POINT Mobile

For Android™ 9

Enterprise Mobility
PM90
User Manual

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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 on page 75

> **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 03

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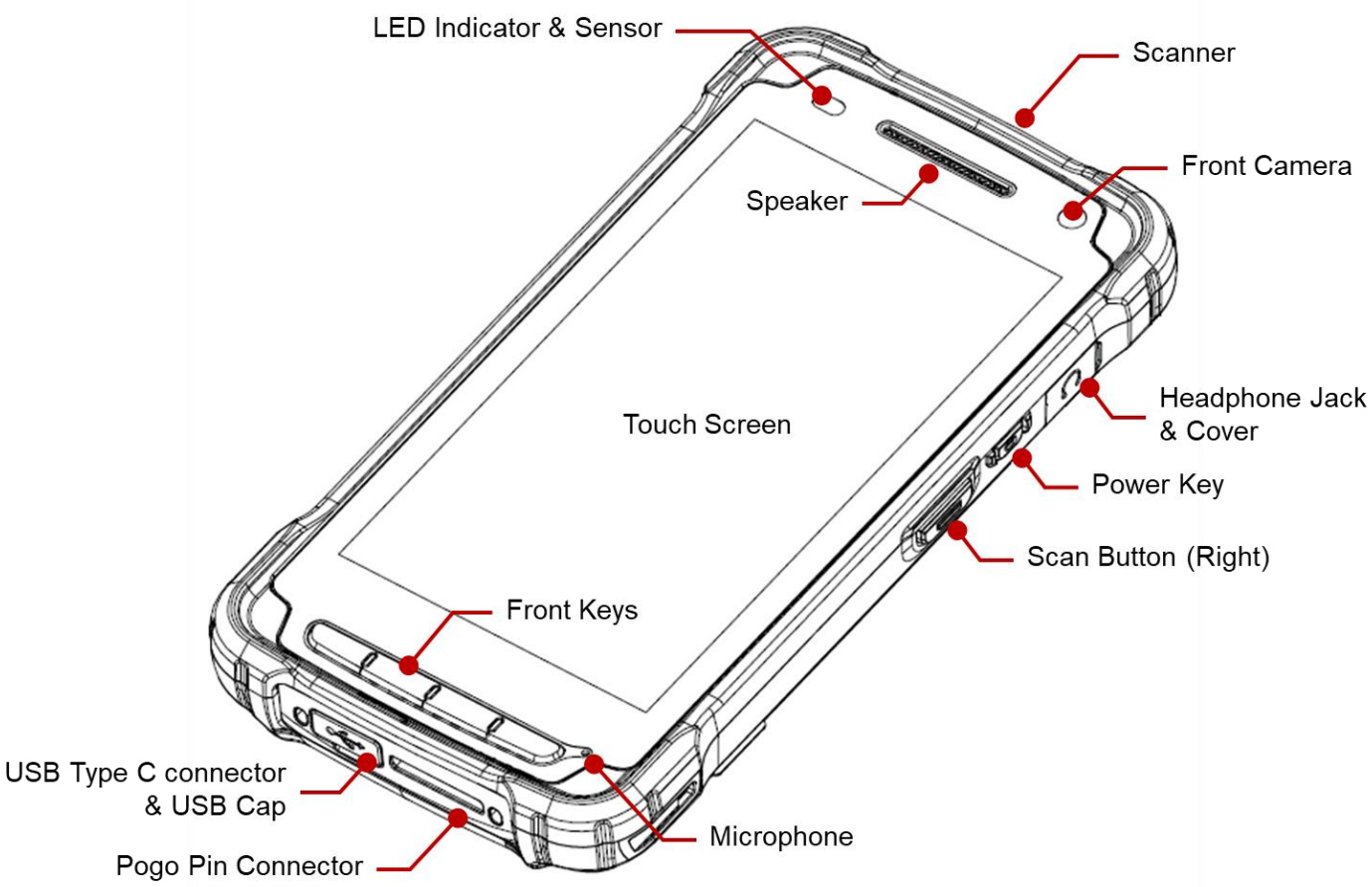
Major Parts



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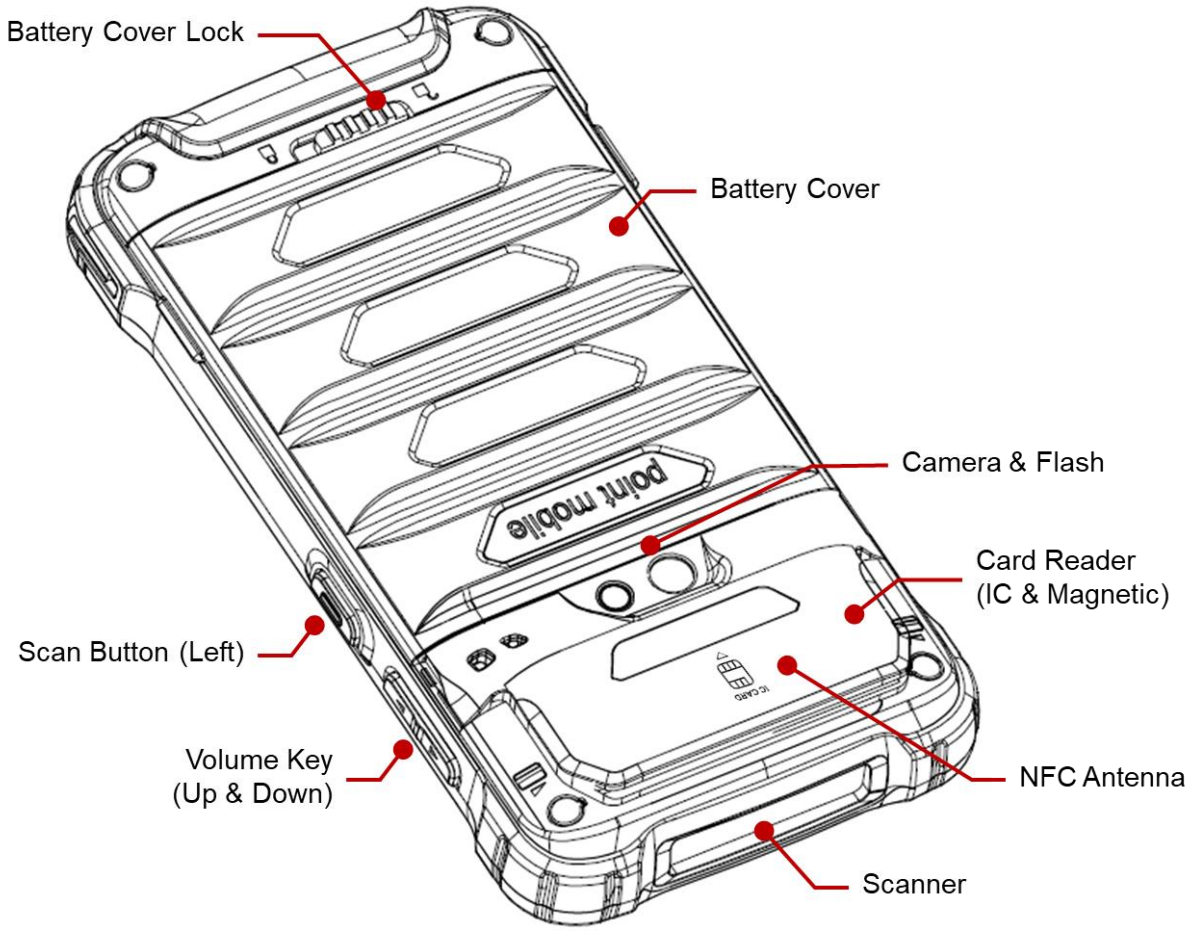
Major Parts



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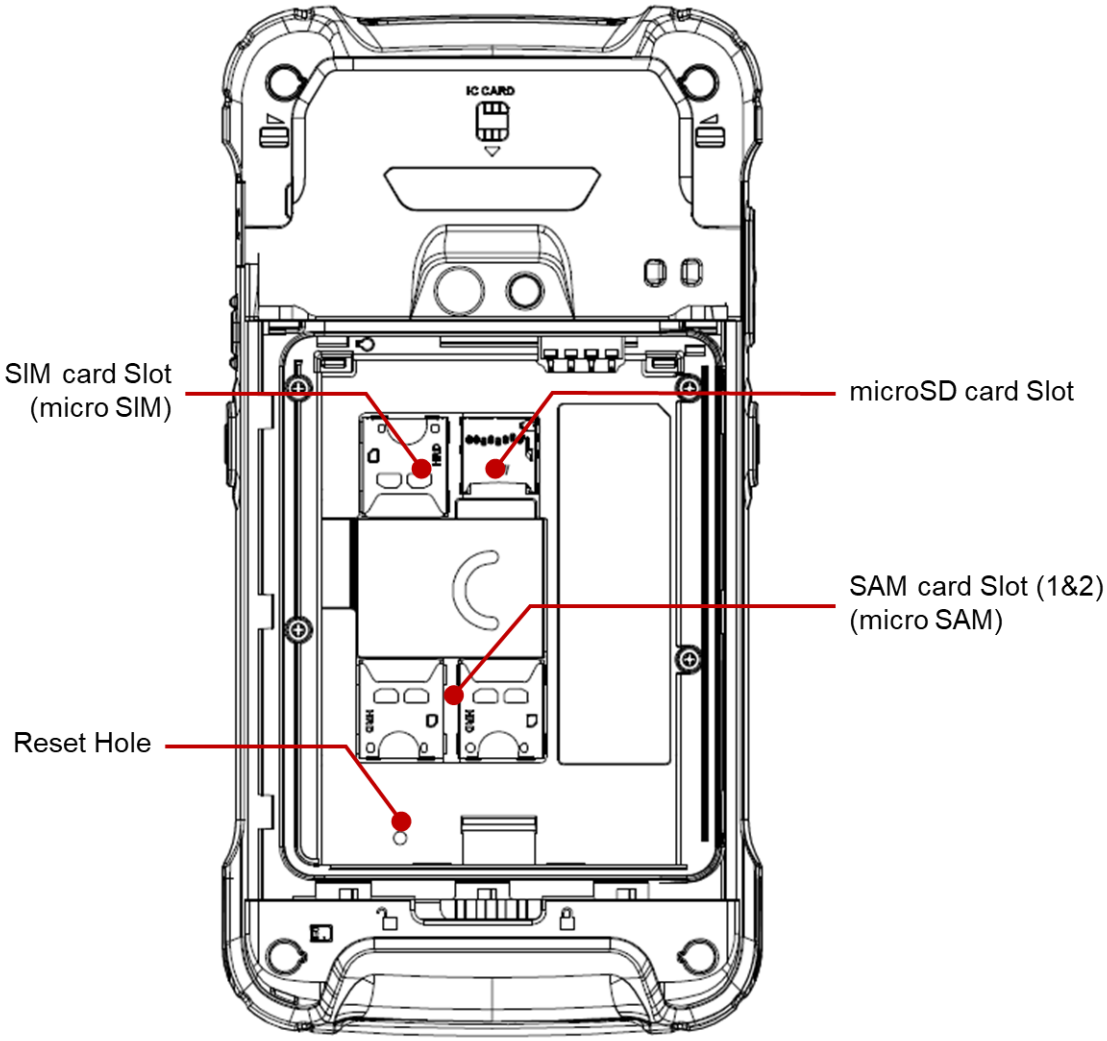
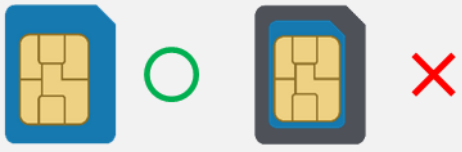
Major Parts



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

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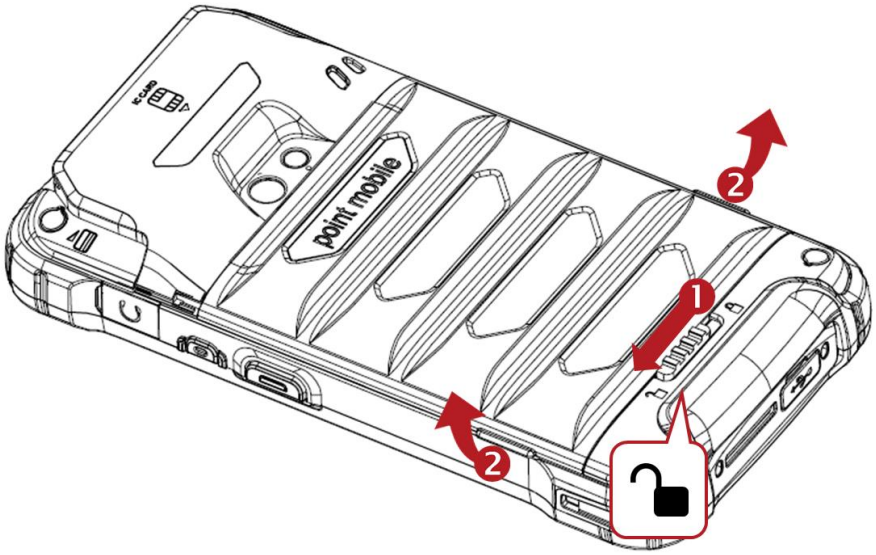
Setup PM90

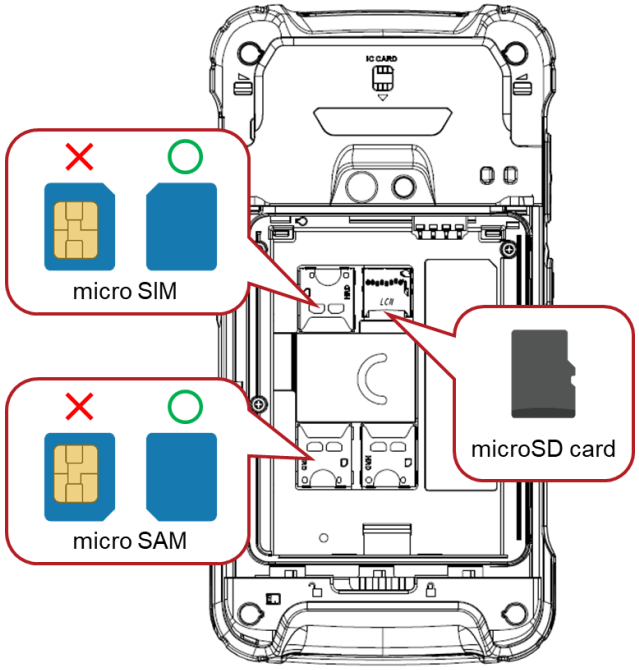
Remove the Battery Cover

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.

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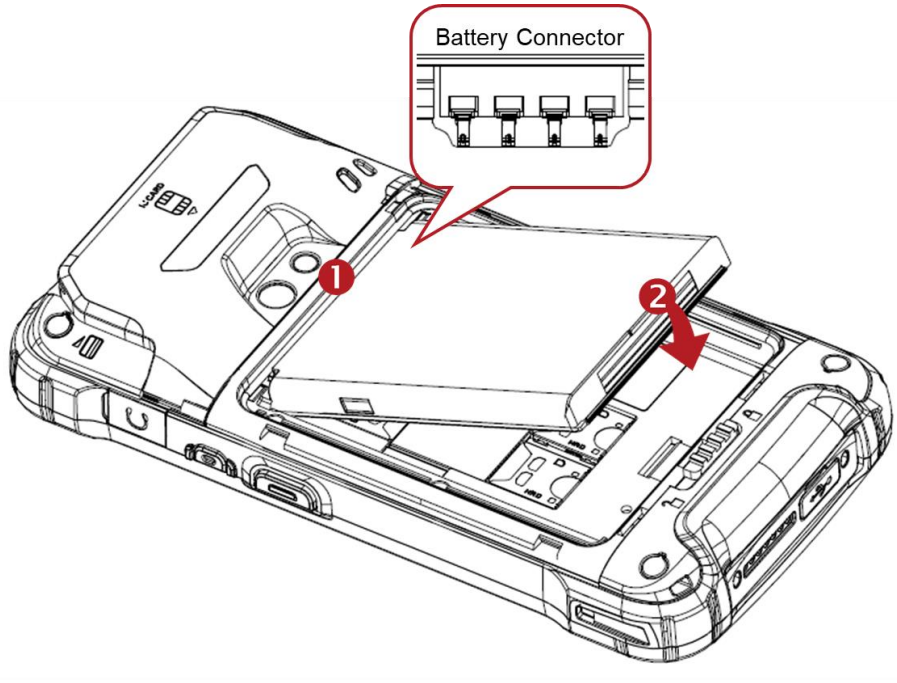
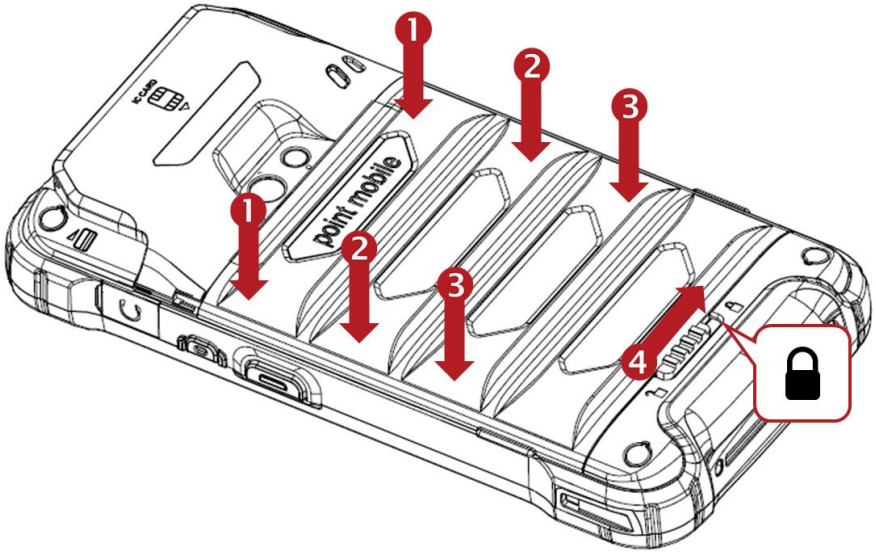
Setup PM90

