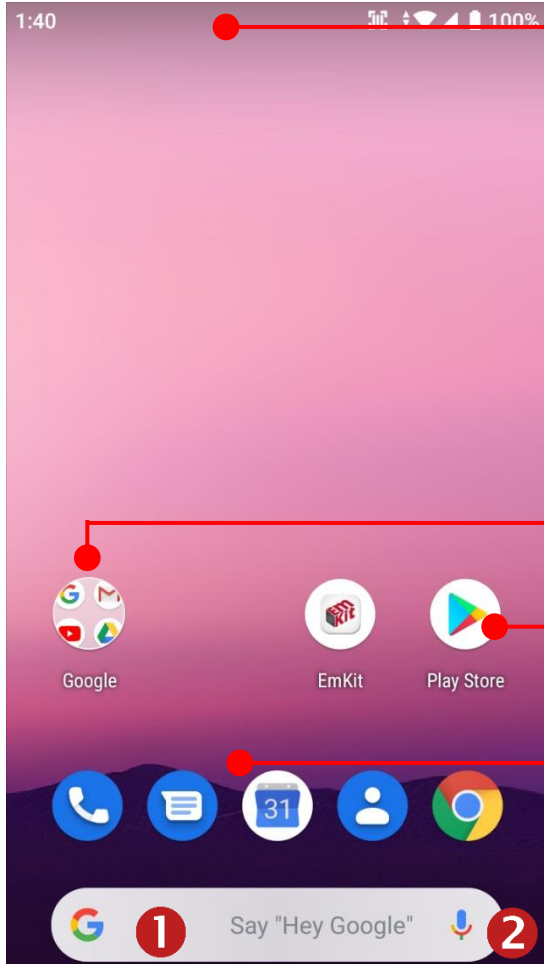
Choose security option for lock screen. You set specific pattern or PIN or password here.

You may skip this process and set later.

Navigate to **Settings** → **Security & location** → **Screen lock**

Home Screen, Apps and Widget

Learning the basics



Status Bar

- Status / Notification
- Drag down to open the Quick settings panel

App Folder (Google collections)

- App icons are organized in the folder

Touch an icon to run an app, open a folder, etc

Favorite tray apps

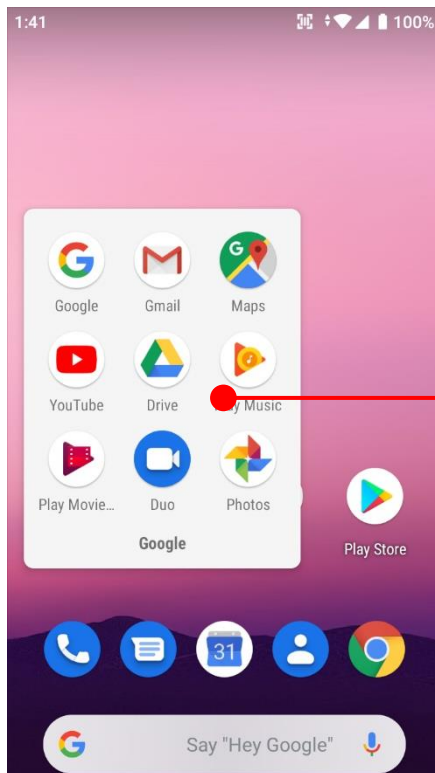
- Touch to run an app
- Touch and hold to reorganize

Search Bar

- Touch 1 to search by text
- Touch 2 to search by voice

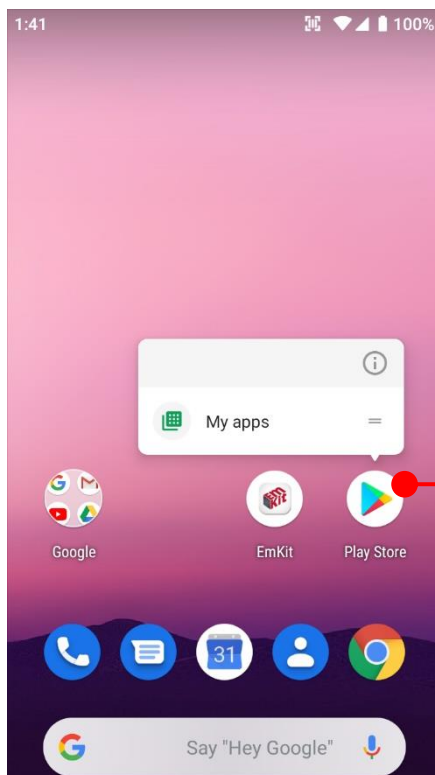
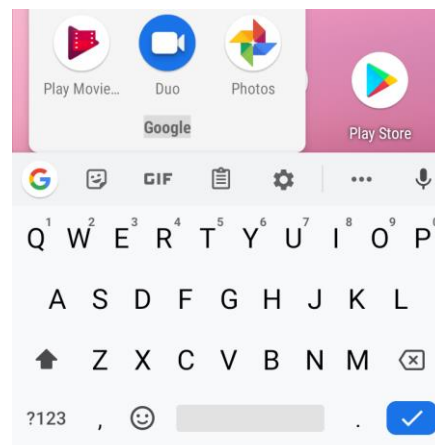
Home Screen, Apps and Widget

Learning the basics



To access App folder (Google App collections)

- Touch the app folder then you will see apps in the folder
- To change app folder's name, touch the bottom area of the App folder

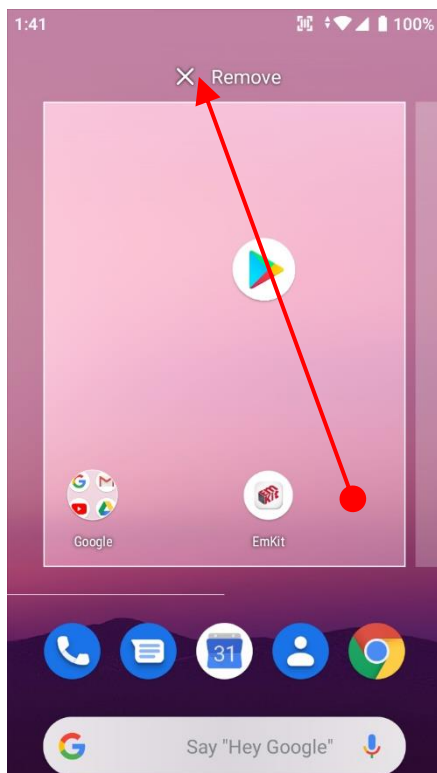


To see App's option for quick access

- Long press the app icon. Then you will see options from the app. Here option may differ by app

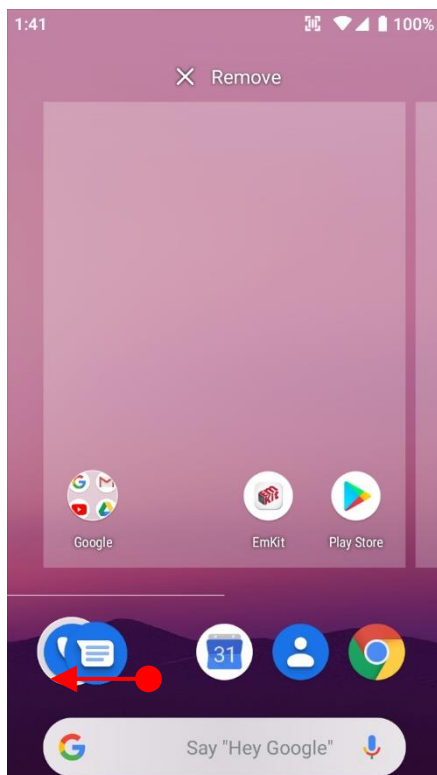
Home Screen, Apps and Widget

Learning the basics



Organize the app icon in the home screen

- Long-press drag the app icon and place where you want. You may place app icon to next panel
- If you want to remove the app icon, drag it to **Remove** area and release

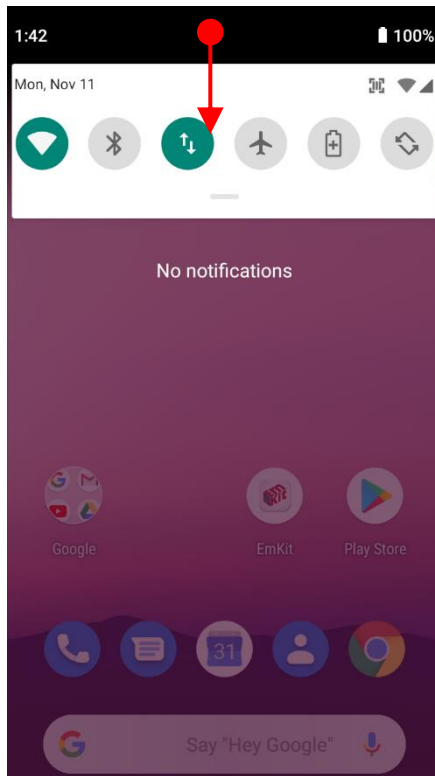


Create "App Folder"

- Long press the app icon to another app icon. This will create the **App Folder**
- To set the folder name, touch the **Unnamed Folder** and rename it

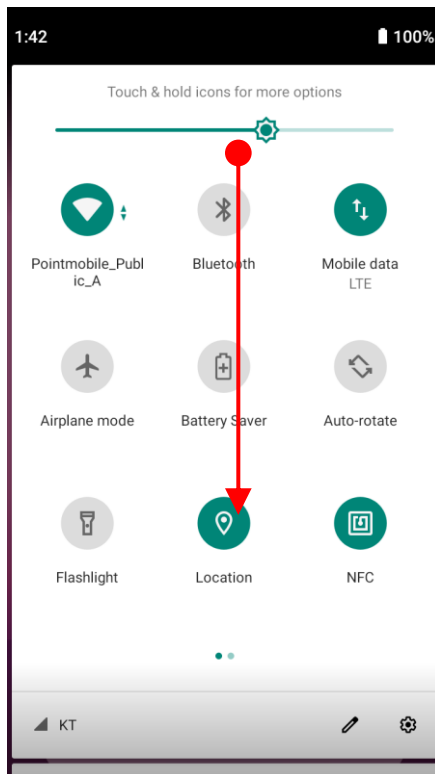
Home Screen, Apps and Widget

Learning the basics



Notification panel

When there is notification from the Android (system) or the App, you can check details by drag down the **Status Bar**.

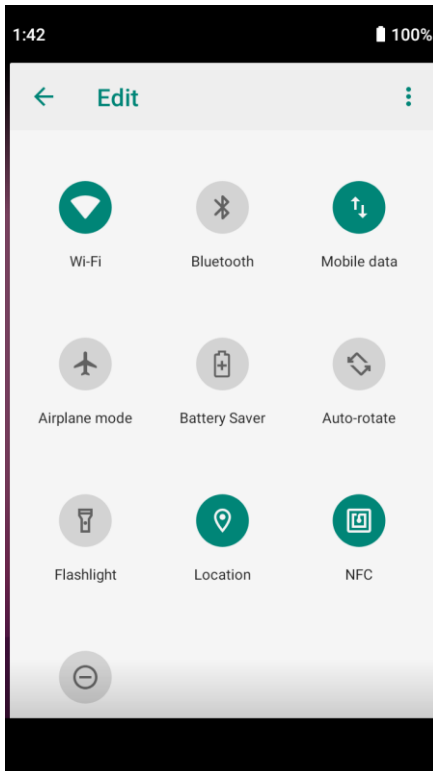


Quick setting panel


You can access **Quick setting panel** by drag down the **Notification panel**. You can enable / disable system settings or change modes easily.

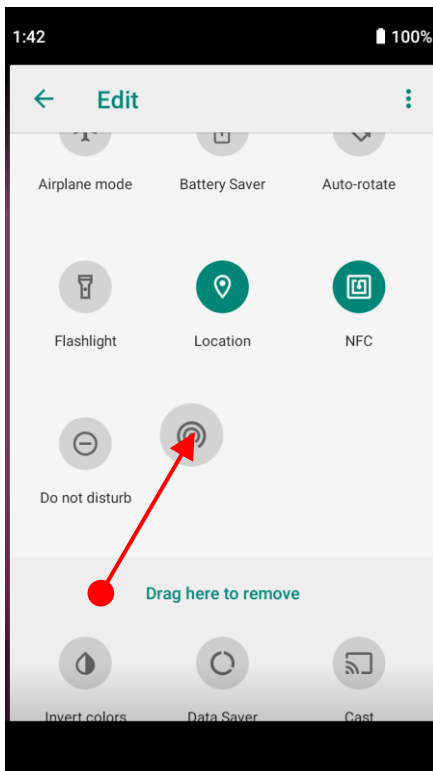
Home Screen, Apps and Widget

Learning the basics



Edit Quick settings panel

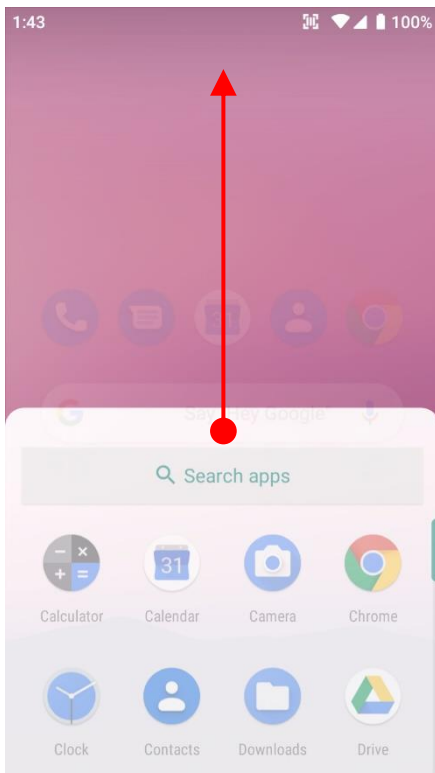
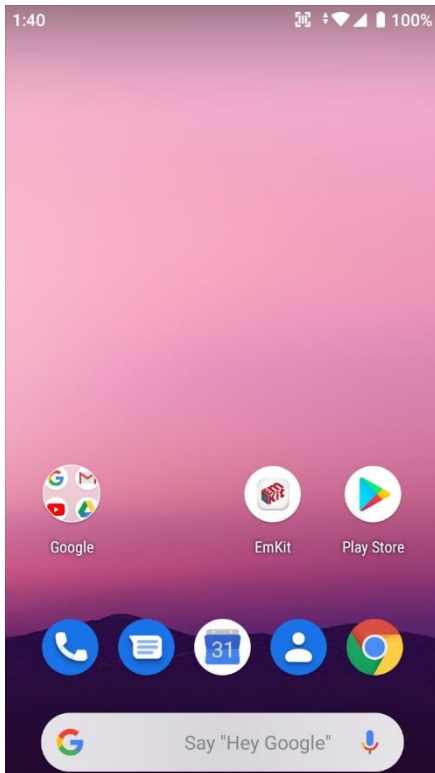
To change the order of icons in the **Quick settings panel** or add more icons, touch the  Edit icon



By dragging the icon, you can customize the **Quick settings panel**

Home Screen, Apps and Widget

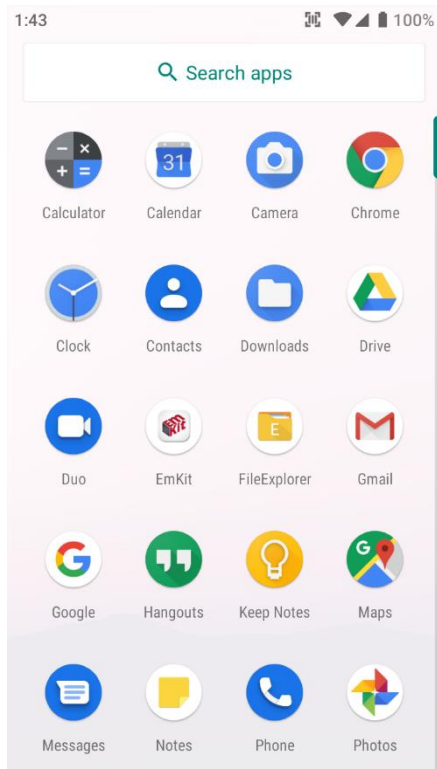
Learning the basics



By **drag up** (swipe up) the Home Screen, you can access to app list in your PM90

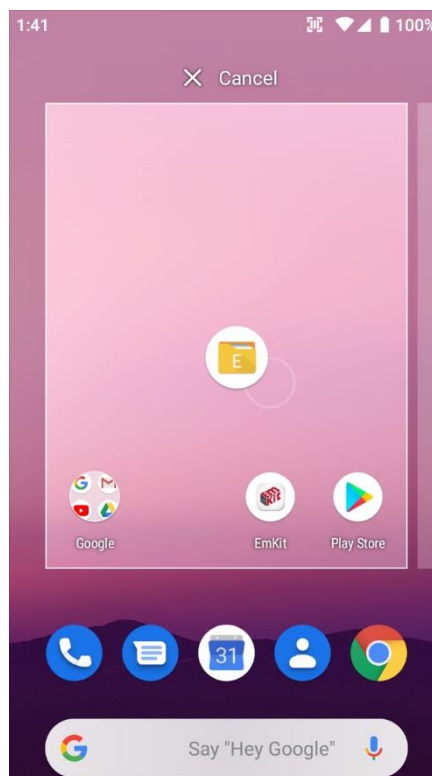
Home Screen, Apps and Widget

Learning the basics



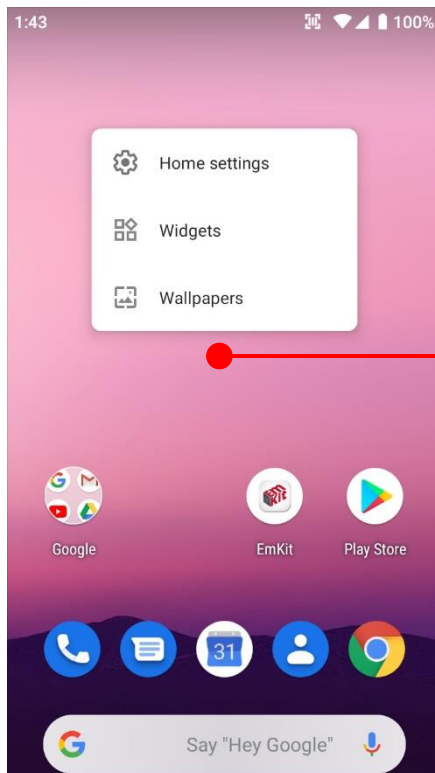
All installed apps are listed alphabetically

- Touch an app icon to run.
- Long press, specific app icon to place to the **Home Screen**.

