



For Android™ 11

Mobile POS Terminal

P8

User Manual

Instruction

This manual provides information about basic features and using the P8. Please read this manual carefully before using your terminal and peripherals to ensure safe and proper use.



Note: Screenshots in this manual may differ from actual screens.

Revision History

Revision	Date	Description
v1.0	06 Dec 2024	Initial release

P8 SKU

The contents of this manual can cover the following SKU.

Part Number	Network	RAM /Flash	Scanner	Payment	Others
PH08GE603DKK0C	Wi-Fi 5 / BT	4G/64G	O	ICCR MSR Contactless	Front/Top camera Android 11 AOSP NFC

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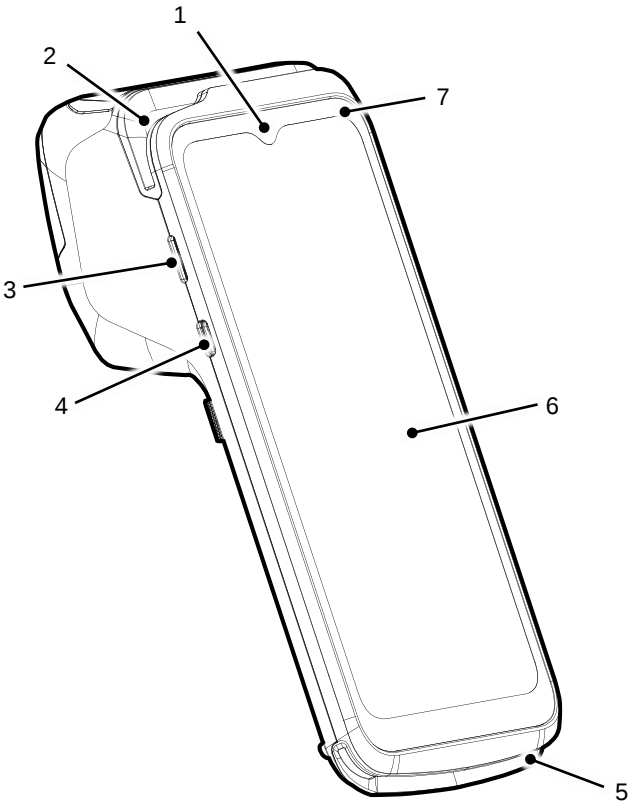
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Getting Started

Terminal Parts

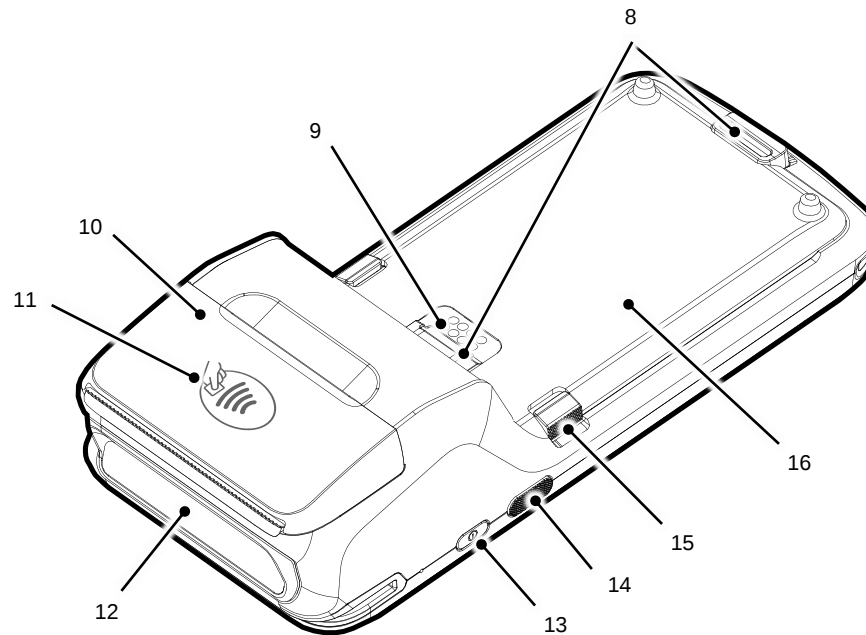
Figure 1 P8 front + left view



No	Name	Description
1	Front camera	Take a picture
2	Magnetic stripe reader (MSR)	Slide a magnetic card to perform a payment (Refer to Payment)
3	Speaker	Ring system sound
4	USB connector	USB Type C connector for charging and data communication
5	IC Card Reader (ICCR)	Insert a card to perform a payment (Refer to Payment)
6	Touch screen	Displays all operating screen
7	LED indicator	Indicate the charging status (Refer to Charging Indication)

Getting Started

Figure 2 P8 rear + right view



No	Name	Description
8	Hand strap hole (top / bottom)	Mount a hand strap to carry the terminal comfort
9	I/O connector for cradle	Connector for charging with cradle
10	Thermal printer	Print a receipt
11	NFC tapping area	Get a contactless payment (Refer to Payment)
12	Scanner	Scan a barcode
13	Power button	Turn on/off the terminal
14	Function (Volume) button	Adjust the volume (Programmable button)
15	Battery cover release button	Press to release the battery cover and replace the battery
16	Battery cover	Protect the battery from detaching and damage

Getting Started

Product Standard Accessories

The following items are in the product box.

- P8 (with Battery pack)
- Power adapter
- USB type C cable
- LCD protection film

Getting Started

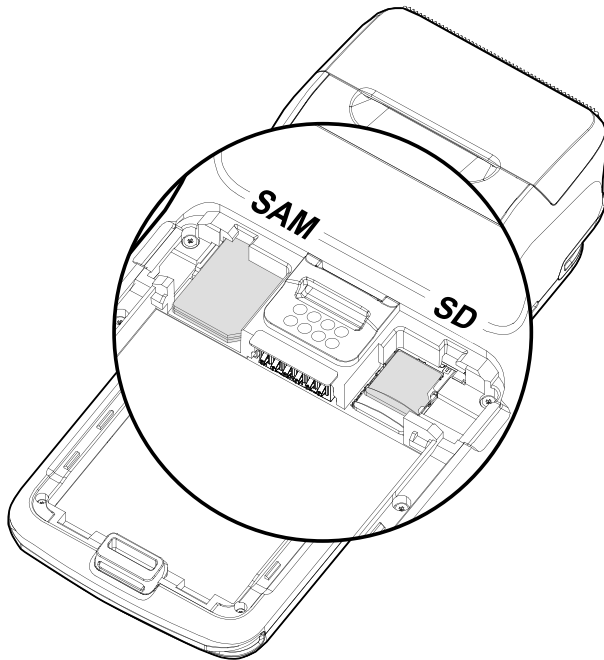
Install SD & SAM cards

P8 supports

- microSD card
- Mini SAM card (2 slots)

You can find the card slots after removing the battery.

