CipherLab
User Guide

# RK95 Mobile Computer Cold Chain User Interface Introduction

Version 1.04

CIPHERLAB

CIPHERLAB CO., LTD.

Website: http://www.CipherLab.com

# RELEASE NOTES

| Version | Date | Notes |
|---|---|---|
| 1.04 | Jan.22nd, 2021 | Update Section 1.4 "Heater Settings: Switch Mode".<br>Add new chapter "Switch Mode".<br>Add new section "Low Battery" to Chapter 3.<br>Update all figures. |
| 1.03 | Sep. 15th, 2020 | Section1.4.1 "Automatic": Update the description about "Defrost Sensitivity"<br>Section1.4.1 "Automatic": Change the default scan window defrost duration to 3 minutes. |
| 1.02 | August 31st, 2020 | Add the note about battery replace to Section 1.1: Overview<br>Update Chapter 2: Notifications |
| 1.01 | August 13th, 2020 | Update figures. |
| 1.00 | June 22nd, 2020 | Initial release |

# CONTENTS

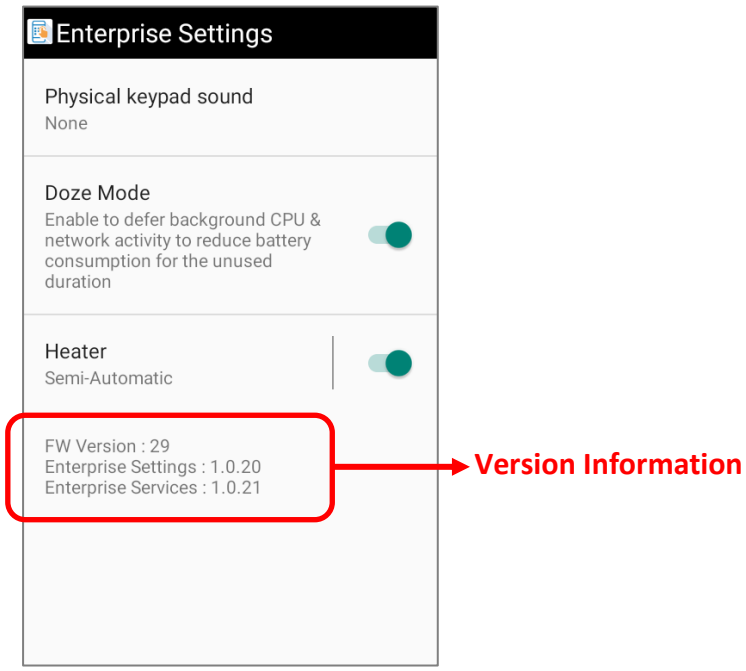
# DEFAULT APPLICATION: ENTERPRISE SETTINGS

## IN THIS CHAPTER

## 1.1 OVERVIEW

The default application "**Enterprise Settings**" helps you to control the physical keypad and the heaters.

To launch "**Enterprise Settings**", please go to **App Drawer (All Apps)** and tap on "**Enterprise Settings**".



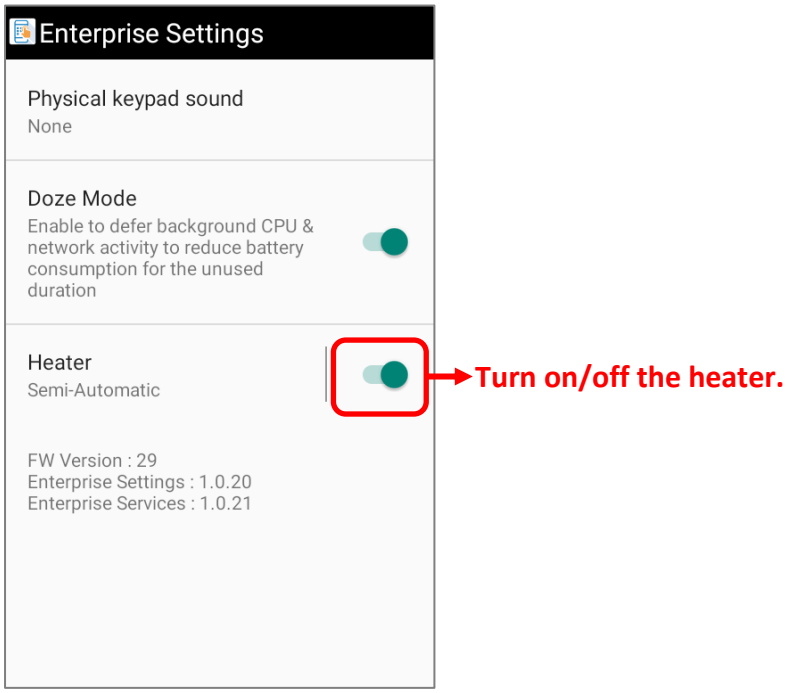

The available functions listed on "**Enterprise Settings**" main page are:

| Item | Description |
|---|---|
| **Physical keypad sound** | Setting the physical keypad sound. The default setting is "**None**". |
| **Doze Mode** | "Doze Mode" is enabled by default. Please refer to https://developer.android.com/training/monitoring-device-state/doze-standby for details. |
| **Heater** | Monitoring the temperature of the device and the heater. |
| **Version Information** | The version information for trouble shooting. |

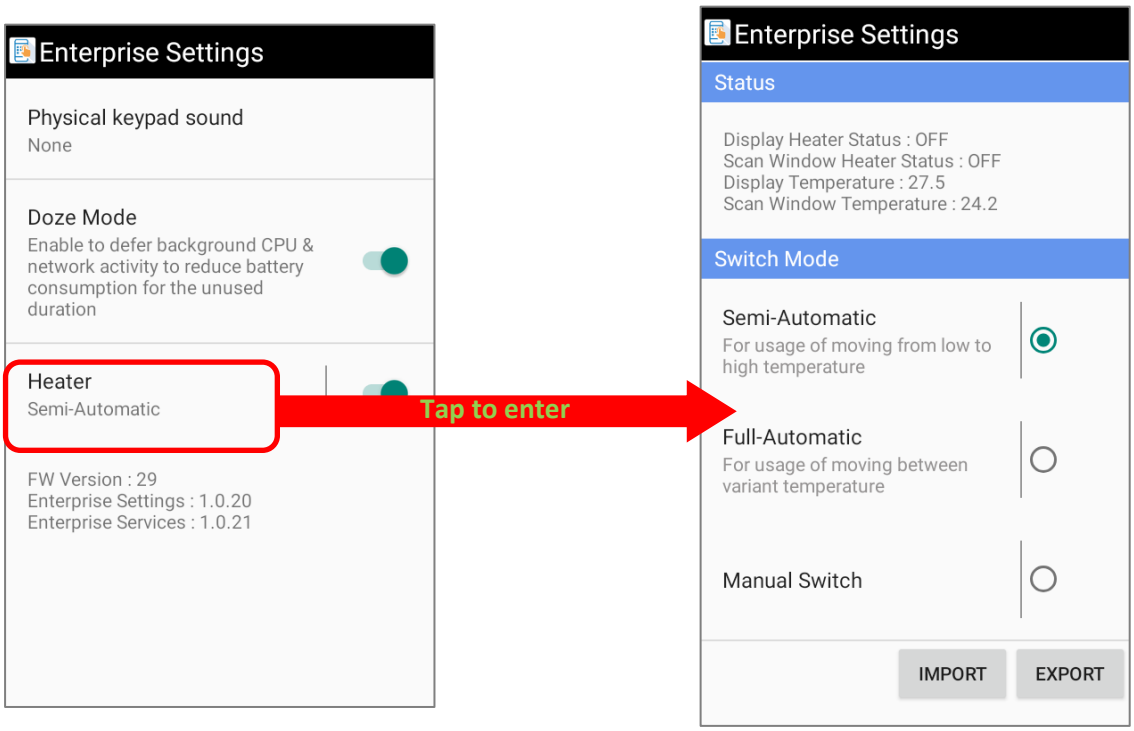
**Note: Always use a fully-charged main battery for battery replacement.**