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



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Turn On/Off PM90

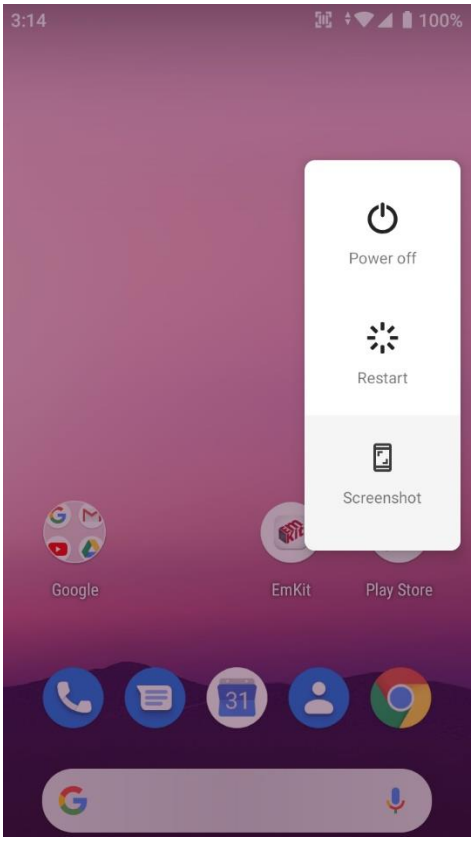
Turn On

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**

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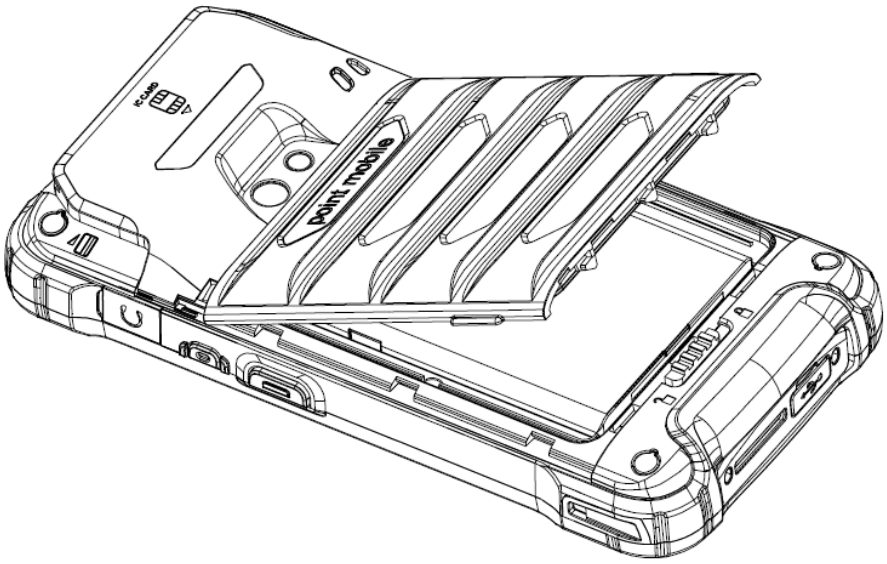
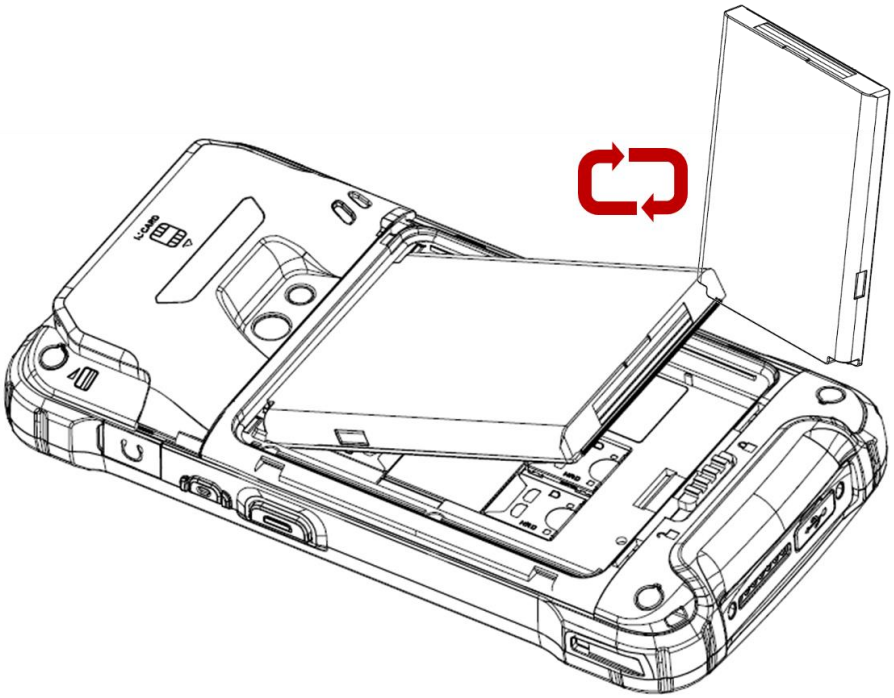
Hot swap the Battery

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



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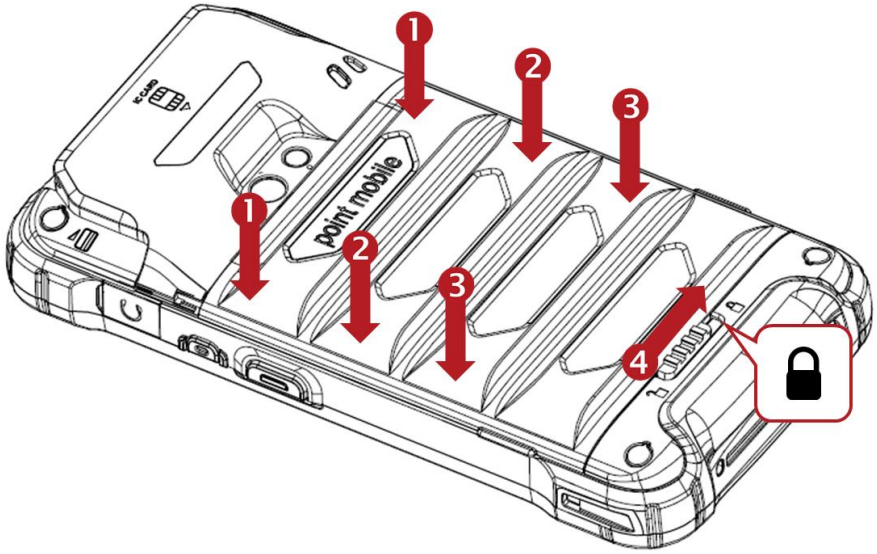
Hot swap the Battery

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



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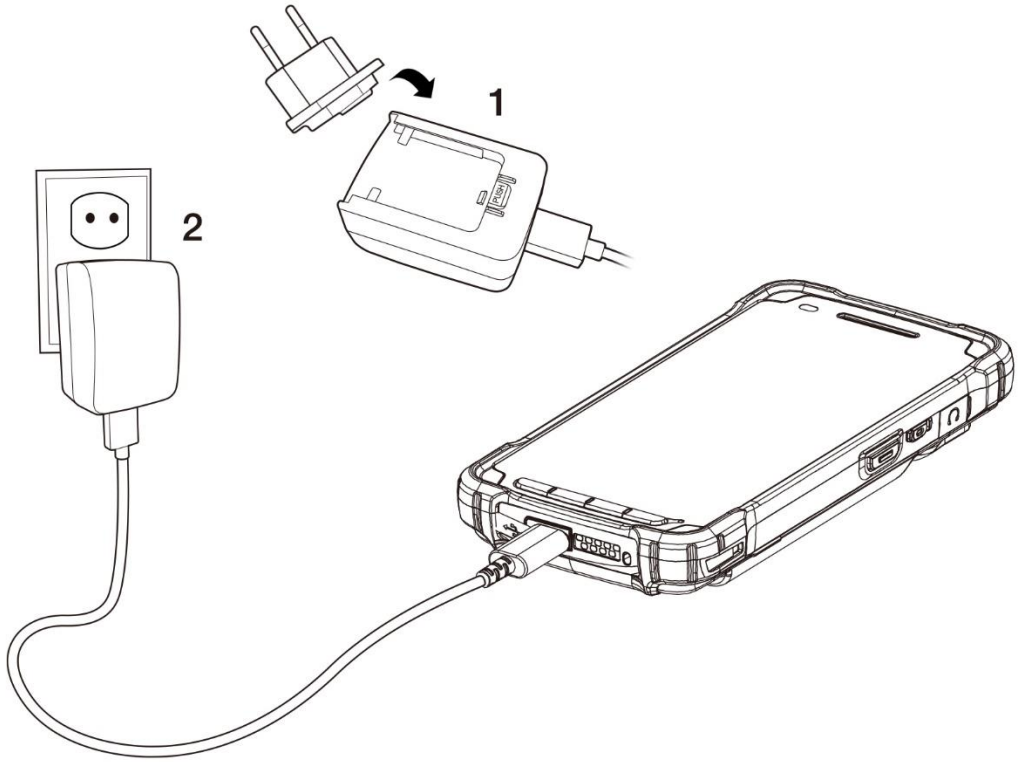
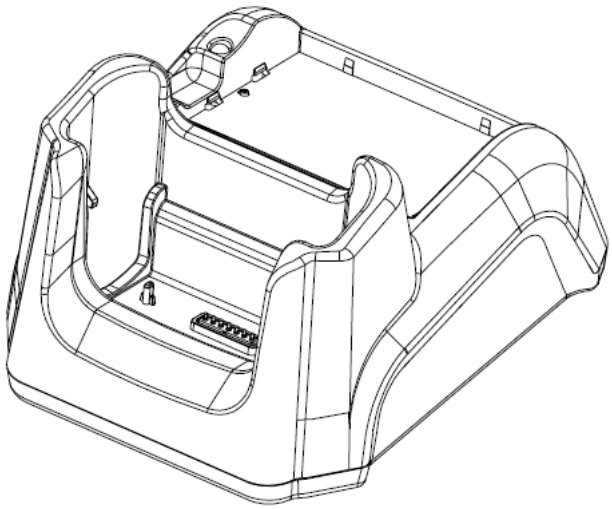
Charge PM90

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)

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Charge PM90

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

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Use a keypad

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

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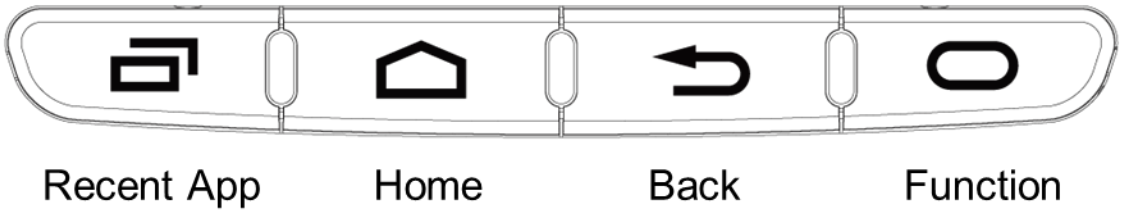
Use a keypad

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**

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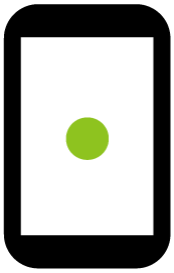
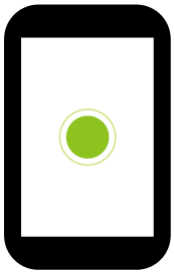
Use a touch screen



Touch

One-finger press

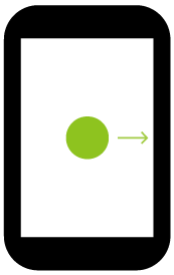


Double touch

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

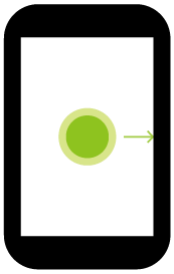
Long press

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**

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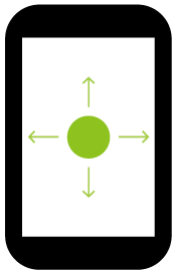
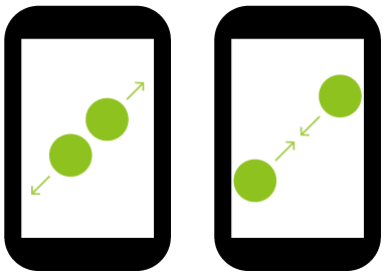
Use a touch screen



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

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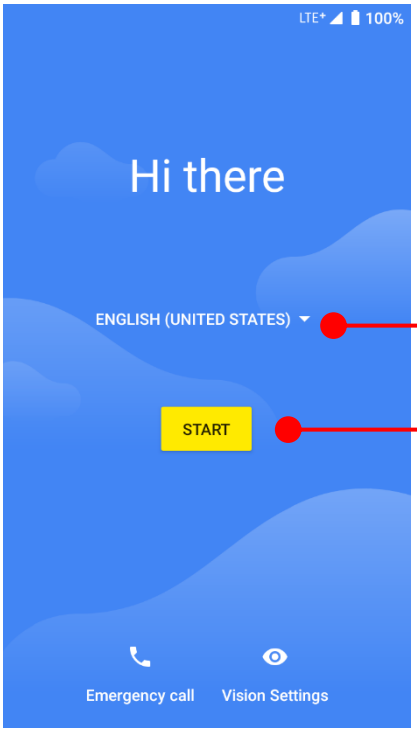
Setup Wizard

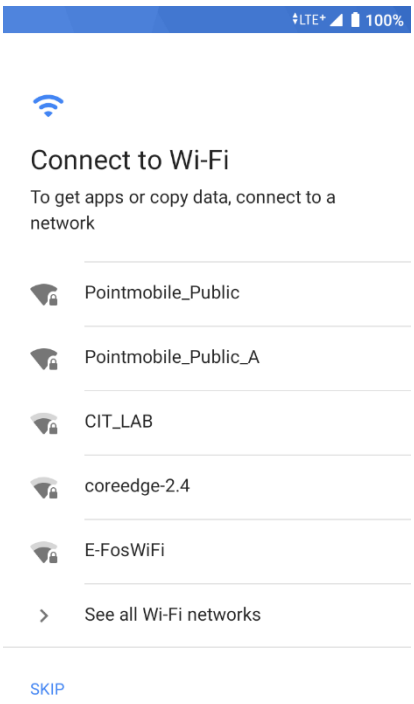


When you power on your device very first time or boot after factory reset, you need to setup your device first

Language Selection

- Choose your language during setup process.

Touch to start setup your device



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

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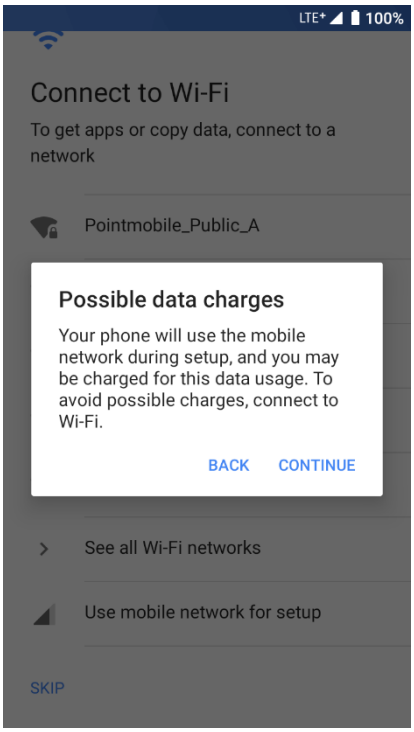
Setup Wizard



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

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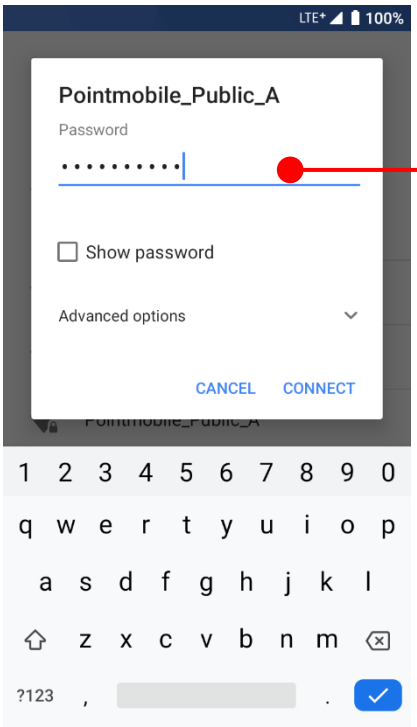
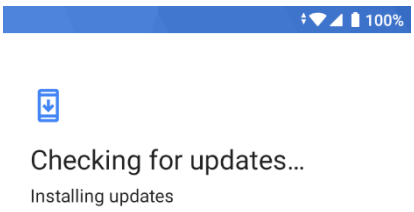
Setup Wizard



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



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

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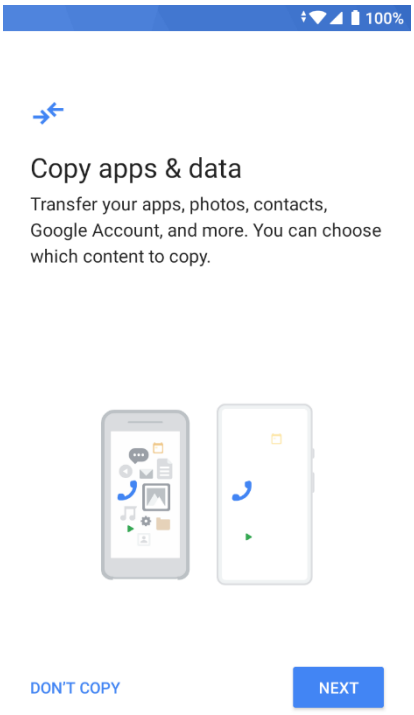
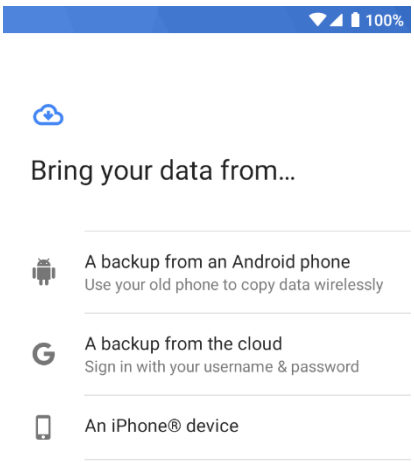
Setup Wizard



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

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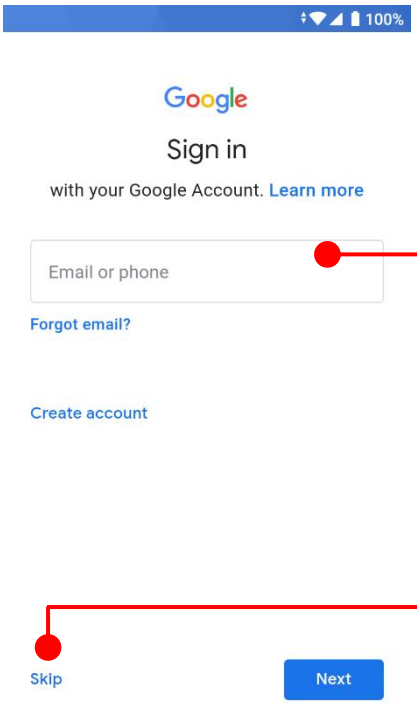
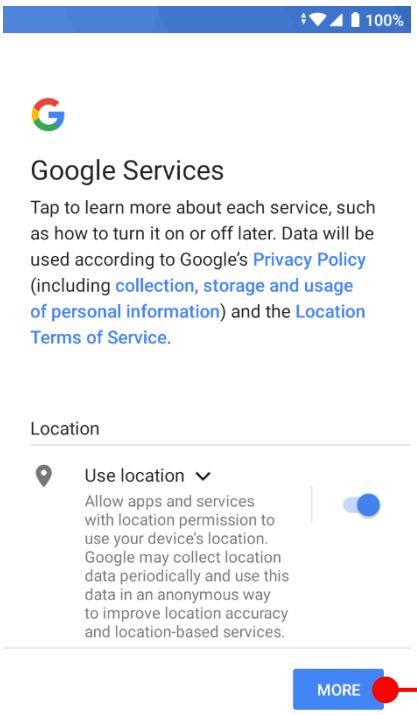
Setup Wizard



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**



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

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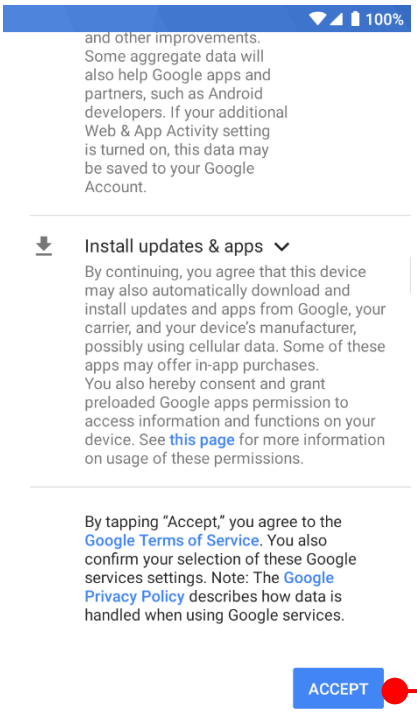
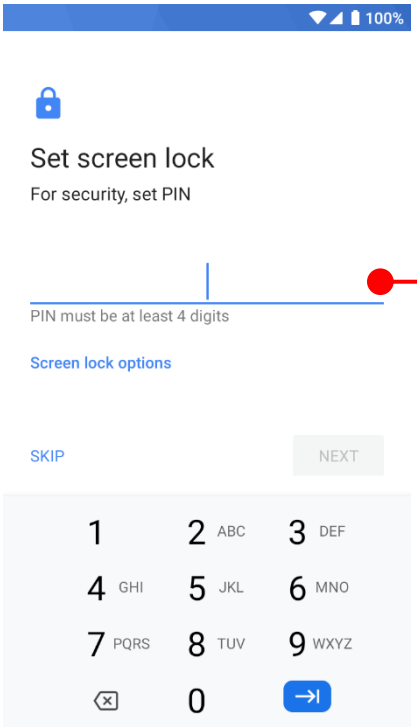
Setup Wizard