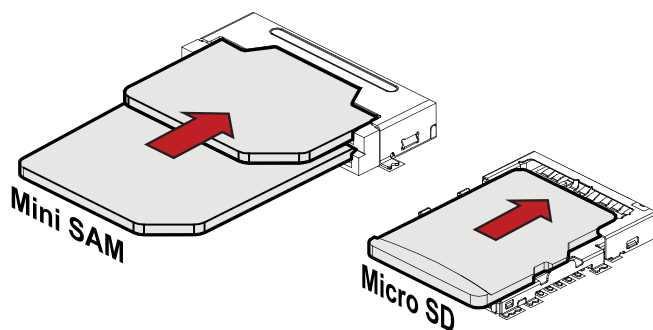
Figure 3 P8 Card slots



To install the SD or SAM cards,

1. Open the battery cover and remove the battery.
2. Gently slide the card into the proper card slot with the gold contact is facing down.

Figure 4 Installing SD and SAM cards

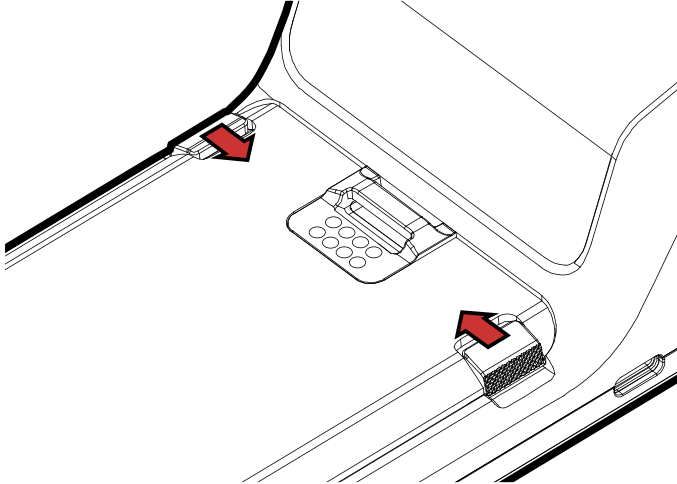


Getting Started

Install & Remove Battery

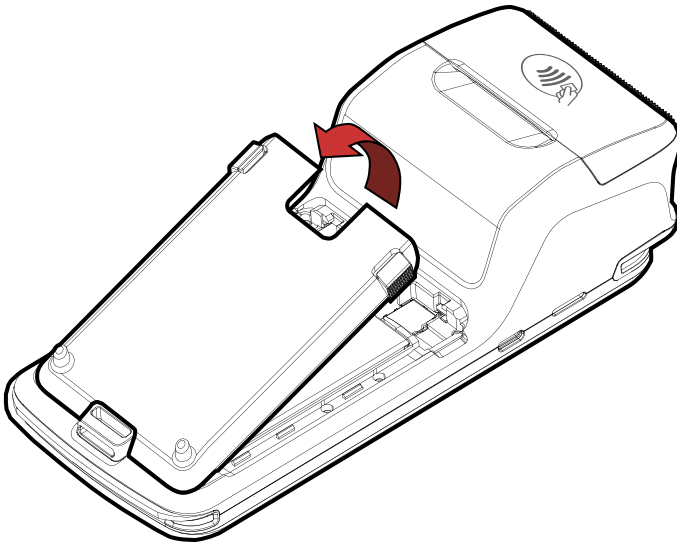
1. Hold the battery cover release buttons on both sides, and press in.

Figure 5 Battery replacement - 1



2. While pressing the buttons in, pull the cover up to open.

Figure 6 Battery replacement – 2.

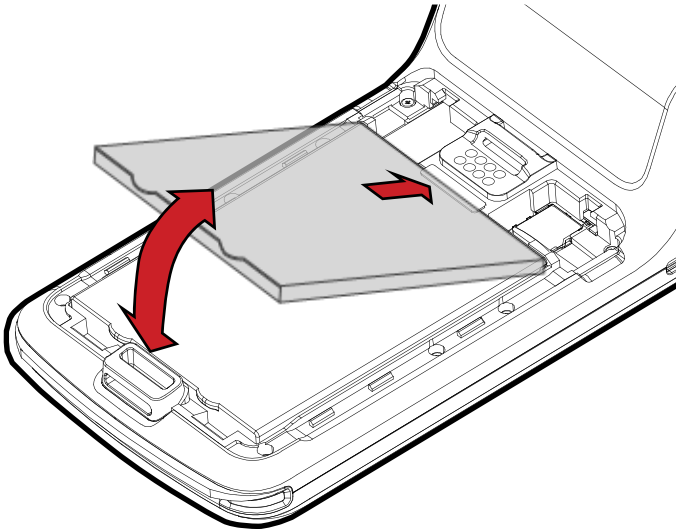


Getting Started

3. Install: Insert the battery from the top side and push it down.

Remove: Pull up the bottom side of the battery.

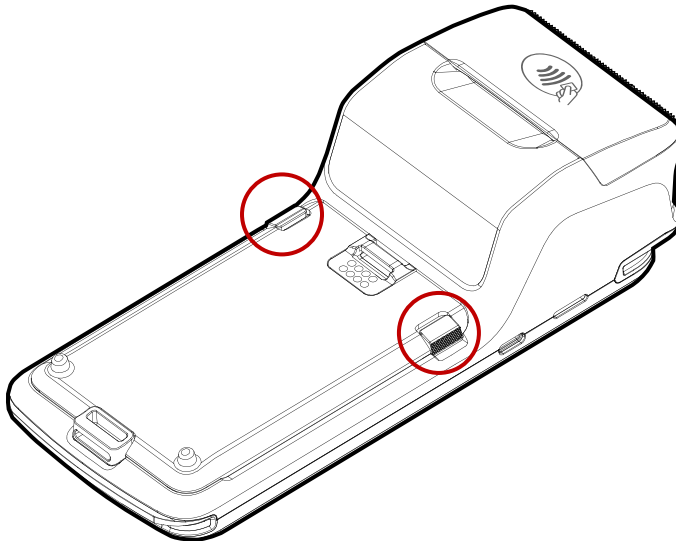
Figure 7 Battery replacement - 3



4. Put the cover's latch on the bottom side on the terminal, and close it.
5. Press around the release button.

Confirm that the battery release buttons are completely outward.