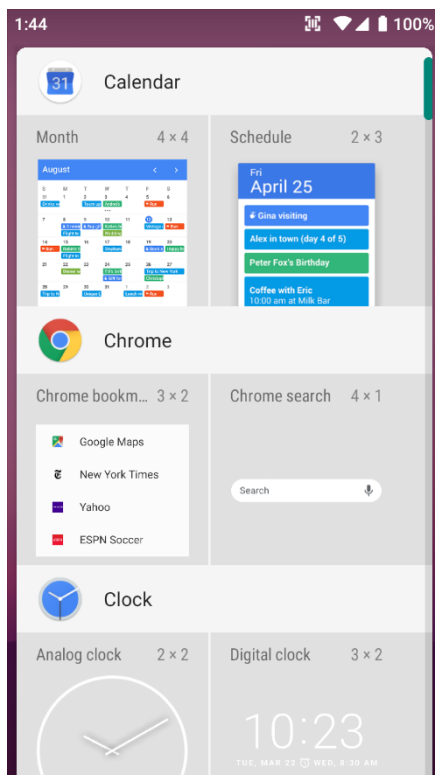


Home Screen, Apps and Widget

Learning the basics



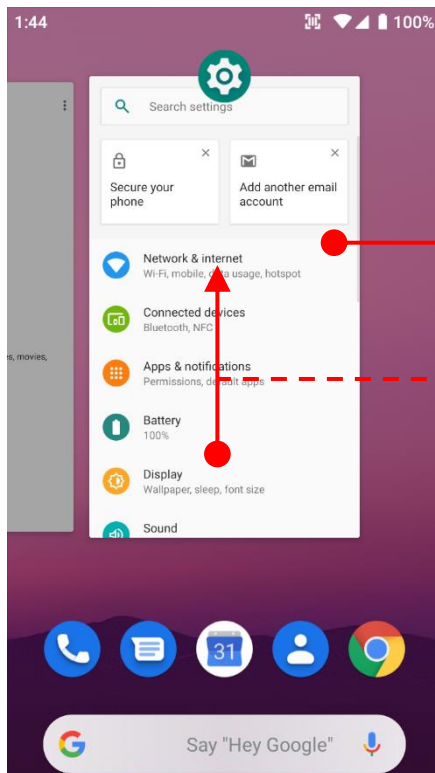
To add a Widget in the Home screen, long press the empty space. Then you will see **Home settings, Widgets, Wallpapers** menu. Touch **Widgets**




Available widgets are listed. Among the list select the widget which you want to add and place it to the Home screen by drag and drop

Home Screen, Apps and Widget

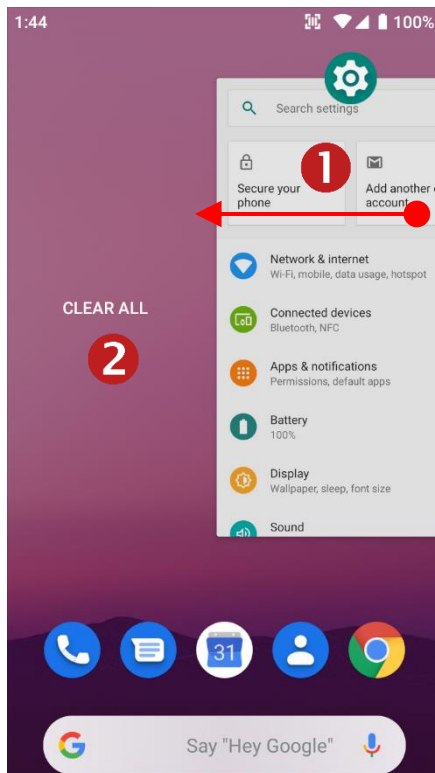
Learning the basics



By pressing the  **Recent button** in the keypad, you can see app lists which you have been access

Touch the app, if you want to access again.

If you want to **Close** an individual app, **Drag up** (swipe up) the app









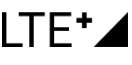


















If you close all of the apps,

1. Drag (swipe) the recent app list
2. And then touch **CLEAR ALL**

Status & Notifications Icons

Learning the basics

















Status icons

	LTE connected		Strong signal
	3G connected		Good signal
	EDGE connected		Weak signal
	LTE+ (LTE CA) connected		Connection issue
	Data disabled		No data connection
	Airplane mode		Hotspot enabled
	Data communication		
	Wi-Fi turned on		Connected to a Wi-Fi network
	Connected to a Bluetooth device		
	Battery is full		Battery is partially drained
	Battery is low		Battery is very low
	Battery is charging		
	Location service turned on		Vibrate mode
	Speaker phone tuned on		Phone mic is mute

Status & Notifications Icons

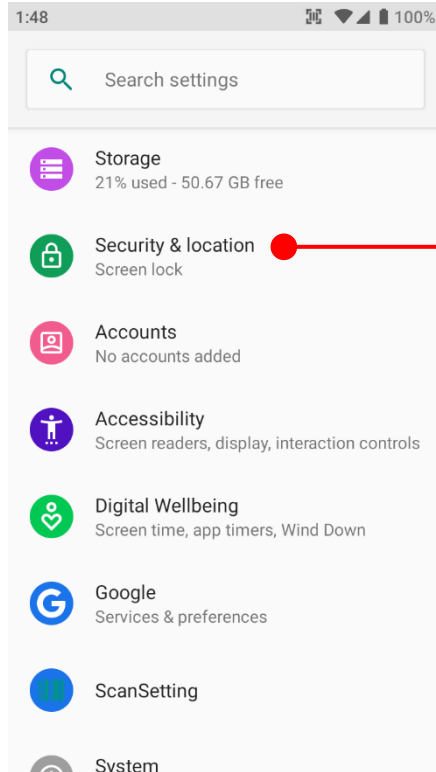
Learning the basics

Notification icons

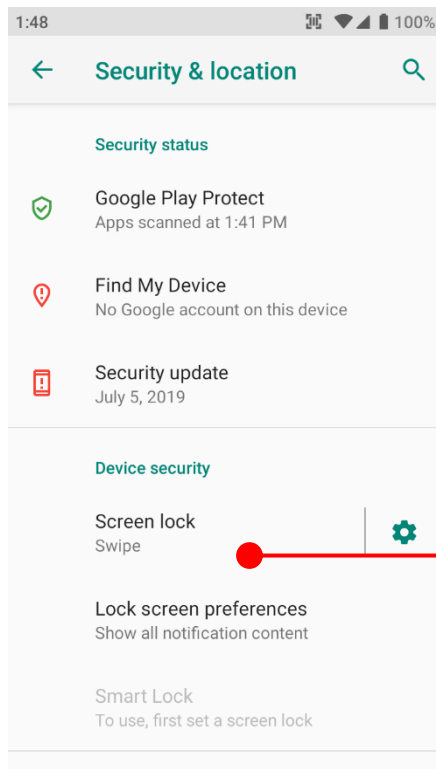
	Missed call		New SMS or MMS message
	New Email		Connected to VPN network
	Upcoming event		Alarm is set
	Preparing SD card		SD card removed, unexpectedly
	OTG device connected		Screenshot captured
	File uploaded		File downloaded
	File copied		
	Scanner turned on		
	There are more notifications		Other input method available

Set a Lock screen

Learning the basics



Settings  and then **Security & location**

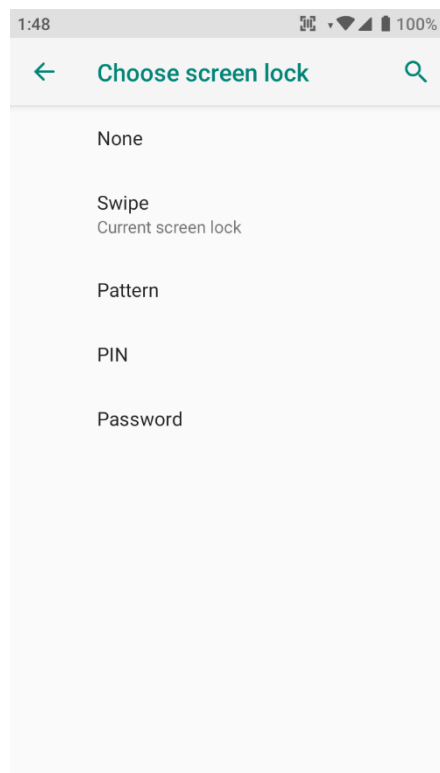


Touch **Screen lock**

You can see Screen lock type which is currently set. To change the screen lock, please touch the menu.

Set a Lock screen

Learning the basics



None : PM90 screen unlock immediately

Swipe : To unlock the screen, user should swipe the screen

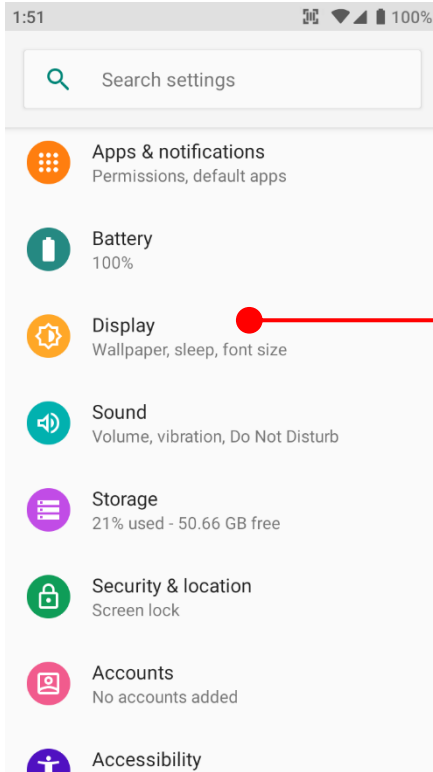
Pattern : To unlock the screen, user draw the pattern

PIN : To unlock the screen, user should input the pin
(Numbers. At least 4 digits)

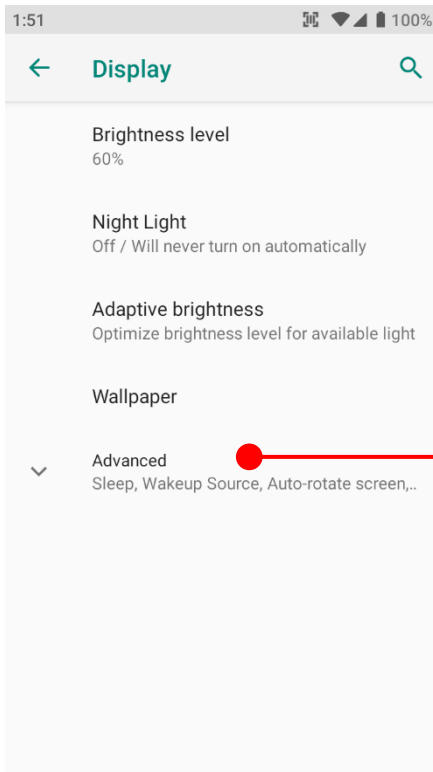
Password : To unlock the screen, user should input the password
(Numbers & Alphabet combination. At least 4 characters)

Manage a display

Learning the basics



Settings  and then **Display**



Touch Advanced

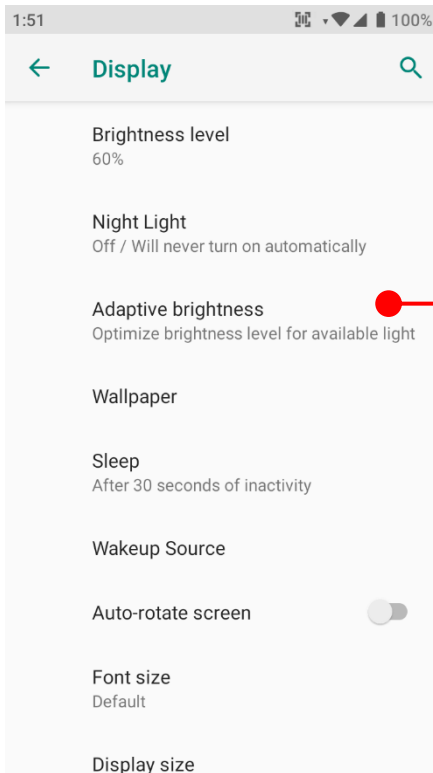
Brightness level : This setting changes the screen brightness level

Night Light : Set amber screen of PM90

Adaptive brightness : By enable this option, PM90 auto adjust the screen brightness

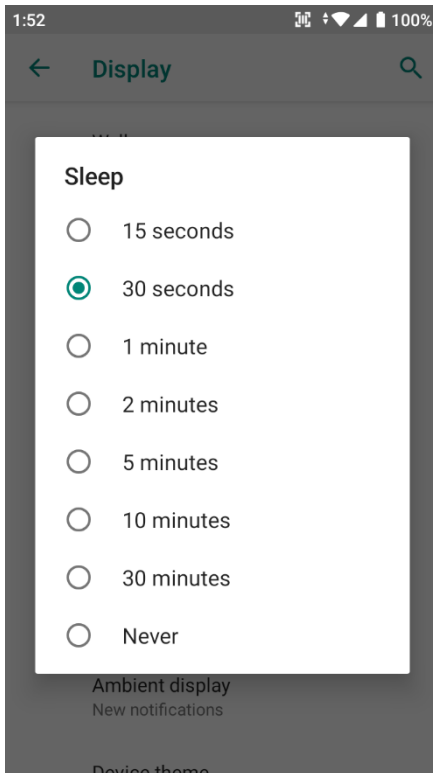
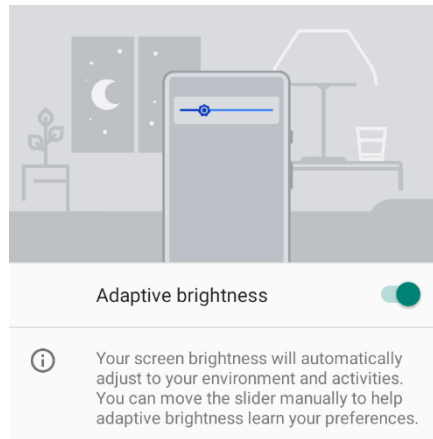
Manage a display