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**

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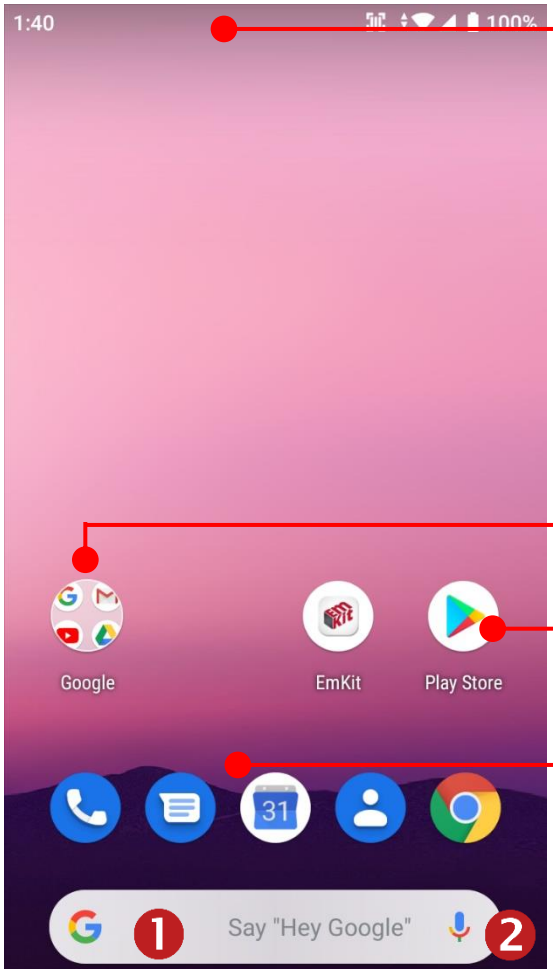
Home Screen, Apps and Widget

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

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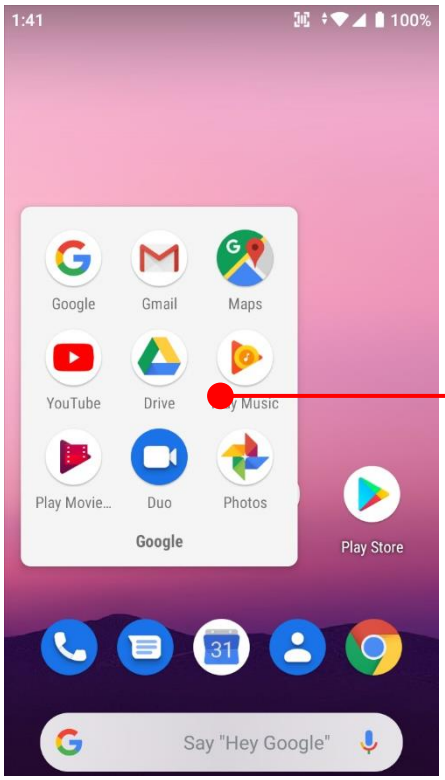
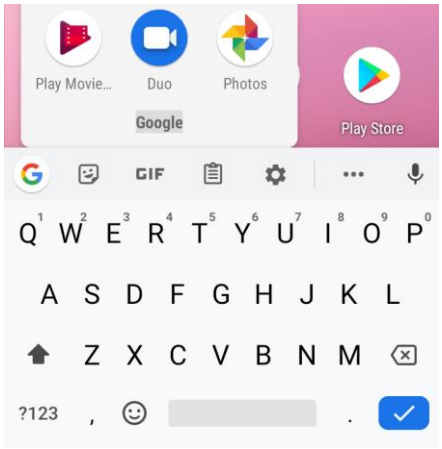
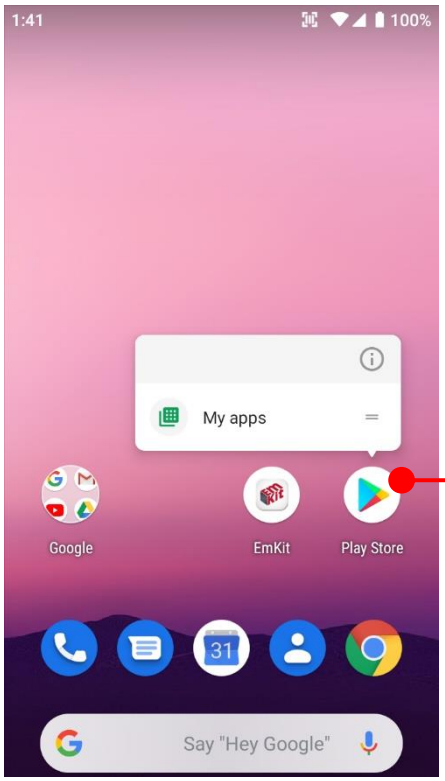
Home Screen, Apps and Widget



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 different by app

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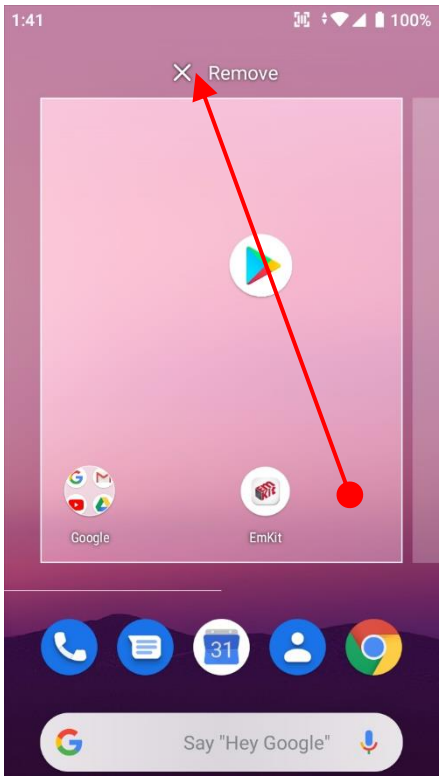
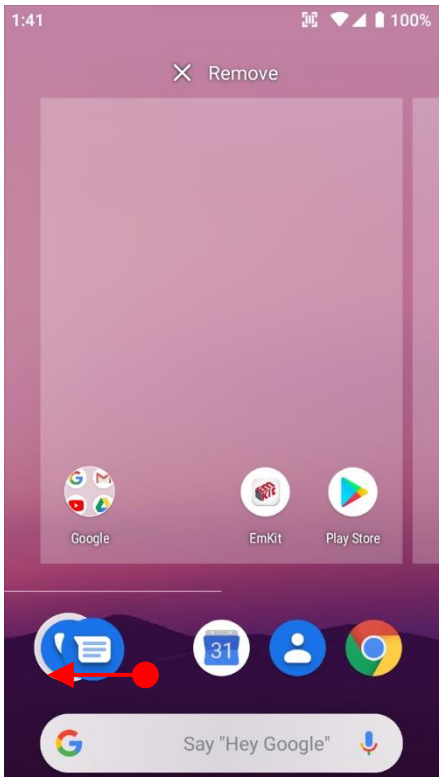
Home Screen, Apps and Widget



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

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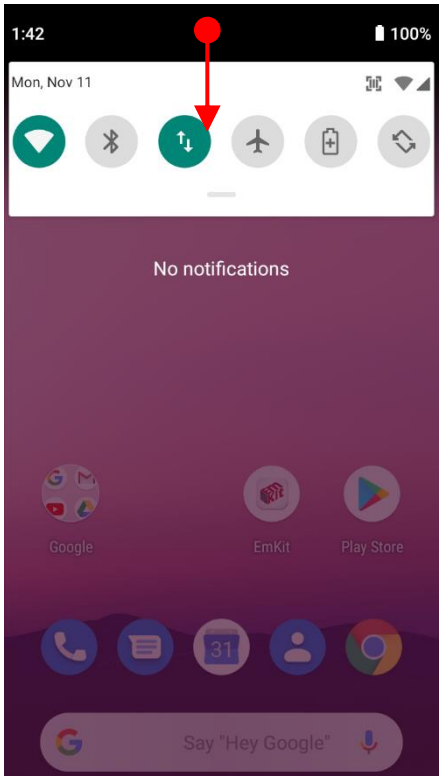
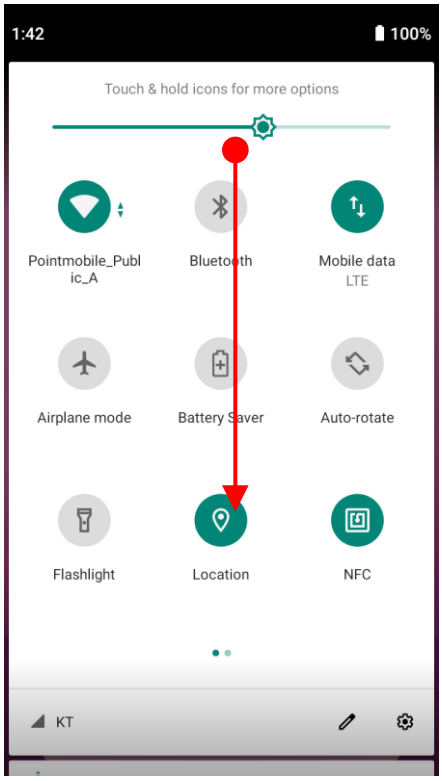
Home Screen, Apps and Widget



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.

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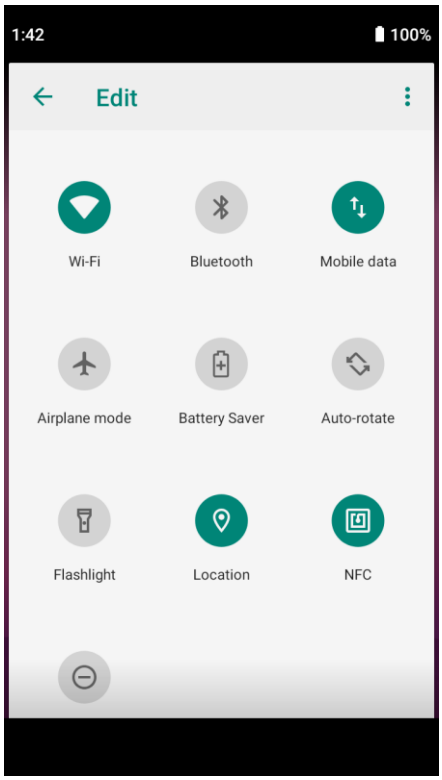
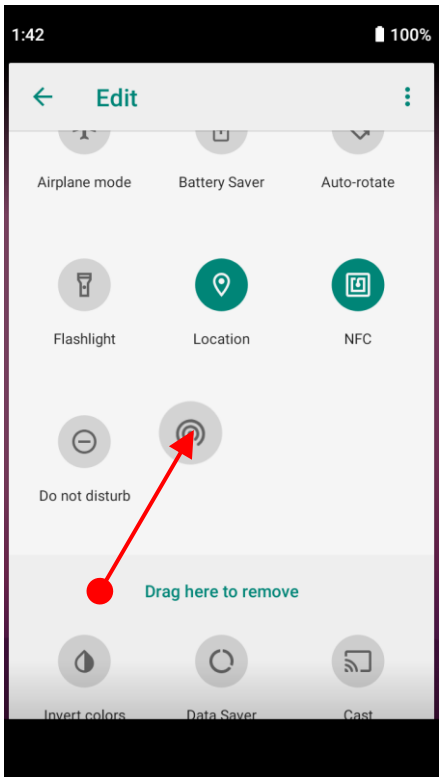


Edit Quick settings panel

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**

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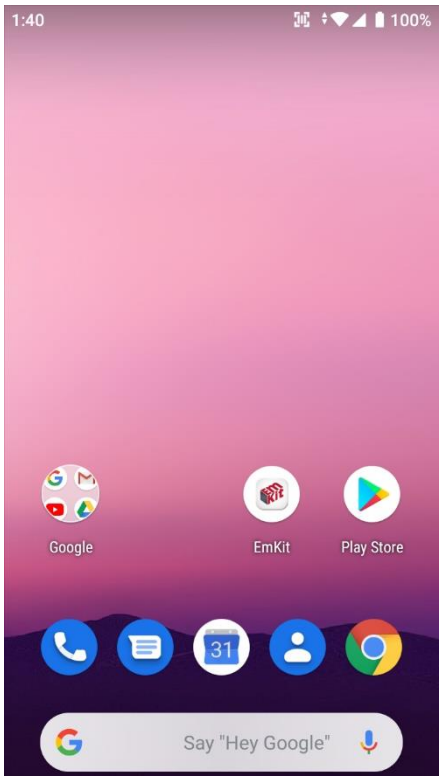
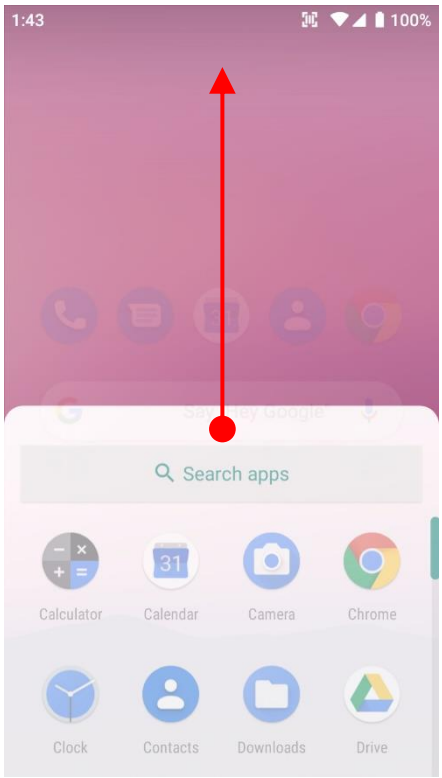
Home Screen, Apps and Widget





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

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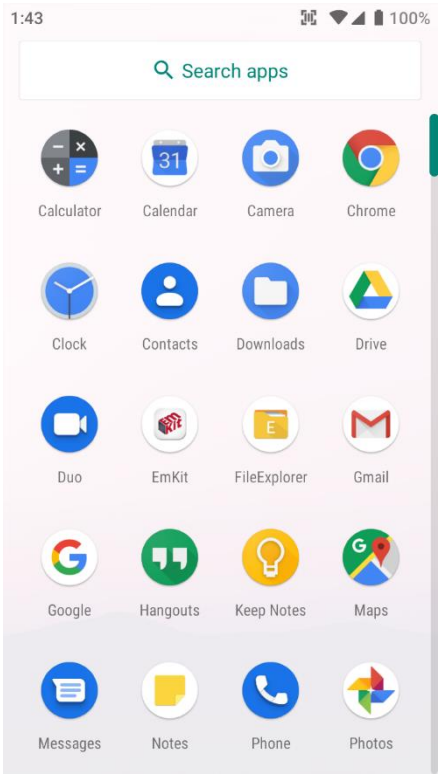
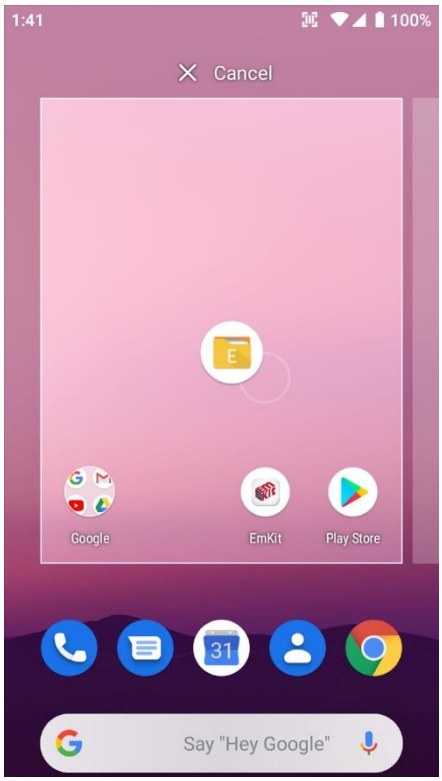
Home Screen, Apps and Widget



All installed apps are listed alphabetically

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



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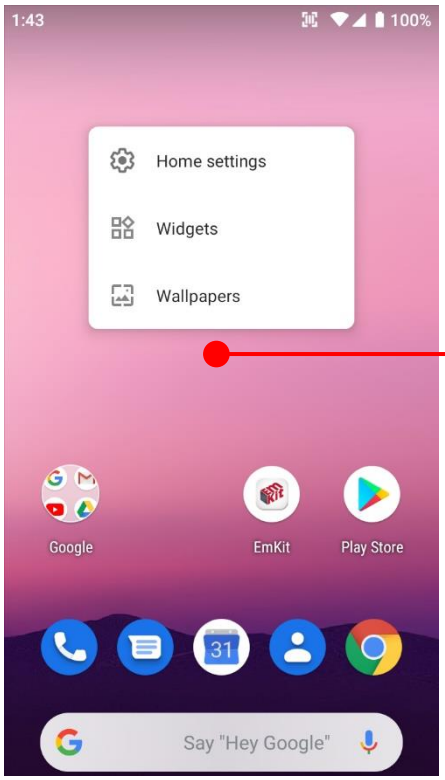
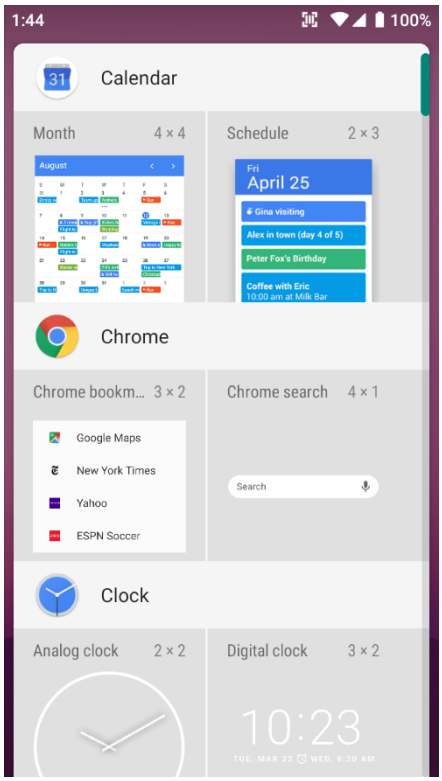
Home Screen, Apps and Widget



