

For Android[™] 7.1.2

Enterprise Mobility **PM45** 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 PM45.

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 8 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 90

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.



www.sar-tick.com



Body-worn Operation

This device was tested for typical body-worn operations with the front & back of the phone kept 0.2 inches (0.5 cm) between the user's body and the front & back of the phone. A minimum separation distance of 0.2 inches (0.5 cm) must be maintained between the user's body and the front & back of the phone. Any belt clips, holsters, and similar accessories containing metallic components may not be used. Bodyworn accessories that cannot maintain 0.2 inches (0.5 cm) separation distance between the user's body and the front & back of the phone, and have not been tested for typical body-worn operations should be avoided.

PROTECT YOUR HEARING

To prevent possible hearing damage, do not listen at high volume levels for long periods. Exercise caution when holding your device near your ear while the loudspeaker is in use.

<u>Rev 01</u>

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Accessary

Getting Started

AC/DC adapter (5V2A)



Plug (US/ EU/UK)







Standard Battery (2,900mAh)



Extended Battery (5,800mAh)





USB Type-C cable

SIM Tray Eject Pin



Accessary

Getting Started

LCD Protection Film



Optional Accessories

2 Slot Cradle

(Up to three 2 slot Cradles can be linked to charge 6 devices at a time



Getting Started

Remove the Battery Cover

1. Push up the Battery Cover Lock



2. Lift up the Battery Cover Lock



3. Remove the Battery Cover Lock

Getting Started

Insert the Battery

1. Insert Battery from the top first, and then put in the bottom



2. Insert the battery cover from the bottom first



3. Push down the battery cover lock



Getting Started

Install SIM card / microSD card

1. Insert the SIM Tray Eject Pin into the tray eject hole.



2. Push the pin all the way into the hole until the tray ejects, and then pull the tray out



Getting Started

3. Insert the SIM/micro SD card into the slot. Please insert SIM card and SD Card as shown below. (PM45 is Dual SIM Dual Standby model)



Gold contacts should face down

Note: Your device only supports the Nano SIM cards. Do not insert a modified card which is thicker than the standard Nano SIM card. Modified card may damage the card slot.

PM45 supports up to 32GB microSD card

4. Press on the cover of the tray to close it tightly.

Charge PM45

Getting Started

1. Insert USB Type-C cable into the adapter and connect to an electrical socket to charge first. Connect another side USB cable to the PM45. (You can also charge the PM45 with optional accessory such as cradle)



2. 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
Standard Battery	2,900mAh 3.85V
Backup Battery	5,800mAh 3.85V
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 PM45. In addition, make sure connector, charger, cables are not wet.

Turn On/Off PM45

Getting Started

Turn On

- 1. Press and hold the "Power Key" for a few seconds.
- 2. When PM45 enter to the boot mode, it will display "SMART BEYOND RUGGED" logo
- 3. Release the "Power Key" and wait until PM45 finish booting

Note: If you cannot turn on your PM45, try below steps

- To turn on PM45, battery needs to be charged certain level. Please charge first
- Press and hold the "Power key" for over 8 seconds to force reboot

Turn Off

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



2. Touch "Power Off"

Use a keypad

Learning the basics

Power key

Press

- Lock the screen / Light up the screen.

Press and hold

- Display the power menu "Power Off / Restart / Airplane mode"

Press and hold for over 8 seconds

- Forced to reboot

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

- Screen capture

Volume keys

In general

- Adjusts the ringtone volume or "Mute" the ringtone of an incoming call.

In call mode

- Adjusts the earpiece or headset volume.

In Music / Video / Streaming

- Adjusts the media volume.

In camera preview

- Take the photo by pressing Volume Up or Down key.

Push to Talk key (Programable Key)

In general

- Run Push to Talk service
- Programable key

Please set function in EmKit – Program Buttons. Please find details on page 99



Use a keypad

Learning the basics

Front panel



Recent Apps key

- Press to see recently used apps.

Home key

- From any apps or screens, press to return to the Home screen.

Back key 🕤

- Press to go back to the previous screen, or to close a dialog box, options menu, notification panel, etc.

Learning the basics

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"

Learning the basics

Use a touch screen



Scroll

Vertical or horizontal swipe in a single direction



Pinch Open & Close

Two-finger press, move outwards and inwords, lift for "Zoom in and out"

Rotate

When PM45 is turning sideways, screen orientation is changing



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Get connected

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To continue setup, connect to a network



Don't use any network for setup



Learning the basics

Copy your data

To copy your settings, please connect your PM45 to Wi-Fi network

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

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



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Learning the basics

Choose the device or cloud where you want to copy the settings.