## 1.2 HEATER SETTINGS

"**Heater**" is for monitoring the temperature of the device and the heaters. Please tap on the switch to turn on or off the heaters depends on the real operating environments.

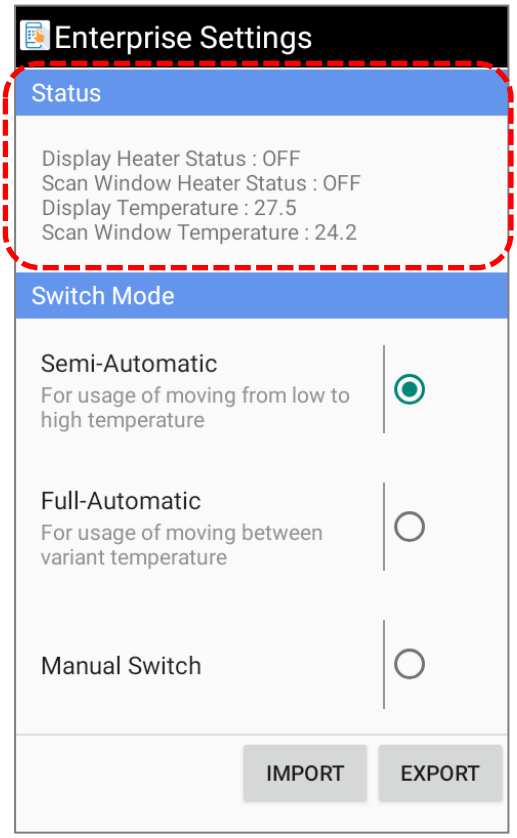



Tap to enter the detail page of "**Heater**" for advanced settings:



## 1.3 HEATER SETTINGS: STATUS

"**Status**" shows the status of the display heater and the scan window heater for the users to monitor and check.



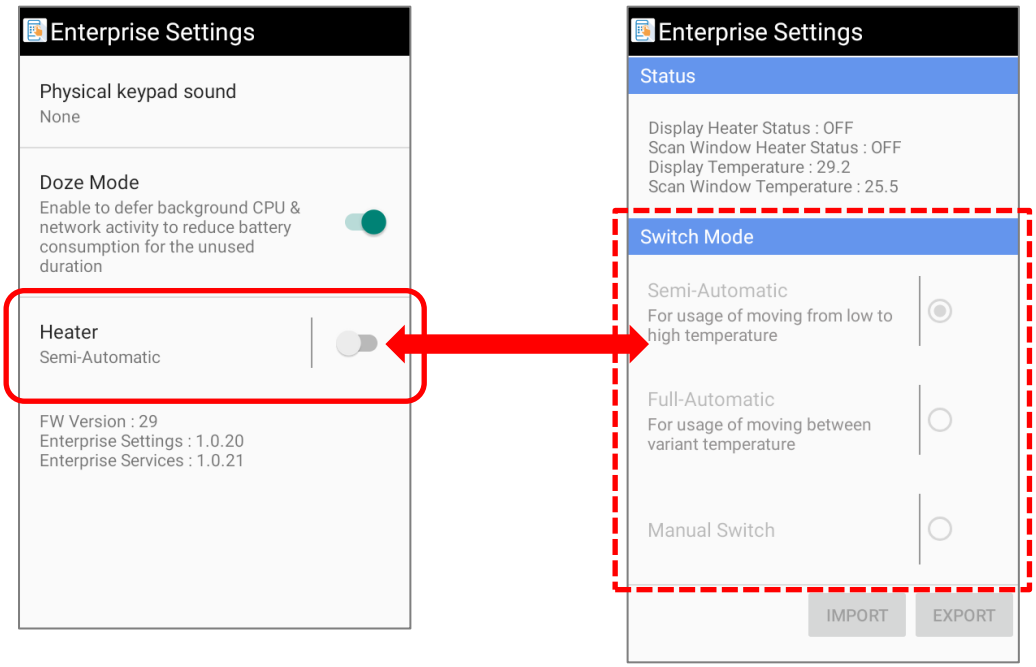

The status information are:

| Item | Description |
|---|---|
| **Display Heater Status** | Showing whether the display heater is **ON** or **OFF**. |
| **Scan Window Heater Status** | Showing whether the scan window heater is **ON** or **OFF**. |
| **Display Temperature** | Showing the current temperature of the display heater.<br>The value is refreshed every 2 seconds. |
| **Scan Window Temperature** | Showing the current temperature of the scan window heater.<br>The value is refreshed every 2 seconds. |