Figure 8 Battery replacement - finish



Getting Started

Charge the Terminal

Before using P8, charge the terminal enough to use. P8 can be charged with power adapter or charging cradle. For best charging performance and safety, follow the normal [charging temperature](#).



Caution: Always use an original charger and cable from Point Mobile. Other chargers and cables may damage P8. Also, make sure the charger and cables are not wet.

Follow the [Battery Safety Information](#) for safety of using the battery.

Battery specification

- Rated capacity: 2,500mAh
- Rechargeable & Removable battery

Charging temperature

Charge terminal and battery in temperatures from 0 °C to 40 °C.

Charging Indication

When charging starts through a charger or charging cradle, the LED indicator above the screen lights on as follows.

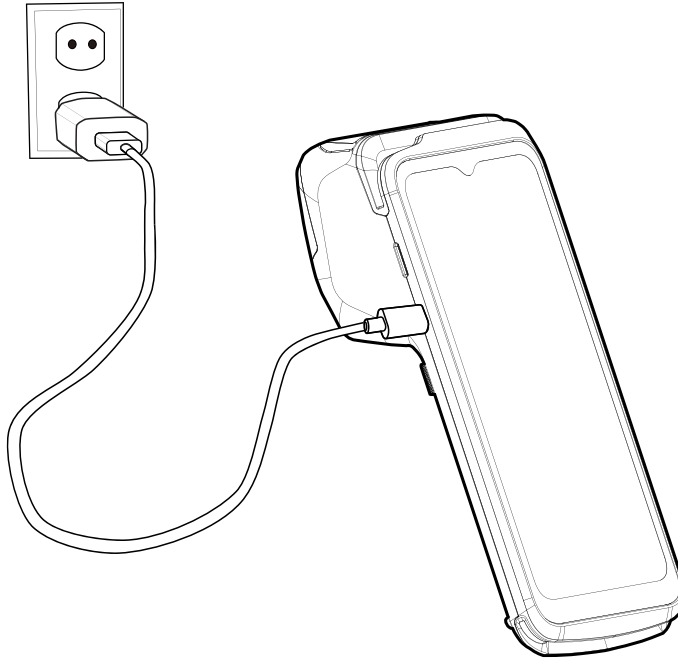
Status	Indication
 Solid green	Terminal is charging and the battery level is above 90%
 Solid red	Terminal is charging

Getting Started

Charge with power adapter

1. Assemble the power adapter and USB type C cable.
2. Connect the cable to the USB connector on the left side of the P8.
3. Provide power by plugging the power adapter to the wall socket.

Figure 9 Charging P8 with power adapter



Charging Cradle

There are a Single Slot Cradle (SSC) for charging P8. The cradles are sold separately.

Single Slot Cradle (SSC)

SSC provides one P8 charging slot. Refer to [Accessories](#) chapter for more detail.

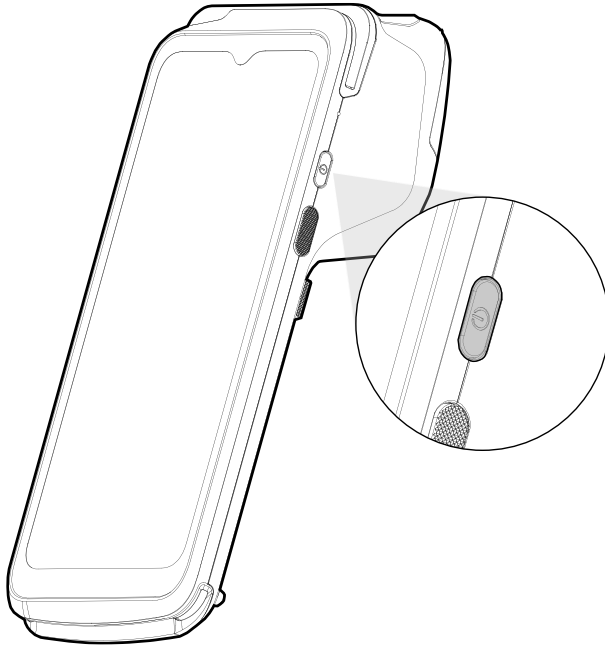
Getting Started

Turn On / Off the Terminal

To turn on the terminal,

- Press and hold the power button on the right side of the terminal until the screen turns on.

Figure 10 P8 power button



To turn off the terminal,

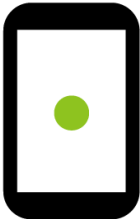
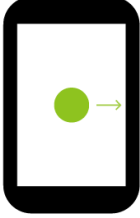
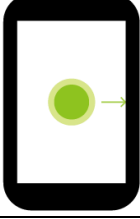
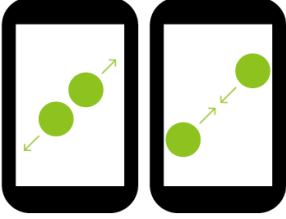
- Press and hold the power button when the display is on until the power menu is shown. Then, tap **Power off**.

Figure 11 Power menu - Power off



Getting Started

Use a Touch Screen

Gesture	Description
	Tap One-finger press
	Long-press One-finger press, wait, lift for select action
	Drag, Swipe, or Fling One-finger press, move, lift for scroll or tilt action
	Long-press drag One-finger press, wait, move, lift for pick up and move, or select multiple items action
	Pinch Open & Close Two-finger press, move outwards and inwards, lift for zoom in / out action
	Rotate When P8 is turning sideways, screen orientation is changing

Thermal Printer

Thermal Printer

Paper roll recommendation

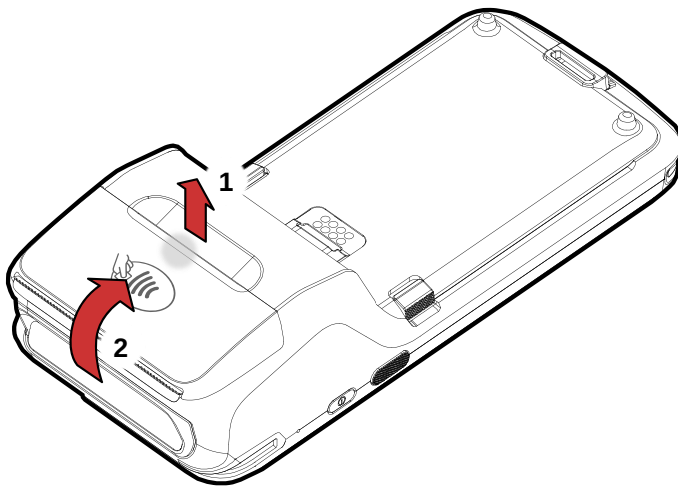
Provide a paper roll with the following specification.