Learning the basics



Adaptive brightness

If you let PM90 auto adjust the brightness level, please enable this option



Sleep

To change device sleep time, change option here

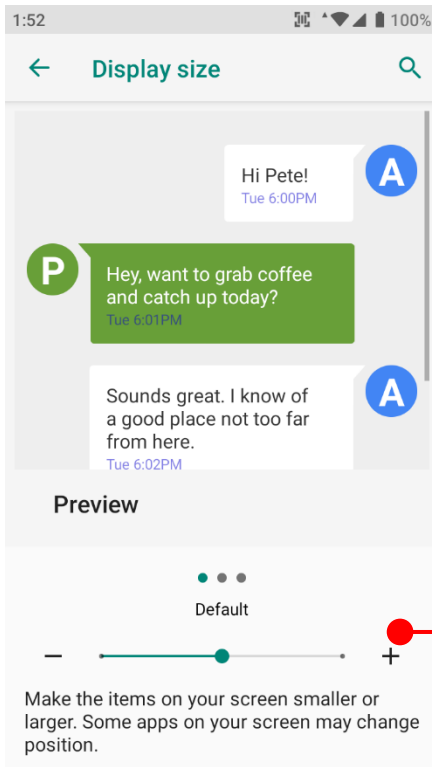
Manage a display

Learning the basics



Font size

Change the overall font size of PM90. Please adjust the slider

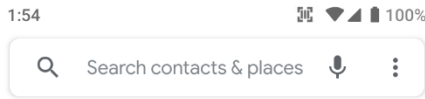


Display size

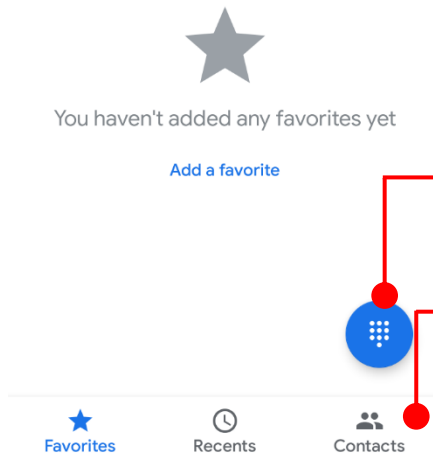
Change the amount of the display item of PM90. Please adjust the slider

Make a call

Learning the basics



 icon in the favorite tray app drawer



Touch to use a dialer

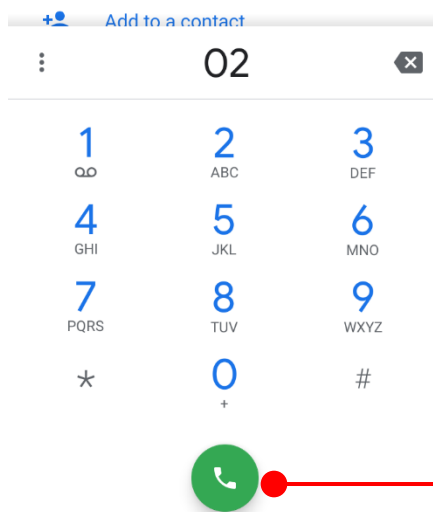
Touch to access the **Favorites**, **Recents** and **Contacts**.

- To make a call from recent call list or missed call, select **Recents** tab
- To make a call from your contact list, select **Contacts**



Suggested phone number(s)

CONTACTS save options



Touch to place a call

Make a call

Learning the basics

1:55 100%



Calling...

070-7090-2689

South Korea

Calling information



Mute



Keypad



Speaker

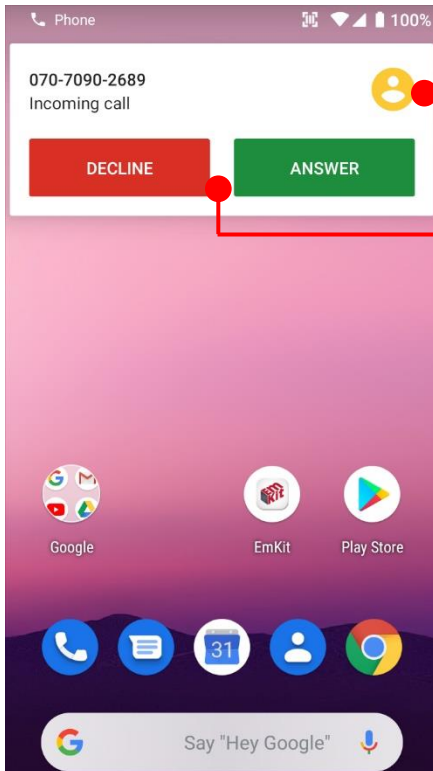
- Mute : Touch to mute the mic
- Keypad : Touch to input keypad during a call
- Speaker : Touch to make a speakerphone call



Add call



Touch to end a call



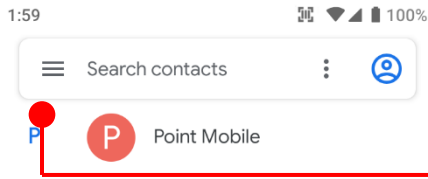
Caller information


Decline : Touch to refuse a call
Answer : Touch to answer a call

Tip: To mute the ringtone volume of an incoming call, press the Volume down or Volume up key

Add to a contact

Learning the basics

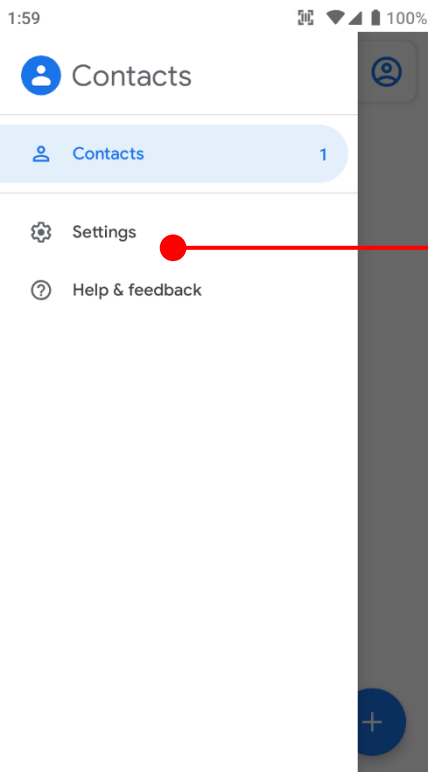


Touch  icon in the Favorite tray apps

Touch to see Contacts options



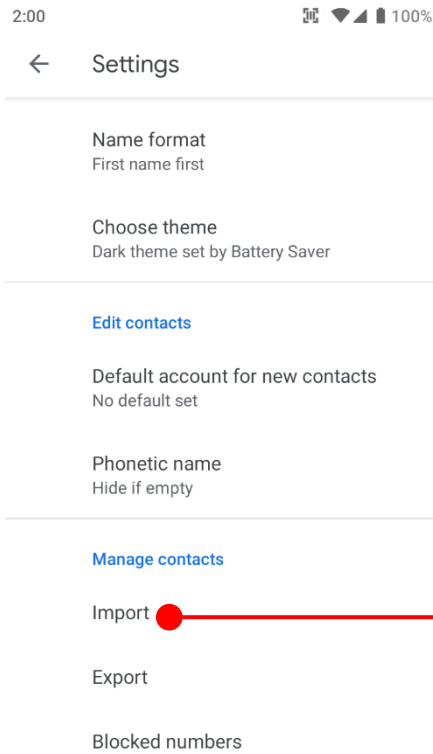
Touch to add a new contact



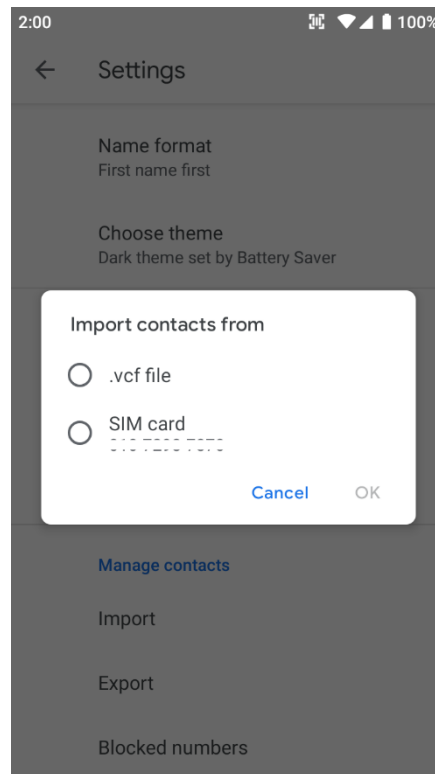
Touch to set more detail settings

Add to a contact

Learning the basics

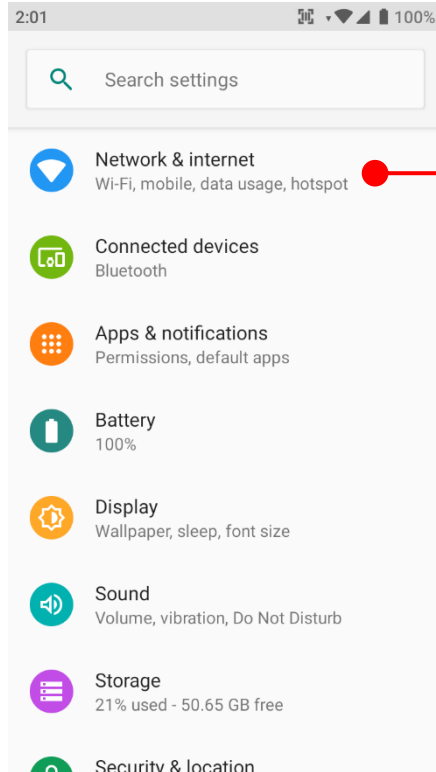


Touch to import contact information from vcf (vCard) file or SIM card

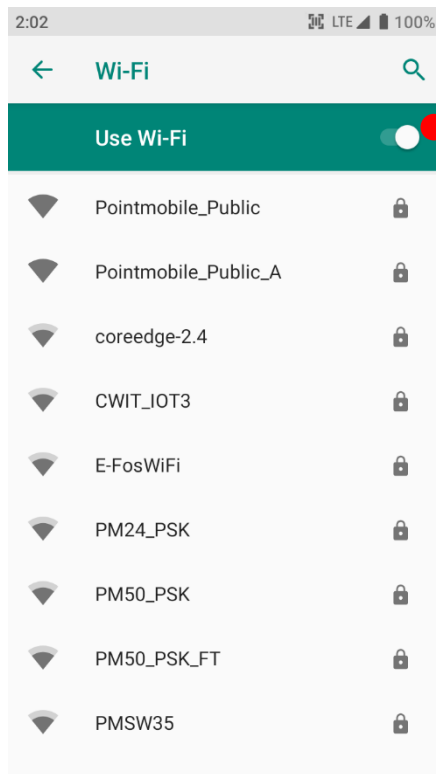
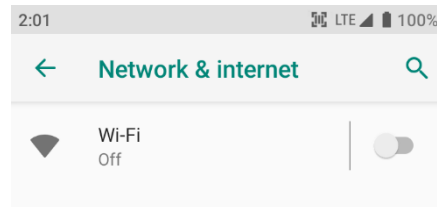


Connect to your Wi-Fi network

Learning the basics




Settings  → **Network & Internet** and then **Wi-Fi**



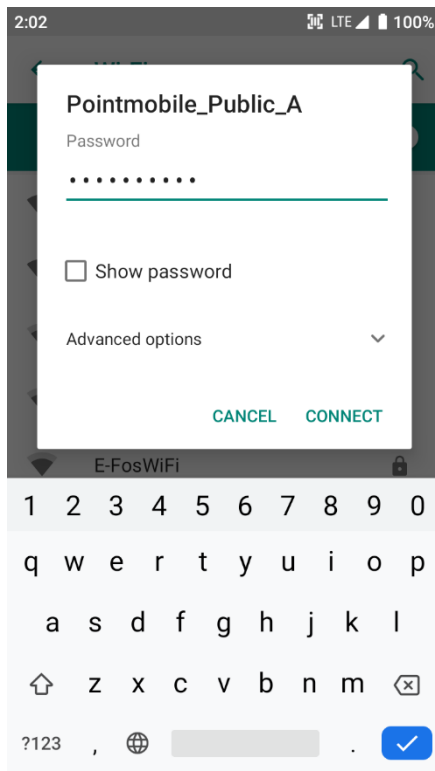
Touch to turn On/Off the W-Fi

You can see nearby Wi-Fi network.
Each AP's SSID information listed by signal strength

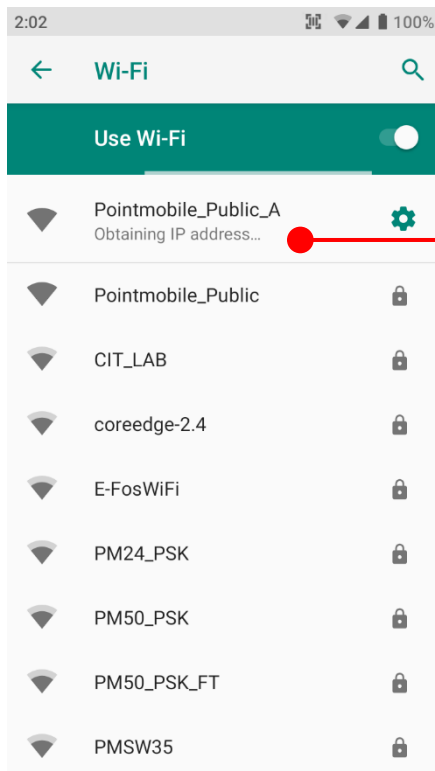
 Icon means : Secured Wi-Fi network. To connect this Wi-Fi network, you need to enter the password

Connect to your Wi-Fi network

Learning the basics



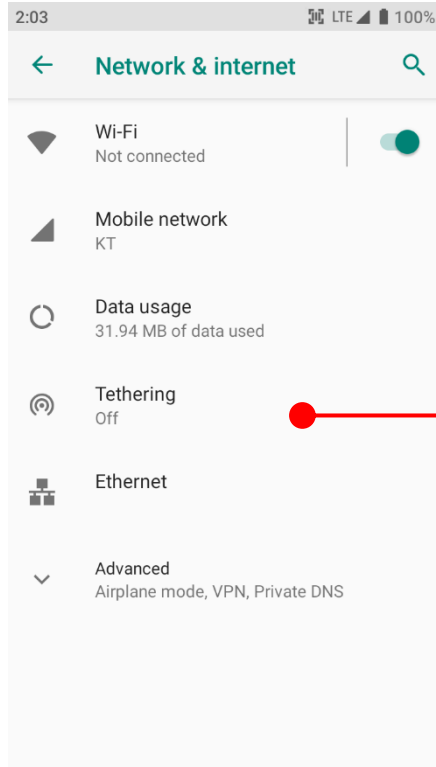
Touch SSID, which you want to connect.
To connect to the secured Wi-Fi network, enter the password



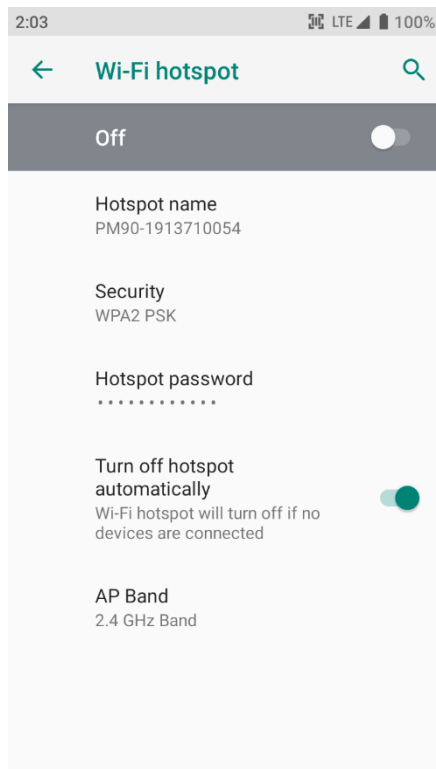
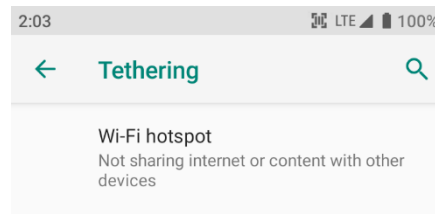
PM90 is obtaining the IP address from the selected AP