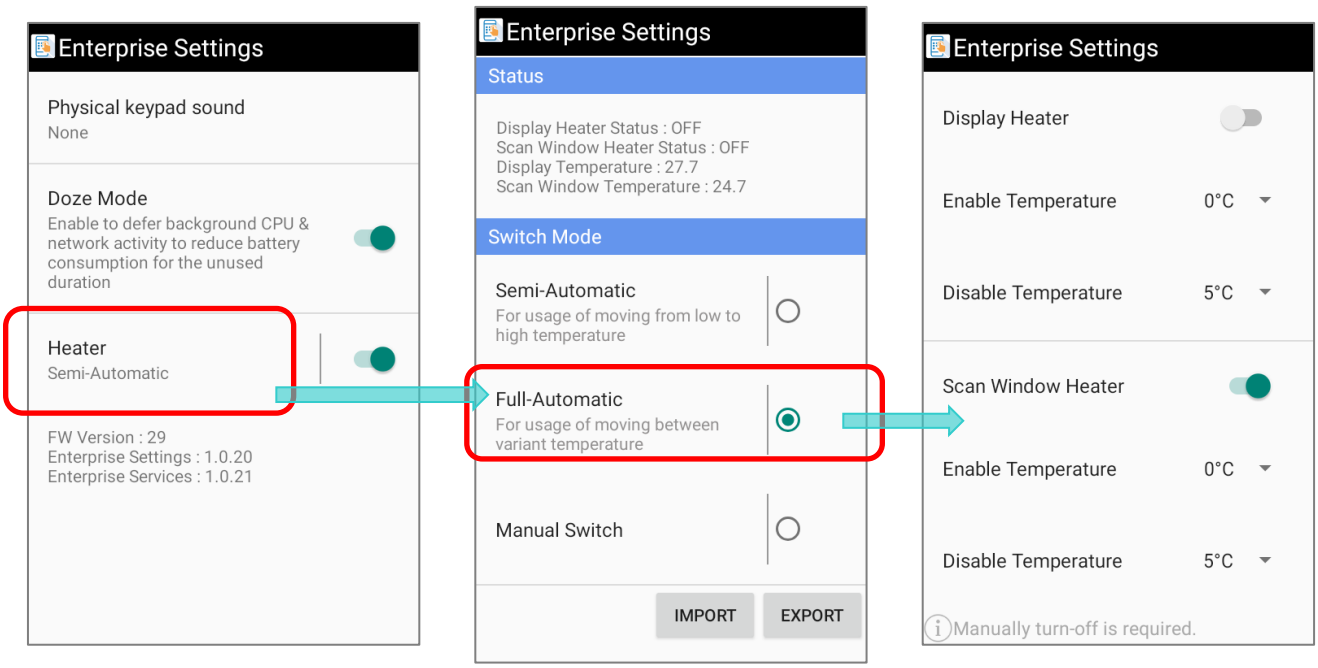
## 1.4 HEATER SETTINGS: SWITCH MODE

"**Switch Mode**" allows users to set the switch mode that controls the heaters according to the users' real operating enviroments. To configure the switch modes, "**Heater**" must be enabled. Once "**Heater**" is enabled, users can select the mode from "**Semi-Automatic**", "**Full-Automatic**", and "**Manual Switch**".

- **"Switch Mode" is unavailable if "Heater" is disabled.**




- **Enable "Heater" to select the switch mode and set the further configuration.**

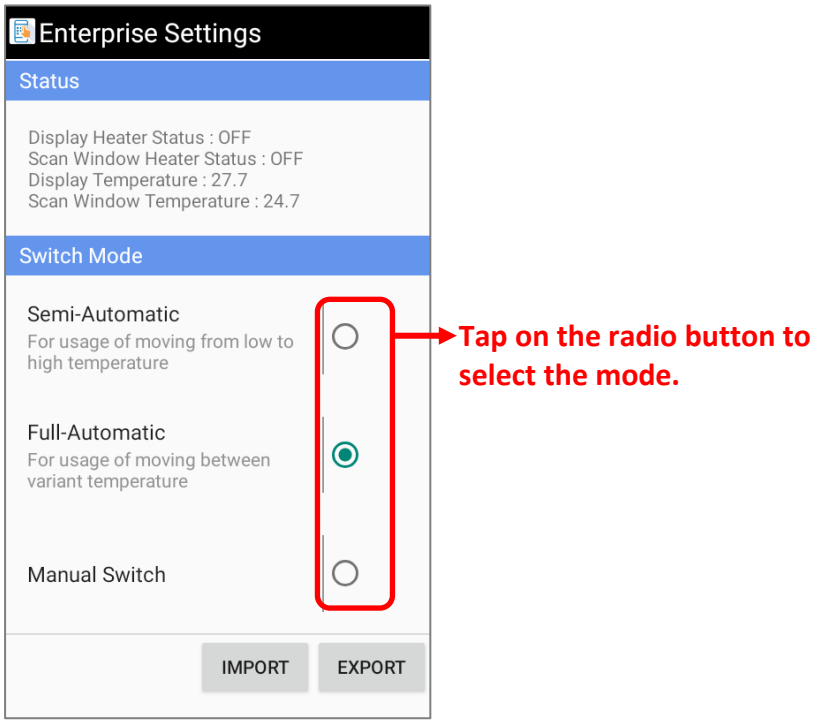


## SELECT THE MODE TO BE APPLIED

Please select the switch mode which is applicable to the working environment, and enter the selected switch mode for further settings.

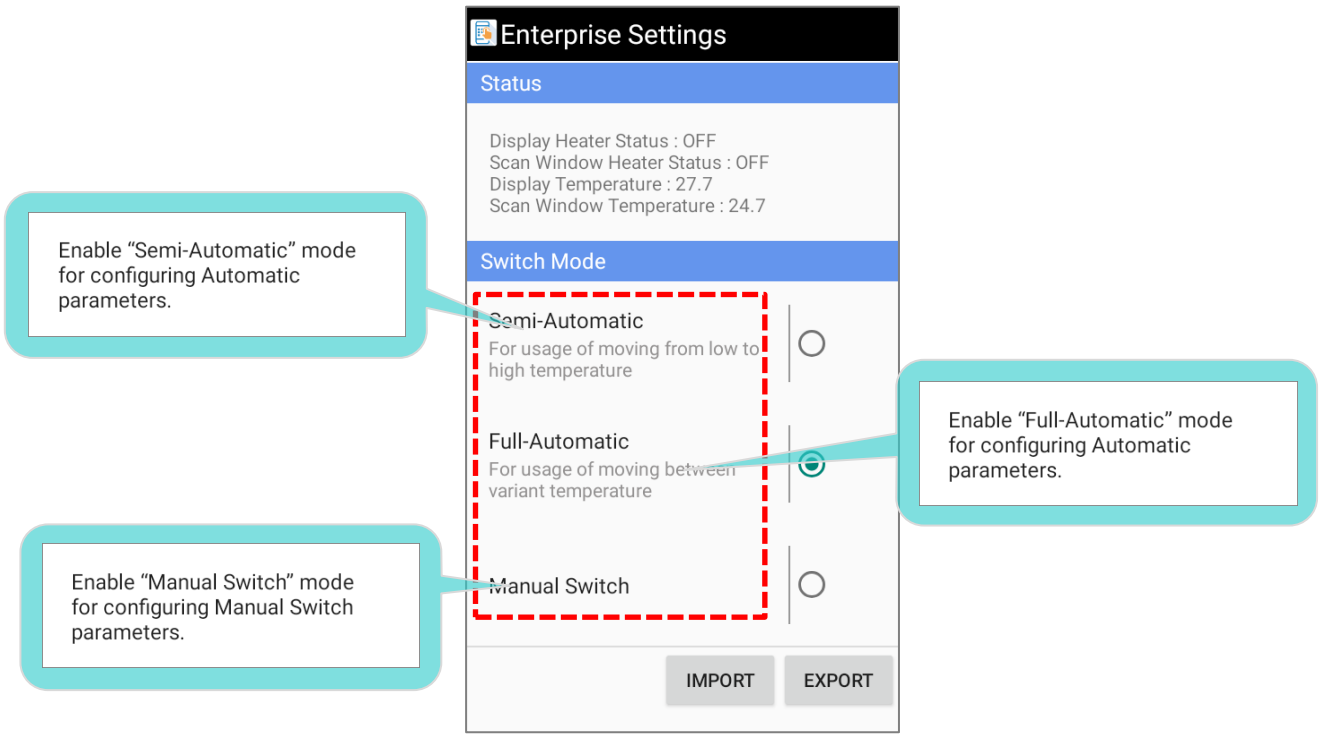
| Switch Mode | Description |
|---|---|
| **Semi-Automatic** | Heater(s) automatically turns on and off to defrost in response to the temperature change. |
| **Full-Automatic** | Heater(s) automatically turns on and off at the designated degree. |
| **Manual Switch** | Manually turn on or off the heaters. |