- Type: Thermal paper
- Width: 58mm
- Diameter: 40mm

Installing a paper roll

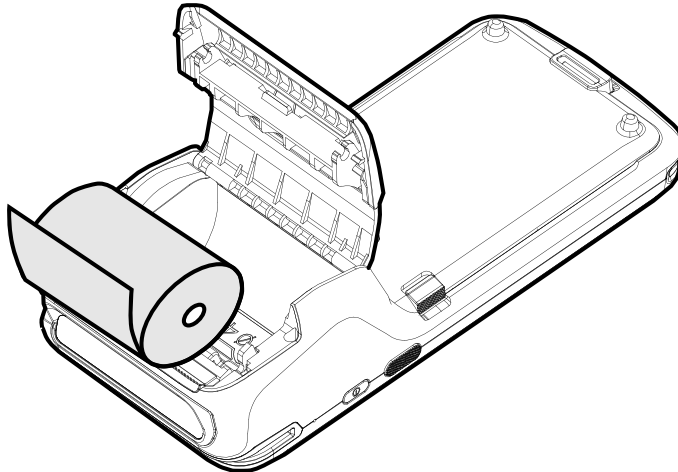
1. Gently pull up the hole of the printer cover, and open the cover upward.

Figure 12 Installing a paper roll - 1



2. Referring to Figure 13, put the paper roll into the printer in the correct orientation.

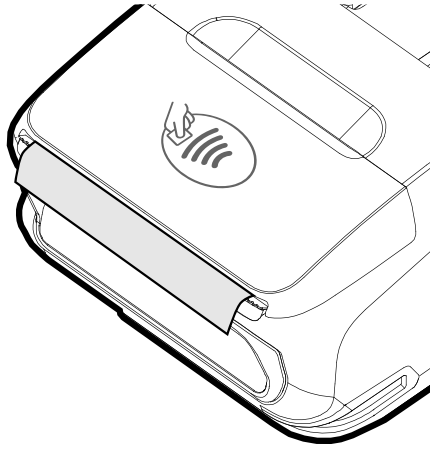
Figure 13 Installing a paper roll - 2



Thermal Printer

3. Close the printer cover firmly.
The end of the paper roll should be a little unrolled to allow it to extend outside the printer cover.

Figure 14 Installing a paper roll - 3



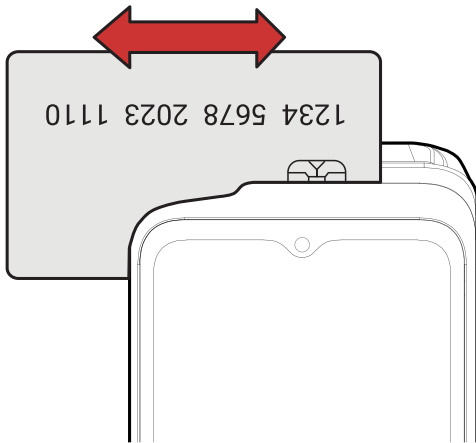
Payment

Magnetic Stripe Card

Read a magnetic stripe card using the MSR (Magnetic Stripe Reader) on the top of the terminal.

Swipe the card through the MSR at a proper and steady speed. The magnetic stripe must be facing down as Figure 15 and you can read the card bi-direction.

Figure 15 MSR Payment

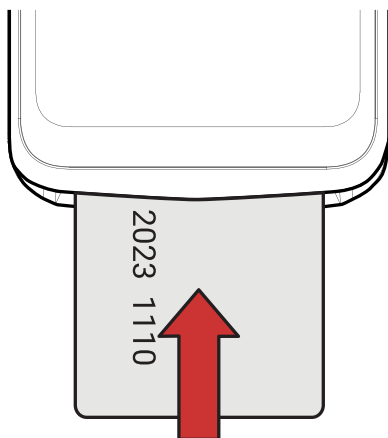


IC Card (Smart Card)

Read an IC card using the ICCR (IC Card Reader) on the bottom side of the terminal.

Insert the card to the ICCR and wait for completing the transaction. The IC chip must be facing up as Figure 16.

Figure 16 ICCR Payment

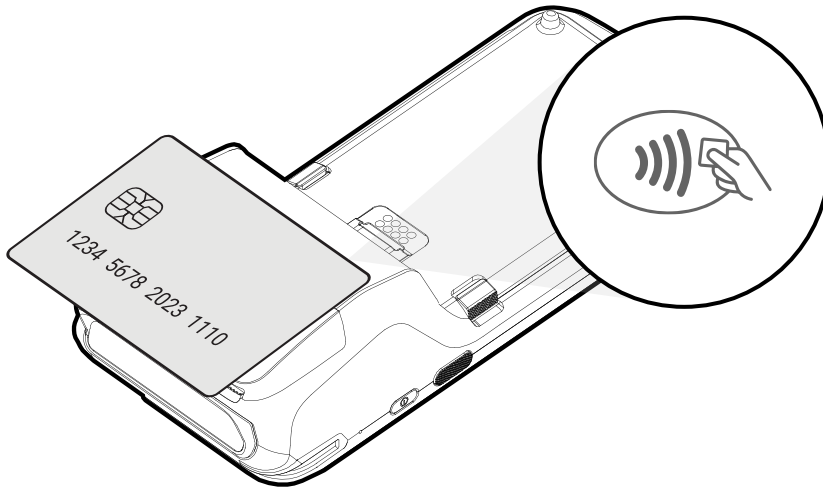


Payment

Contactless Payment

Make a contactless payment with NFC feature. Bring the card close to the NFC symbol on the printer cover of the terminal, and keep the position during the transaction.

Figure 17 Contactless payment



Learning the Basics

Home Screen

Move to the home screen by tapping home button  on the navigation bar. You can find the status bar, open the notification panel, or place apps on the home screen.