Make a Wi-Fi hotspot

Learning the basics



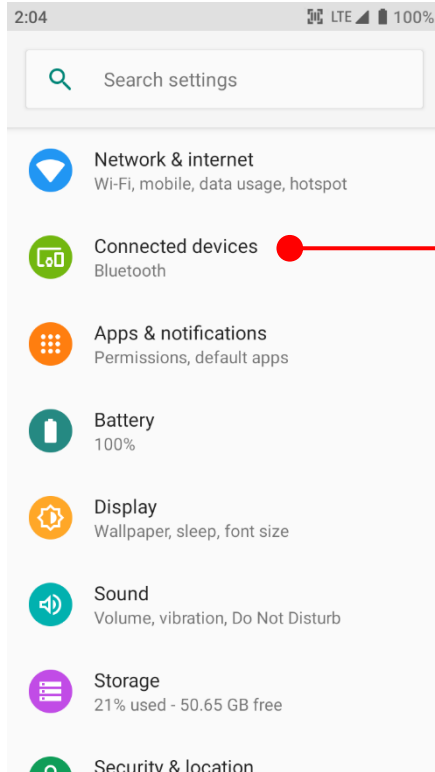
Settings  → Network & Internet and then Tethering




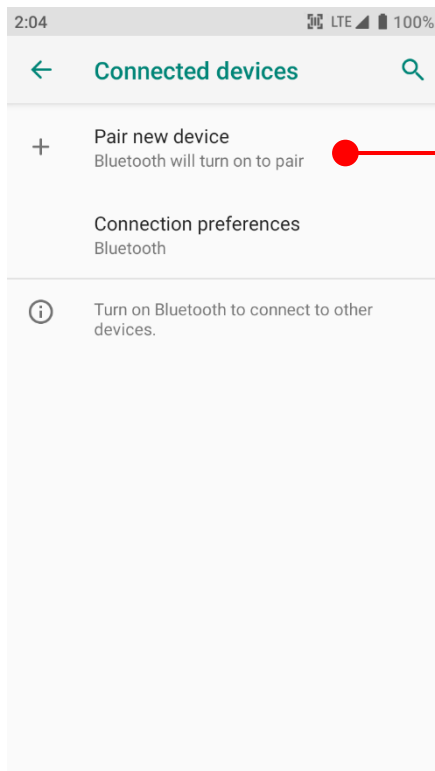
You can change W-Fi hotspot option here.
Hotspot SSID name, Security option, Hotspot Password and Hotspot's Band

Connect with Bluetooth device

Learning the basics



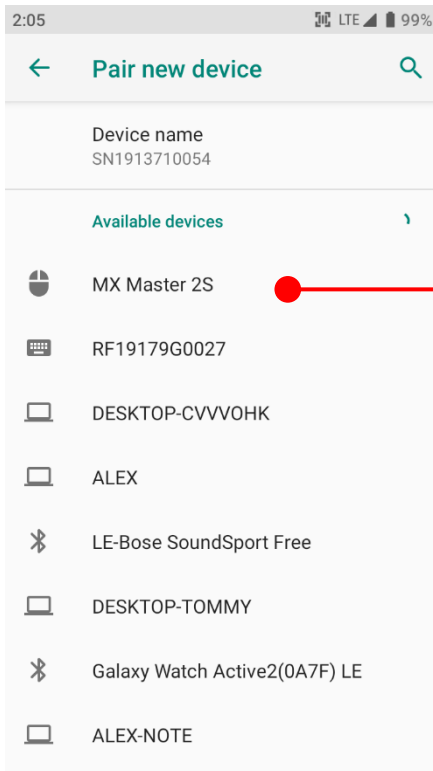
Settings  and then **Connected devices**



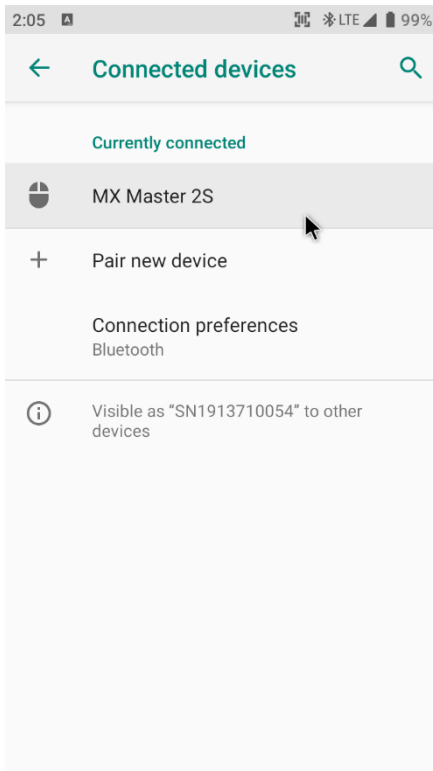
Touch Pair new device

Connect with Bluetooth device

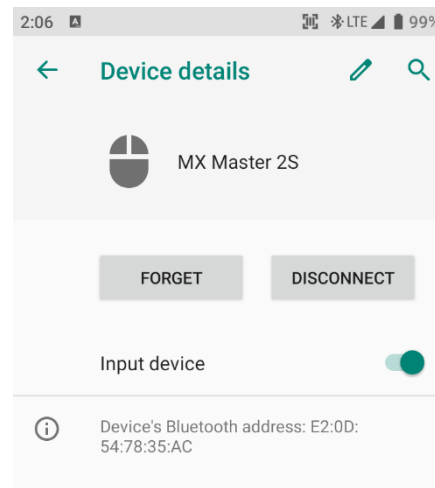
Learning the basics



PM90 will list up nearby Bluetooth devices. Touch to make a pairing (You may input the password)

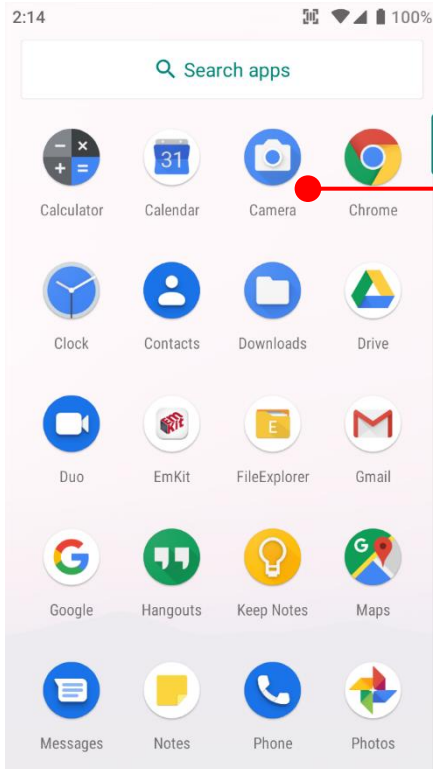



Bluetooth device is connected with PM90. Touch the device for advanced setup

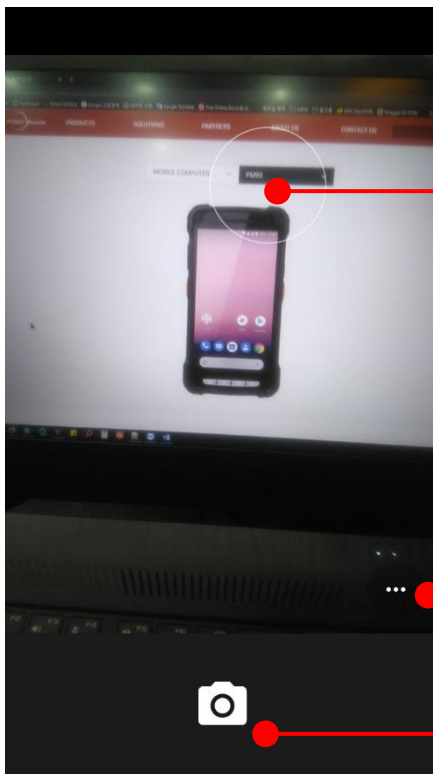


Use a Camera

Learning the basics



Navigate to **App list** and then Camera app 



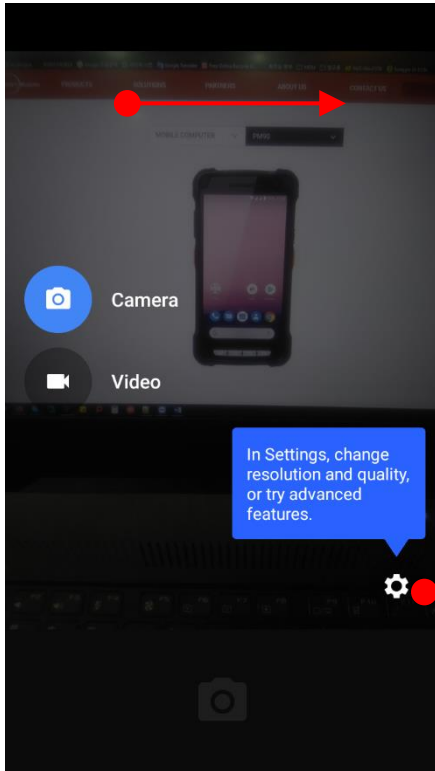
Auto focusing area. You can change the focusing area by touching the other area

Touch for Camera / Video option

Take a picture or recode a video

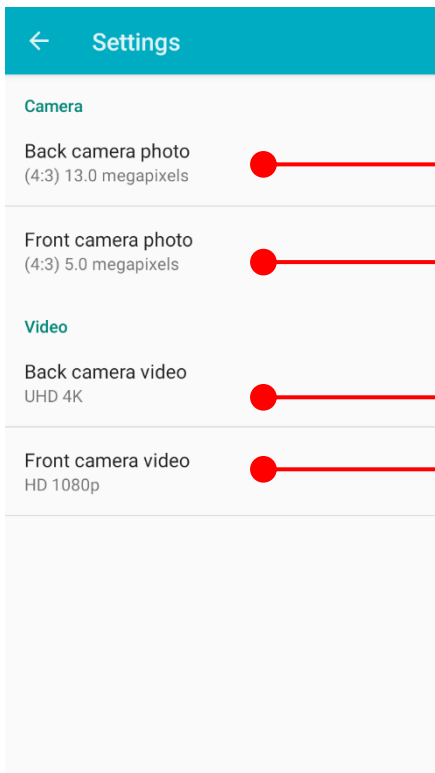
Use a Camera

Learning the basics



Swipe to change the Camera / Video mode or access to Settings

Settings



Set rear camera image saving quality

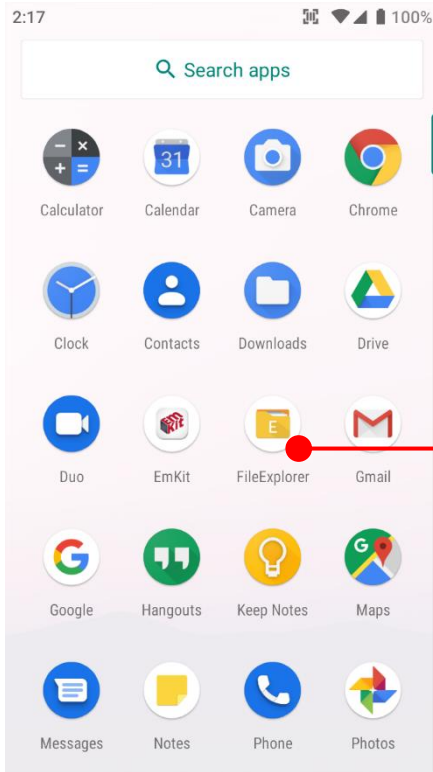
Set front camera image saving quality


Set rear camera video saving quality

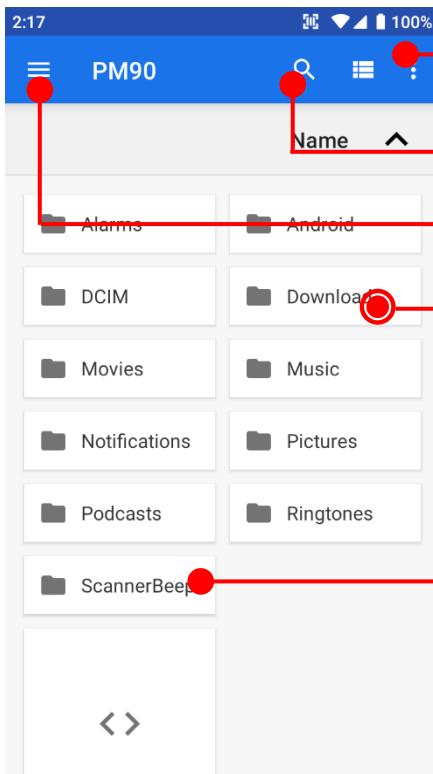
Set front camera video saving quality

Manage files and folders

Learning the basics



Navigate to **App list** and then File Explorer app 



Touch for advanced menu

File search

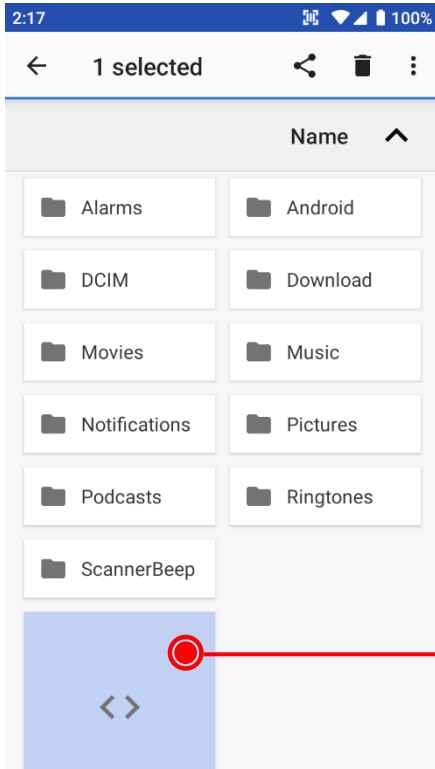
Select media file type or storage

Long tap to select a file or folder

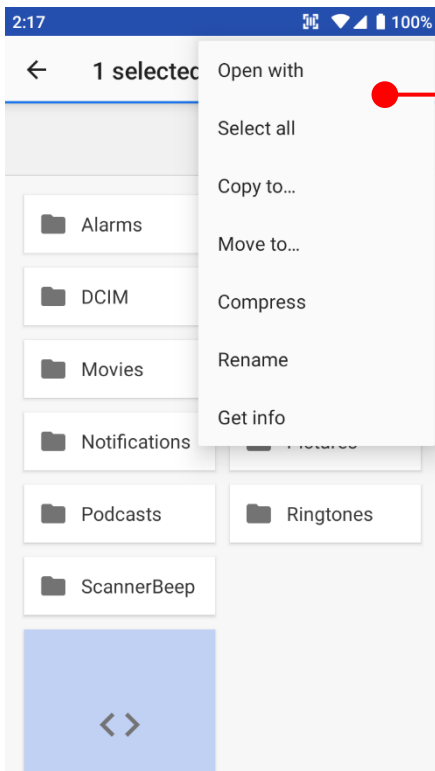
Touch to navigate folder / open the file or install an apk file

Manage files and folders

Learning the basics



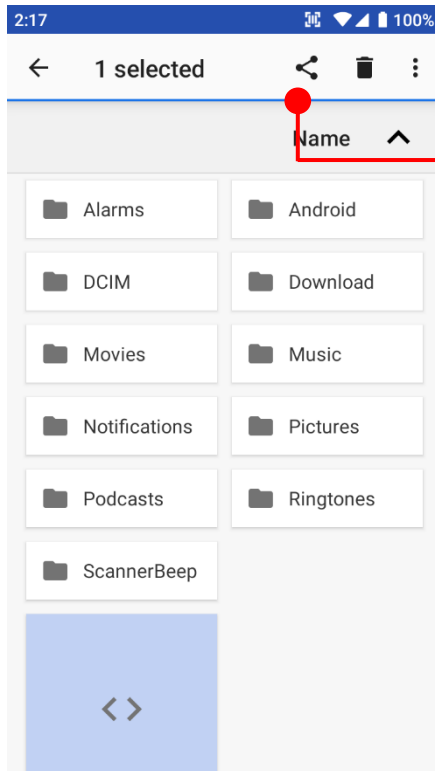
Long tap the file and touch option icon  in top-left corner