To select the mode, please tap on the radio button of the mode to be applied.




For the detailed functions of "**Semi-Automatic**", "**Full-Automatic**", and "**Manual Switch**", please refer to "**Switch Mode**".

Tap on the mode which is unselected, its brief description shows up.



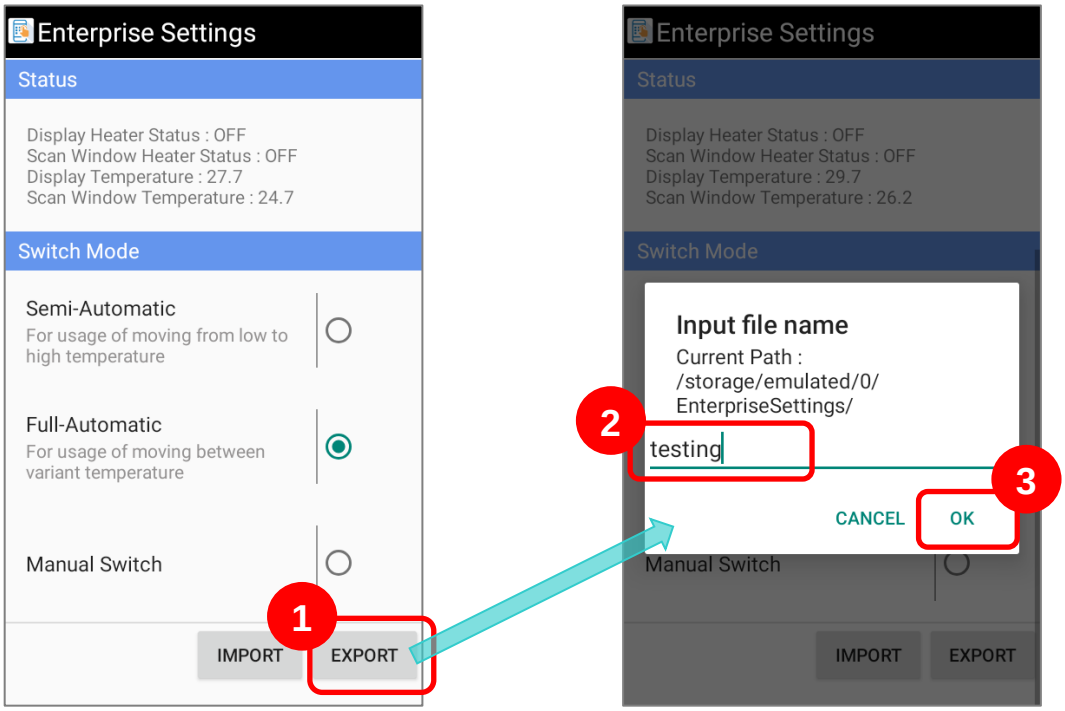
## 1.5 HEATER SETTINGS: IMPORT & EXPORT

### 1.5.1. EXPORT

Tap on "**Export**" to save your deployment as a .json file for applying the same settings to other devices or for troubleshooting purpose.

1) Tap on "**Export**".

2) Enter the file name and then tap on "**OK**".