Status bar

Time, status icons, and notification icons are on the Status bar.

Status icons

Icon	Description	Icon	Description
	Hotspot enabled		Airplane mode
	Connected to a Wi-Fi network		Data communication
	Connected to a Bluetooth device		Battery is full
	Battery is low		Battery is charging
	Scanner service is running		Vibrate mode

Notification icons

Icon	Description	Icon	Description
	File uploaded		File downloaded
	There are more notifications		

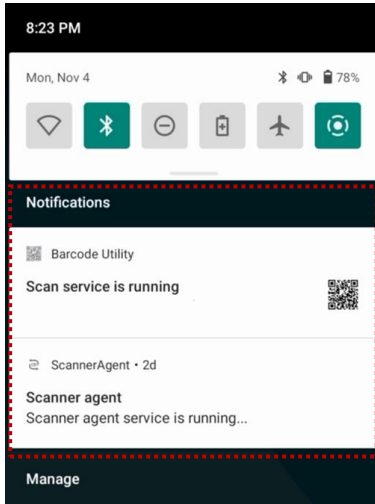
Learning the Basics

Notification panel

Notification panel displays a list of all notifications. Tap a notification to respond.

To open the Notification panel, drag the Status bar down. To close the panel, swipe it up.

Figure 18 Notification panel



Learning the Basics

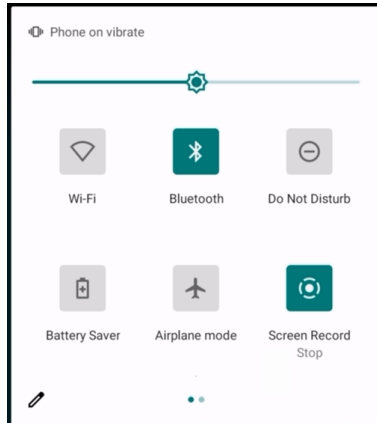
Quick setting panel

Quick setting panel contains some frequently used settings such as Wi-Fi, Bluetooth, etc.

To use the Quick setting panel,

1. Open the Notification panel.
2. Drag down the Notification panel.
3. Tap a setting icon to enable / disable the setting or long-press an icon to see more detail.

Figure 19 Quick setting panel



To edit the configuration of Quick setting panel,

1. Tap  on the bottom of the panel.
2. By long-press and dragging the icon, customize the configuration of the panel.

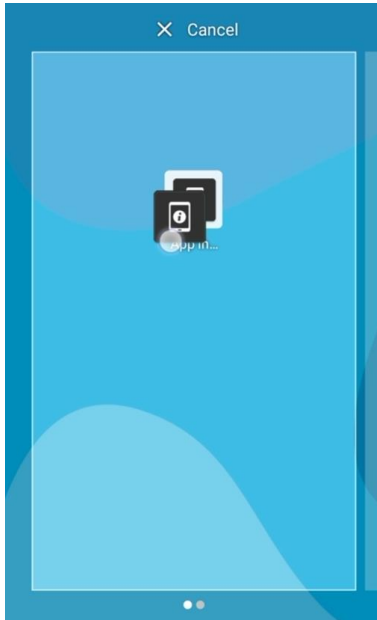
Learning the Basics

Apps

App folder

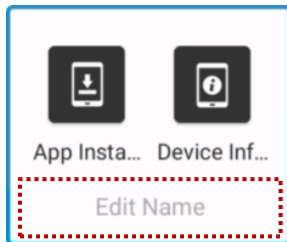
To create the app folder, long-press an app icon and drag it to another app icon.

Figure 20 Create app folder



To change the folder name, tap the **Edit Name** and input a new name.

Figure 21 Change app folder name



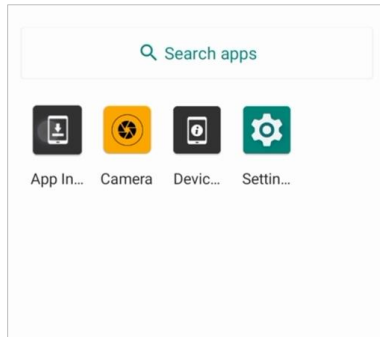
Learning the Basics

App drawer

All installed apps are listed alphabetically in App drawer.

- To open the App drawer, swipe up the Home screen.
- To close the App drawer, swipe down the screen.

Figure 22 App drawer



Favorites tray

To organize an app in the Favorites tray,

1. Long-press an app icon from the App drawer. Then, drag it slightly until the Home screen is shown.
2. Place the app icon in the Favorites tray.

Figure 23 Add an app to Favorites tray



Learning the Basics

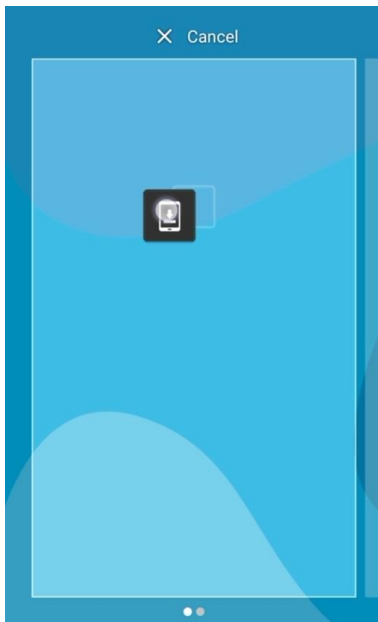
Organize app in Home screen

To organize an app in the Home screen,

1. Long-press an app icon from the App drawer. Then, drag it slightly until the Home screen is shown.
2. Place the app icon where you want.

(To cancel to place the app, drag it to **Cancel** area and release.)