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

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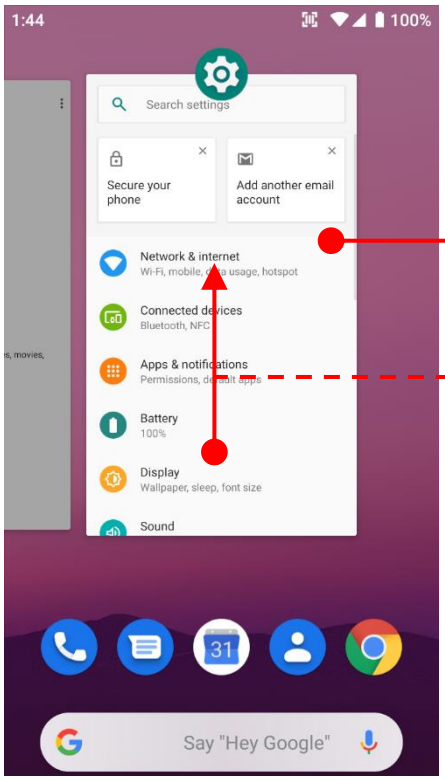
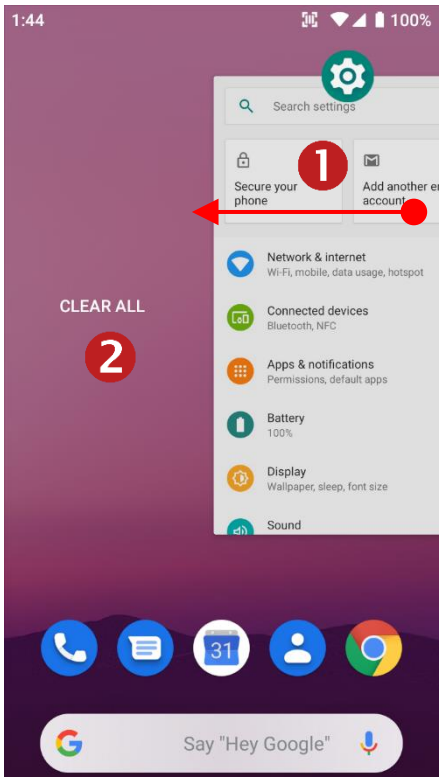
Home Screen, Apps and Widget



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**

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Status & Notifications Icons

Status icons

	EDGE connected		Strong signal
	GPRS connected		Good signal
	3G connected		Weak signal
	LTE connected		Connection issue
	No SIM card installed		No data connection
	Airplane mode		Hotspot enabled
	Data communication		
	Wi-Fi turned on		Connected to a Wi-Fi network
	Bluetooth turned on		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		Using location service
	Speaker phone tuned on		Headset with MIC connected
	Vibrate mode		Phone mic is mute

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Status & Notifications Icons

Notification icons

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

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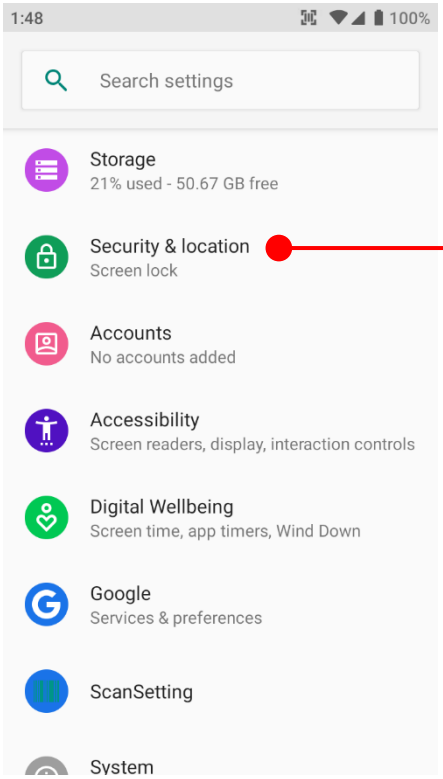
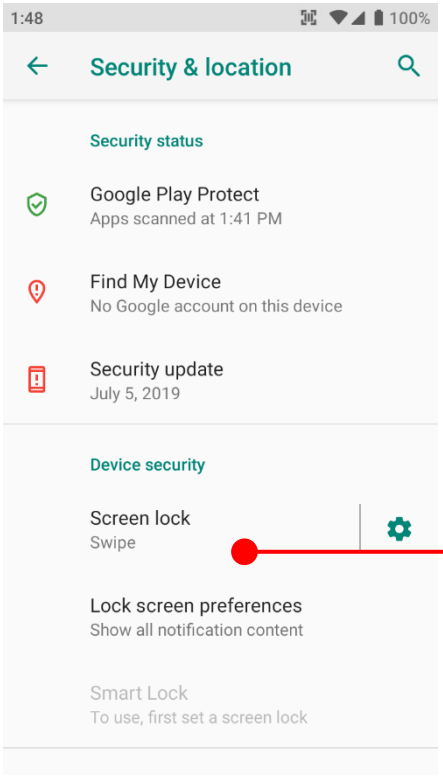
Set a Lock screen



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.

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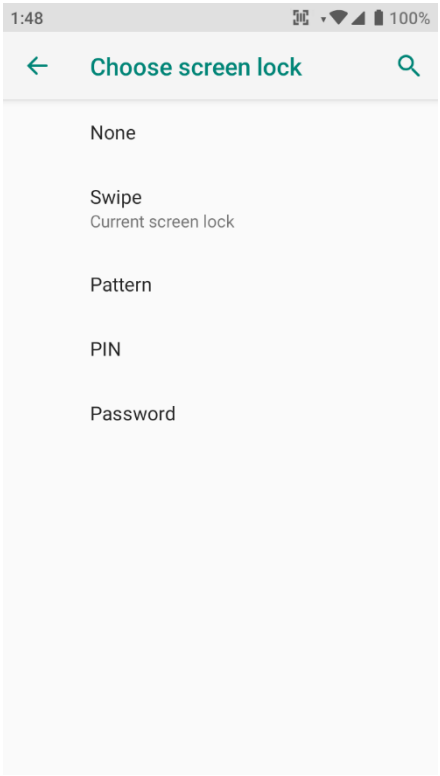
Set a Lock screen



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)

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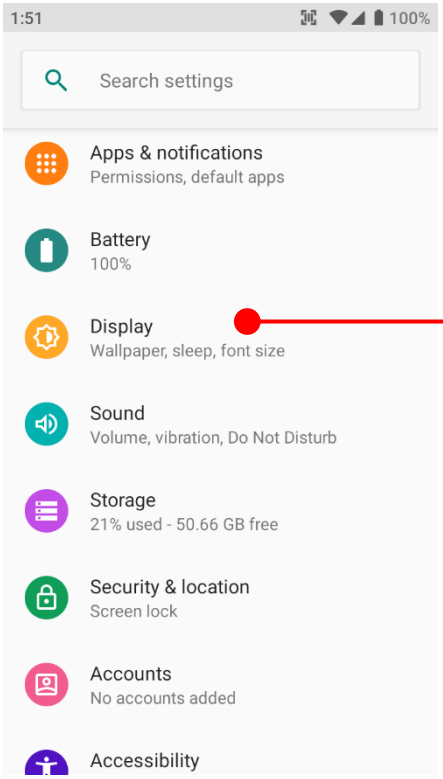
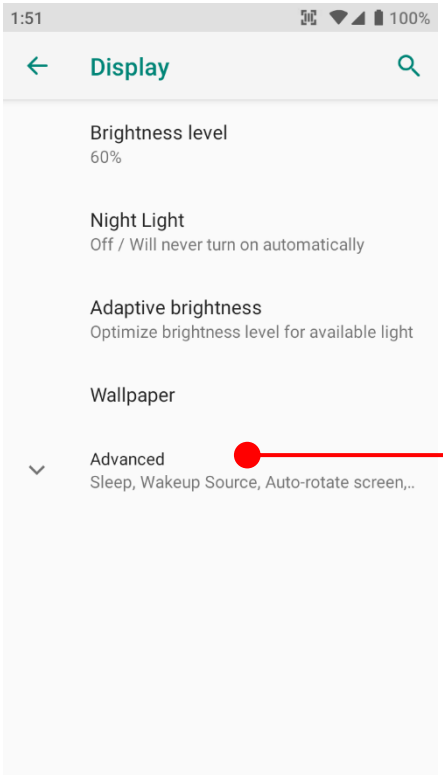
Manage a display



Settings and then **Display**



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

Touch **Advanced**

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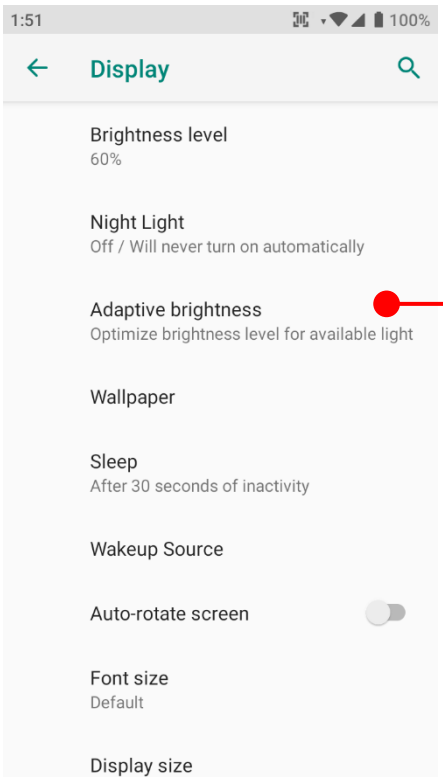
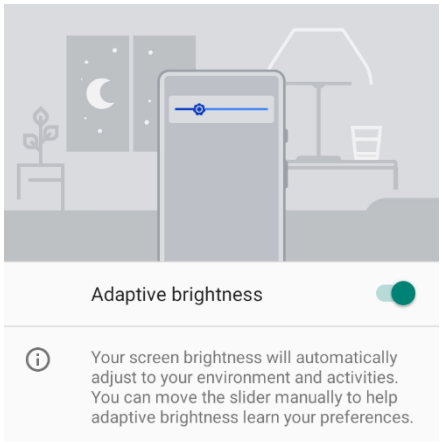
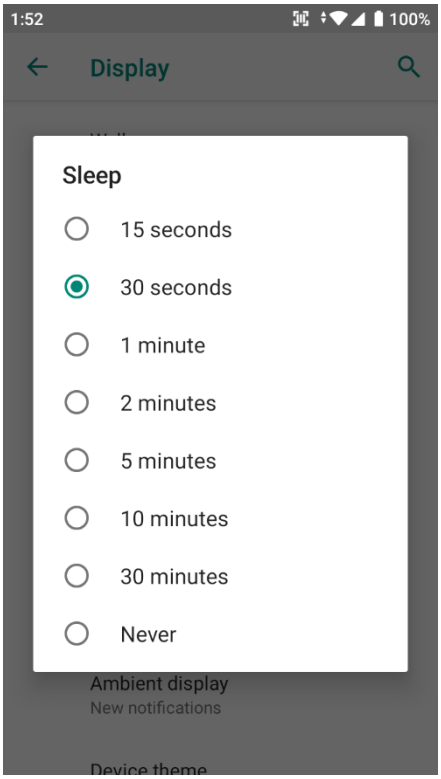
Manage a display



Adaptive brightness

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





Sleep

To change device sleep time, change option here

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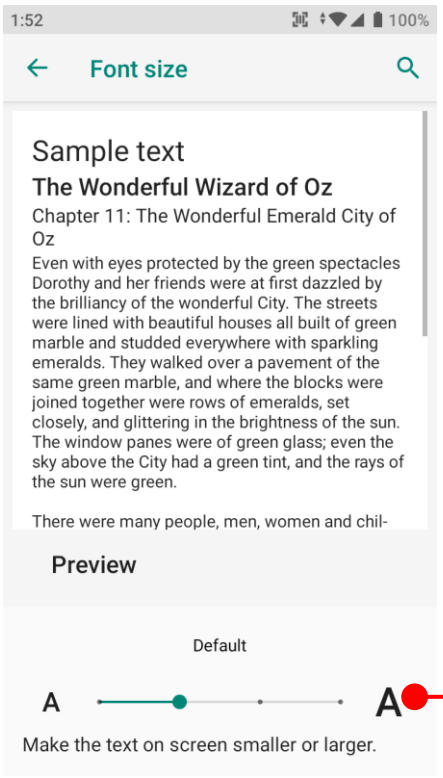
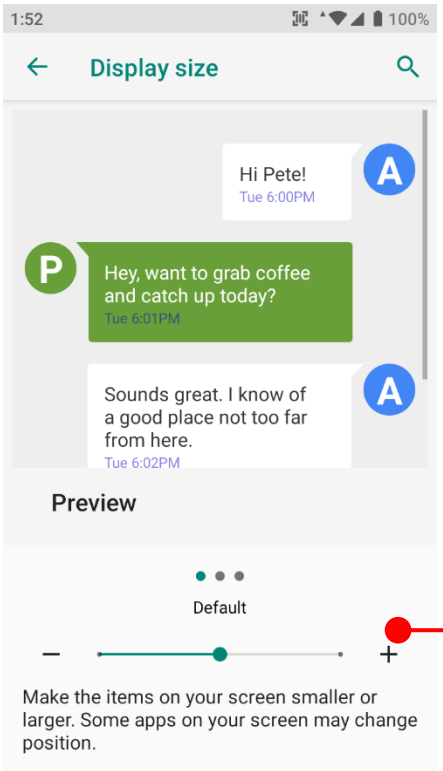
Manage a display



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

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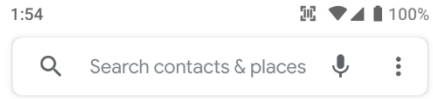
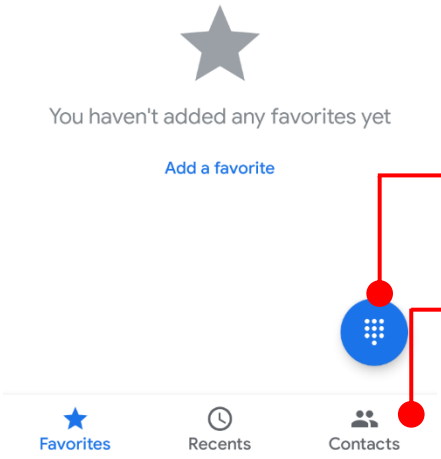
Make a call



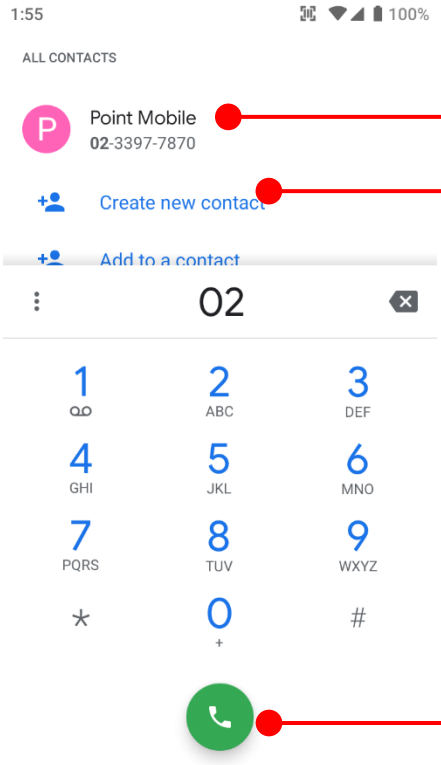
icon in the favorite tray app drawer



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

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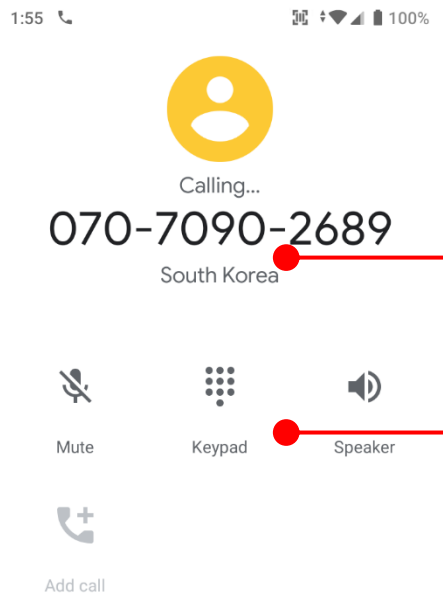
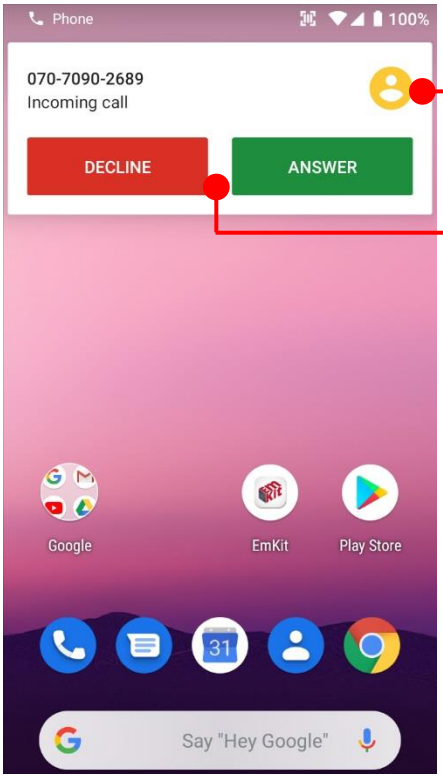
Make a call



Calling information

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

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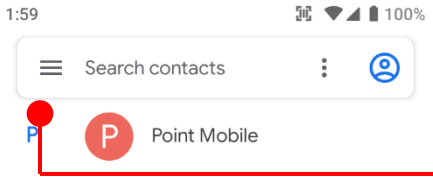
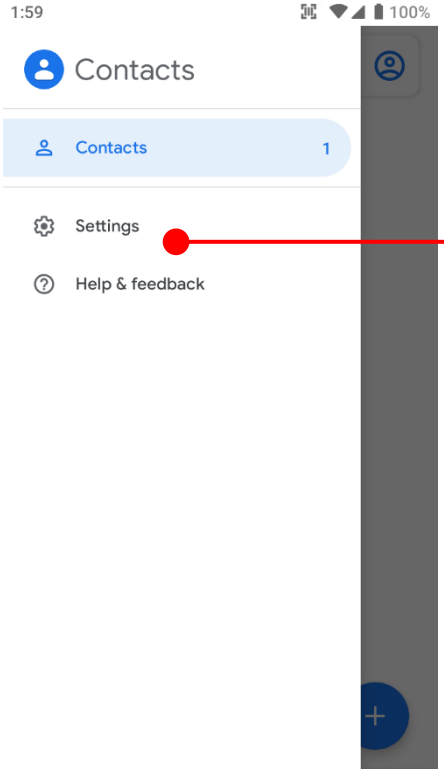
Add to a contact



Touch icon in the Favorite tray apps

Touch to see Contacts options

Touch to add a new contact



Touch to set more detail settings

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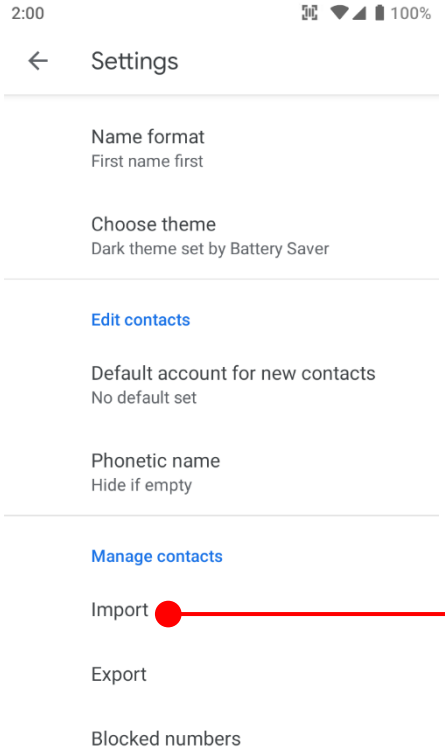
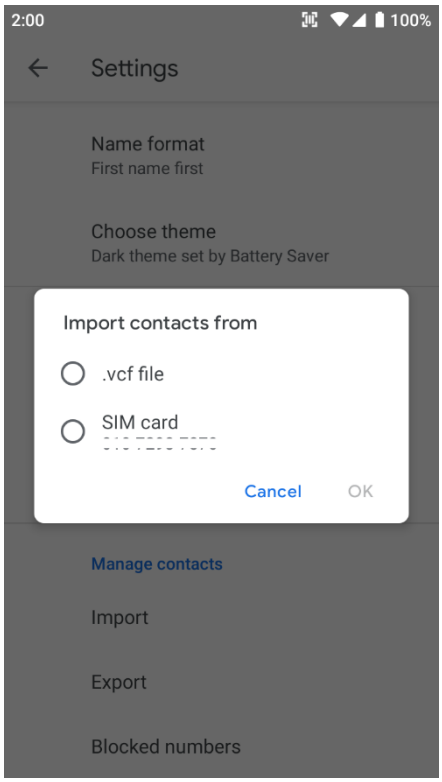
Add to a contact