Now you can copy and move to specific folder or rename the file or folder

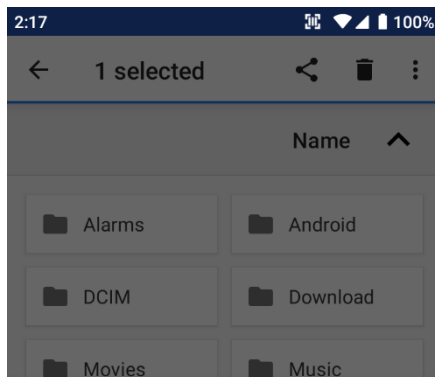
Manage files and folders

Learning the basics



Share a file

Long tap the file and touch share icon  in the menu



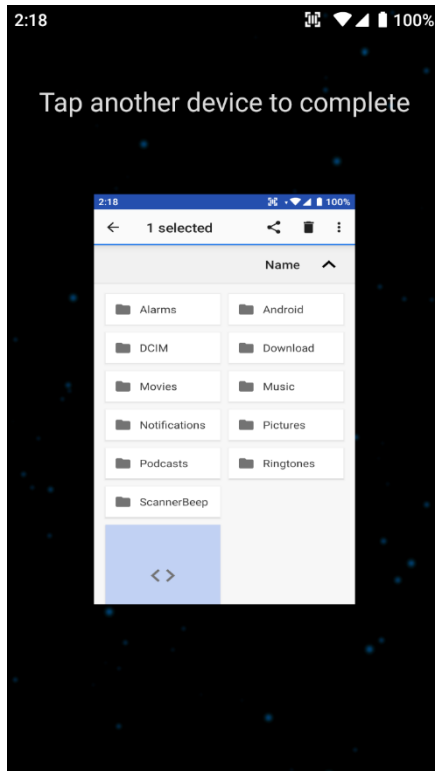
Share via



Now you can share selected file to nearby device or attach to Gmail or upload to Google Drive. Manual describe Android Beam sharing via NFC

Manage files and folders

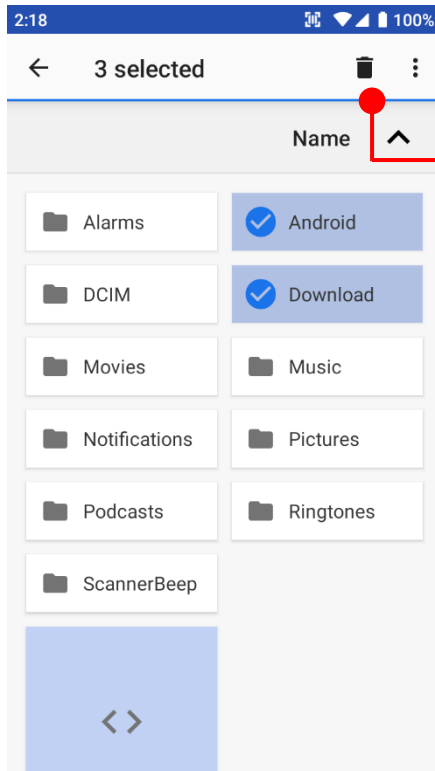
Learning the basics




Now tag another device to PM90
PM90 will transfer the file

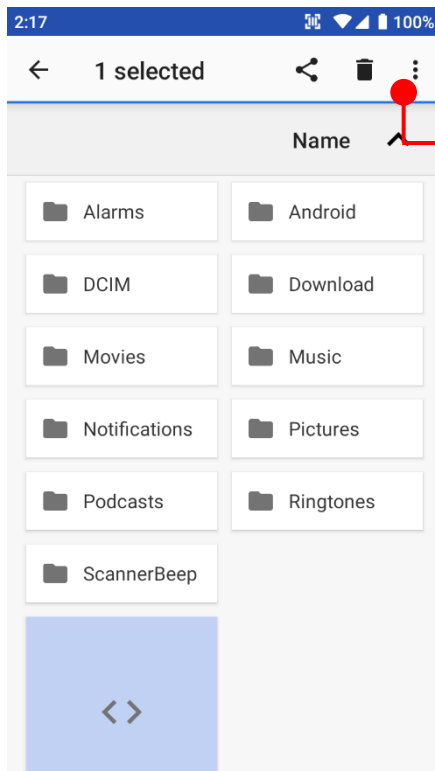
Manage files and folders

Learning the basics



Delete files

Long tap the file and touch delete icon  in the menu

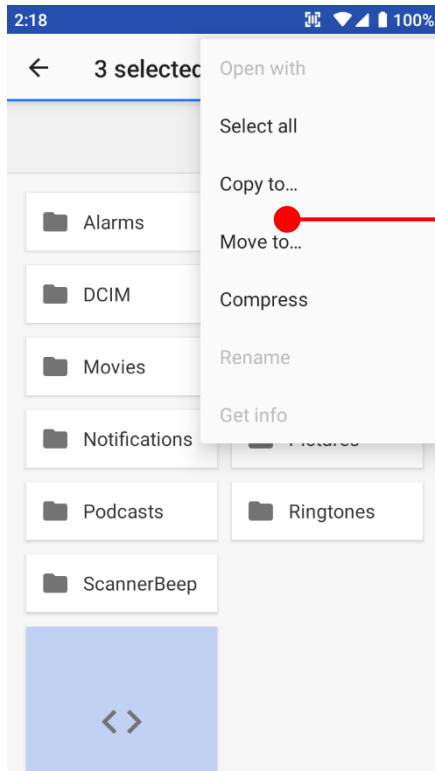


Copy or move files

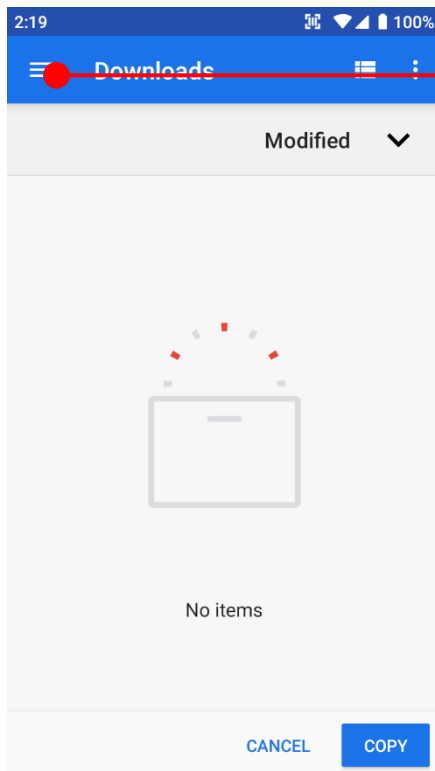
Long tap the file and touch option icon  in top-left corner

Manage files and folders

Learning the basics



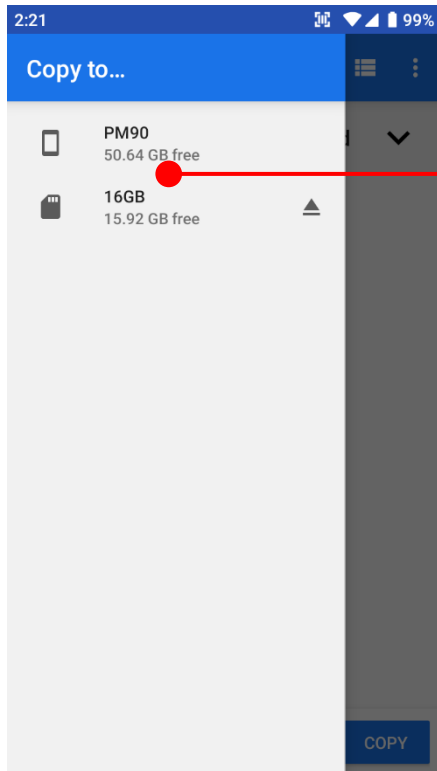
Touch **Copy to...** or **Move to...** in the menu



Touch menu icon ≡ to navigate file location

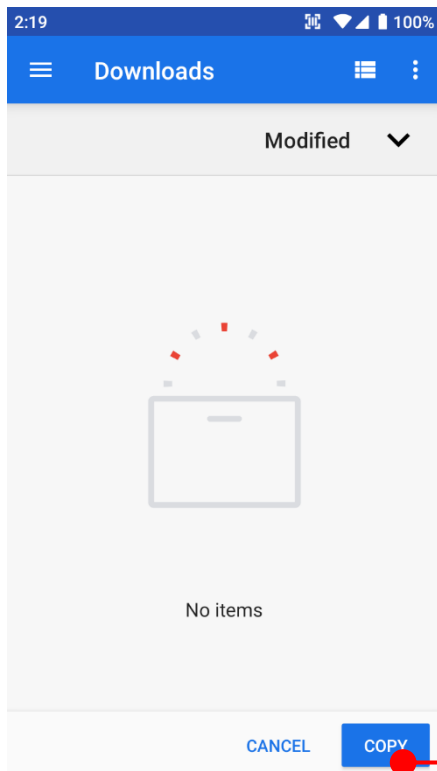
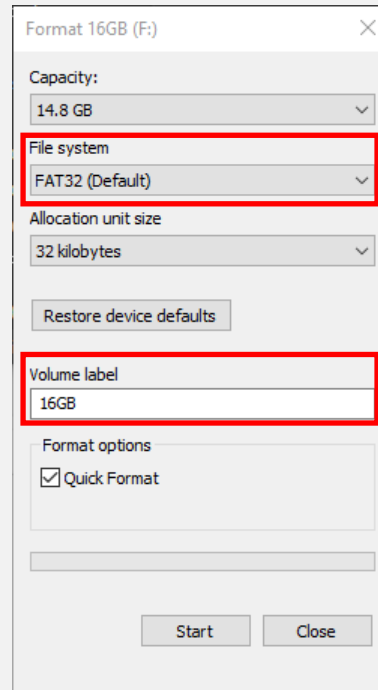
Manage files and folders

Learning the basics



Touch the storage where copy or move to

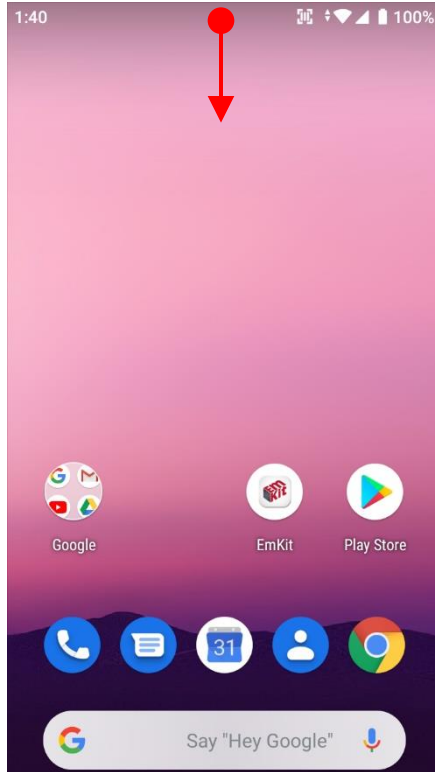
Note: Please format the SD card as FAT32 and make sure set the label as below screenshot from the computer



Touch **COPY**

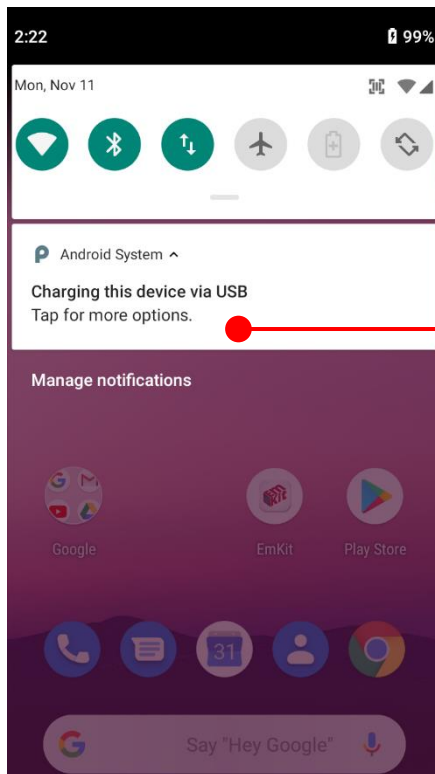
MTP connection with PC

Learning the basics



To browse files and folders in the PM90 in your PC, please change USB connect option