 Email or phone
 Please sign in to your Google Account. You may skip this process and sign in later

 Forgot email?
 You may skip the Google account sign in process and set later. Settings → Accounts → Add account → Google

C Name Adding your name allows your phone to personalize some apps.	
e.g. Joe Smith	After your Google account login, you can set PM45's name Touch here to set a name
R) 💌 🔳 10	%
♥ ▼ ▲ 10 Protect your phone Prevent others from using this phone without your permission by activating device protection features. Choose the screen lock you want to use.	Choose security option for lock screen. You set specific pattern or PIN or password here. You may skip this process and set later
Protect your phone Prevent others from using this phone without your permission by activating device protection features. Choose the screen lock you want to use. Pattern	Choose security option for lock screen. You set specific pattern or PIN or password here.
Protect your phone Prevent others from using this phone without your permission by activating device protection features. Choose the screen lock you want to use.	Choose security option for lock screen. You set specific pattern or PIN or password here.

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Google services

Tap to learn more about each service, such as how to turn it on or off later. Data will be used according to Google's Privacy Policy.











Learning the basics

Organize the app icon in the home screen

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

Create "App Folder"

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





Notification panel

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

Learning the basics

Quick setting panel

You can access "Quick setting panel" by drag down the "Notification panel". You can enable / disable functions or change modes easily.

Learning the basics





Edit Quick settings panel

To change the order of icon in the Quick settings panel, touch the
Edit icon

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



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Learning the basics

Touch the

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App drawer icon, to see apps in your PM45

All installed apps are listed alphabetically

- Tap app icon to run.
- Long press, specific app icon to place to the "Home Screen".

Learning the basics



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By drag up the Favorite tray apps area, you can also access to app list in your PM45

Learning the basics



	🕲 🕕 💎 🖌 📋 100% 2:55 PM
3 Calendar	
Month 4 × 4	Schedule 2 × 3
	Fri April 25 • Eline visiting Jake Internet (day 4 of 5) Peter Forta Bethday Colfee with Elice Upd Car and Eliki Star
Chrome	
Chrome bookmar 3 × 2 Google Maps C New York Times	Chrome search 4 × 1
Yahoo ESPN Soccer	
Clock	
Analog clock 2 × 2	Digital clock 3 × 2
	10:23 TUE, MAR 22 (5) WED, 6130 AM

To add a Widget in the Home screen, long press the empty space. Then you will see **WALL PAPERS**, **WIDGETS**, **SETTINS** menu. Touch **WIDGETS**

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

Home Screen, Apps and Widget Learning the basics 🕲 💎 🔟 📋 100% 1:12 PM By pressing the Recent button in the keypad, you can see app list which you access 🔘 Settings Notifications Touch the app, if you want to use or access the app. apps allowed Phone If you want to close individual app, long press the app and then touch \mathbf{X}_{icon} No one is on your speed dial yet ADD A FAVORITE If you close all of the apps, then touch Brush icon Program Buttons To see the two apps in the screen, please try Split screen Phone function. In the recent app list, long press - drag and drop the one of the app to the top area Settings × 0 +3 Suggestions Set screen lock 6 : Protect your device Add another email account : Μ Set up your personal or wo Wireless & networks Wi-Fi PM24_PSK Bluetooth * Disabled Data usage 0 398 KB of data





Learning the basics

Now primary app is selected. Touch another app to see in the screen.

C Phone X

Program Buttons

	(2) ▼⊿ [100% 1:1	3 PM
Setti	ngs		Q
~	Suggestions		+3
ම	Set screen lock Protect your device		0 0
	Add another email account Set up your personal or work email		
Wireless & networks			
	_		
Q	Search contacts & places	Ŷ	:
	*		
No one is on your speed dial yet			
	ADD A FAVORITE		
Favo	rites Recents	Contacts	

By selecting another app, you can see two apps in the screen

Note: Some of the app may not support split screen function

Learning the basics



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By scroll up or down the black bar in the middle, you can exit split screen mode.
Status & Notifications Icons

Learning the basics

Status icons

G		G 🖌	
	GPRS connected	*	GPRS in use
E	EDGE connected	Ē	EDGE in use
3G	3G connected	3G ↓	3G in use
4G	4G connected	4G ↓	4G in use
	Signal strength	Δ	No signal
R	Roaming		Airplane mode
X	No SIM card installed		
	WLAN is on	V	Connected to a WLAN network
*	Bluetooth is on	*	Connected to a Bluetooth device
	Battery is full		Battery is partially drained
	Battery is low	Ī	Battery is very low
Ē	Battery is charging		
•	GPS is on	Ũ	Alarm is set
2	Speaker phone is on	ŋ	Headset connected
u[]i	Vibrate mode/ Mute	Ķ	Phone mic is mute

Status & Notifications Icons

Learning the basics

Notification icons

	Missed call		New SMS or MMS message
	New Email	От	Connected to VPN network
	Upcoming event		Screenshot captured
*	Preparing SD card		SD card removed, unexpectedly
Ŷ	OTG device connected		
1	File uploaded	⊥	File downloaded
••••	There are more notifications		Other input method available



Set a Lock screen

00% 3:31 PM
>
>
>
>
>

Learning the basics

None :	PM45 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
Password :	To unlock the screen, user should input the password

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Secure start-up

You can further protect this device by requiring your pattern before it starts up. Until the device starts up, it can't receive calls, messages, or notifications, including alarms.

This helps protect data on lost or stolen devices.

Require pattern to start device

No thanks

0

When you choose the Pattern, PIN or Password option, you can set secure start-up option. This function enables unlock the PM45 before bootup

If you don't want secure start-up option, please touch "No thanks"



Manage a display

	🚷 🕕 🛡 🖌 🛔 100% 3:51 PM
≡	E Display
30	reen mode
Wa	allpaper >
	eep er 1 minute of inactivity
Wa	akeup Source
Sc Clo	reen saver ack
	nt size fault
	splay size fault
	nen device is rotated tate the contents of the screen

Wi-Fi Display

Learning the basics

Font size : Set overall font size of PM45

Display size : Set overall fond display amount of PM45

Manage a display	Learning the basics
 () 	
Brightness level	
Adaptive brightness Optimize brightness level for available	To change the brightness level, please adjust the slider
Night mode Off	If you let PM45 auto adjust the brightness level, please touch "Auto" or enable "Adaptive brightness" option
Screen mode	
Wallpaper >	
Sleep After 1 minute of inactivity	
Wakeup Source	
Screen saver Clock	
Font size	
லி (⊡) ▼⊿ 🗎 100% 3:52 PM ← Night mode	
Automate schedule	By setting this option, PM45 change warm level of color temperature
Schedule plan 10:00 PM to 6:00 AM	Most of usage is prevent eye fatigue during the night time or dark room
Manually enable	
When Night Mode is on	
Color temperature	
Less warm More warm	

Manage a display

Learning the basics



There were many people, men, women and chil-

Preview

Α

Default

Make the text on screen smaller or larger.

 Change the overall font size of PM45. Please adjust the slider

Manage a display

🕲 🕕 💎 🖌 📋 100% 3:53 PM ← **Display size** Α Hi Pete! Tue 6:00PM Hey, want to grab coffee and catch up today? Ρ Α Sounds great. I know of a good place not too far from here. Preview • • • Default Change the amount of the display item of PM45. Please +adjust the slider Make the items on your screen smaller or larger. Some apps on your screen may change position.



Make a call

Learning the basics





Add to a contact

🕲 🕕 💎 🔟 📋 100% 4:43 PM ← Settings Sort by First name Name format First name first Edit contacts Default account for new contacts Device Phonetic name Hide if empty Manage contacts Import Export Blocked numbers 🕲 🕕 💎 🖌 📋 100% 4:43 PM Sort by First name Name format Import contacts from Ed .vcf file De SIM KT SIM SIM 2 Pł CANCEL Import Export **Blocked numbers**

Learning the basics

Touch to import contact information in your SIM card

Add to a contact

🕲 🕕 🛡 🖌 📋 100% 4:44 PM \times Create contact SAVE : 0 Save location for the new contact Device Input Contact name, phone numbers and other information • First name in the form Suggest contact names? Tap for info. 🌵 $Q^{1}W^{2}E^{3}R^{4}T^{5}Y^{6}U^{7}I^{8}O^{9}P^{0}$ ASDFGHJKL Z X C V B N M 🖾 4 Touch to import contact information in your SIM card ?1© , 🕲 🕕 💎 🖌 📋 100% 4:44 PI **Point Mobile** 5 Call Text Set up 02-3397-7870 曰 Ľ, Mobile Recent See your history together 0 Events and messages Touch to edit contact information

Add to a contact

Learning the basics







Send a message



App permissions Body Sensors 1 of 1 apps allowed Calendar 4 of 6 apps allowed Camera

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Learning the basics

Android ask a grant app's specific permission access for first time use. To send a photo or a saved media file or a voice recode file or a location, please touch **ALLOW**

You can review granted permission info at

Touch "App drawer" icon \rightarrow (Settings" \rightarrow Apps \rightarrow Configure apps $\clubsuit \rightarrow$ App permissions

Change a SIM card settings

Learning the basics



Change a SIM card settings

🕲 🕕 💎 🖌 📕 100% 5:07 PM SIM cards SIM cards SIM 1(KT - 1) 1 KT - +821095895520 4G/3G/2G(auto) Select a SIM for data KT - 1 1 -----KT - 2 2 Turn off mobile data \mathbf{X} SMS messages KT - 1 🕲 🕕 💎 🖌 📕 100% 5:07 PM SIM cards SIM 1(KT - 1) KT - +821095895520 4G/3G/2G(auto) 1 Call with Both SIM cards KT - 1 1 :02100500552 KT - 2 2 SMS messages KT - 1

Learning the basics

Select SIM card for mobile data or turn off mobile data

Select SIM card for calling. You can select Both SIM cards

Change a SIM card settings

🕲 🕕 💎 🖌 📕 100% 5:07 PM SIM cards SIM cards SIM 1(KT - 1) KT - +821095895520 4G/3G/2G(auto) 1 SIM 2(KT - 2) Select SIM card for SMS KT - 1 1 ------KT - 2 2 ------Calls KT - 1 SMS messages KT - 1