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



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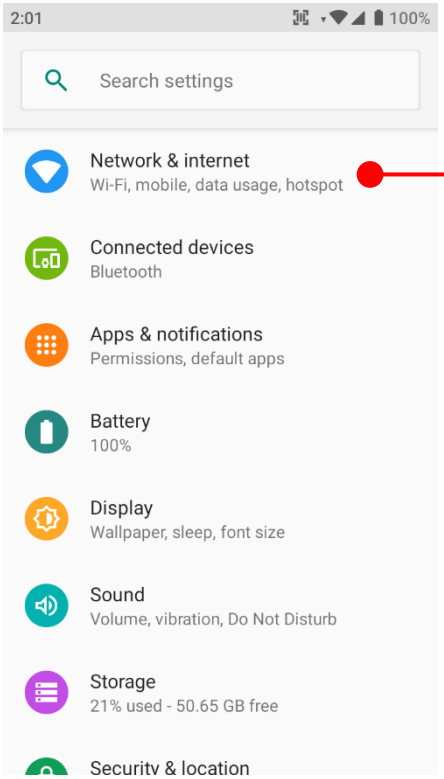
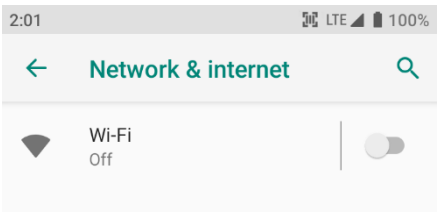
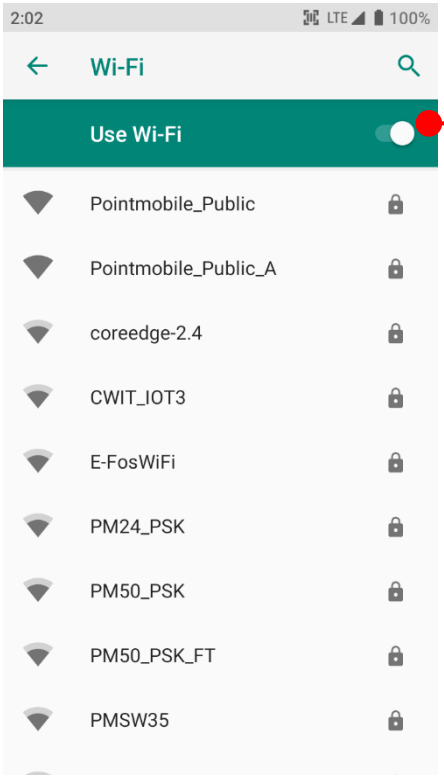
Connect to your Wi-Fi network



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

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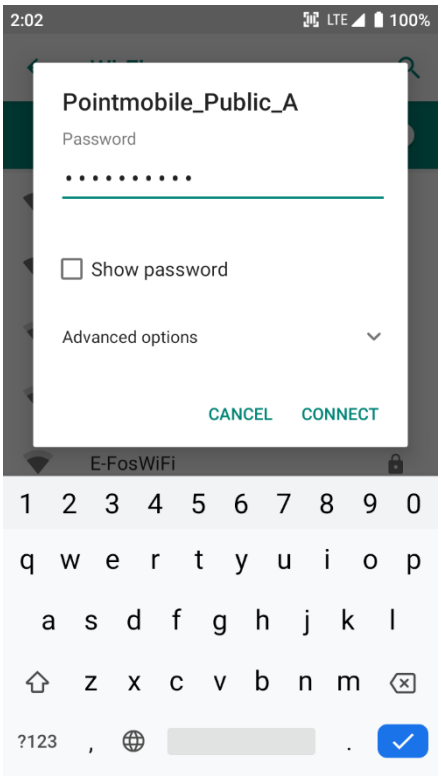
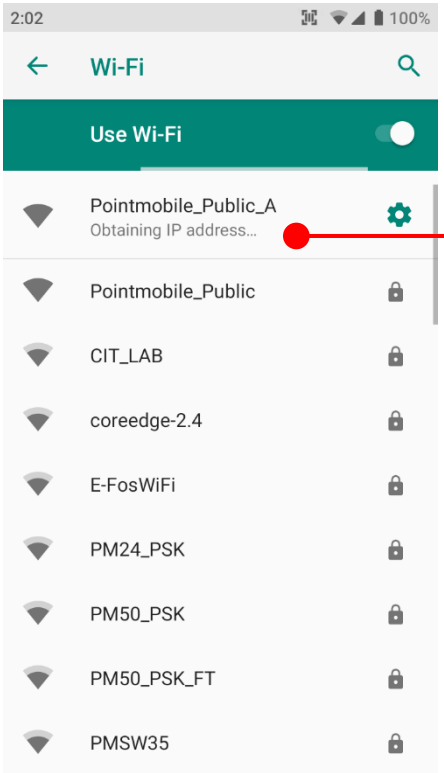
Connect to your Wi-Fi network



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

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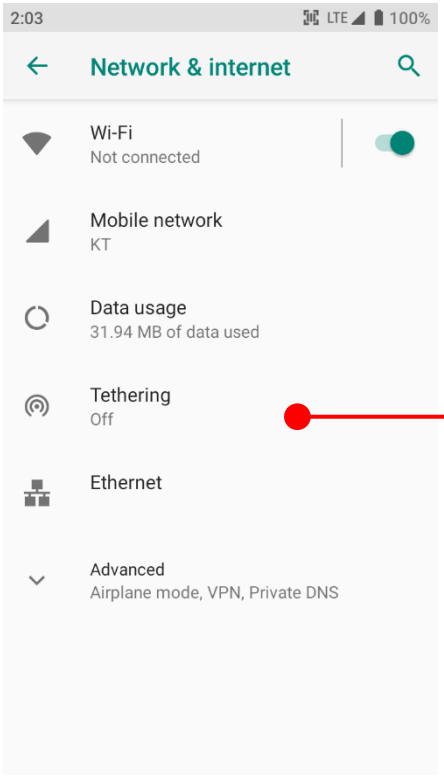
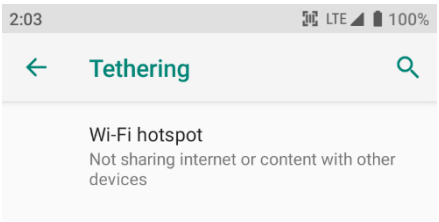
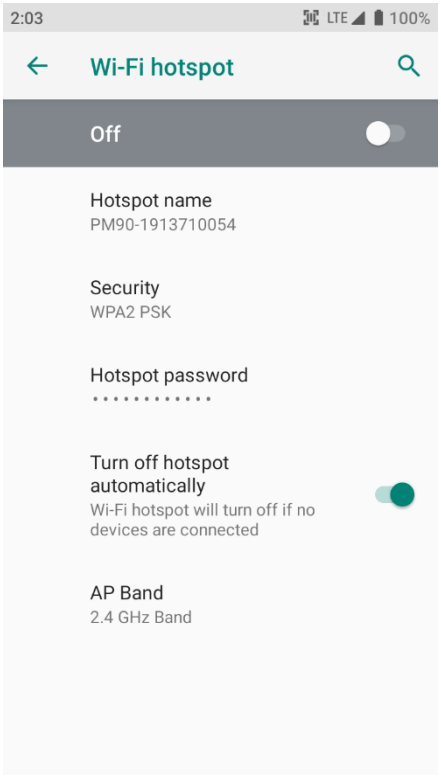
Make a Wi-Fi hotspot



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

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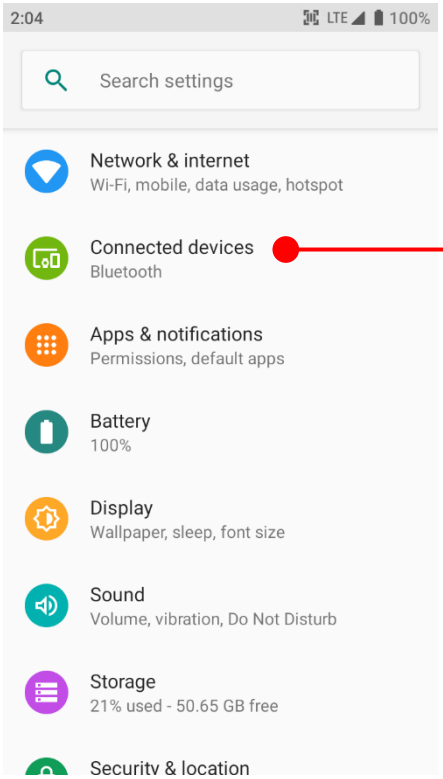
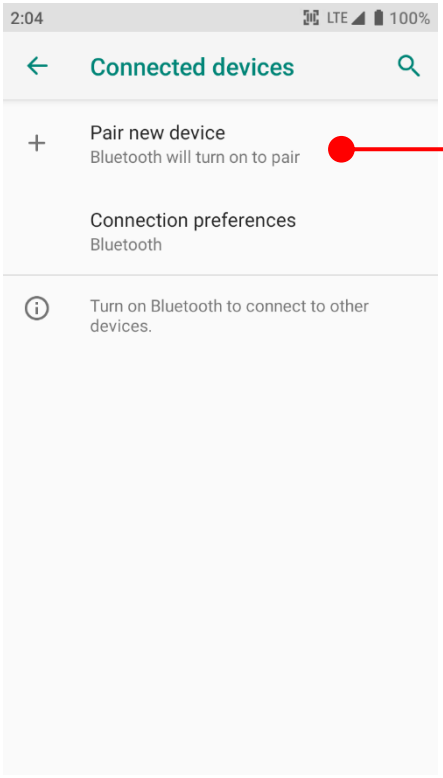
Connect with Bluetooth device



Settings and then **Connected devices**



Touch **Pair new device**

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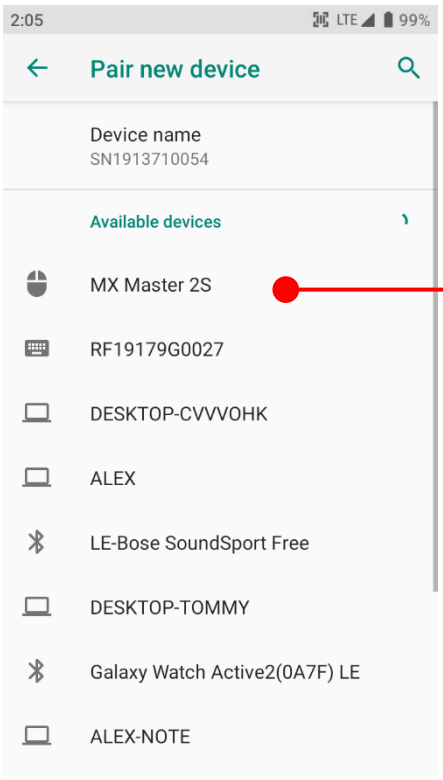
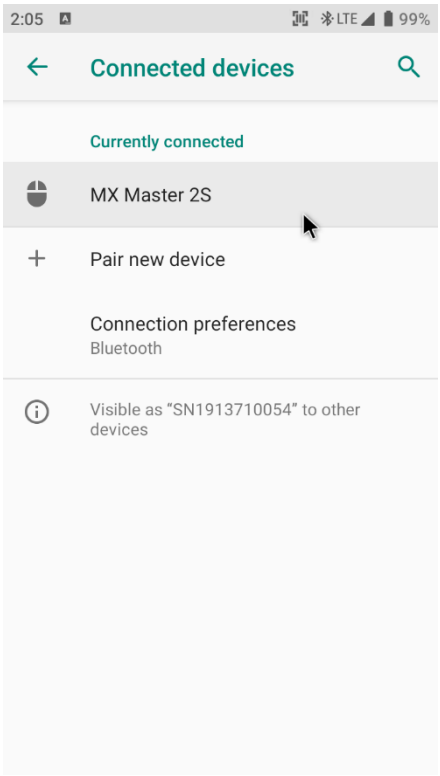
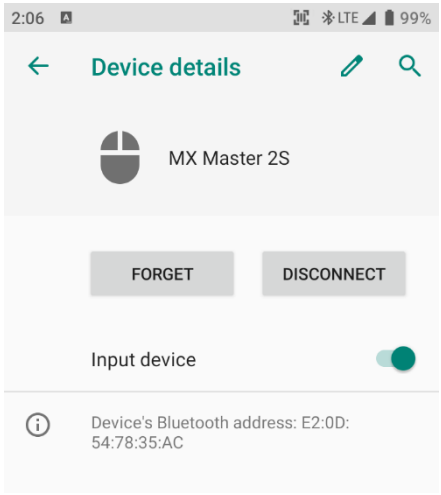
Connect with Bluetooth device



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



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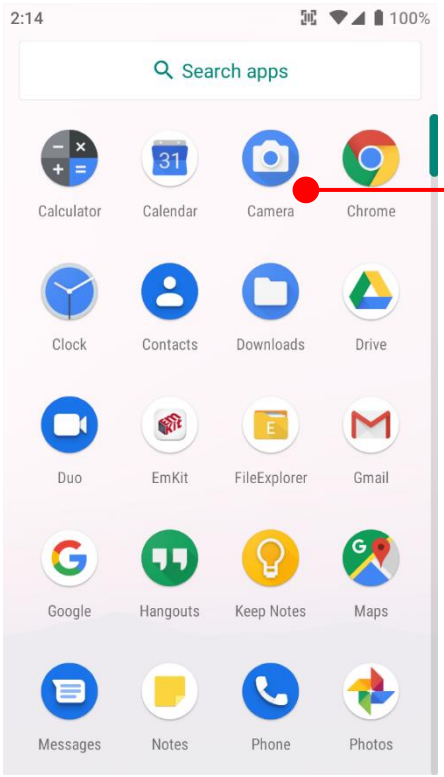
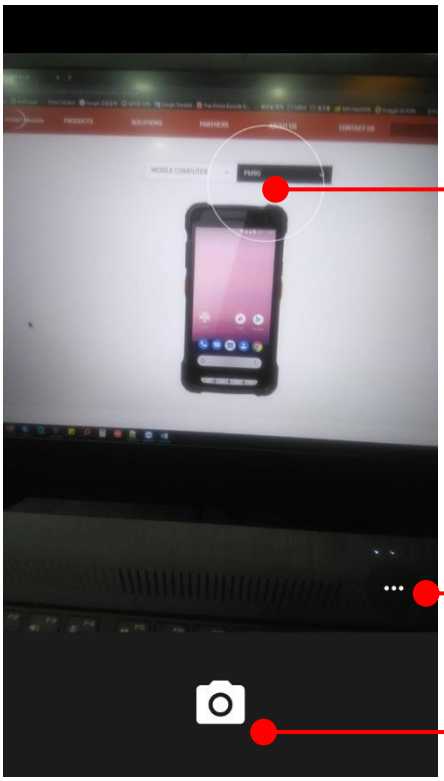
Use a Camera



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

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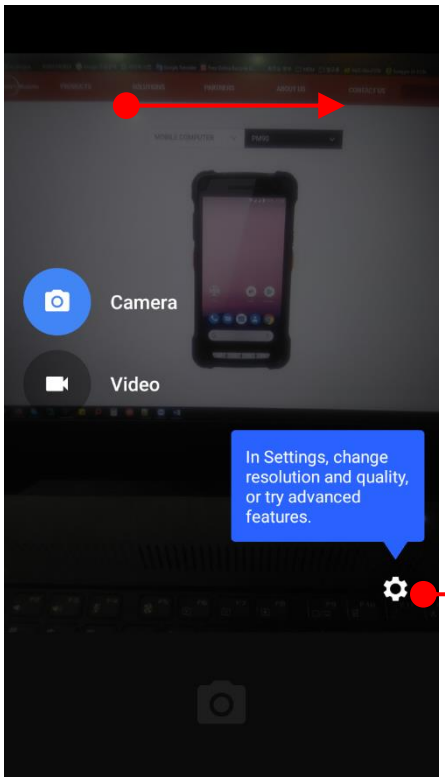
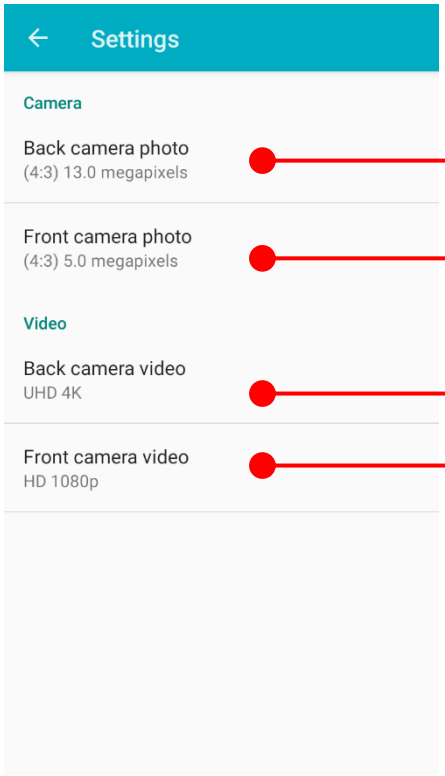
Use a Camera



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

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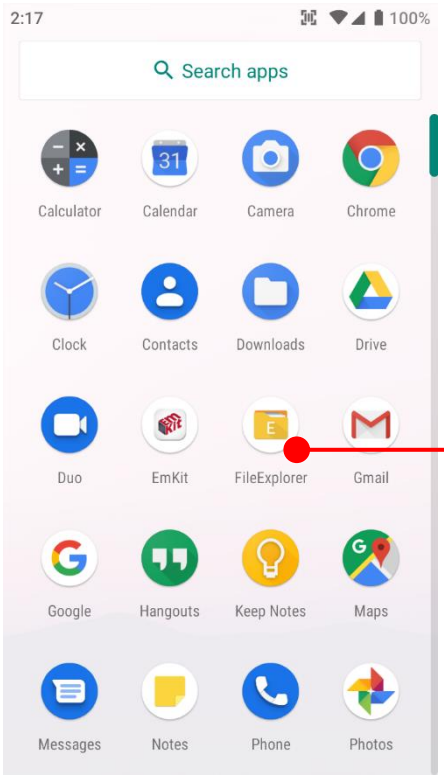
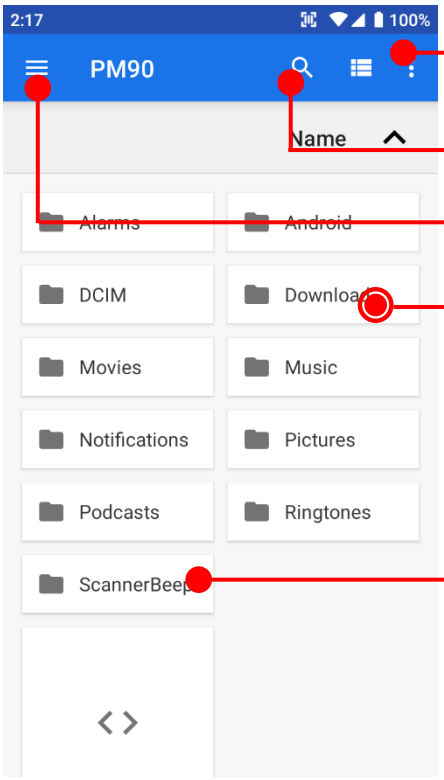
Manage files and folders