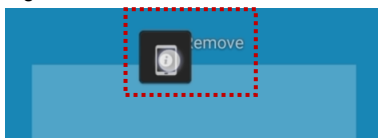
Figure 24 Place app in Home screen



To remove an app or widget in the Home screen,

1. Long-press an app icon or widget.
2. Drag it to **Remove** area and release.

Figure 25 Remove from Home screen



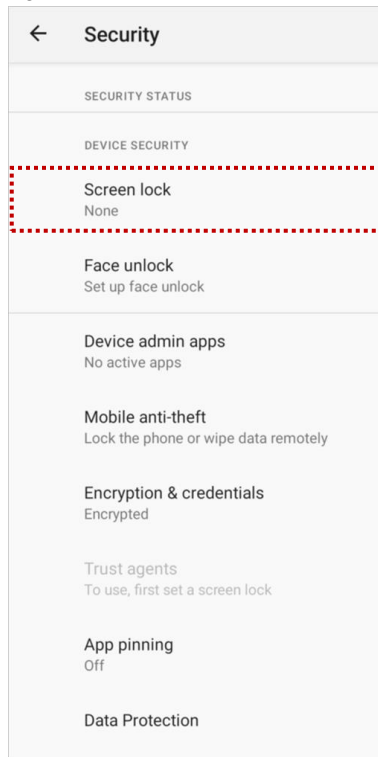
Learning the Basics

Lock the Screen

Protect the terminal from unauthorized personnel by setting up the screen lock.

1. Navigate to **Settings**  > **Security**.
2. Tap **Screen lock**.

Figure 26 Screen lock



3. Choose a screen lock method.
 - None: Screen unlocks immediately
 - Swipe: Swipe the lock screen to unlock (Default)
 - Pattern: Draw a pattern to unlock
 - PIN: Input a PIN to unlock (At least 4 digits)
 - Password: Input a password to unlock (At least 4 characters)

Learning the Basics

Settings

Open the App drawer and tap **Settings**  to control the system settings.

Adjust display brightness

To adjust the display brightness level,

- Open Quick setting panel and adjust display brightness bar
- Go to **Settings**  > **Display** > **Brightness level**

Figure 27 Normal brightness level

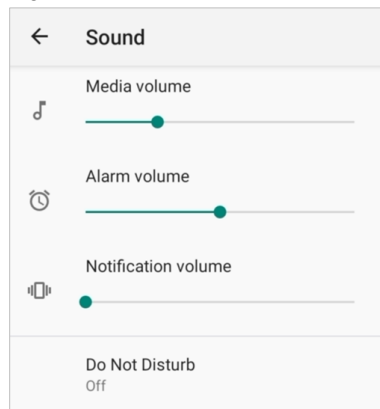


Caution: Using high brightness levels for long periods may cause eye strain and increase battery consumption.

Adjust sound

To adjust sound volume, go to **Settings**  > **Sound** and control the Media, Alarm, Notification volume bars.

Figure 28 Volume bars



Caution: Using high volume levels for long periods may cause ear strain and increase battery consumption.

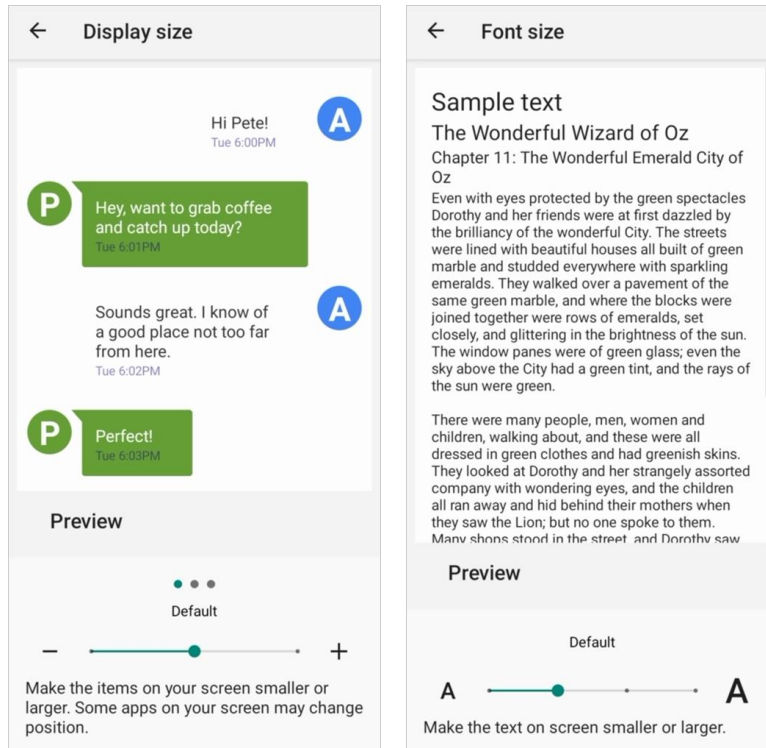
Learning the Basics

Adjust display and font size

If the display and text size of the screen is too small or too large, adjust the size.

1. Go to **Settings**  > **Display** > **Advanced** > **Display size and Font size**.
2. Referring to the **Preview**, set the size.

Figure 29 Set display and text size



Screenshot

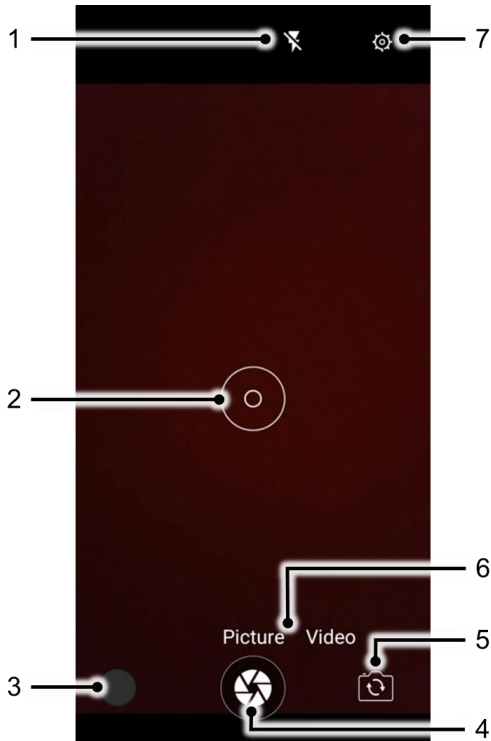
To take a screenshot, tap recent apps button  on the navigation bar. And then, tap **Screenshot** on the bottom of the screen.

The screenshot image will be saved to **Pictures > Screenshots** folder in the internal storage.

Camera

To use the camera, open App drawer and tap **Camera** application . Figure 30 오류! 참조 원본을 찾을 수 없습니다. is a main screen of Camera application.

Figure 30 Camera main screen



No	Name	Description
1	Flash option	Set flash mode (Activate / Deactivate / Auto mode)
2	Focus zone	You can change the focusing area by touching the other area
3	Gallery	Tap to see the recently taken pictures
4	Shutter button	Take a picture or recode a video
5	Camera switch	Switch the camera (Top / Front)
6	Mode	Swipe or tap to change the mode (Picture / Video)
7	Advanced camera option	Set quality, timer, size, etc.