Learning the basics

Select SIM card for messaging. You can select Both SIM cards



Connect to your Wi-Fi network

	🜔 🕕 4 🚺 100% 5:16 PM
	Wi-Fi 🌼 :
	ointmobile_Public
•	•••••
] Show password dvanced options ~
	CANCEL CONNECT
	CANCEL CONNECT
1 2	3 4 5 6 7 8 9 0
q w	vertyuiop
а	sd fg hjkl
u	
Ξ	
?1☺	,
	🚷 🕕 🛂 📋 100% 5:16 PM
≡	Wi-Fi 🌣 :
	On 🔴
▼ a	Pointmobile_Public Obtaining IP address
•	iptime
•	iptime5G
V a	PM24_EAP
V ê	PM24_EAP_FT
T a	PM24_PSK
T à	PM24_PSK_FT
Ta	CWIT_BS
•	dongali_1

Learning the basics

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

- Your PM45 is obtaining the IP address from the selected AP



Make a Wi-Fi hotspot Learning the basics 🕲 🕕 🛀 📋 100% 5:17 PM ← Tethering Portable Wi-Fi hotspot Touch to turn On/Off the W-Fi hotspot Set up Wi-Fi hotspot Touch to set Wi-Fi hotspot setting PM45 WPA2 PSK portable Wi-Fi hotspot WPS Push Button Bluetooth tethering Not sharing this phone's Internet connection 🕲 🕕 🏰 📋 100% 5:17 PM Set up Wi-Fi hotspot Network name PM45 Set hotspot name Security Set hotspot security type : None / WPA2PSK WPA2 PSK Password Set password for hotspot The password must have at least 8 characters. Show password 🗹 Show wps push button Select AP Band Set hotspot band : 2.4GHz / 5GHz 2.4 GHz Band CANCEL SAVE

Make a Wi-Fi hotspot

© № 🐿 🖆 🗈 10	00% 5:19 PM
USB tethering USB not connected	
Portable Wi-Fi hotspot Portable hotspot PM45 active	
Set up Wi-Fi hotspot PM45 WPA2 PSK portable Wi-Fi hotspot	
WPS Push Button	
Bluetooth tethering Not sharing this phone's Internet connection	

Learning the basics

When hotspot is ready, you will see this icon



Connect with Bluetooth device



Learning the basics

PM45 will list up nearby Bluetooth devices. If you don't find the device which you want to pair, touch option icon : in top-left corner and touch "Refresh"

By touching the device name in the list, PM45 start to pair with Bluetooth device. (You may input the password)

Connect with Bluetooth device

Learning the basics





Use a Camera

Swipe to enter the menu 0 Camera Touch to change the Camera mode / Video mode Video In Settings, change resolution and quality, or try advanced features. 0 -Touch to change resolution and image quality Settings 4 Camera Set rear camera image saving quality Back camera photo (4:3) 13.0 megapixels Front camera photo Set front camera image saving quality (4:3) 5.0 megapixels Video Back camera video HD 1080p Set rear camera video saving quality Front camera video Set front camera video saving quality HD 1080p

Use a Camera

Shart Beyond Rugged <tr



Video Menu

Grid On / Off
Flash option : Auto flash / Flash / No flash
Change Rear / Front camera
Take a video





🗚 🕲 🕕 💎 🖌 📋 100% 7:46 PM 1 selected < ← Î : Share a file Alarms And roid Long tap the file and touch share icon \leq in the menu DCIM Download Movies Music Notifications Pictures Podcasts Ringtones $\langle \rangle$ devinfo.html 2.47 KB 5:09 PM ¥ 🕲 🕕 ▼⊿ 🛔 100% 7:46 PM PM45 Android Alarms DCIM Download Movies Music Notifications Pictures Podcasts Ringtones <> Share via M Now you can share selected file to nearby device or attach to Gmail or upload to Google Drive. Manual describe Bluetooth Gmail Save to Drive Android Beam

Manage files and folders

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Android Beam sharing via NFC

Manage files and folders



Learning the basics

Now tag another device to PM45's battery cover. PM45 will transfer the file

Note: Please make sure NFC is activated. NFC antenna is in the battery cover. Please lock the battery cover firmly


Manage files and folders



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Manage files and folders Learning the basics ¥ 🕲 🕕 マ⊿ 🛔 100% 8:47 PM Copy to ... C Recent ₽ Downloads PM45 23.15 GB free SD card Touch the storage where copy or move to 7.30 GB free Note: Please format the SD card as FAT32 and make sure set the label as below screenshot from the computer Format USB DRIVE (F:) \times Capacity: 7.31 GB \sim File system COPY FAT32 (Default) ~ Allocation unit size ¥ 🕲 🕕 マ⊿ 🛔 100% 8:47 PM 4096 bytes \sim \equiv SD card = Restore device defaults Android LOST.DIR Volume label USB DRIVE Screenshots System Volu... Format options Quick Format Start Close Touch "Copy" CANCEL COPY

Image: Complete interval int



Android System



Learning the basics

To browse files and folder in the PM45 in your PC, please change USB connect option

Scroll down the notification panel

Touch USB connect option



Learning the basics

Change option to "Transfer files" from "Charge this device"

Now your PC recognize PM45 as MTP device

💻 | 🎽 📑 🖛 | This PC × File Computer View ~ 👩 Ö 👩 Uninstall or change a program 🖡 🛋 \checkmark H -🕎 System properties Access Map network Add a network media • drive • location Properties Open Rename Open Settings 🔂 Manage Network Location System $\leftarrow \rightarrow \vee \uparrow \blacksquare \rightarrow$ This PC ✓ ^で Search This PC p 👃 Downloads 🛛 🖈 🐴 > Folders (7) 🗎 Documents 🖈 Oevices and drives (4) Pictures 1 Local Disk (C:) PM45 ConeDrive 20 16.0 GB free of 59.3 GB 💻 This PC DATA-SSD (D:) DATA-1TB (E:) 3D Objects 27.9 GB free of 59.2 GB 870 GB free of 931 GB 📃 Desktop Documents 👃 Downloads Music Pictures 📲 PM45 Videos 🏪 Local Disk (C:) 👝 DATA-SSD (D:) 🕳 DATA-1TB (E:) Network 11 items ::: 🛌 📲 | 🛃 🔚 🖛 | PM45 Х _ File Home Share 2 View **%**--🕂 Select all Ж \checkmark * 🛃 Move to 👻 🗙 Delete 🝷 **... **₹**]• Pin to Quick Copy Paste 🔲 Copy to 👻 📑 Rename New folder Properties 7 💾 Invert selection Ø access Clipboard Organize New Open Select -> · 🛧 📲 > This PC > PM45 > v ひ Search PM45 Q ← 👆 Downloads 🛛 🖈 Internal shared storage SD card 🗎 Documents 🖈 21.6 GB free of 24.2 GB 7.30 GB free of 7.30 GB Pictures 🝊 OneDrive This PC 3D Objects 📃 Desktop Documents 🕹 Downloads 💧 Music Pictures 📲 PM45 📕 Videos 🏪 Local Disk (C:) 👝 DATA-SSD (D:) 👝 DATA-1TB (E:) Network :== 📰 2 items

Learning the basics

Learning the basics

Change a Touch Sensitivity

🕲 💎 🖌 📋 100% 1:33 PM PM45 support touch sensitivity change option Q Settings G Google Languages & input English (United States) Backup & reset 0 System Date & time () GMT+09:00 Korean Standard Time "App drawer" icon \rightarrow "Settings" and then Touch Ť Accessibility "Accessibility" Printing ē 0 print jobs About phone **(i)** Android 7.1.2 🕲 💎 🔟 📋 100% 1:33 PM \equiv Accessibility Mono audio Combine channels when playing audio Accessibility shortcut Off Text-to-speech output Touch & hold delay Short Touch Sensitivity Touch "Touch Sensitivity" Normal Touch Display Color inversion (Experimental) May affect performance Color correction Off

Touch Sensitivity Wet Touch Wet or rain condition mode (Finger touch only) Normal Touch Finger touch and Stylus pen mode Glove Touch Glove mode

Learning the basics

Default setting is Normal Touch. Please change sensitivity option for your usage or environment

Use a Google Assistant Learning the basics **೫ ℕ 🕕 ▼⊿** 100% 9:01 PM \equiv \$ Apps Touch 🌣 icon for app configuration change All apps Calculator Calendar Camera Chrome Clock Contacts . Downloads ♦ 80.00 KB **℁ 🕲 🕕 マ⊿** 100% 9:01 PM ← Configure apps App permissions Default Opening links Assist & voice input Touch Assist & voice input Home app Launcher3 Browser app No default Browser Phone app Phone SMS app Messages Advanced

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Learning the basics

Use a Google Assistant

Learning the basics



Learning the basics **೫ ℕ 🕕 ▼⊿** 100% 9:01 PM \equiv \$ Apps Touch 🌣 icon for app configuration change All apps Calculator Calendar Camera Chrome Clock Contacts . Downloads ♦ 80.00 KB **℁ 🕲 🕕 マ⊿** 100% 9:01 PM ← Configure apps App permissions Default Opening links Assist & voice input Touch Assist & voice input Home app Launcher3 Browser app No default Browser Phone app Phone SMS app Messages Advanced

Use a Google Assistant



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OS Update

OS Image update from a Storage

ا00% 1:47 PM المعالية 100% 1:47 PM المعالية 100% 1:47 PM المعالية 100% 1:47 PM	To update OS image, copy or place OS image file into the root folder of "Internal Storage" or "External
Languages & input English (United States)	Storage"
Backup & reset	
ystem	
Date & time GMT+09:00 Korean Standard Time	
Accessibility	
Printing 0 print jobs	
{ } Developer options	
About phone Android 7.1.2	Touch "App Drawer" → 🔯 "Settings" and then "Ab phone"
🚷 🛡 🖌 📋 100% 1:47 PM	
■ About phone System updates	Touch "System Updates"
itatus	
hone number, signal, etc.	
egal information	
Sertificates	
Aodel M45	
Android version 1.1.2	
Android security patch level Aay 5, 2018	
Baseband version IDM450.LA.2.0-00320-STD.PROD-1.110918.1.111851.1	
Kernel version 18.31	

OS Image update from a Storage OS Update 🚷 💎 🔟 📋 100% 1:47 PM Your PM45 will check storage and display available OS £ System Updates image **INSTALLED VERSION** Current version:45.01 B1 (Jul 06 2018) **AVAILABLE VERSIONS** 45.00C1_20180724.PFU UPDATE Touch "Update" button 🕲 💎 🔟 📋 100% 1:47 PM **INSTALLED VERSION** Current version:45.01 B1 (Jul 06 2018) **AVAILABLE VERSIONS** Note The device should be restarted for the installation. Not allowed to call while updating. If you don't save your data, it may be loss. Required to back up all your data before By touching the "CONTINUE" button, your PM45 start to the update. Would you like to update now? update the OS image. During this time, you cannot use your PM45. Please save the data before start, the OS update CANCEL CONTINUE process. Note: Remaining battery level must be higher than 20%. Otherwise PM45 will not start OS update process. Please check battery level first



OS Image update from the FOTA

FOTA Client

Central US 45.00 (May 31 2018)

East Asia 45.00 (May 31 2018) West Europe

45.00 (May 31 2018)

OS Update 🕲 💎 🔟 📋 100% 10:14 PM PM45 will compare the OS image between FOTA server £, \$ (i) and current OS image. If there is newer OS image in the FOTA server, FOTA server will suggest downloading. **INSTALLED VERSION** 45.00 R4 (May 30 2018) Please select nearby server from your region. Touch the nearby server from your region



Touch "OK" to start download the image in the FOTA server

OS Image update from the FOTA

OS Update



Factory data reset from Settings

Factory data reset



Factory data reset

Factory data reset from Settings



Force Factory data reset

Press Power + Volume up + Home Button all together



Force Factory data reset your PM45

You can perform "force" factory data reset your PM45. When your PM45 turned off, press "Power" + "Volume Up" + "Home" button all together. After you see "Smart Beyond Rugged" logo display, you may release the keys.

Factory data reset

PM45 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

Force Factory data reset Factory data reset Android Reco Wipe data/factory reset Select "Wipe data/factory reset" Android Recovery Select "Yes" to perform the "Factory data reset" Yes – wipe all user data After that, your PM45 start wiping the data

Force Factory data reset

Factory data reset



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

Force Factory data reset

▼ ■ ^{99%} Verify your account

Google

This device was reset. To continue, sign in with a Google Account that was previously synced on this device.

Email or phone

<

NEXT >

Factory data reset

After Force factory reset, if PM Android Device locked by Factory Reset Protection, then please enter to Fast Boot mode and execute command

- fastboot erase config
- fastboot reboot

Note: Factory Reset Protection (FRP) is a security method that was designed to make sure someone can't just wipe and factory reset your device if you've lost it or it was stolen

Enterprise Mobility Kit

EmKit

Enterprise Mobility Kit – Truly, what Enterprise needs

Point Mobile announces new software solution – called "EmKit" is new software solution for enterprise mobility users. Our every Android device shall have EmKit pre-installed and every use can access them for free of charge*. EmKit offers truly-value-added advantages, for enterprise users, which are against consumer-centric & non-customizable smartphones. Every solution in EmKit is 100% compatible with Point Mobile Android GMS certified devices.

* Necessary MDM license subjects upon individual subscribers



EmKit consist with **"EmKit Secure"**, **"EmKit Remote"**, **"Emkit Tools"** and **"EmKit Demos"**

- EmKit Secure "Lock Your Device"
- EmKit Remote "Mobile Device Management"
- EmKit Tools "Smarty Tools Ease Enterprise"
- EmKit Demos "Friendly For Programmers"

EmKit Secure	EmKit
Image: Second system Image: Second system <th>Power Launcher You can lock your Point Mobile Android model's Home</th>	Power Launcher You can lock your Point Mobile Android model's Home
Launcher Lock OFF	Screen and limit to access app drawer or specific function. This function as known as Kiosk mode .
Hide Quick Settings	 Hide Quick Settings : Limit to access quick setting panel
Restrict MTP connection	 Restrict MTP connection : Limit to access Point Mobile Device's MTP connection Screenshot Disable : Disable screenshot capture in
	OS level
	Restriction feature will be keep added.
\$ ● ● ▼▲ ■ 100% 9:42 PM ● Power Launcher (i)	
LOCK SETTINGS	After restriction feature check, switch Launcher Lock to Or
Launcher Lock	
Lock Password Set your password for Launcher Lock	
Hide Quick Settings	
Restrict MTP connection	
Disable Screenshot	



EmKit Secure

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Program Buttons 🤅 👔			
PROPERTIES	DEFINITION		
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BACK	BackKey		
APP_SWITCH	AppSwitchKey		
VOLUME_UP	VolumeUp		
VOLUME_DOWN	VolumeDown		
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Default	Apply		

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EmKit

Program Buttons

You can assign Hardware buttons function to rich preassigned functions.

Also you can applying the customized KCM file (Key Character Map Files) here.

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Direct Clone	Scan2Set	ScanSetting	System Information
Take Bug Report			
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GPS Demo	ImageDemo	MSR Demo	NFC Demo
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EmKit

To install the AirWatch agent to Point Mobile Android device, please touch AirWatch icon

App provides AirWatch agent install via Google Play or Web URL.

- Google Play method requires Google account login. AirWatch agent download and install managed by Google Play
- Web URL method requires user's manual installation

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access to d	ownload files.
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EmKit

To install AirWatch agent from Web URL method, select Web URL and then \mathbf{OK}

Web browser will download the apk file to the Point Mobile Android device. Before downloading, browser need permission to download apk file to the storage. Please touch **Update Permissions** button

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https://awagent.com/mobileenrol	0	1	:

EmKit

After permission update, web browser download the latest version of AirWatch agent apk file. Install this apk file to Point Mobile Android device.



Note: If you need to install specific agent version, please contact to AirWatch

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EmKit

SOTI Mobi Control installer is pre-installed to Point Mobile Android device. To start enrollment process, please touch MobiControl icon

Mobi Control app request permission grant during enrollment process. Please allow it.



EmKit

After login, Mobi Control app communicate with SOTI server and then install the Mobi Control agent

Note: Agent version determine from SOTI console's setting. If agent version is incorrect after enrollment, please contact to SOTI

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GPS Demo	ImageDemo	MSR Demo	NFC Demo



EmKit

To install the TeamViewer QS app to Point Mobile Android device, please touch TeamViewer icon

App provides TeamViewer QS app install via Google Play or Web URL.

- Google Play method requires Google account login. TeamViewer QS app download and install managed by Google Play
- Web URL method requires user's manual installation

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Chrome nee access to d	eds storage ownload files.
U	PDATE PERMISSIONS

EmKit

To install TeamViewer QS app from Web URL method, select Web URL and then ${\bf OK}$

Web browser will download the apk file to the Point Mobile Android device. Before downloading, browser need permission to download apk file to the storage. Please touch **Update Permissions** button

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tps://download.teamviewer.com/c	1	:

EmKit

After permission update, web browser download the latest version of TeamViewer QS apk file. Install this apk file to Point Mobile Android device.



Note: If you need to install specific TeamViewer QS version, please contact to TeamViewer

EmKit Too	210	EmKit
Direct Clone	♥ ▼⊿ 🖹 100% 1:11 PM	Direct Clone
BACKUP Backup Would you like to stat File name: [Backup]_PM45G6003C8 6_131050.zip Storage Location Selection Internal storage Save to: /storage/emulated/0/Dir	8E0C_M45_2018-07-2 n:	Create the Master PDA - backup your system settings and apps into a secured file. Without any network connection, Master PDA become a local server in your work place. Nearby Point Mobile device will automatically communicate with Master PDA and download the backup file and then Restore .
Set Password	CANCEL OK	Create the backup file
BACKUF	° (4)	
Direct Clone	• 🕶 🚺 100% 1:11 PM	
	SYNC	
ELECT THE ITEMS TO REST		
will restart. Would yo Restoration File Location: /storage/emulated/0/Dir [Backup]_PM45G6003C8 6_131135.ab	rectClone/	Backed up file will restore your Point Mobile Android devic
	ONE SERVICE	

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-		
Place a QR Code in	side the viewfinder	rectangle to
scan it.	Ref.	

EmKit

Scan2Set

Scan2Set is designed for the network environment. Point Mobile Android device downloads the Direct Clone file from the FTP, Web server and Google Drive with just one QRcode Scan!

Scan your QR code and,

- Connect to your network
- Restore your PDA
- Work Managed Device setup

Step 1. Create Direct Clone Backup file



- Make a Direct Clone file from Master PDA device

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Step 2. Upload Direct Clone file to your FTP site or Web server

- Copy the Direct Clone file from the Point Mobile Android device



- Upload this file to your FTP site or Web Server. You may change file name



EmKit



- After file uploading, please check the url first. File should be download with url address.

DC-Test.zip 여는	õ	×
열기 선택:		
DC-Test.z		
	압축(ZIP) 파일 (5.0 KB) http://www.pointmobile.co.kr	
	nttp://www.pointmobile.co.kr 일을 열거나 컴퓨터에 저장할 수 있습니다:	
○ 열기(0):	Bandizip (기본) · · · · · · · · · · · · · · · · · · ·	
● 파일 저장		
다시 문자	l 않음(<u>A</u>)	
	확인 취소	

EmKit

Step 3. Generate QRcode

- Access to Web QRcode generating site www.pointmobile.co.kr/qr

() Ø http://pointmobile.co.kr/qr/	
⊘ QR Code Generator for Sca ×	
QR Code Generator for Scan2Set (v1.3.2)	
Web/Google Drive	Network Setup
FTP	SSID: Type SSID Name
Work Managed Device Enrollment	Hidden
json format	Password: Type SSID password
	Security Type: None WEP WPA, WPA2, WPA2PSK
1.8 × + +	Direct Clone File Location
ScauZSet 2 ⁴ (3) scan	URL: * Type web url address
	File Name : * Type the file name
	Password: Type the password of the file
	Generate QRcode Clear

- Click Web/Google Drive menu
- Input Network information, Direct Clone file name and password

A (a) & http://pointmobile.co.kr/qr/		
@ QR Code Generator for Sca × 📑		
QR Code Generator for Scan2Set (v1.3.2)		
Web/Google Drive	Network Setup	
FTP	SSID :	pointmobile_public
Work Managed Device Enrollment		Hidden
json format	Password :	1277560600
	Security Type	: None • WEP WPA, WPA2, WPA2PSK
	Direct Clone Fi	le Location
Welcome © Power off	URL:	Type web url address
다 Reboot ① Direct Gane	File Name :	Type the file name
ScardSet	Password :	Type the password of the file
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Attp://pointmobile.co.kr/qr/	
🥖 QR Code Generator for Sca 🗙 📑	
QR Code Generator for Scan2Set (v1.3.2)	
Web/Google Drive	Network Setup
FTP	SSID: pointmobile_public
Work Managed Device Enrollment	Hidden
json format	Password : 1277560600
	Security Type: O None O WEP WPA, WPA2, WPA2PSK
	Direct Clone File Location
Welcome	URL: * http://www.pointmobile.co.kr/scan2set/DC-Test.zip
	File Name : * DC-Test.zip
<u> </u>	Password: 1234
	Generate QRcode Clear

Note: Make sure put http:// or https:// in front of url address

- VPA2.WPA2PSK
 VFAcCTEst.zip
 VFA2.WPA2PSK
 VFACUUE
 VFACUU
- Click Generate QRcode button and save or print generated QRcode

EmKit

Step 4. Read QRcode in other PDAs

- Turn on your Point Mobile Android device.
- Press the Power Button, then you will see the Scan2Set in the menu



- Read the generated QRcode. Point Mobile Android device will download the file from the FTP site or Web server and restore Direct Clone file



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🔝 System information

Save to file Save the current system information into the file.

Manufacturer

Phone number +821095895520

Processor information SDM450

Version information Hardware revision, Android version, and Build number etc.

Manufacturer information Manufacture Date and Part Number etc.

Device Information Audio, camera, display, keyboard, and radio etc.

Battery information Battery charging status, and serial number etc.

Application Version info

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EmKit

System information

All of SW and HW information available here and can save it to the file.

- Touch Save to file.
- **devinfo.html** file saved to root folder of the internal storage.

Take Bug Report

This function save logs and event to the internal storage. When you have a field issue, and need to contact service center, please find the reproduce step first.

- Reproduce the issue.
- After issue, reproduce, please run Take bug report.
- File will be saved to **BugReport** folder.
- Copy the file to the PC and then zip it to reduce the file size.
- Share bug report file to the service center or Point Mobile Support team with reproduce steps.

EmKit Demos

\$GPGSV,3,1,11,10,07,305,25,05,21,116,,12,00,000,,

\$GPGSV,3,2,11,15,67,009,20,33,310,21,46,277,24,

\$GPGSV,3,3,11,27,00,000,,28,05,045,,29,00,000,*49

\$GPGSV,3,1,11,10,07,305,25,05,21,116,,12,00,000,,

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\$GPGSV,3,3,11,27,00,000,,28,05,045,,29,00,000,*49

🌐 GPS Demo

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62,182,*7E

Main

Signal

📕 NFC Demo

Place tag to reader.

READ TAG

Position

WRITE TAG

Tag information will be displayed here.

NMEA

Settings

(i)

WRITE P2

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READ P2P

62,182,*7E

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EmKit

GPS Demo

Developer can demonstrate or check Point Mobile Android model's GPS signal strength, Satellite info, NMEA info.

Some of demo app only available for specific Hardware feature integrated SKU (Stock Keeping Unit)

NFC Demo

Developer can demonstrate or check Point Mobile Android model's NFC Read/Write solution.

Some of demo app only available for specific Hardware feature integrated SKU (Stock Keeping Unit)

EmKit Demos

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Connect	Exit	

EmKit

Ping Demo

Developer can demonstrate or check Point Mobile Android model's ping test.

Print Demo

Developer can demonstrate or check Point Mobile Android model's Bluetooth mobile printing solution.



POINT MOBILE. CO., LTD.

Offline

Tel: +82-2-3397-7870~1 ARS: 1800-3010 Fax: +82-2-3397-7872 Address: B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu, Seoul, Korea 08512

Online

Website: http://www.pointmobile.co.kr/ E-mail: pm_support@pointmobile.co.kr