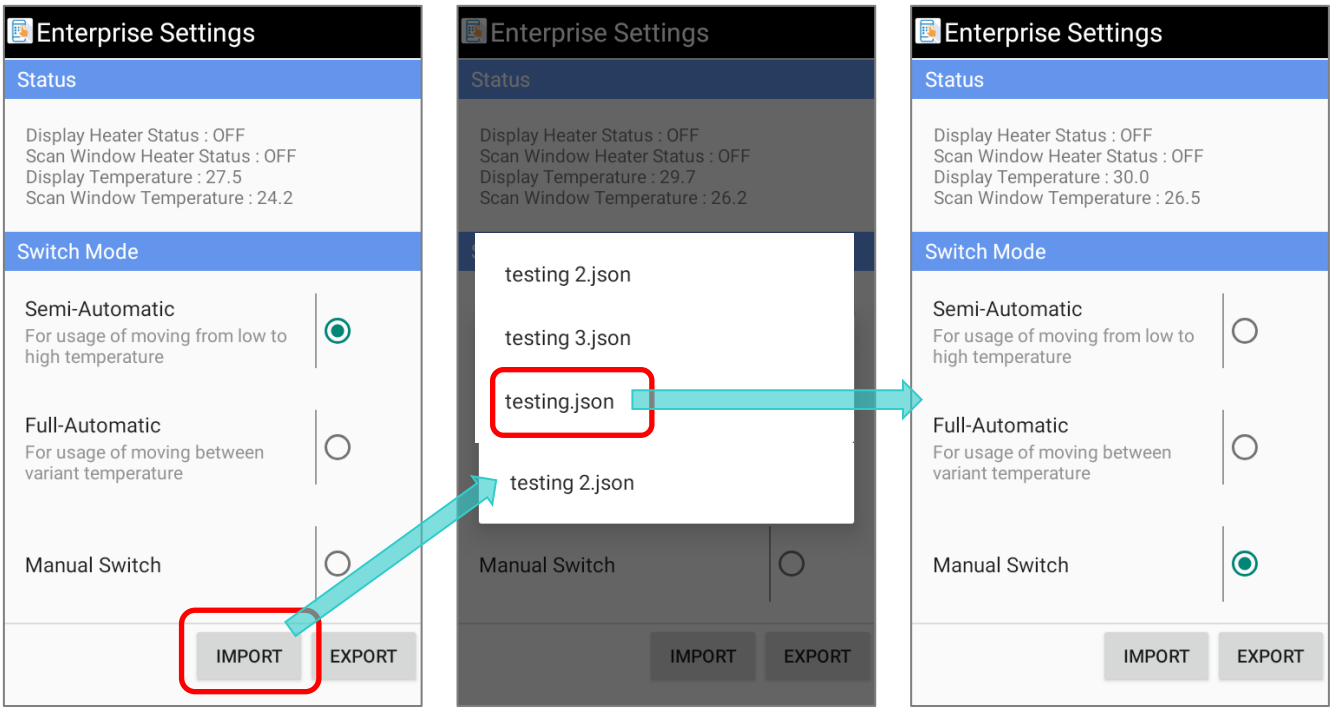



3) The exportation is complete.

### 1.5.2. IMPORT

"**Import**" is for applying the deployment to your "**Enterprise Settings**":

1) Tap on "**Import**".
2) Select the .json file you would like to import, and the deployment is applied immediately.



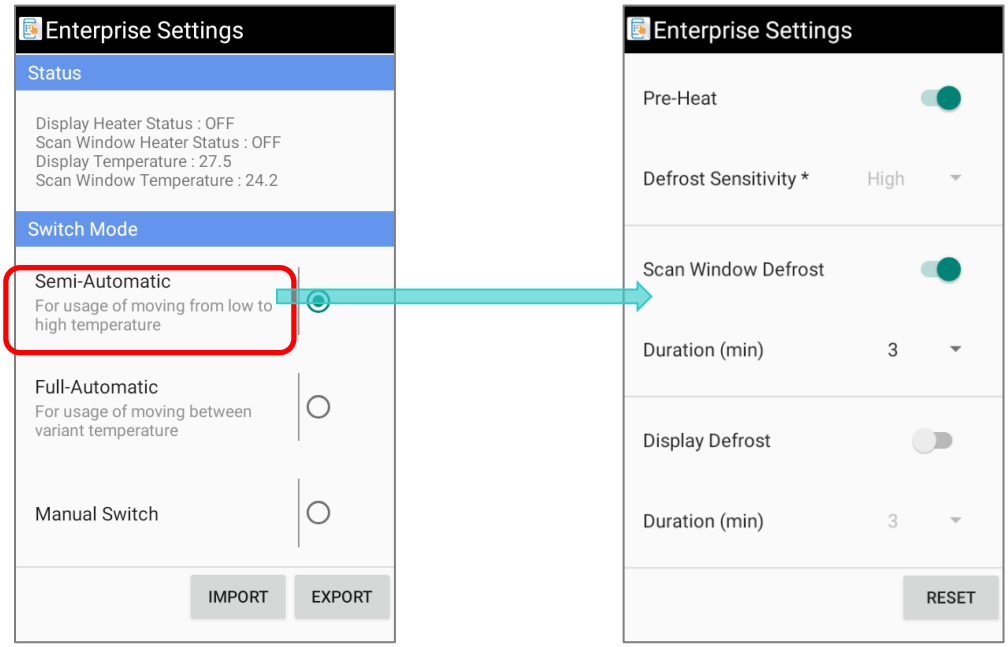
# SWITCH MODE

## IN THIS CHAPTER

## 2.1 SEMI-AUTOMATIC

By enabling "**Semi-Automatic**", the heaters will be automatically turned on and off in the designated period to prevent frosting.

To configure the parameters of "**Semi-Automatic**", please turn "**Semi-Automatic**" on and then tap to enter its detail page.

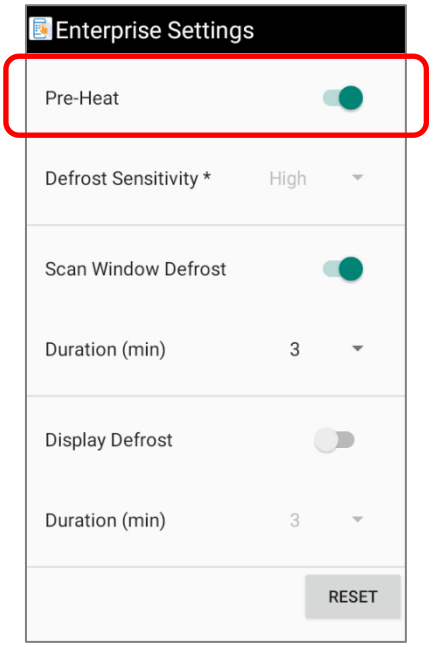



The configurable parameters are:

### 2.1.1. PRE-HEAT

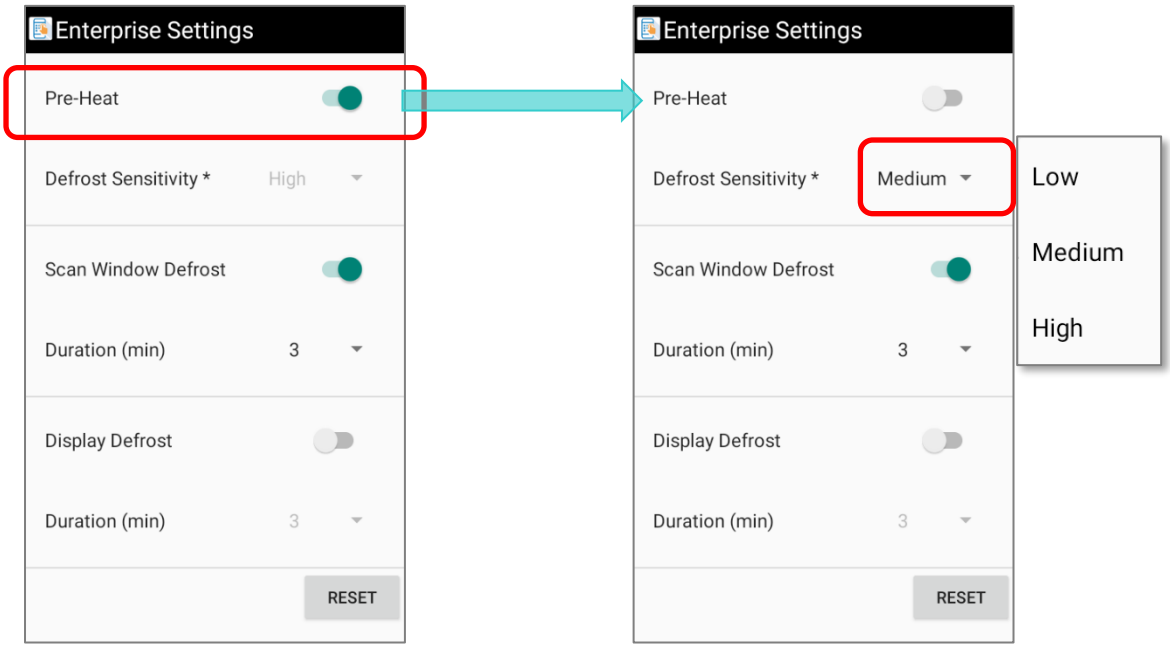
Enable "**Pre-heat**" mode to shorten the defrost time.