Scanner

Scanner is placed on the top of the terminal. Optimize the scanner settings for working environment and improve the efficiency.

Turn on / off the Scanner

The scanner is turned on by default. You can check the scanner status by the 2D barcode icon  on the status bar. If the icon displays, the scanner is turned on.

Scanner Settings

You can configure the scanner settings in **Settings**  > **Barcode Utility**. **Barcode Utility** consists of

- Barcode Module Setting (Symbologies settings)
- Scan Setting
 - INVERSE CODE SUPPORT
 - MAX SCAN TIME, DATA RECEIVE METHOD
 - SCANKEY ENABLE
 - NOTIFICATION
 - SCAN DELAY SETTING
 - USER DEFINITION PREFIX CHAR/ SUFFIX CHAR
 - LETTER CASE
 - CHARACTER MODIFY
 - SETTING LOCK

Scanner

Scan a Barcode



Note: If you want to trigger a scanning with the yellow button on the right side of the terminal, go to **Settings** > **Barcode Utility** > **Scan Setting** and turn on the **Right ScanKey** switch.

Center the red square aimer over the barcode. The barcode must be within the illumination square. You can tilt the aimer slightly for a comfortable angle to scan.

Figure 31 Aiming barcode



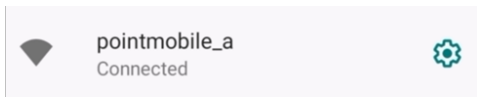
Wireless

Wi-Fi

To turn on and connect a Wi-Fi,

1. Go to **Settings**  > **Network & internet** > **Wi-Fi**.
2. Tap toggle button to enable Wi-Fi.
3. Terminal searches for nearby Wi-Fi signals and lists them in order of signal strength.
4. Select a Wi-Fi SSID to connect.
5. The message **Connected** under the SSID means the terminal complete to connect to the Wi-Fi.

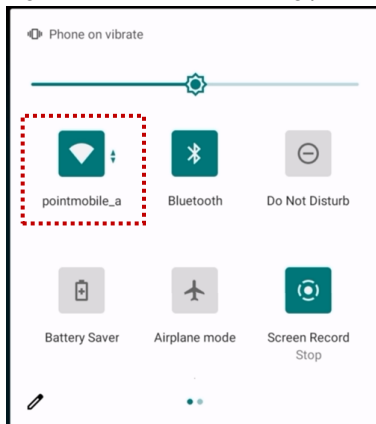
Figure 32 Wi-Fi connected



Note: P8 cannot search and connect to an Open WLAN network because of security. To connect the secured Wi-Fi network, you need to enter the password.

If there is a saved Wi-Fi network, simply turn on the Wi-Fi through the Quick setting panel. The saved network will be connected automatically.

Figure 33 Wi-Fi in Quick setting panel



Wireless

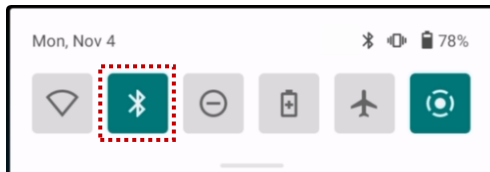
Bluetooth

Turn on / off

Bluetooth is turned on as default. If the Bluetooth is turned off, turn on with one of the following ways.

- Open quick setting panel and enable **Bluetooth** 

Figure 34 Bluetooth in Quick setting panel



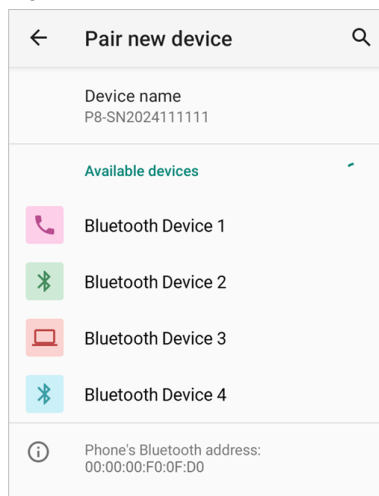
- Go to **Settings**  > **Connected devices** > **Pair new device**

Pair and Connect

To connect with a new device,

1. Go to **Settings**  > **Connected devices**.
2. Tap **Pair new device**.
(Bluetooth will be turned on automatically)
3. Select the device you want to pair among **Available devices** list.

Figure 35 Bluetooth available devices

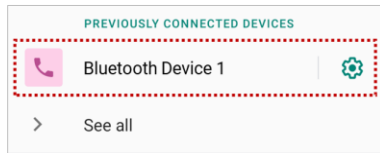


4. Follow instructions on the screen (Pairing code or pairing confirmation dialog) and tap **PAIR**.
5. When the connection is succeeded, the connected device name is listed under the **Other devices** list.

Wireless

To connect a device previously connected, select the device name from the **PREVIOUSLY CONNECTED DEVICES** list.

Figure 36 Previously connected devices

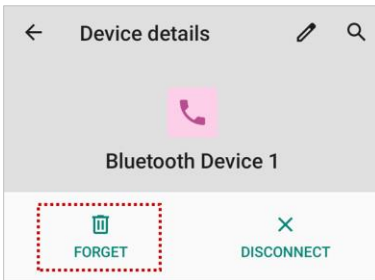


Unpair and Disconnect

To unpair the device, select the name of the device you want to unpair from the **Other devices** list and tap **FORGET** .

Or tap **DISCONNECT**  to disconnect only and not unpair.

Figure 37 Forget device



Change the Bluetooth device details

Tap the Bluetooth device's name to see device details. To change the device's name, tap  on the top of the screen. You can turn other settings on or off (Available on some devices).

System Maintenance

System Information

There are two ways for checking system information, on **settings** and on **Device Information** app.

On Settings

Go to **Settings**  > **About device**. Following information can be found.

- Device name
- Legal information & Certificates
- Model & hardware
- Android version
- IP address
- Wi-Fi MAC address
- Bluetooth address
- Ethernet MAC address
- Up time
- Build number & Firmware version

On Device Information app

Launch the **Device Information**  from the app drawer. Following information can be found.

- SN (Serial Number)
- SP
- SDK version
- Build number

You can print the information by **Print Output** button on the bottom of the screen.