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

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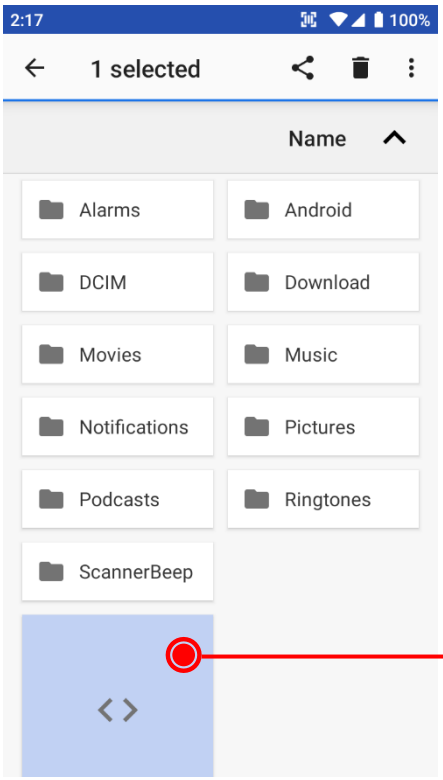
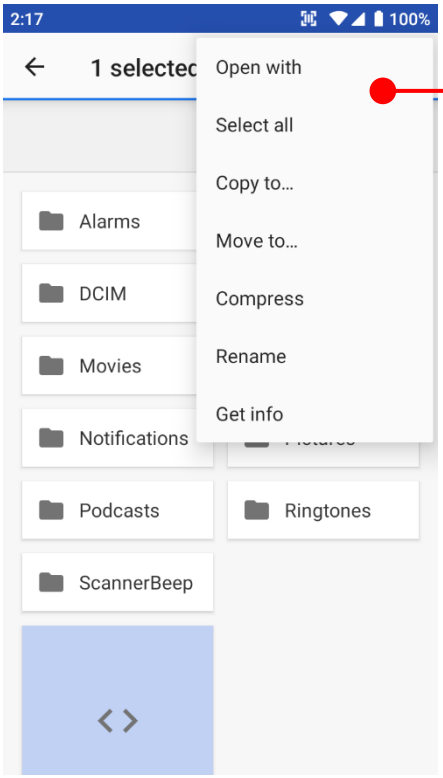
Manage files and folders



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

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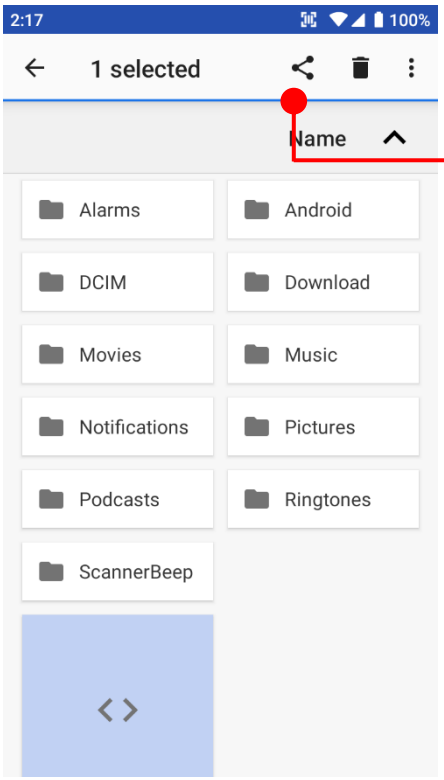
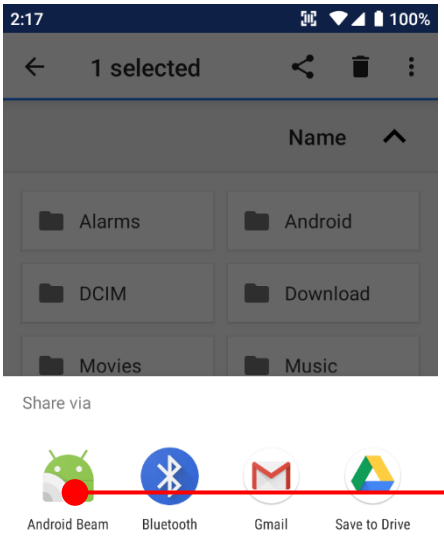
Manage files and folders



Share a file

Long tap the file and touch share icon in the menu



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

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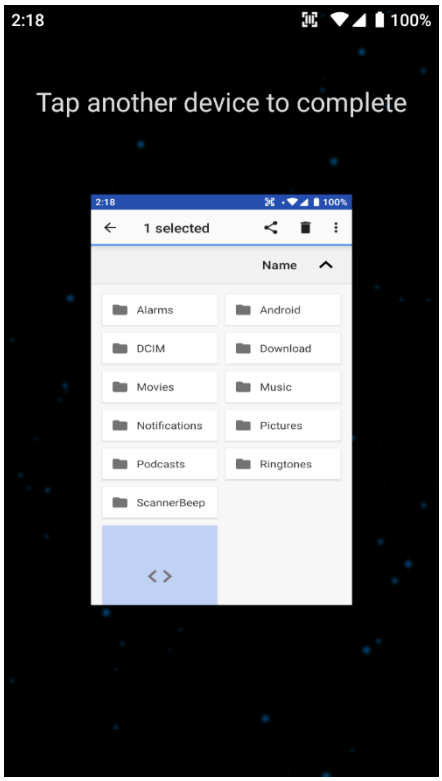
Manage files and folders



Now tag another device to PM90
PM90 will transfer the file

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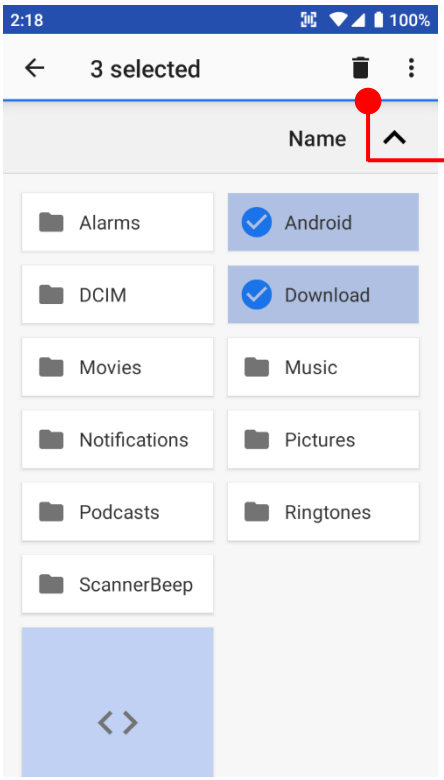
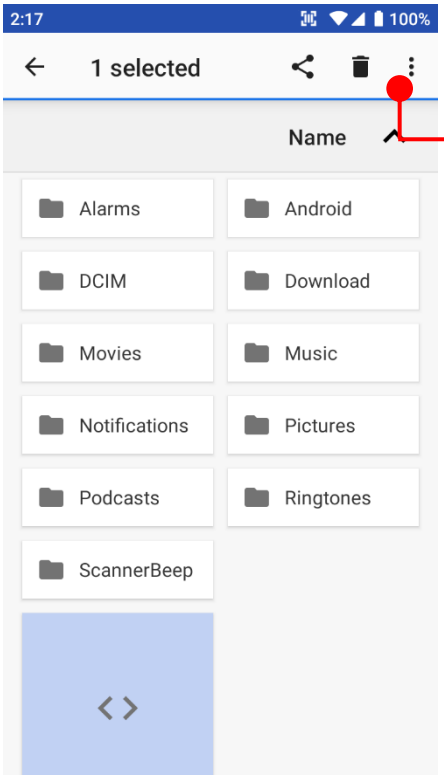
Manage files and folders



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

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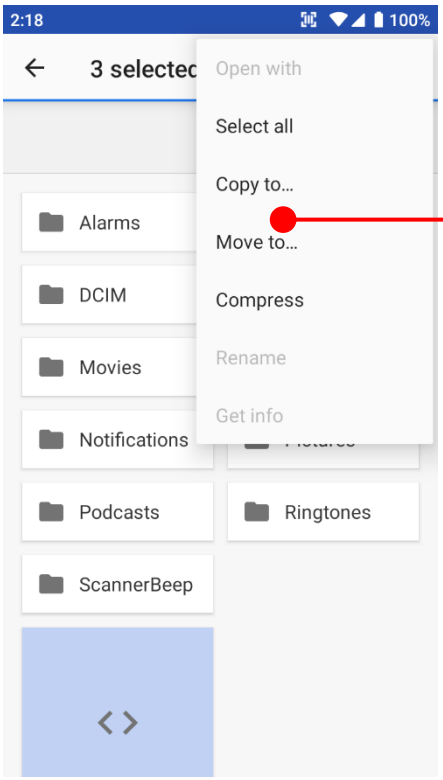
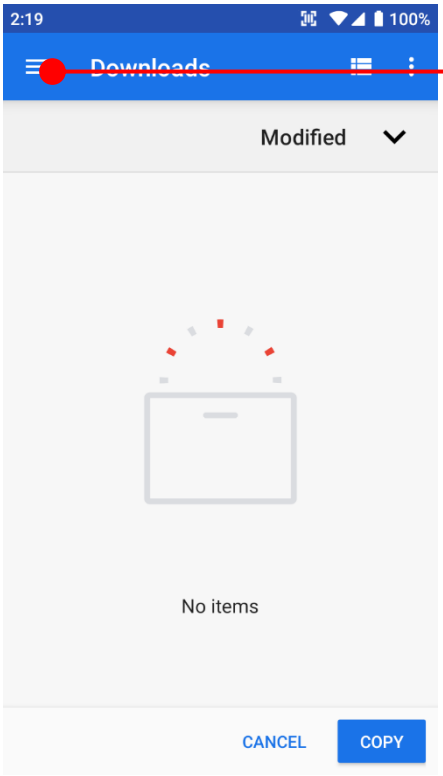
Manage files and folders



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



Touch menu icon ☰ to navigate file location

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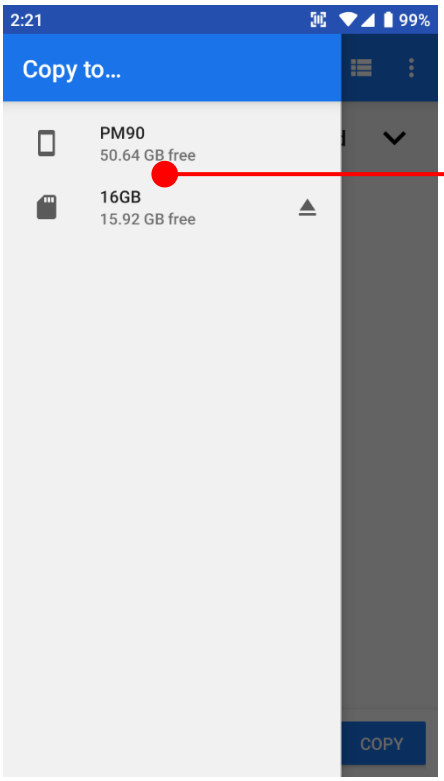
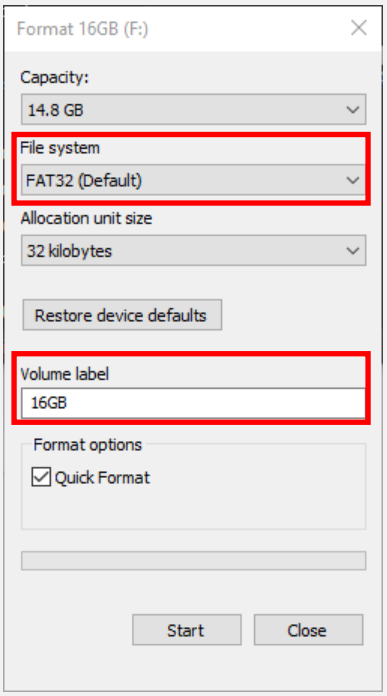
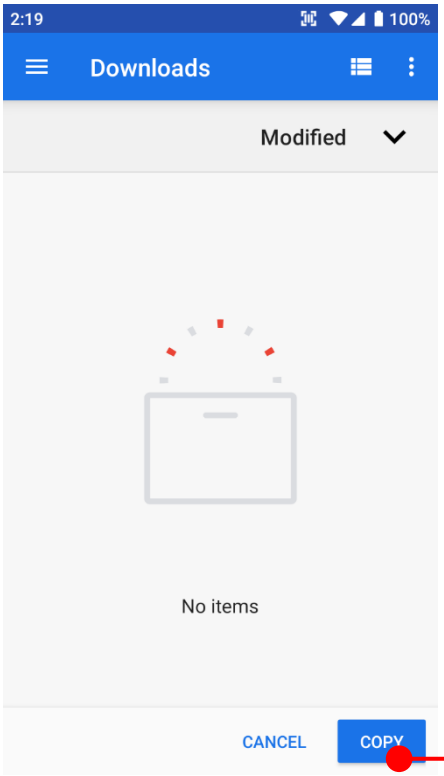
Manage files and folders



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**

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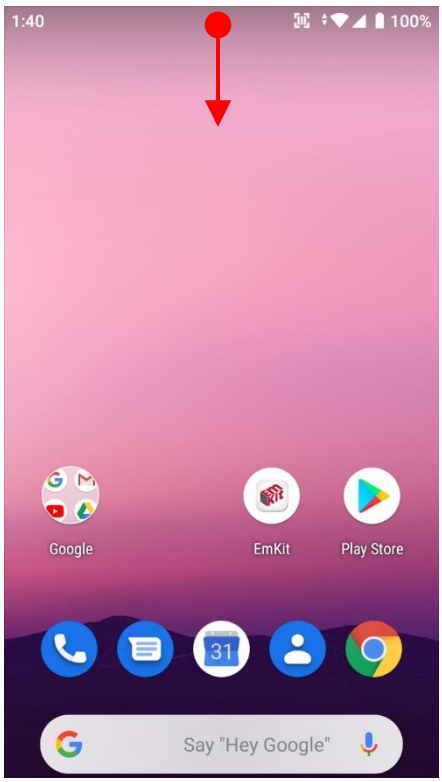
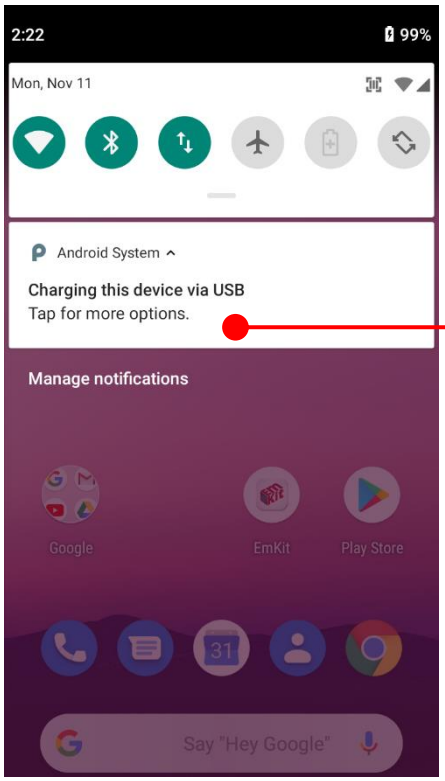
MTP connection with PC



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

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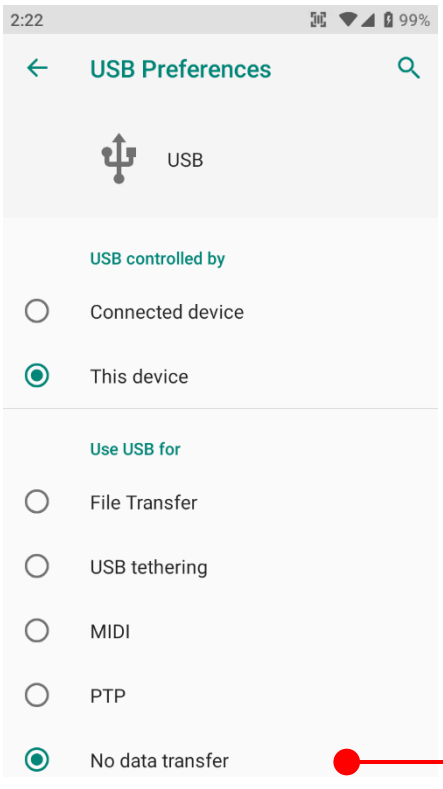
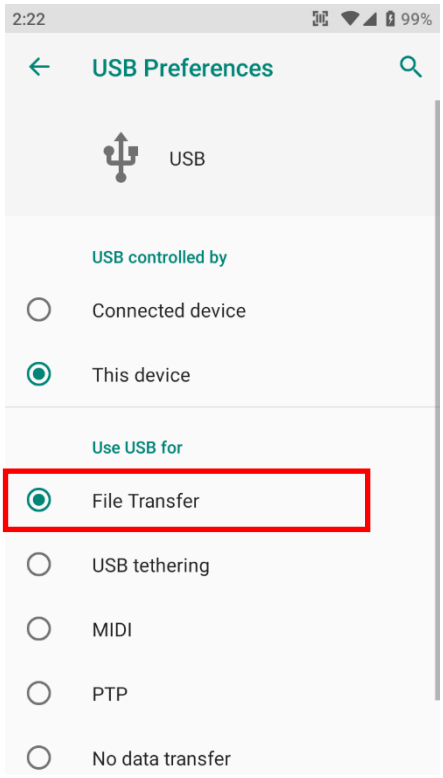
MTP connection with PC