Please note that enabling "**Pre-heat**" mode may slightly reduce the battery life for the display heater stays in the pre-heat stage to keep at a constant temperature till a rise in ambient temperature is detected by the device.

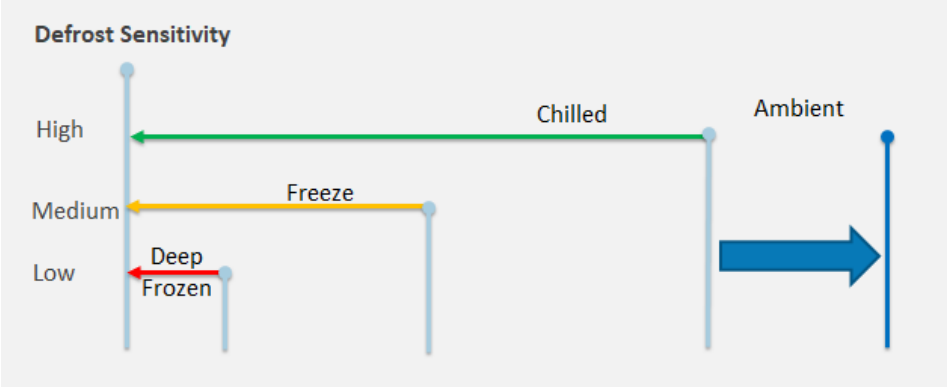


## 2.1.2. DEFROST SENSITIVITY

"**Defrost Sensitivity**" is inflexible to be "**High**" if "**Pre-heat**" mode is on while it is configurable when "**Pre-heat**" mode is off.




Turn off "**Pre-heat**" mode and then tap to set the sensitivity by selecting from **Low**, **Medium**, and **High** for triggering the heater. "**High**" is suggested for little temperature delta value. User may select the "**Defrost Sensitivity**" according to the temperature difference in the workplaces:

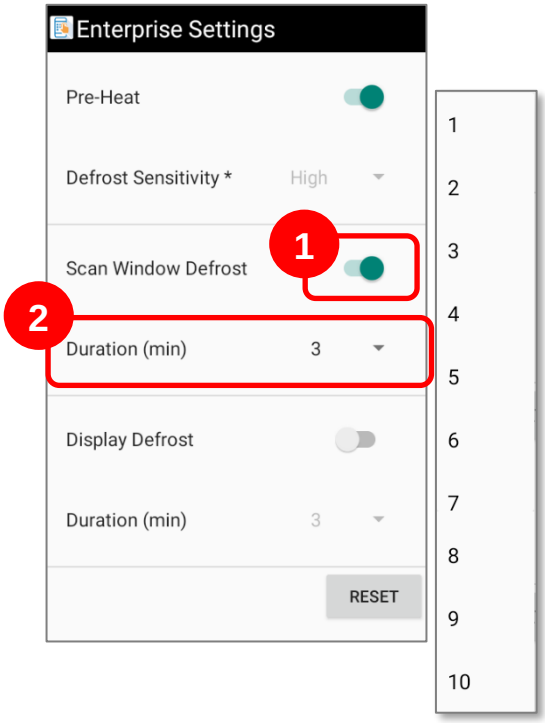



- **Low:** Sharp temperature difference between workplaces, e.g. employees move from the deep frozen storage to ambiet temperature, and thus it requires low sensitivity.
- **Medium:** "Medium" caters for a remarkable temperature difference between workplaces, e.g. employees move from freeze storage to ambiet temperature.
- **High:** Slight temperature difference in workplaces, e.g. employees move from the deep freeze storage to the chilled buffer zone, and then move to the ambiet temperature area.

## 2.1.3. SCAN WINDOW DEFROST

By enabling "**Scan Window Defrost**", the heater will be automatically turned on and turned off to defrost the scan window.

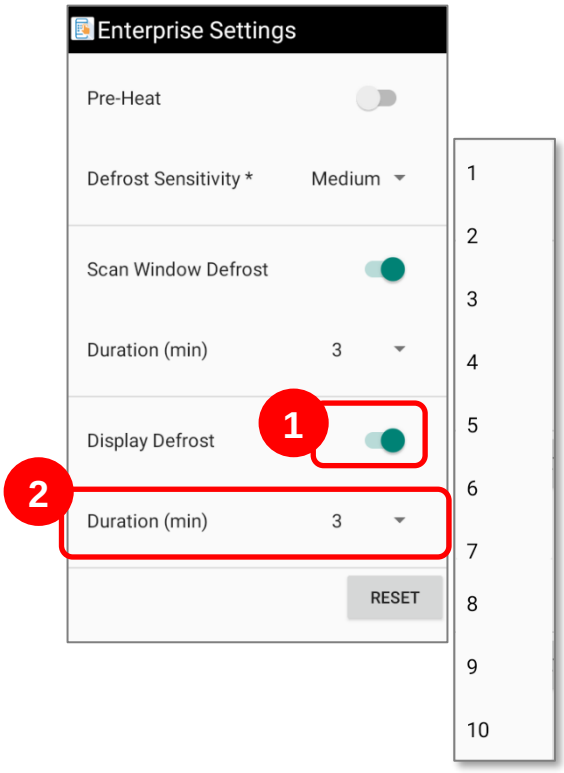
Once "**Scan Window Defrost**" is turned on, you can further set "**Duration**" which is the time period that the scan window keeps defrosting. The time unit is minute, and the default duration is 3 minutes.




## 2.1.4. DISPLAY DEFROST

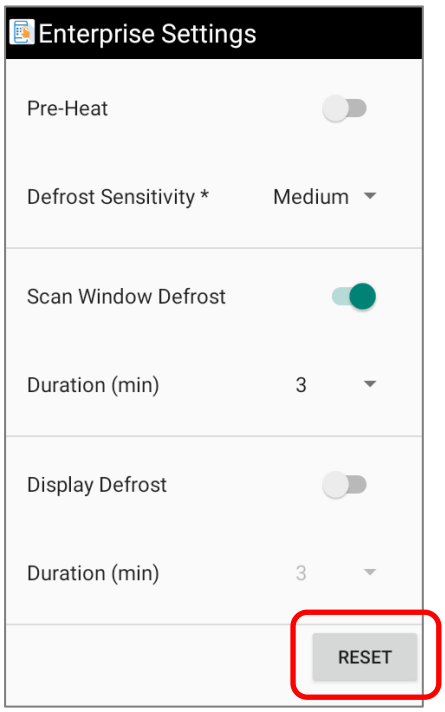
Turn on "**Display Defrost**" to enable the heater to be automatically on and off to defrost the device display.