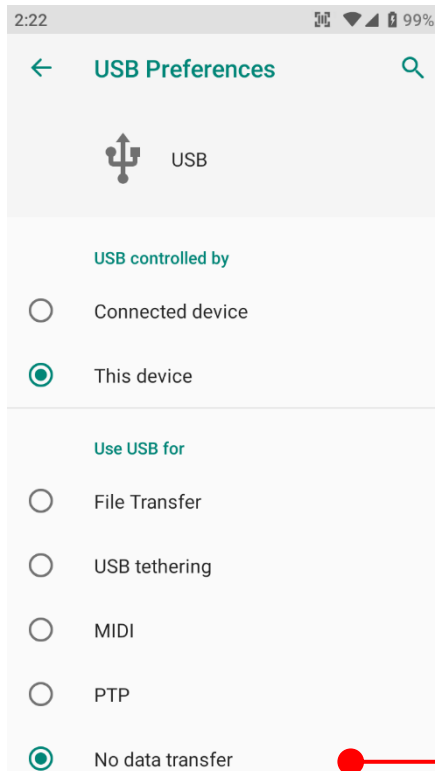
Scroll down the **Status Bar**



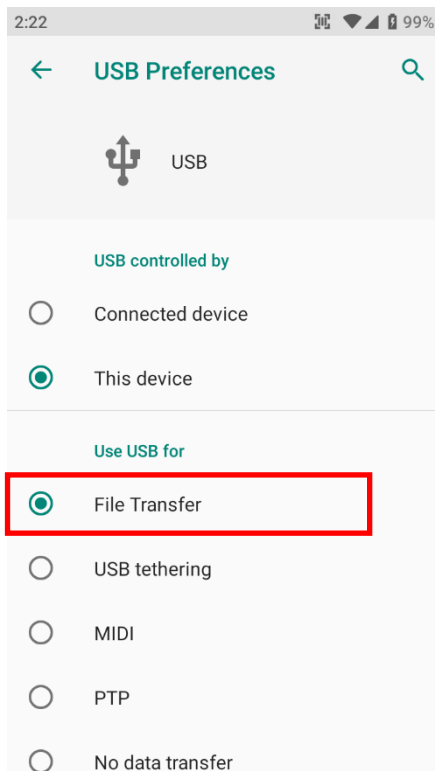
Touch USB connect option

MTP connection with PC

Learning the basics



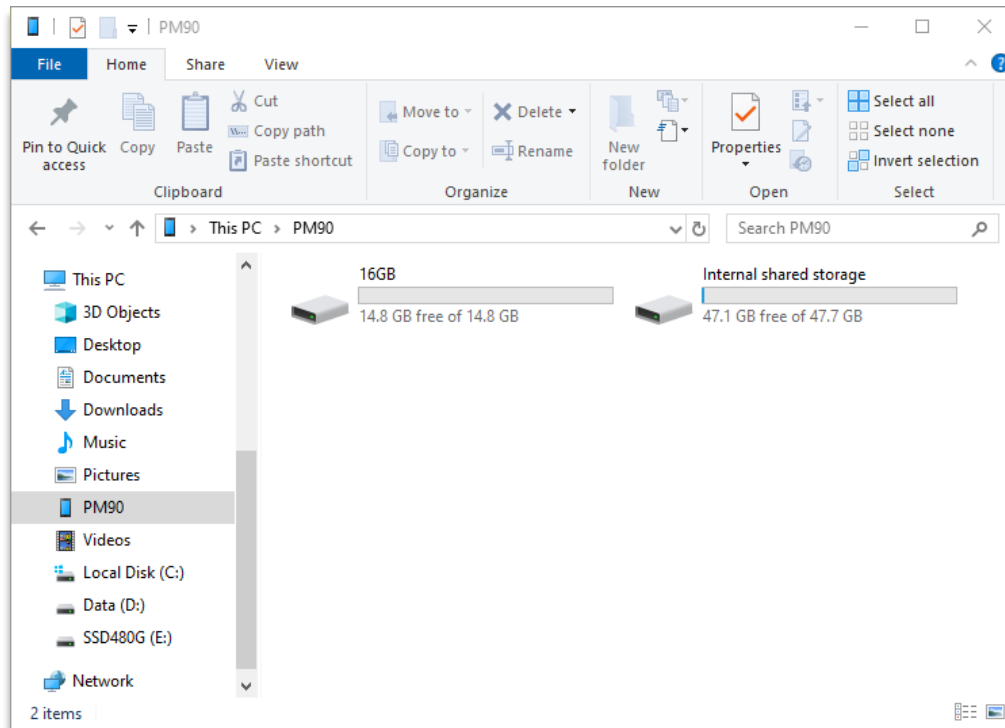
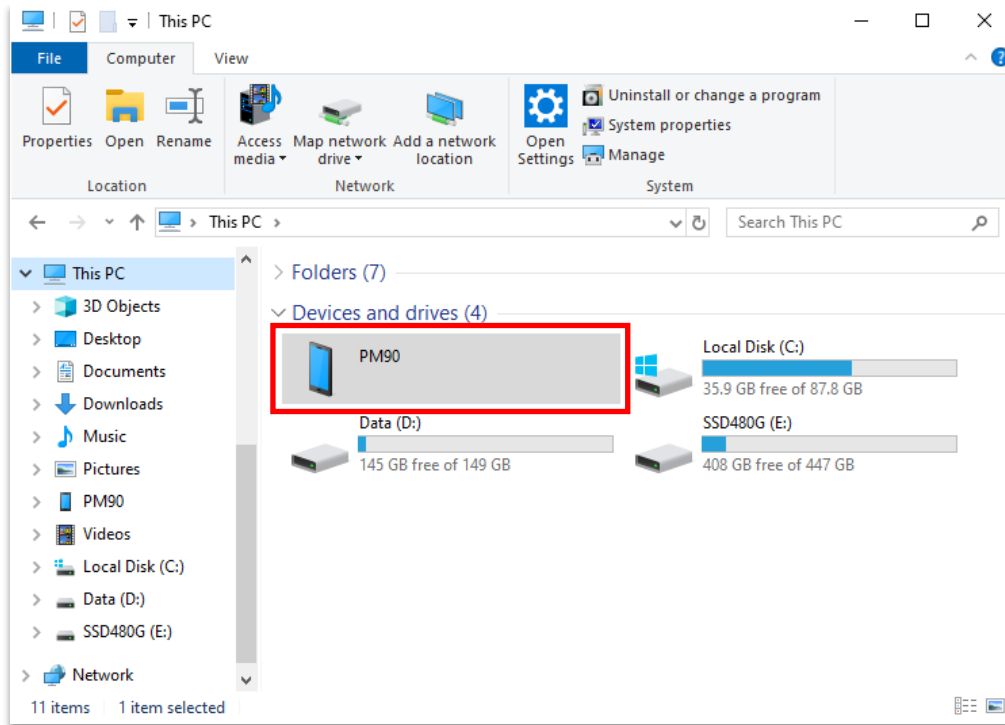
Change option to **File Transfer** from **No data transfer**



Now your PC recognize PM90 as MTP device

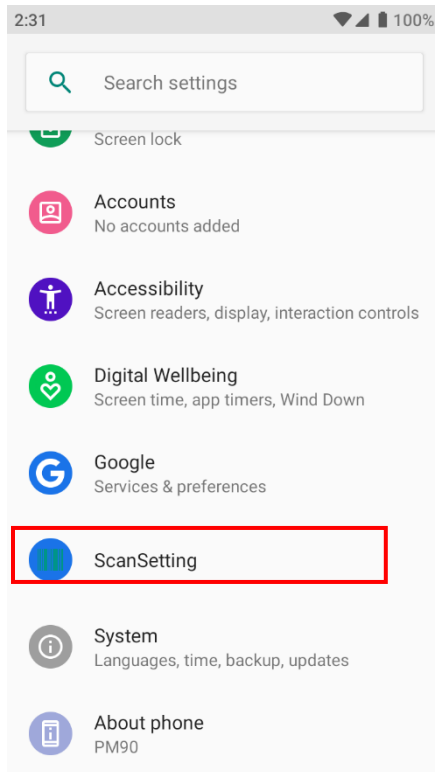
MTP connection with PC

Learning the basics





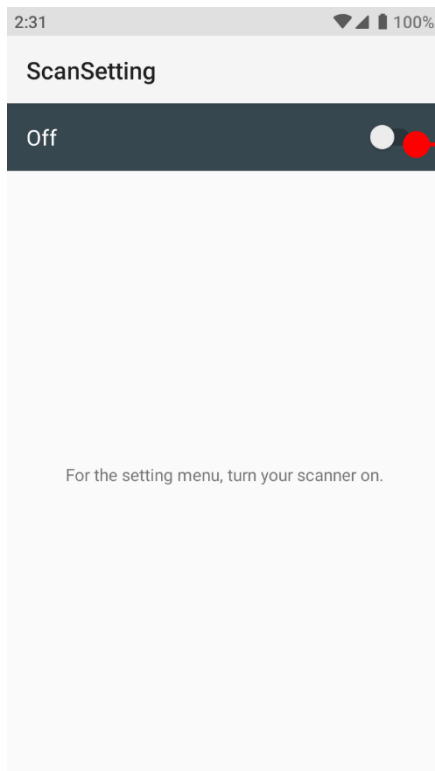
Use a Scanner

Scanner Settings



Default setting of Scanner is **Off**
To use the Scanner,

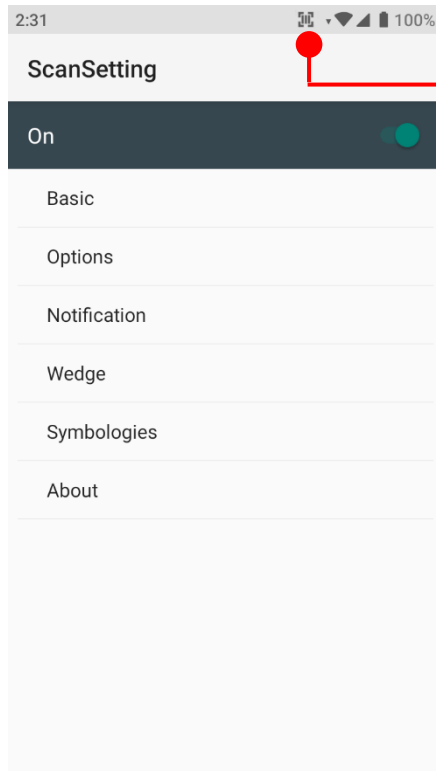
- Touch  EmKit and then **ScanSetting**
- **Settings**  and then **ScanSettings**



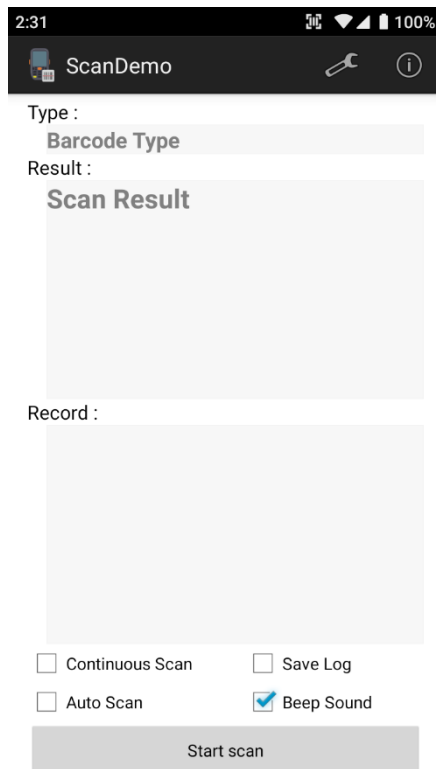
Touch to turn on the Scanner

Use a Scanner

Scanner Settings



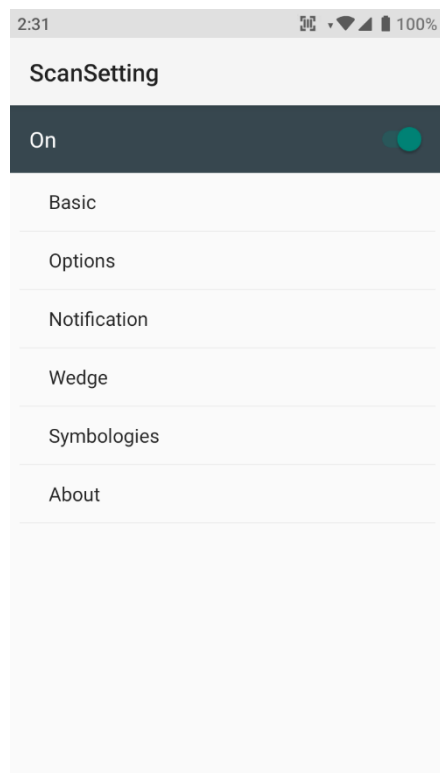
Now you can see **Scanner Wedge** icon in the **Status Bar**



Note: When “Scanner” turned on, you can scan the barcode with **ScanDemo** in the **EmKit**

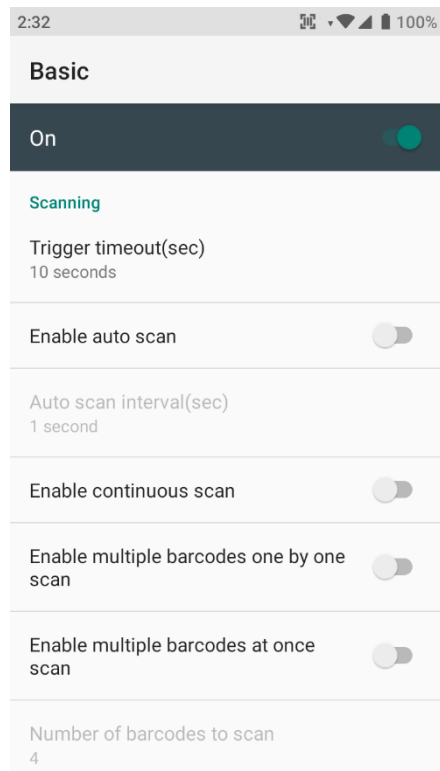
Use a Scanner

Scanner Settings



Scanner setting details

Scanner setting consist with **Basic**, **Options**, **Notification**, **Wedge**, **Symbologies**, and **About**

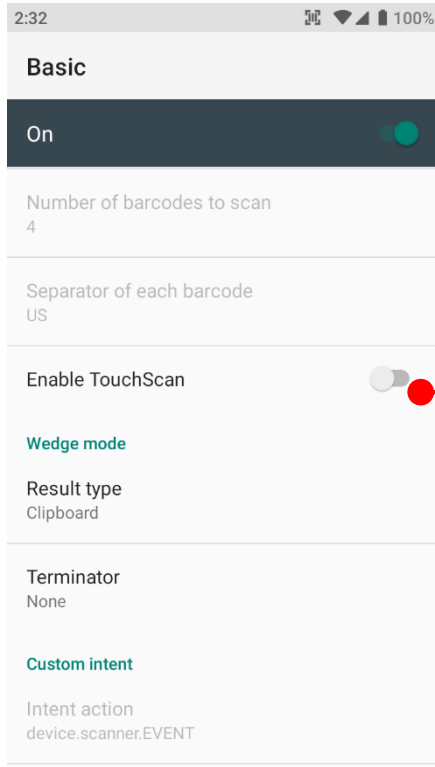


In the **Basic**, you can set **Scanning** option and **Wedge mode** option

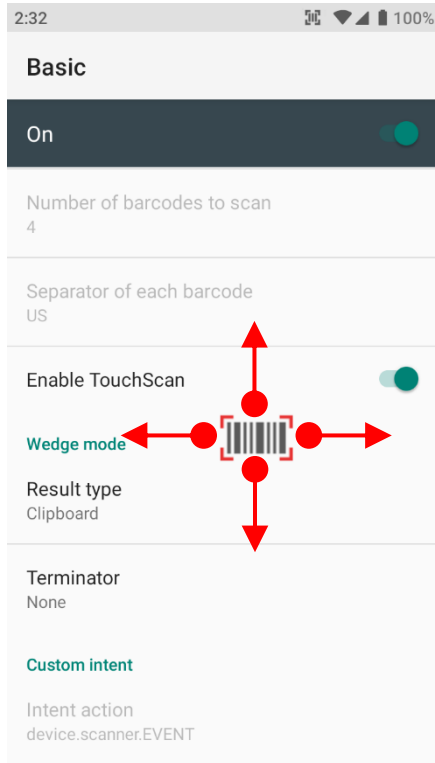
In the **Scanning** option, you can change Scanner's **Trigger timeout** and set **Auto scan** & **Continues scan** options

Use a Scanner

Scanner Settings



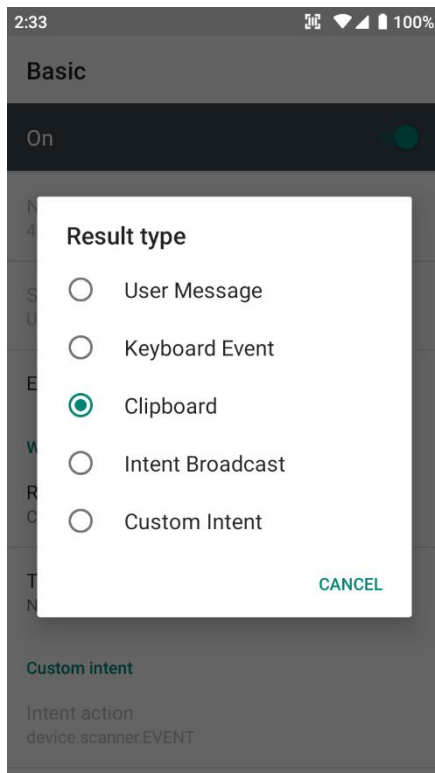
TouchScan is software scanner button. Touch to enable this function



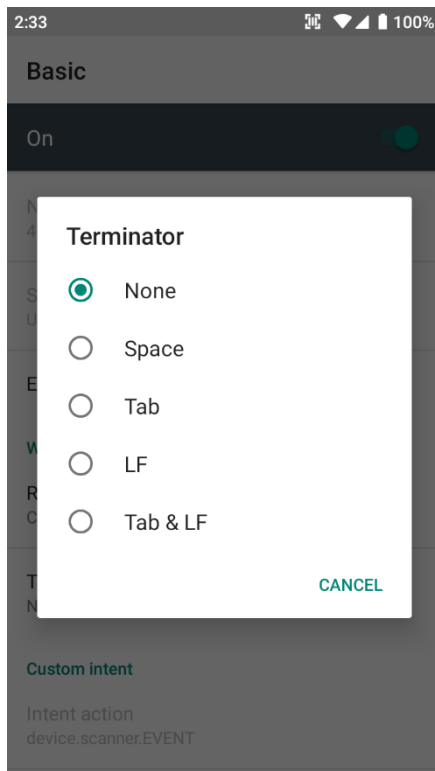
You can place **TouchScan** icon any position. Touch the icon to read a barcode.

Use a Scanner

Scanner Settings



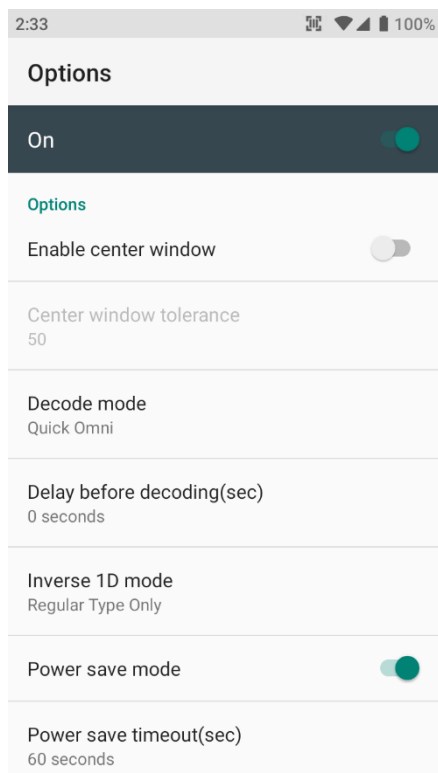
In the **Wedge menu** you can change, decode scan data's result type handling **User Message**, **Keyboard Event**, **Clipboard**, **Intent Broadcast** or **Custom Intent**



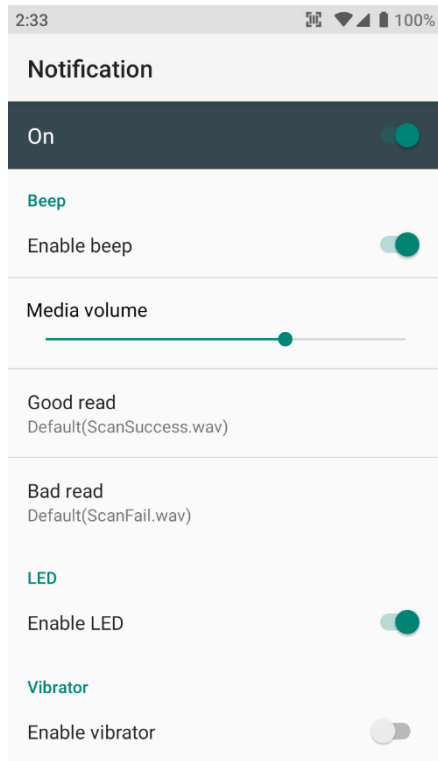
Also, you can set Terminator as **None**, **Space**, **Tab**, **LF** or **Tab & LF**

Use a Scanner

Scanner Settings



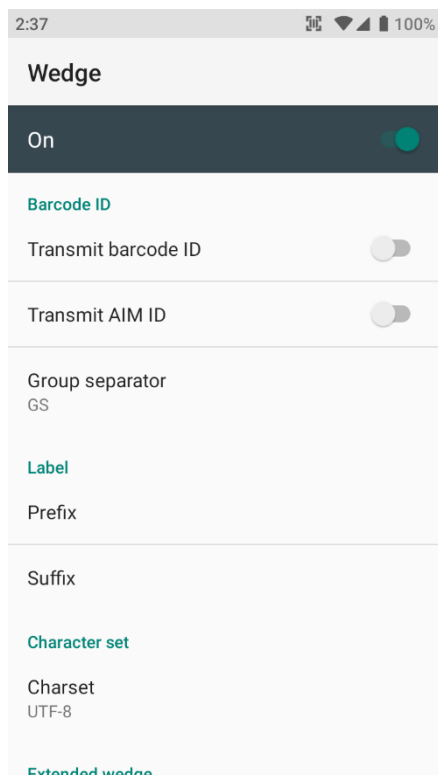
In the **Options**, you can enable/disable the **Center Window**, set **Decode mode**, **Power save mode** and enable/disable **Aimer & Illumination** option



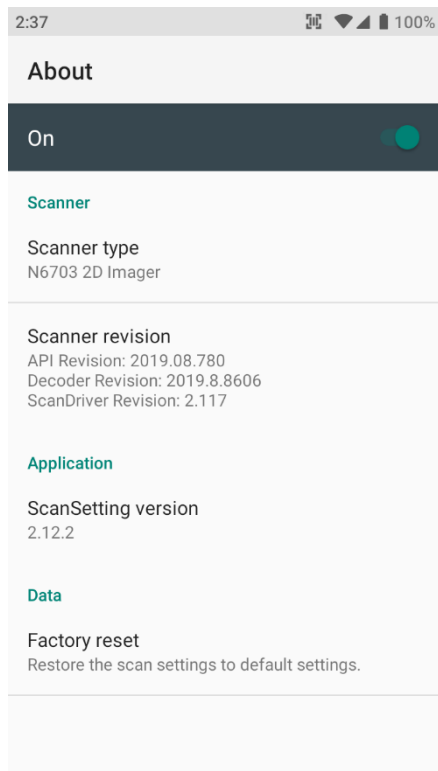
In the **Notification**, you can change the volume level, notification sound, LED and vibration option

Use a Scanner

Scanner Settings



In the **Wedge**, you can enable/disable **Barcode ID** and **Aim ID**, set **Group separator**, **Prefix & Suffix**, **Character set** and **Extended Wedge**.



In the **About**, you can check your Scanner's information and restore Scanner's settings to default

Scan a Barcode

Scanner Settings

Example of good Barcode reading



Idle barcode scan
Please aim the middle of barcode



Even you aim the barcode slightly upper or down area or angle is slightly tilted, you can read the barcode



Scan a Barcode

Scanner Settings

Example of bad Barcode reading



If you aim the barcode wrong direction or tilt too much, you can't read the barcode



If you aim part of Barcode or aim two barcodes together, you can't read the barcode



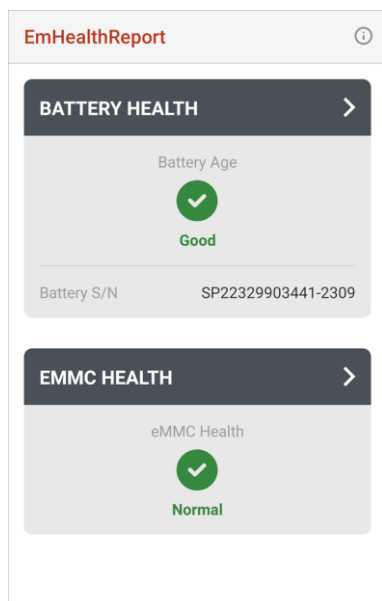
Check Device Health

System Maintenance

EmHealthReport is a solution that provides the device's battery and eMMC health.

Monitor the battery and eMMC status to foresight their lifetime or find the cause when there is a battery problem such as cannot charge the device or rapid battery discharge.

To use, open **EmKit**  and launch **EmHealthReport** . You can see the simple device health information on the main screen. To find detailed information, tap each blue arrow on the right side of the screen.



- **Battery Health**

- Battery Serial Number
- Battery Age
- Battery Level
- Battery Voltage
- Battery Temperature
- System Temperature
- Battery Manufacture Date
- Smart Charging Mode

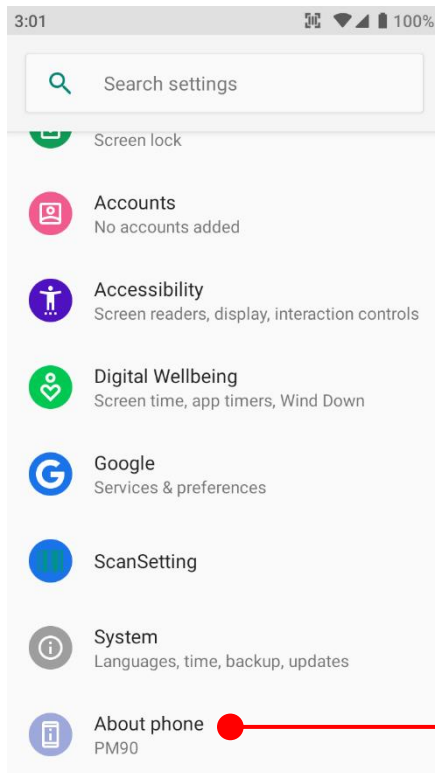
(Refer to [Smart Charging](#))

- **eMMC Health**


- Pre-EOL Information
- Device life time estimation type A
- Device life time estimation type B

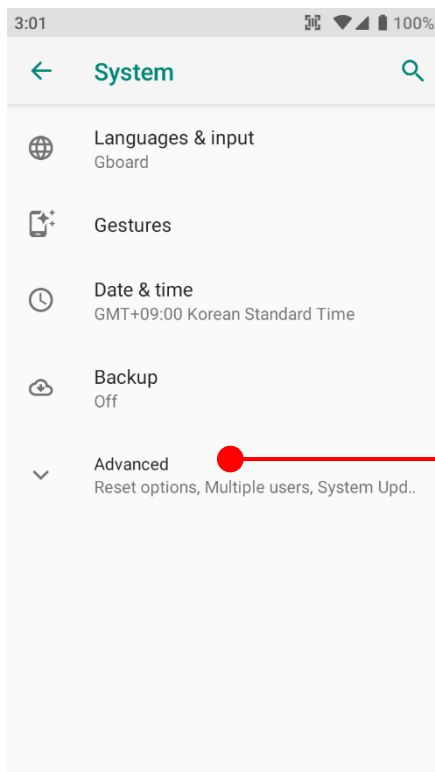
OS Image update from a Storage

System Maintenance



Note: To update OS image, copy or place OS image file into the **root folder** of “Internal Storage” or “External Storage”

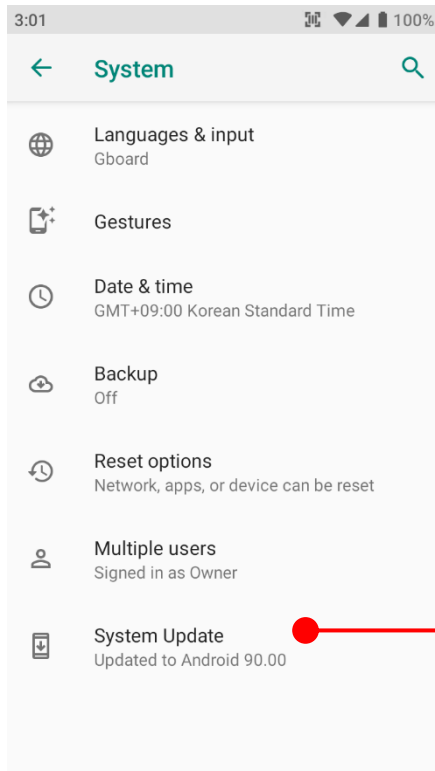
Settings  and then **About phone**



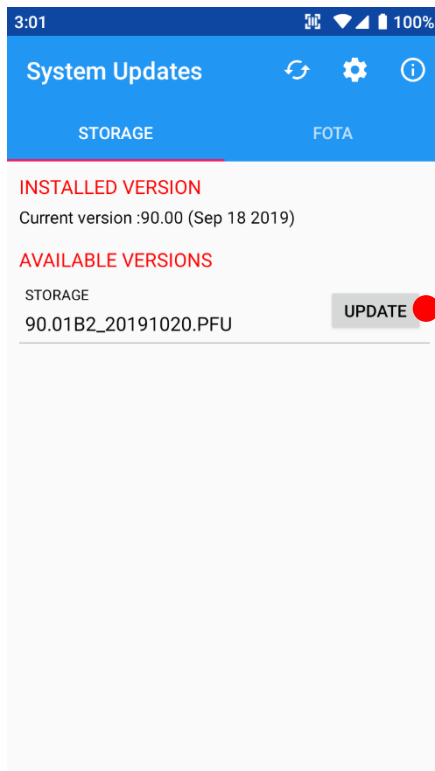
Touch Advanced

OS Image update from a Storage

System Maintenance



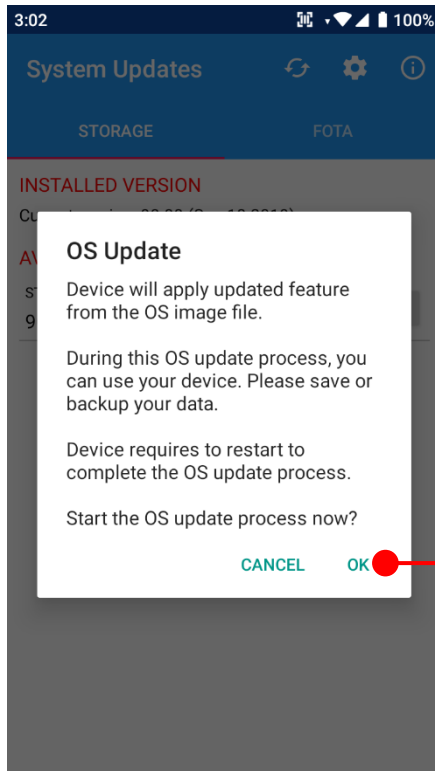
Touch **System Updates**



Your PM90 will check storage and display available OS image. Touch **UPDATE**

OS Image update from a Storage

System Maintenance

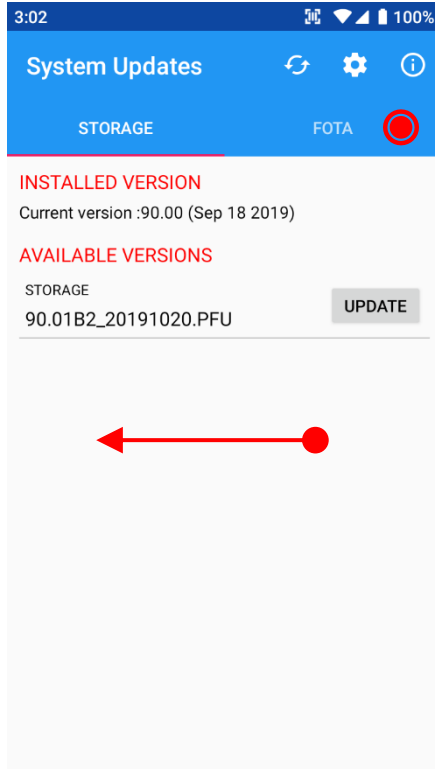


By touching the **OK** button, your PM90 start to update the OS image.
Please save the data before restart to complete OS update process.

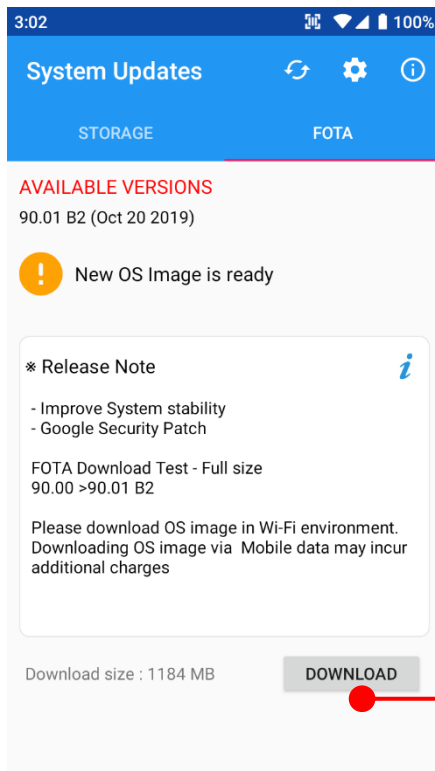
Note: Remaining battery level must be higher than 20%. Otherwise PM90 will not start OS update process.
Please check battery level first

OS Image update from the FOTA

System Maintenance



Swipe or touch **FOTA** tab

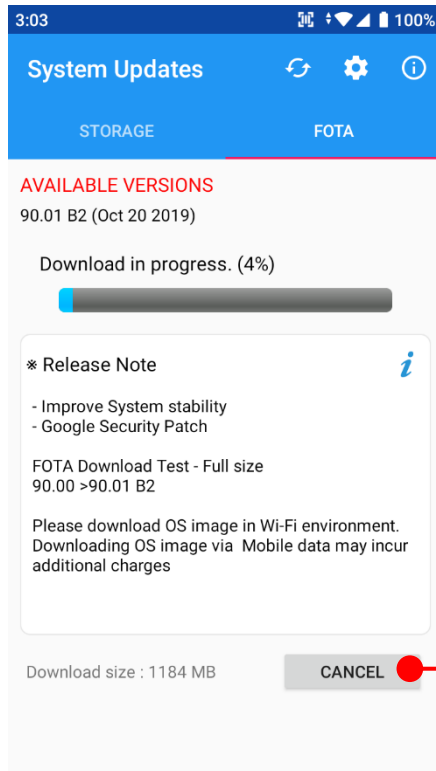


PM90 will compare the OS image between FOTA server and current OS image.
If there is newer OS image in the FOTA server, App will suggest download latest OS image

Touch **DOWNLOAD**

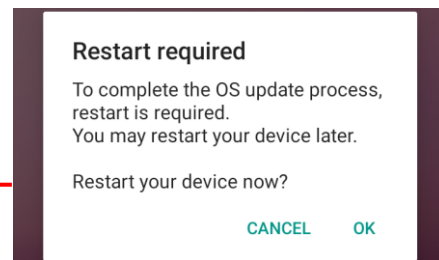
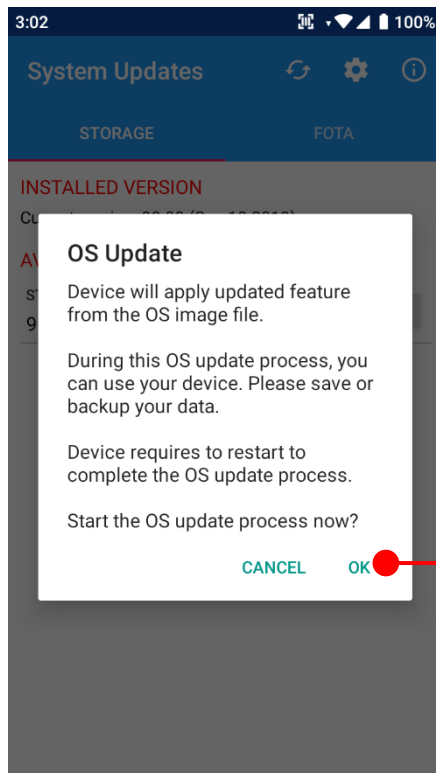
OS Image update from the FOTA

System Maintenance



Touch to cancel the download process

By touching the **OK** button, your PM90 start to update the OS image.
After OS update process, PM90 requires reboot



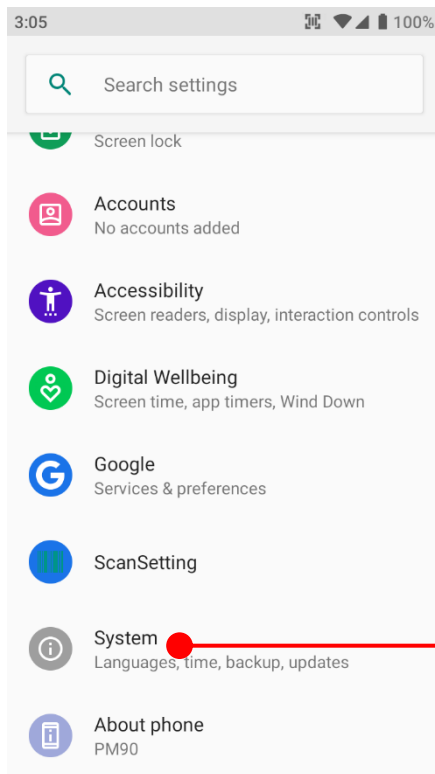
Please save the data before restart to complete OS update process.