System Maintenance

OS Update

Periodic update improves the performance of the terminal. Point Mobile provides up-to-date OS version. Update the terminal via storage, OTG port, and FOTA server. Depending on the workspace environment, choose more suitable method.



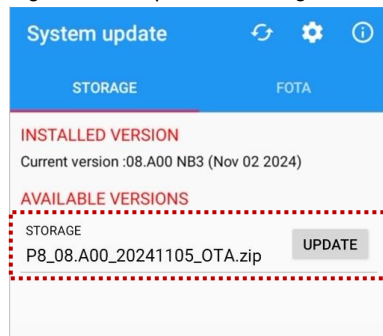
Notice: Please backup your data before starting the update process.

OS update via storage

To update the OS using storage,

1. Download an OS image file into the root folder of microSD card or terminal's internal storage.
2. (In case of using SD card) Insert SD card to the terminal and then turn the terminal on.
3. Go to **Settings**  > **System** > **Advanced** > **System update**.
4. Check if the OS image file shows up under **AVAILABLE VERSIONS**.

Figure 38 OS update via storage



5. Tap **UPDATE** to start the update process



Note: If the OS image file doesn't show up in **AVAILABLE VERSIONS**, check the file is placed in the root folder of storage. System only can recognize the file in the root folder.

System Maintenance

OS update via OTG port

P8 supports the USB OTG feature.

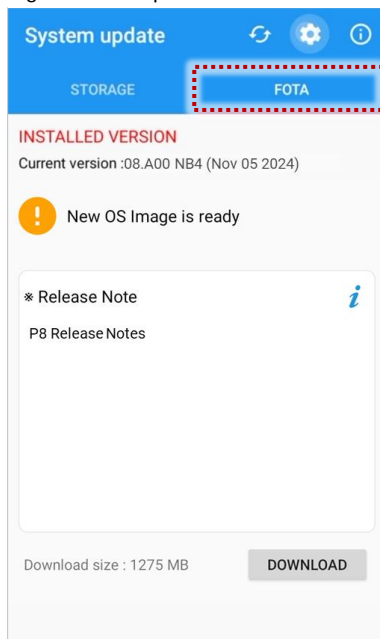
1. Prepare a formatted USB flash drive for OS update.
2. Copy an OS image file to the root folder of the flash drive.
3. Connect the flash driver to the P8.
4. Go to **Settings**  > **System** > **Advanced** > **System update**.
5. Check if the OS image file shows up under **AVAILABLE VERSIONS**.
6. Tap **UPDATE** to start the update process.

OS update via FOTA

If P8 can connect to a network, use the FOTA server for the update.

1. Connect the terminal with a network.
2. Go to **Settings**  > **System** > **Advanced** > **System update**.
3. Tap **FOTA** tab or Swipe left to move to **FOTA** tab.
4. If there is an OS version newer than terminal's one, the server shows the new OS information.

Figure 39 OS update via FOTA



5. Tap **Download**.
6. Tap **OK** on the **OS Update** dialog to start to download the OS image file.
7. To complete the update, rebooting is required.
Tap **OK** on the **Restart required** dialog to restart the terminal.

Accessories

P8 supports a charging cradle, SSC (Single Slot Cradle). The cradle is sold separately.

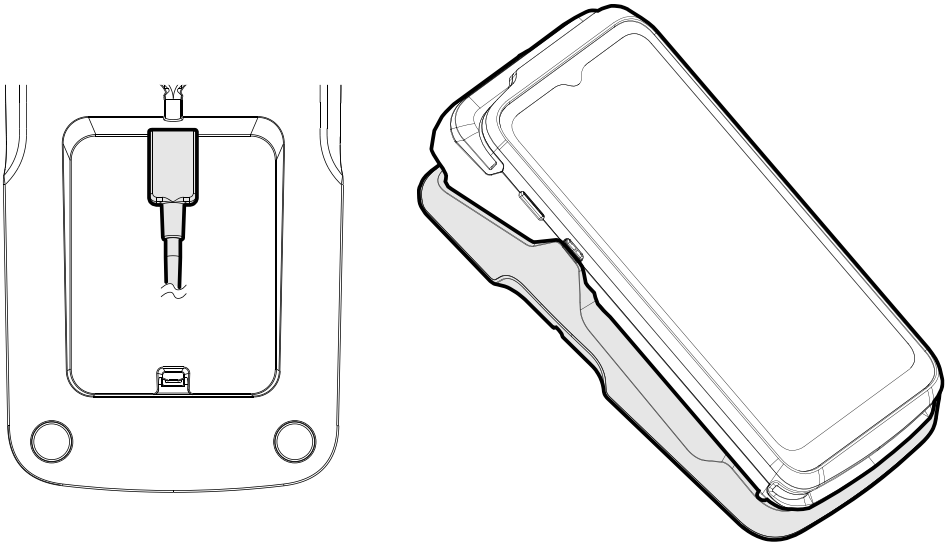
Category	Accessory Name	Usage
Charging cradle	SSC (Single Slot Cradle)	Charges one P8

Charging cradle

Single Slot Cradle (SSC)

SSC can charge P8 only. Connect the charger with USB type C cable, and install the terminal onto the cradle.

Figure 40 P8 + SSC (Single Slot Cradle)

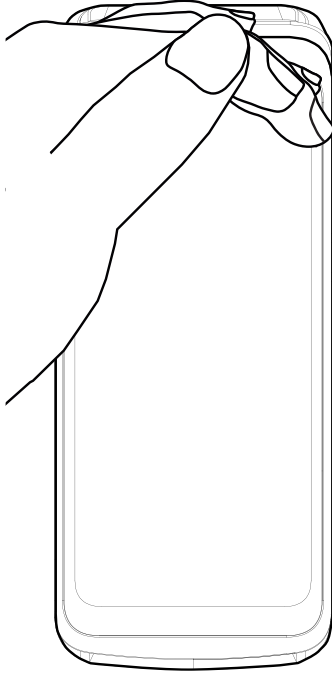


Safety Information

Entering PIN

Cardholder should cover the key area with one hand during entering PIN (Refer to Figure 41). In this way, the key area will not be seen except the cardholder. It can protect the secret code from peeping by the others.

Figure 41 Cover the screen during entering PIN



Safety Information

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 Information

Battery Storage / Disposal Guidelines

- Store the batteries in a clean, dry and ventilated environment within ambient temperature ranges of $20\pm5^{\circ}\text{C}$.
- 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.



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