By turning on "**Display Defrost**", "**Duration**" can be set to specify the time period that the device display keeps defrosting. The time unit is minute, and the default duration is 3 minutes.



### 2.1.5. RESET

To restore all the settings to the default, simply tap on "**RESET**" to proceed.

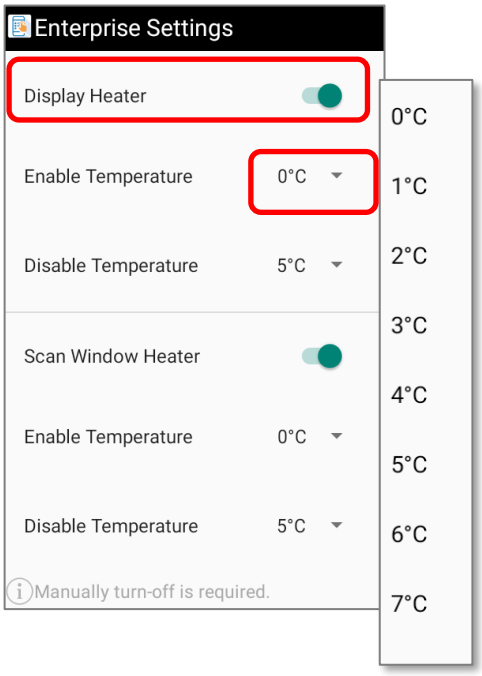


## 2.2 FULL-AUTOMATIC

"**Full-Automatic**" mode is for keeping the heater(s) on to make the device stay in your designated temperature range. When the device temperature is at the designated "**Enable Temperature**", the heater(s) automatically turns on, and once the device temperature reaches the upper temperature limit you set, the heater(s) is off.

### 2.2.1. DISPLAY HEATER

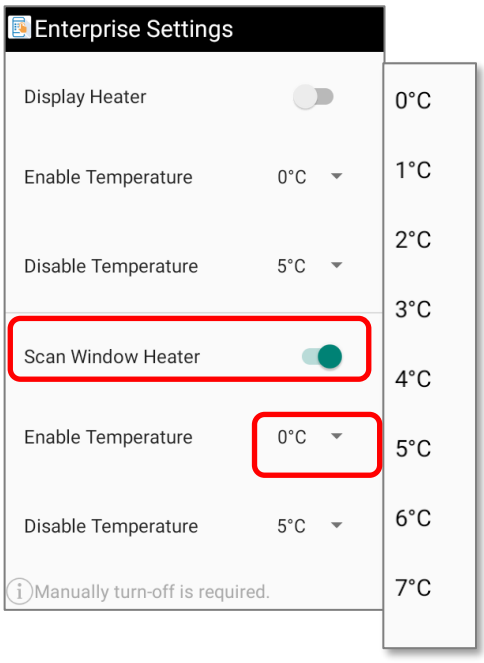
"**Display Heater**" is off by default. Tap to turn it on and set the "**Enable Temperature**" and "**Disable Temperature**". The available temperature is from 0℃ to 30℃, and the default setting to enable display heater is 0℃ and it stops heating at 5℃.




### 2.2.2. SCAN WINDOW HEATER

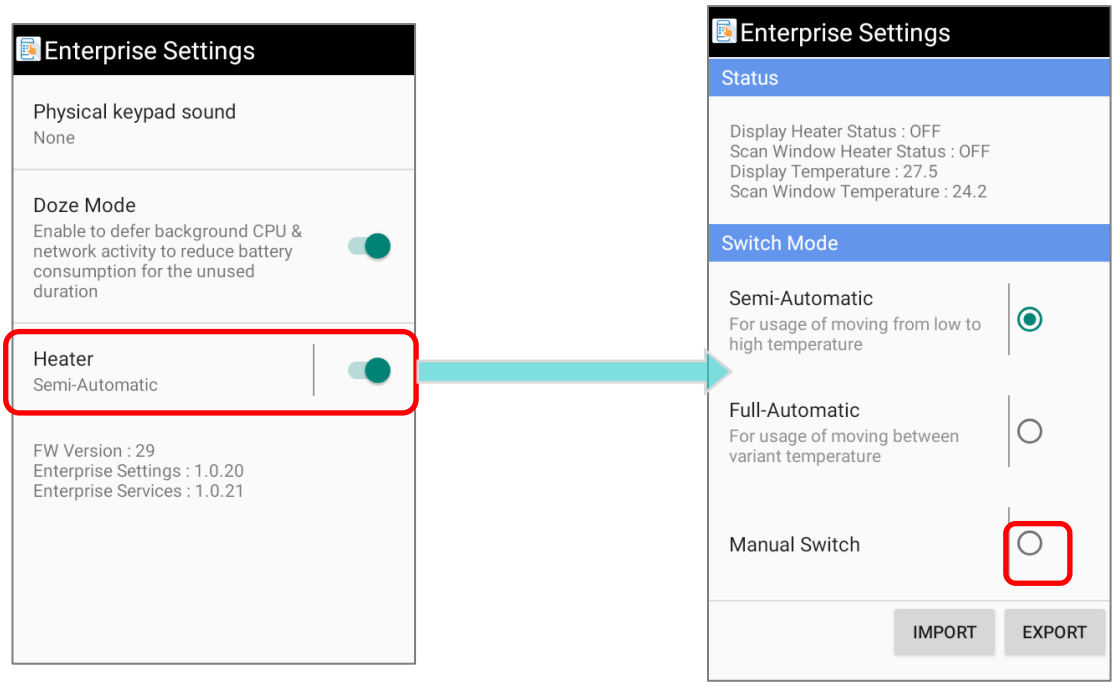
The default setting of "**Scan Window Heater**" is on, and its "**Enable Temperature**" is 0℃ while "**Disable Temperature**" is 5℃.

Tap on the switch to turn it on or off, and tap to expand the drop down menu to set "**Enable Temperature**" and "**Disable Temperature**" from the available temperature range (0℃ to 30℃).