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



Now your PC recognize PM90 as MTP device

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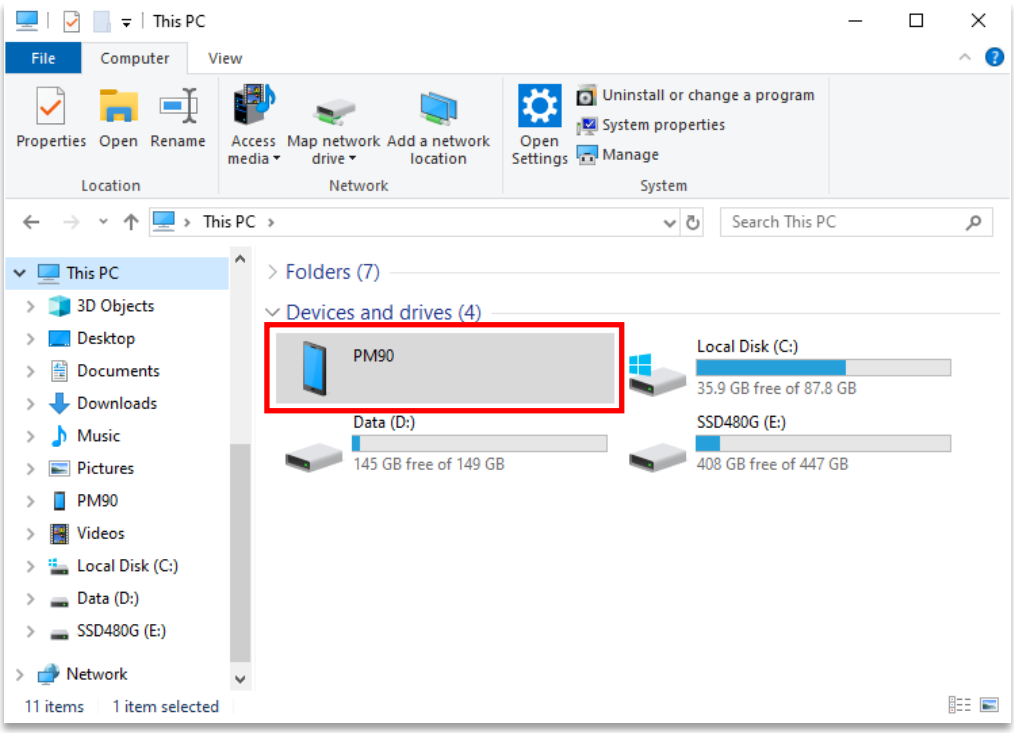
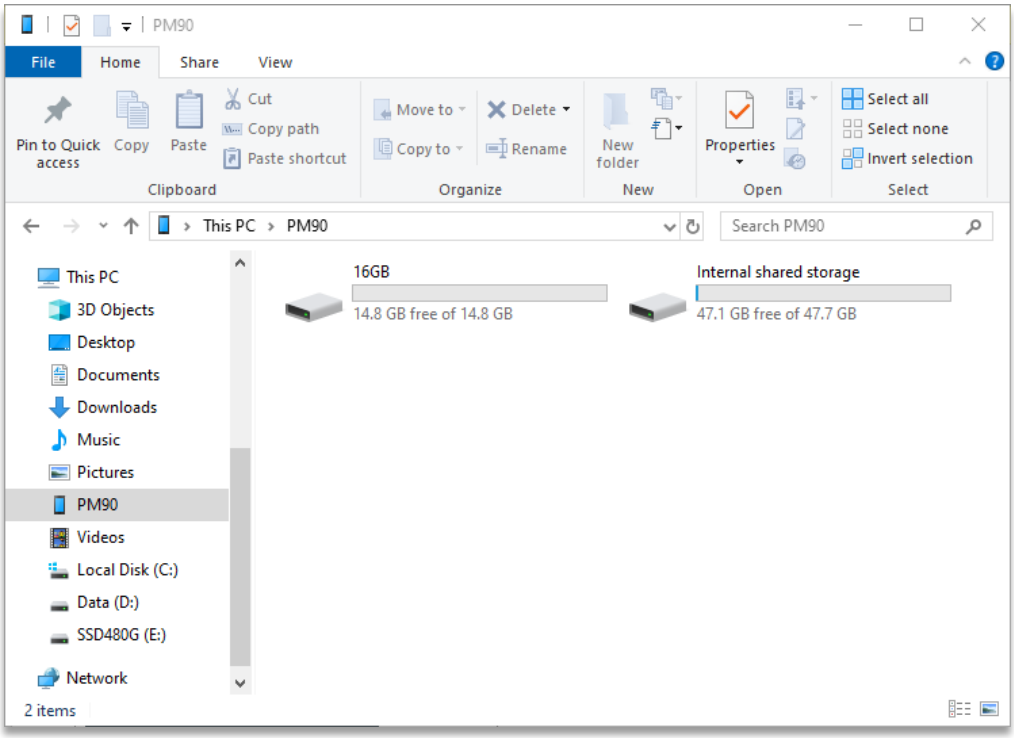
MTP connection with PC





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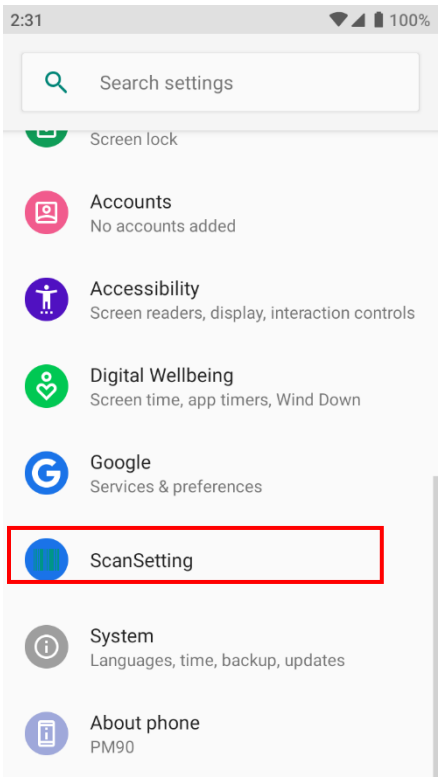
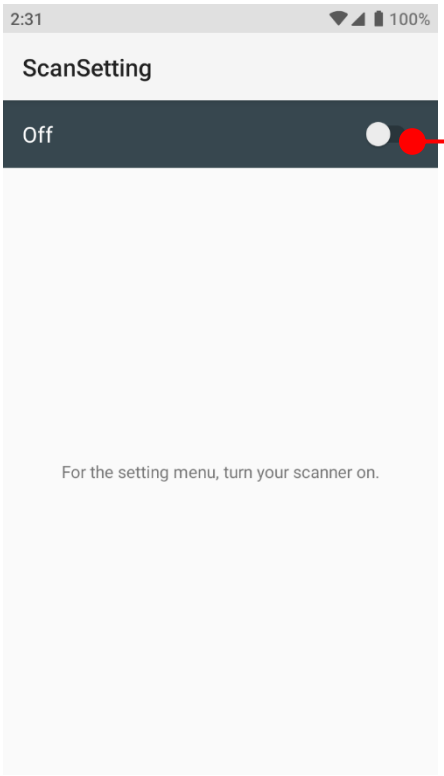
Use a Scanner

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

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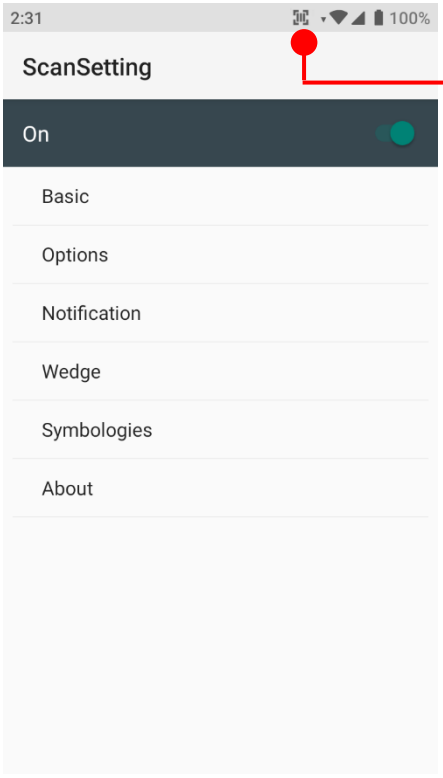
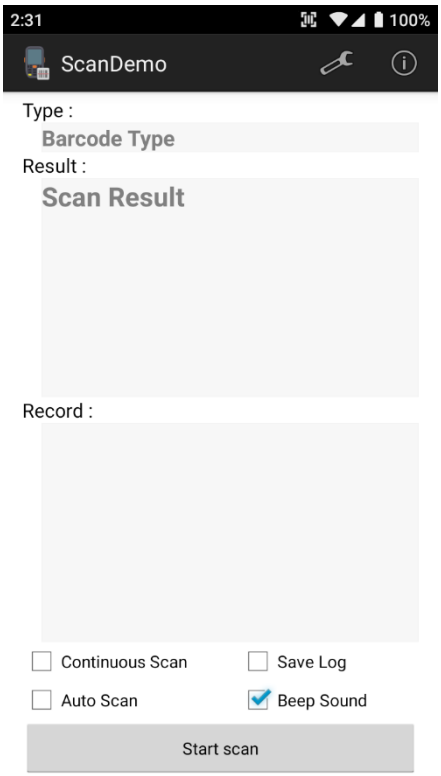
Use a Scanner

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**

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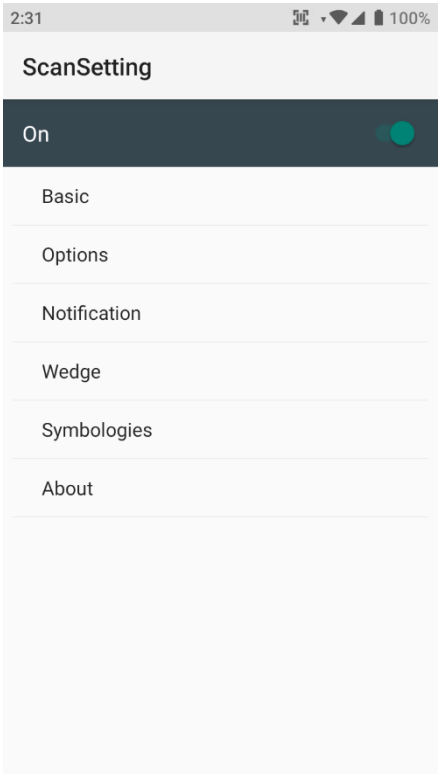
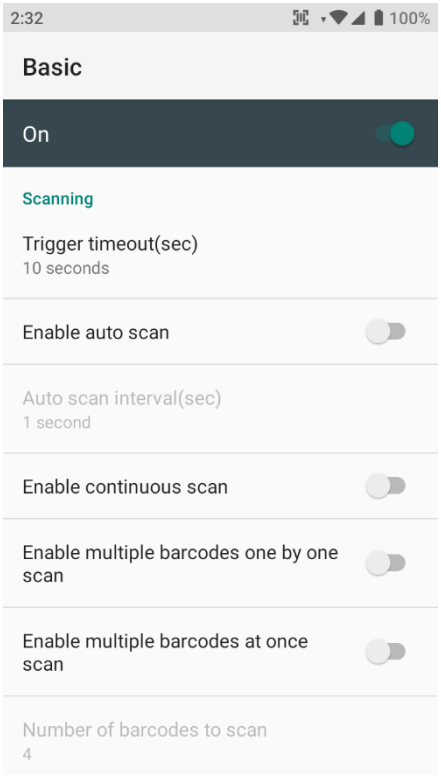
Use a Scanner

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

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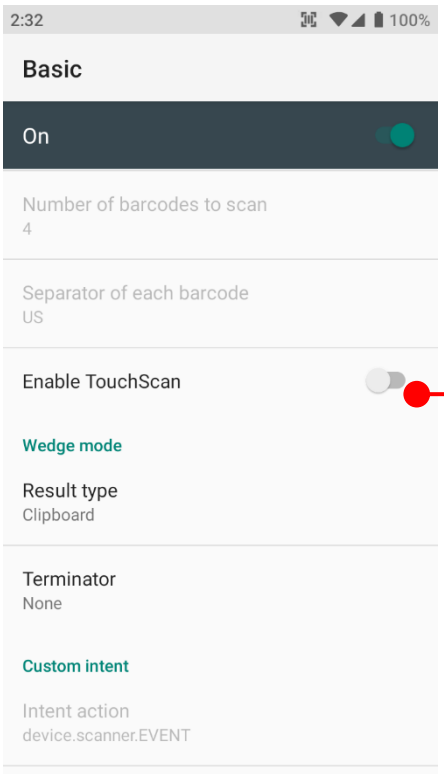
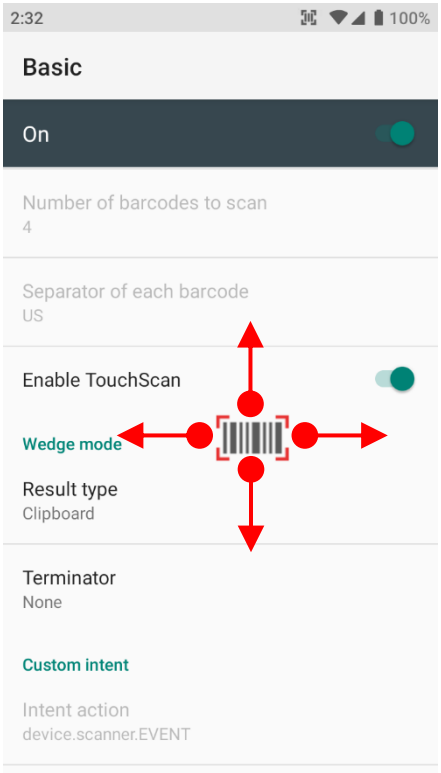
Use a Scanner

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.

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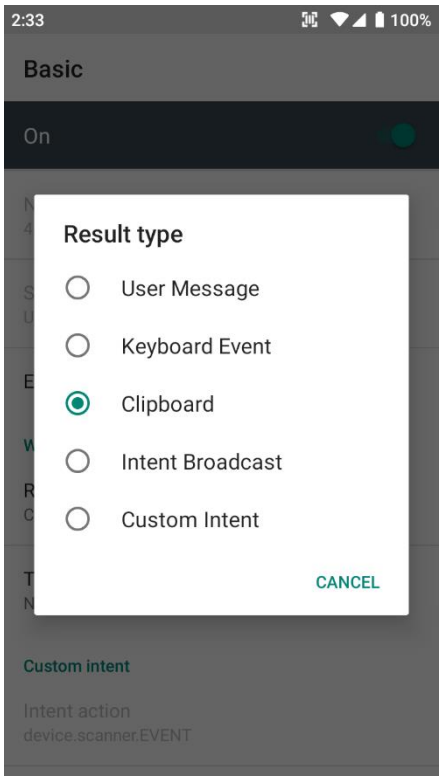
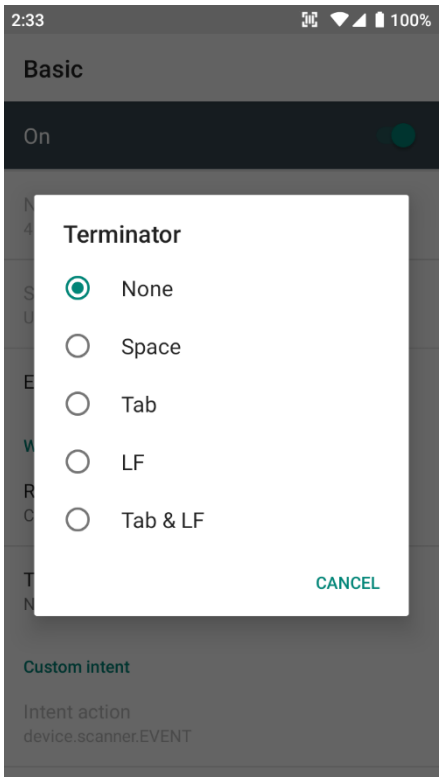
Use a Scanner

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**

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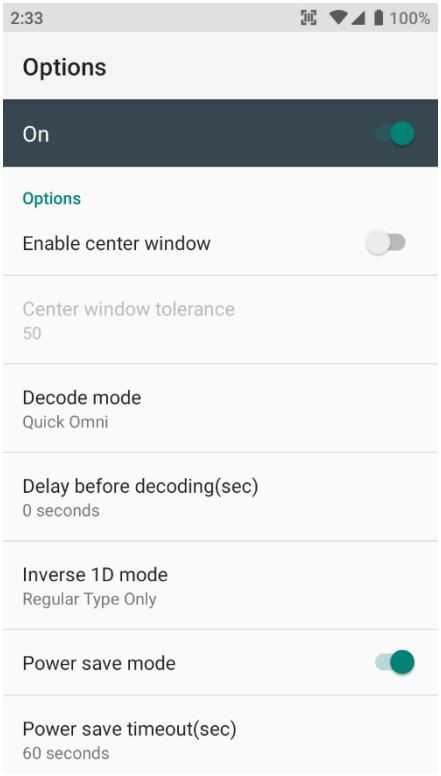
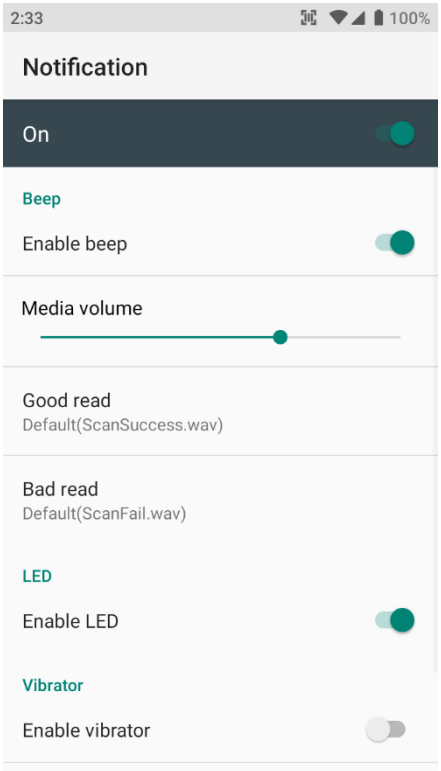
Use a Scanner

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

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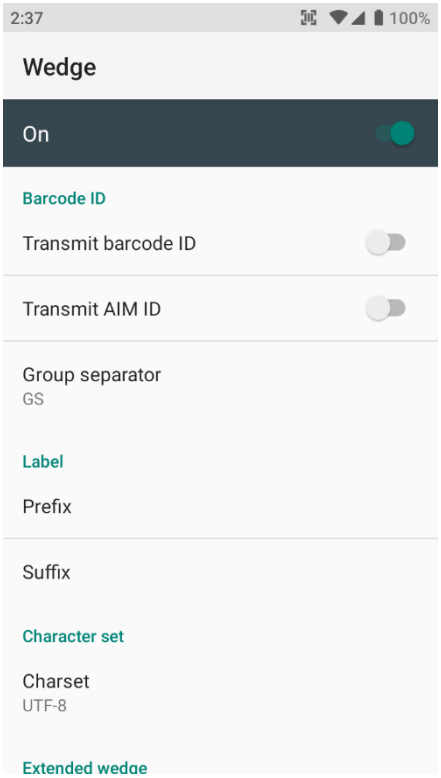
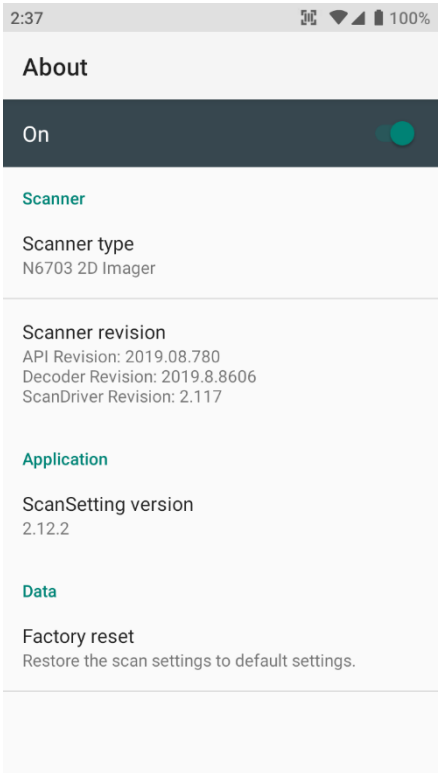
Use a Scanner

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

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Scan a Barcode

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

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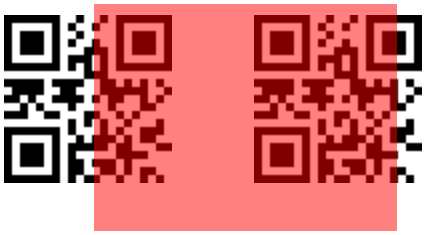
Scan a Barcode

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



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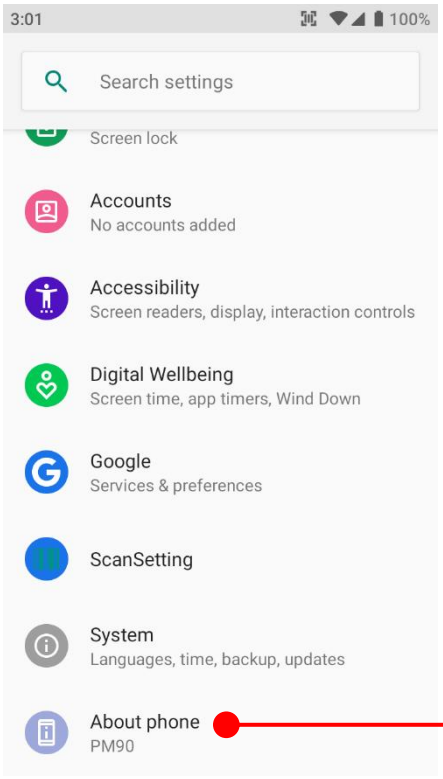
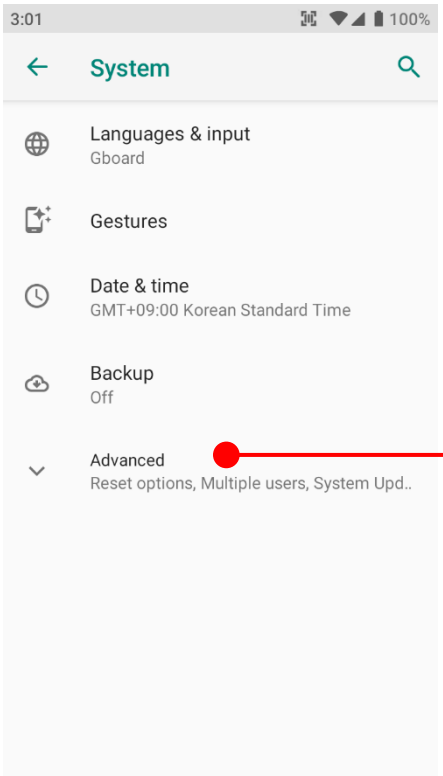
OS Image update from a Storage



> **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**

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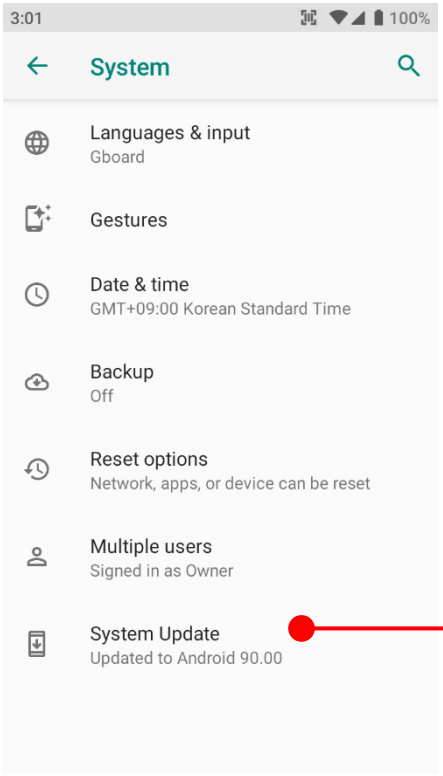
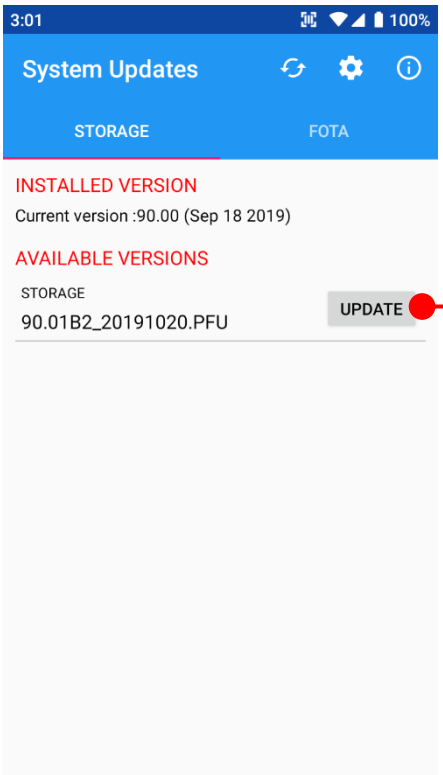
OS Image update from a Storage



Touch **System Updates**



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

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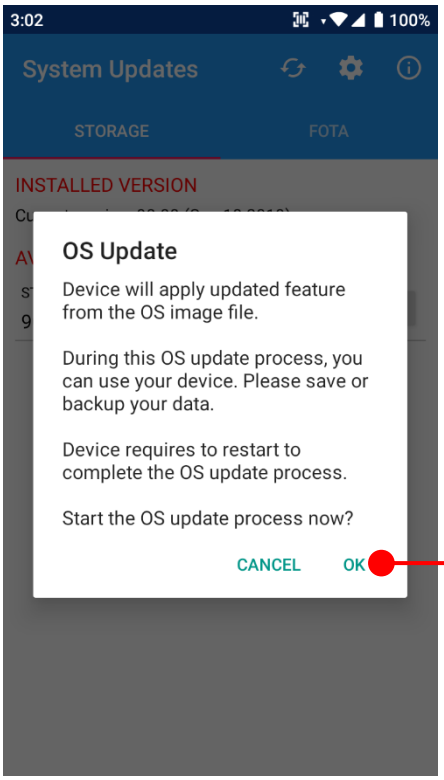
OS Image update from a Storage



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

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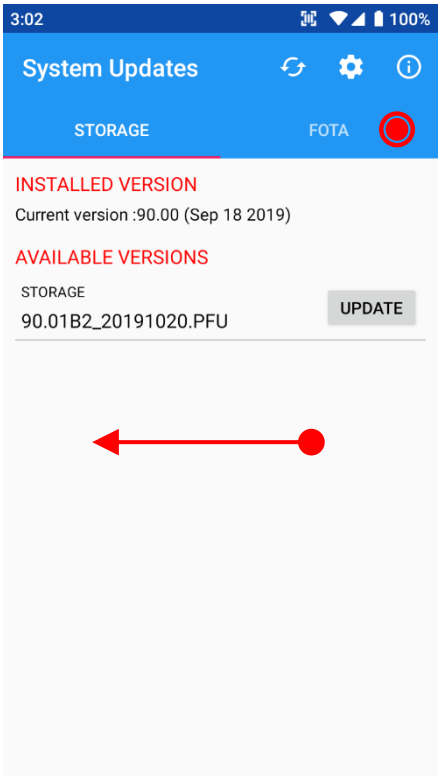
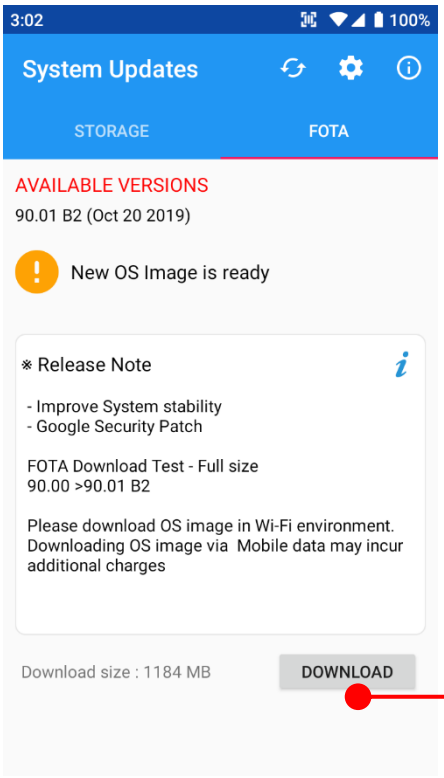
OS Image update from the FOTA



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**

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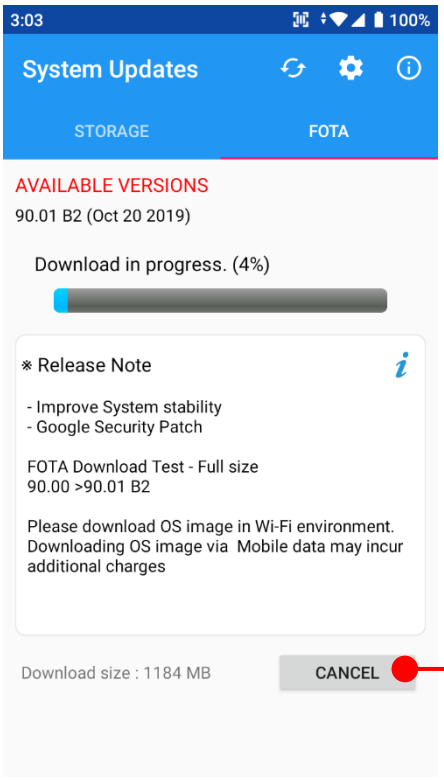
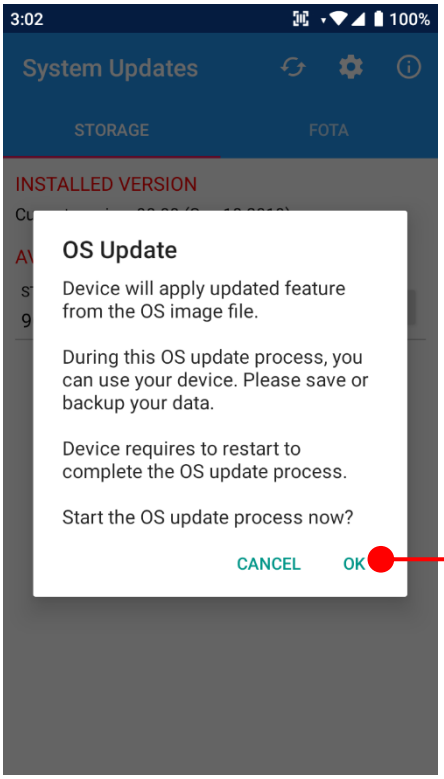
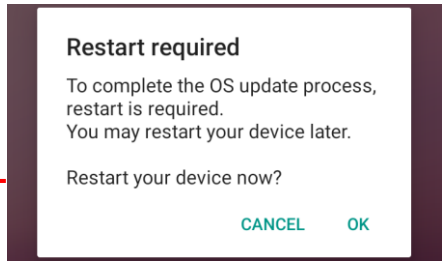
OS Image update from the FOTA



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

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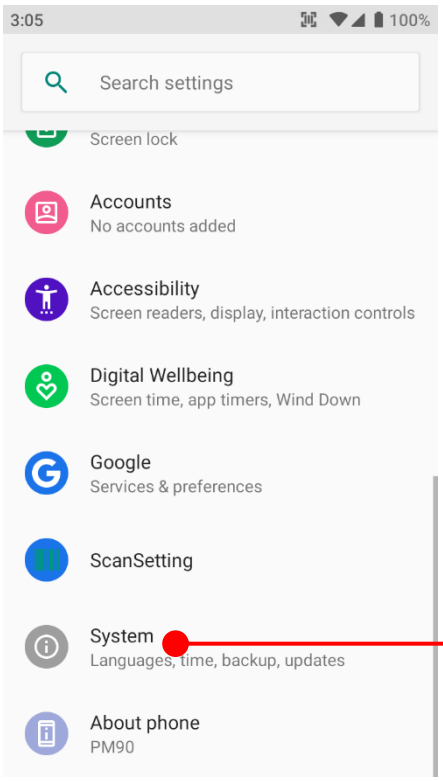
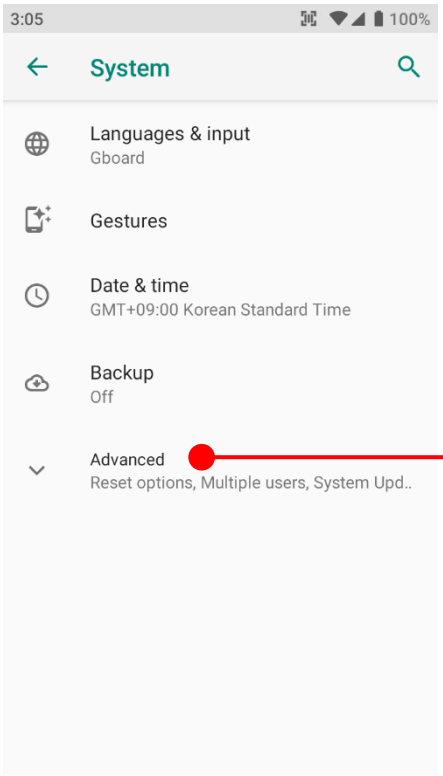
Factory data reset from Settings



Settings and then **System**



Touch **Advanced**

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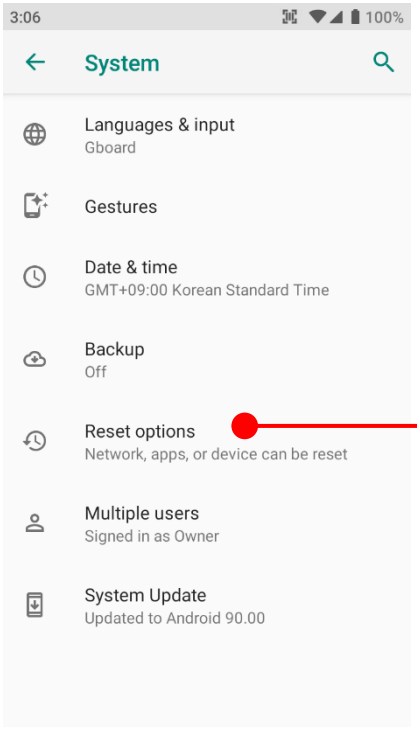
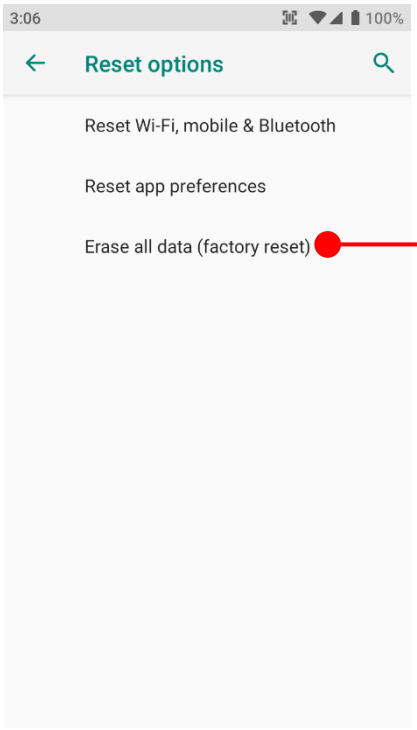
Factory data reset from Settings



Touch **Reset options**



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

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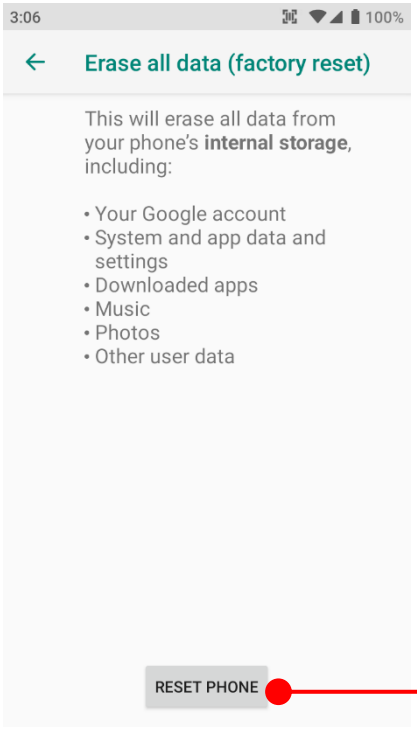
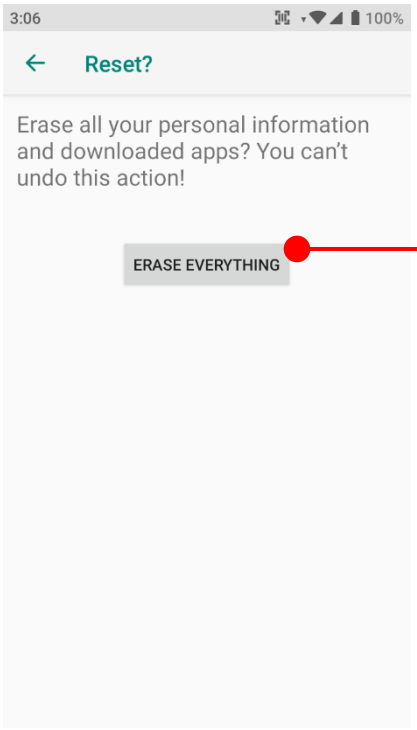
Factory data reset from Settings



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**

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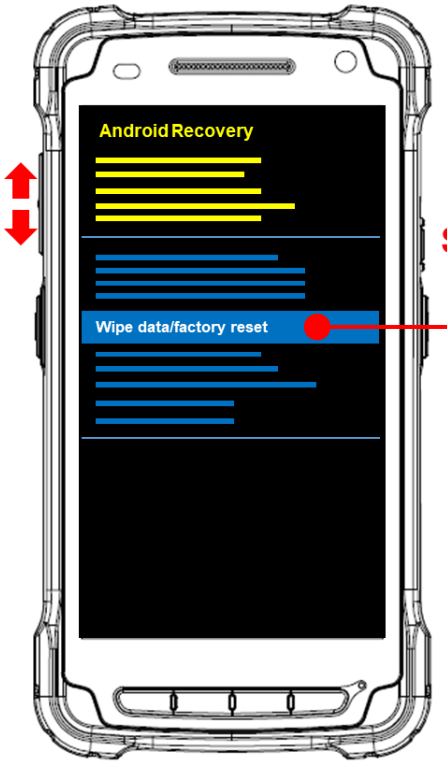
Force Factory data reset

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 **Wipe data/factory reset**

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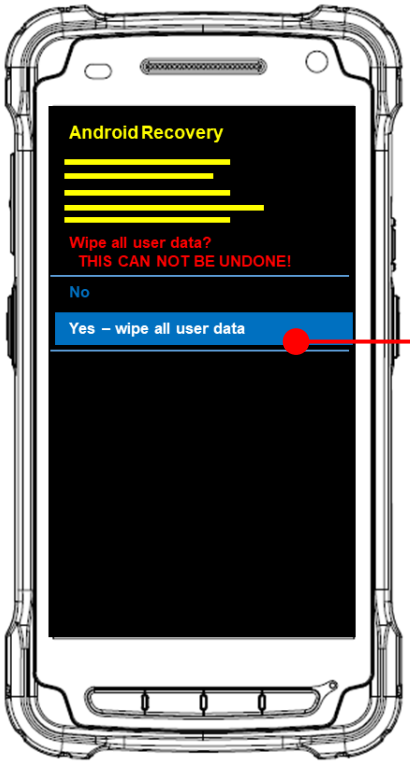
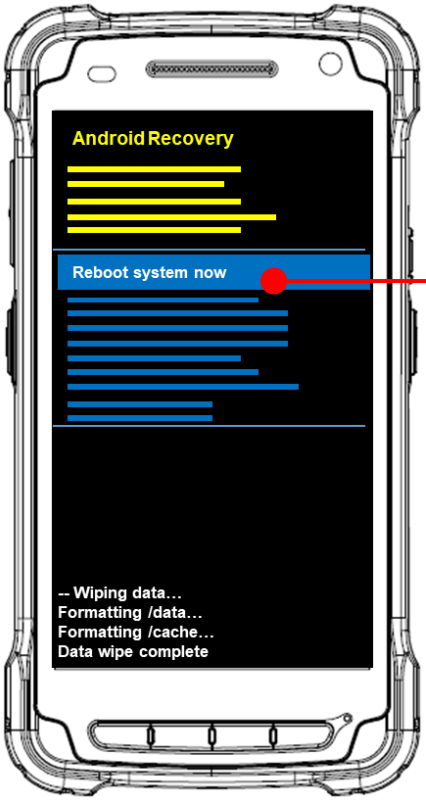
Force Factory data reset



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

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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 brulures, d'incendie, d'explosion ou d'autres dangers.

Jetez les piles en lithium-ion conformément aux régulations 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)

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.

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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 present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si lebrouillage 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 a l'utilisation a l'interieur 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 equipement est conforme aux limites d'exposition aux radiations FCC / IC definies pour un environnement non controle. Cet emetteur ne doit pas etre colocalise ou fonctionner en conjonction avec une autre antenne ou un autre emetteur, a moins d'etre autorise a le faire par le FCC / IC

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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)

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KC 사용 안전정보

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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
제조자/제조국가	주식회사 포인트모바일 / 중국
제조년월	2019

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