Note: Default OS image download setting of FOTA Client is "Download over Wi-Fi only" Please connect to the nearby Wi-Fi network for FOTA service

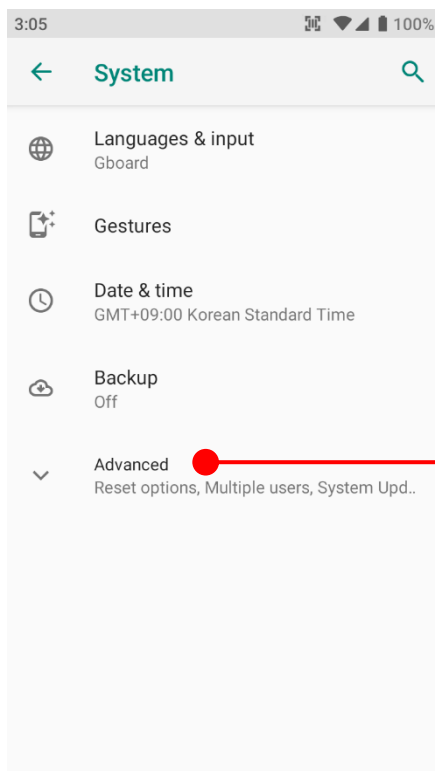
Remaining battery level must be higher than 20%. Otherwise PM90 will not start OS update process. Please check battery level first

Factory data reset from Settings

Factory data reset



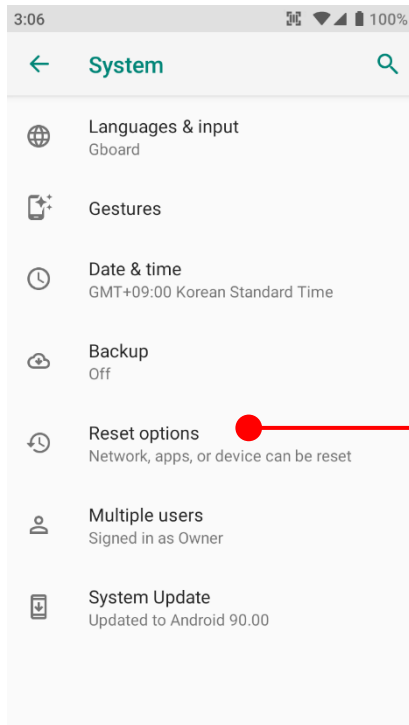
Settings  and then **System**



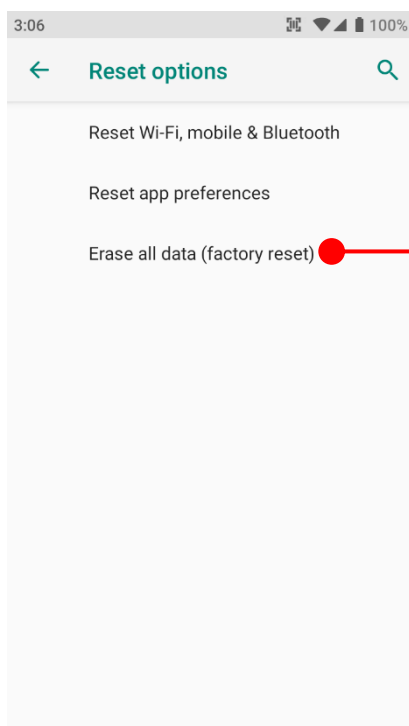
Touch Advanced

Factory data reset from Settings

Factory data reset



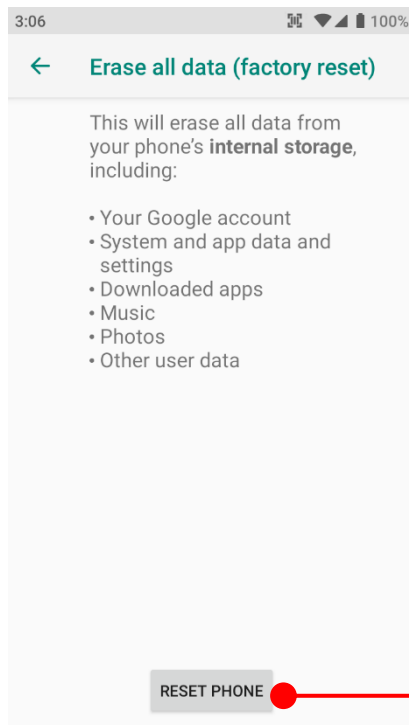
Touch **Reset options**



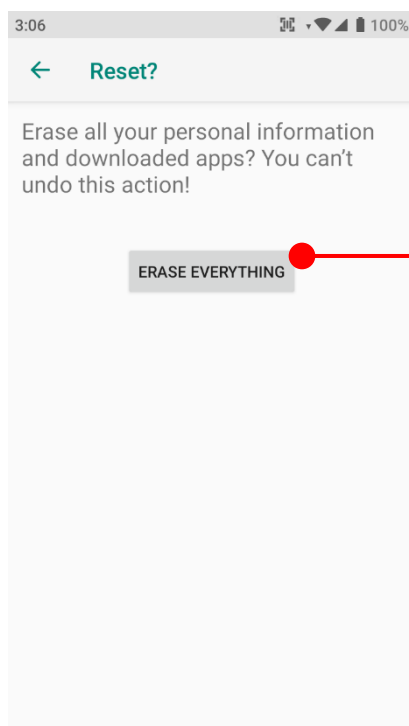
Touch **Erase all data (factory reset)**

Factory data reset from Settings

Factory data reset



Please review reset item lists and touch **RESET PHONE**



Please note, all apps and data in the internal storage will be deleted and restored to "Factory default" and this process cannot **Undo**

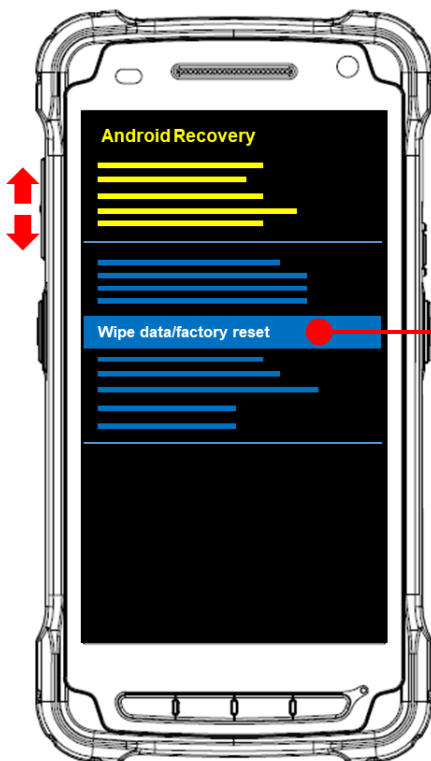
Touch **ERASE EVERYTHING**

Force Factory data reset

Factory data reset

Force Factory data reset your PM90

You can perform “force” factory data reset your PM90. When your PM90 turned off, press **Power + Volume Up + Home** button all together. After you see **Smart Beyond Rugged** logo display, you may release the keys.



PM90 enter to the **Android Recovery** mode. In this mode, **Volume up** is **Move Up** in the menu tree and **Volume down** is **Move Down** in the menu tree. **Power Button** is **Select**

Select

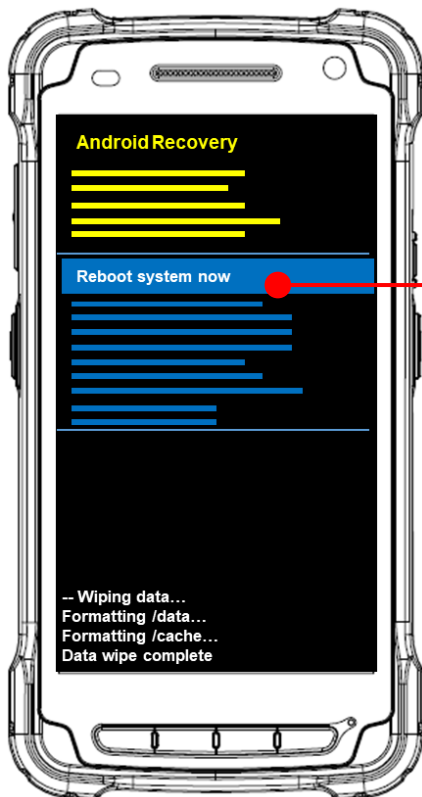
Select Wipe data/factory reset

Force Factory data reset

Factory data reset



Select **Yes wipe all user data** to perform the Factory data reset.



After data wiping, please select **Reboot system now** to finish the Force Factory data reset process

Safety and Legal Info

Battery Safety Information

Follow the battery safety guidelines for safe usage, storage, and disposal of Li-ion batteries. Improper battery use may result in a fire, explosion, or other critical hazards.

Battery Safety Guidelines

- Use only Point Mobile approved batteries and charging accessories. Other batteries and chargers may damage the device or result in a fire, leakage, or other hazards.
- Do not expose the battery to excessive heat or cold.
- Do not use or store the battery in or near areas that might get very hot, such as in a parked vehicle, near a heat duct or close to other heat sources.
- Do not allow objects that may cause a short circuit, such as metal objects, corrosive substances, or liquids like water, to contact the battery.
- Do not disassemble, crush, bend, shred, press, or other actions that may damage or deform the battery.
- Do not use or replace the battery on the go or from a high location. Dropping may result in an explosion or fire.
- Do not put any labels, stickers, tags, etc. on the device or battery. Performance of the device or battery, such as sealing, drop, or tumble, could be affected.
- Close supervision is necessary when used near children to avoid the risk of injury.
- If battery leakage is observed, avoid any contact with the skin or eyes and properly dispose of the battery. If contact has been made, wash the affected area with water for 15 minutes and seek medical advice.
- If you notice any type of damage to the battery, such as swelling, dents, and leaks, stop using it immediately and contact Point Mobile.

Battery Charging Guidelines

- Charge the battery in a clean, cool, dry, and ventilated environment.
- Separate the charger from the battery as soon as possible when the battery is fully charged.
- Battery performance can degrade due to the stress of daily charging and discharging. Batteries typically need to be replaced after 300 to 500 charging cycles (full charge-discharge cycles) or when the battery capacity has been reduced to 70 ~ 80% of its original capacity. The actual number of charging cycles varies based on usage patterns, temperature, age, and other factors.

Safety and Legal Info

Battery Storage / Disposal Guidelines

- Store the batteries in a clean, dry and ventilated environment within ambient temperature ranges of $20\pm 5^{\circ}\text{C}$.
- For safety regulations, batteries are charged to below 20~30% of full capacity during production.
- When not using batteries for a long period, charge the battery for 30 minutes to 1 hour at least once every 6 months to prevent full discharge and keep the performance.
- Batteries should be stored separately when storing for long periods. Disconnect from any device, charger, or cradle.
- Dispose of used batteries promptly according to local disposal regulations.
- Do not dispose of the battery in fire. It may cause explosion.



Notice: The battery is consumable. Point Mobile provides a warranty for the battery for 12 months after purchase.

If you suspect the battery swelling, change the battery immediately and contact Point Mobile.

Safety and Legal Info

Battery Warning

CAUTION

IF MISUSED OR MISTREATED THE BATTERY MAY PRESENT A RISK OF FIRE OR CHEMICAL BURN.
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

Un remplacement inadéquat de la batterie ou une utilisation incompatible de l'appareil peut présenter des risques de brûlures, d'incendie, d'explosion ou d'autres dangers.

Jetez les piles en lithium-ion conformément aux réglementations locales.

Body-worn Operation



This device was tested for typical bodyworn operations with the Front & back of the device kept 0.59 inches (1.5cm) between the

user's body and the Front & back of the device. To comply with FCC RF exposure requirements, a minimum separation distance of

0.59 inches (1.5cm) must be maintained between the user's body and the Front & back of the device. Any beltclips, holsters, and

similar accessories containing metallic components may not be used. Body-worn accessories that cannot maintain 0.59 inches (1.5cm)

www.sar-tick.com

separation distance between the user's body and the Front & back of the device, and have not been tested for typical body-worn

operations may not comply with FCC RF exposure limits and should be avoided.

Safety and Legal Info

FCC Warning

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment 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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to 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.

Caution : Any changes or modifications to this device not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

IC (Industry Canada) Warning

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

This device is restricted to indoor use only within the 5.15 ~ 5.35GHz Band.

Cet appareil est restreint à l'utilisation à l'intérieur seulement dans la bande 5.15 ~ 5.35GHz.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC/IC.

Cet équipement est conforme aux limites d'exposition aux radiations FCC / IC définies pour un environnement non contrôlé. Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, à moins d'être autorisé à le faire par le FCC / IC

Safety and Legal Info

Laser Warning

- LASER LIGHT. DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT. 1.0 mW MAX OUTPUT 650 nm.

(LUMIERE LASER, NE PAS REGARDER DIRECTEMENT DANS LE FAISCEAU, PRODUIT LASER DE CLASSE 2, SORTIE MAX. DE 1,0 MW: 650 nm.)

- Complies With 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50 dated June 24 2007. (Cet appareil a ete teste et reconnu conforme aux normes 21 CFR 1040.10 et 1040.11sauf pour les derogations en accord avec l'avis de conformite sur les lasers No. 50, en date du 24 juin 2007.)

E-label

Users can access to the product certificate information in Settings → About phone → Certificates.

WCDMA/LTE feature is optional. Some product options only include WLAN feature.

FCC ID : V2X-PM90G (PHONE), V2X-PM90W (WLAN)

IC ID : 10664A-PM90G (PHONE), 10664A-PM90W (WLAN)

Safety and Legal Info

KC 사용 안전정보

본 제품의 전자파흡수율은 과학기술정보통신부의 「전자파 인체보호기준」을 만족합니다.

본 제품은 국립전파연구원의 「전자파흡수율 측정기준」에 따라 최대 출력 조건에서 귀에 근접하여 시험되었으며, 최대 전자파 흡수율 측정값은 다음과 같습니다.

Model 명	PM90
머리 전자파흡수율	0.971 W/kg

※ 전자파흡수율 (SAR : Specific Absorption Rate)은 휴대전화를 사용할 때 인체에 흡수될 수 있는 전자파의 양으로 우리나라는 국제권고기준인 2 W/kg 보다 엄격한 1.6 W/kg 기준을 적용하고 있습니다.

※ 전자파흡수율에 대한 자세한 정보는 국립전파연구원 (www.rra.go.kr) 또는 제조사 홈페이지에서 확인할 수 있습니다.

※ 본 기기는 인체로부터 15 mm 이상 이격 하여 사용하는 것을 권장합니다

적합성 평가	내용
기자재의 명칭	LTE 이동통신용 무선설비의 기기(육상이동국의 송수신장치)
모델명	PM90
상호명	주식회사 포인트모바일
제조사/제조국가	주식회사 포인트모바일 / 중국
제조년월	2019



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