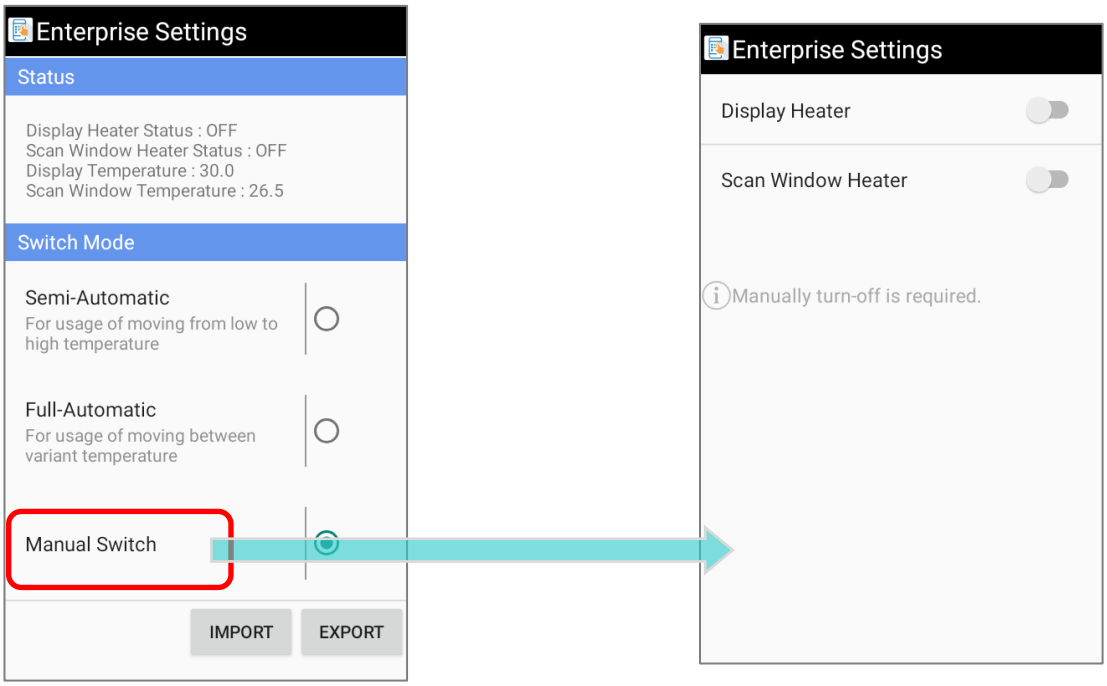


## 2.3 MANUAL SWITCH

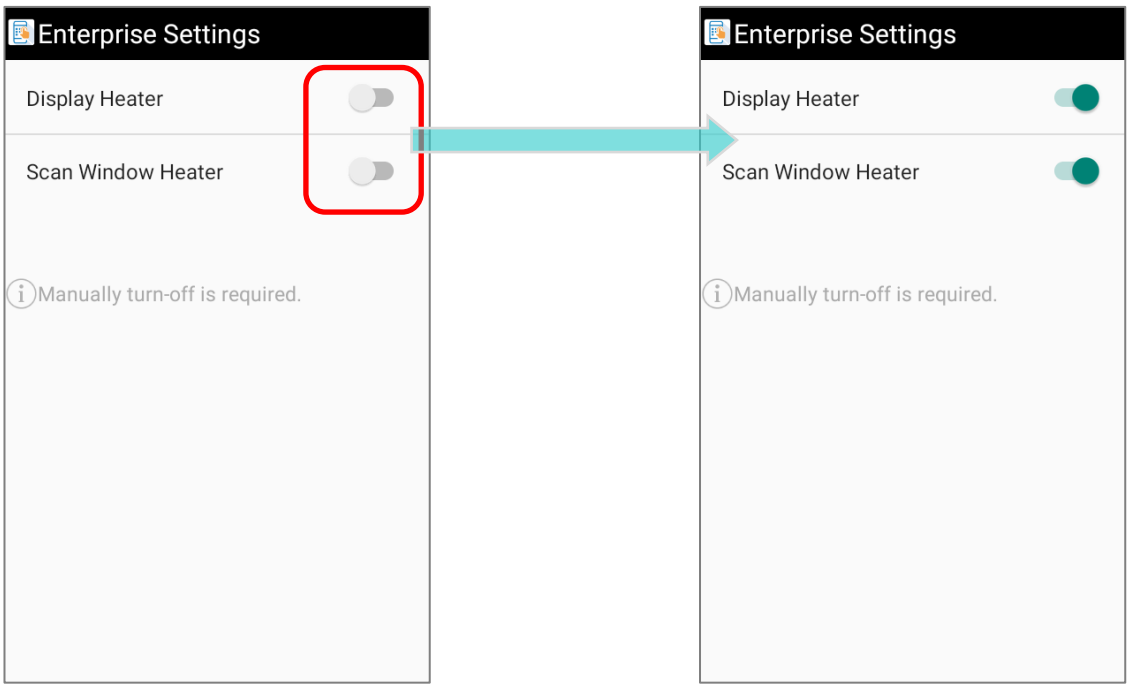
By enabling "**Heater**", users can further turn on "**Semi-Automatic**" or "**Full-Automatic**" or "**Manual Switch**". "**Manual Switch**" is disable by default. To enable "**Manual Switch**", simply tap on its radio button.




For advanced settings of "**Manual Switch**", please tap to enter the detail page.



When "**Manual Switch**" is on, both "**Display Heater**" and "**Scan Window Heater**" need to be activated respectively by the user.




Please note that it may cause unnecessary power consumption if keeping the heaters on.

To save the battery power, please manually turn off the heaters.

# NOTIFICATIONS

## IN THIS CHAPTER

## 3.1 PRE-HEAT

When the device is in "**Pre-heat**" status, the pre-heat notification icon is displayed on the status bar:


You may swipe down from the status bar to open the notification drawer for checking the related notification.

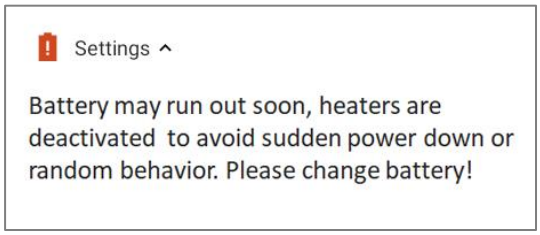
## 3.2 DEFROST

When the device is defrosting, the defrost icon is shown on the status bar.


You may swipe down from the status bar to open the notification drawer for checking the related notification.

## 3.3 LOW BATTERY

When the battery power is pretty low, the low battery icon is shown on status bar. Swipe down from the status bar to open the notification drawer to check this notification:




## 3.4 STANDARD BATTERY

If you accidentally install the standard battey, the standard battery icon is displayed on the status bar as well as the notification is on the notification drawer: