

# SC700 / SC720 User's Manual

WinCE. NET Rugged Portable Data Terminal

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# Chapter 1. Introduction

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Congratulations on purchasing the SC700/SC720 Portable Data Terminal (PDT), a Microsoft Windows®CE .Net rugged PDT. Its special combination of features makes it perfect for using in a wide range of applications. These features as:

- Intel® XScale™ PXA270 520MHz 32 bits RISC Processor
- Windows® CE .NET 5.0 Operating System
- 128/256 MB SDRAM & 128/256 MB Flash ROM
- Open Architecture: User Accessible SD/CF/PCMCIA Slot
- 240 x 320, 3.5” Color TFT Display with Touch Panel
- One Numeric-Alpha Keyboards with LED backlight
- 802.11b/g Radio Support (Bluetooth Optional)
- Optionally Built-in GSM/GPRS Module
- Integrated 1D or 2D Barcode Scanner
- Changeable Scan Housing and Keypad
- Digital Camera 2.0M Pixel DSC Function (optional)
- GPS or RFID Function (Expansion module)

## 1.1 About this Manual

The following chapters contained in this manual are:

Chapter 1:	Introduction	General information about the PDT.
Chapter 2:	Getting started	Describe the basic use of the PDT.
Chapter 3:	Setting	Provide basic instructions for customizing the PDT.
Chapter 4:	Communication	Describe how to use all kinds of communication of the PDT.
Chapter 5:	Software Application	Describe the installed applications on the PDT.
Appendix A.	2D Barcode Setting	Provide instructions for customizing the 2D Engine.
Appendix B	Phone Tools (GSM/GPRS)	Provide instructions for the Phone Tools Utility
Appendix C	Expansion Module Applicability	RFID& GPS Function Explaining

## 1.2 User and Product Safety

- Do not stare into the laser or LED beam directly or shine it into eyes.
- Never use strong pressure onto the screen or subject it to severe impact, as the LCD panel could become cracked and possibility cause personal injury. If the LCD panel is broken, never touch the liquid inside because the liquid irritates the skin.
- Although the PDT has passed the test of IP54 standard for water and dust resistance, avoid prolonged exposure to rain or other concentrated moisture. Such condition exceeds the IP54 standard, and could result in water or other contaminants entering into the PDT.
- Use only the original approved AC Adapter with the PDT. Use of an unapproved AC Adapter could result in electrical problems, or even cause a fire or electrical shock to the user.
- Do not disassemble the PDT. Servicing should be done by supplier only. If the PDT or accessories gets damaged due to wrong handling or unauthorized repair, warranty is void. In case the warranty seals are broken, warranty is void too.
- Make regularly back-ups of all important data.
- Under no circumstance will supplier be liable for any direct, indirect, consequential or incidental damages baring out of the use or inability to use the hardware and software and/or any data loss, even if supplier has been informed about the possibility of such damages.



## 1.3 Battery Safety

Lithium-ion battery packs might get hot, explode, ignite and/or cause serious injury if exploded by abusive using. Please follow the safety warnings listed as below:

- Do not throw the battery pack in fire. Do not expose the battery to high temperatures.
- Do not connect the positive battery pack with negative battery pack to each other with any metal object (like wire).
- Do not carry or store battery pack together with metal objects.
- Do not pierce the battery pack with nails or drills, strike the battery pack with a hammer, step on the battery pack or otherwise expose it to strong impacts, shocks or excessive force.
- Do not solder onto the battery pack.
- Do not expose battery pack to liquid or allow the battery contacts to get wet.
- Do not disassemble or modify the battery pack. The battery pack contains safety and protection measures, which, if damaged, may cause the battery pack to generate heat, explode or ignite.
- Do not discharge the battery pack using any device except for the specified device. When it is used in devices other than the specified devices, the battery pack can be damaged or its life expectancy reduced. If the device causes any abnormal current to flow, it may cause the battery pack to become hot, explode or ignite and cause serious injury.
- In the event the battery pack leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

## 1.4 FCC Statement

### Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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.

### **IMPORTANT NOTE:**

#### Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

### **Body-worn Operation**

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with the Shin Chuan Computer Co., Ltd. accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

This transmitter must not be co-located or operating in conjunction with any other

antenna or transmitter except built-in tested devices.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

**Caution:** SCC declares that SC700 ( FCC ID: TQ2-SC700PDT-BWG ) / SC720 ( FCC ID: TQ2-SC720PDT-BWG ) is limited in CH1~CH11 for 2.4GHz by specified firmware controlled in U.S.A.  
The FCC ID of SC700/SC720 is TQ2-SC700PDT-BWG

## LED AND LASER SAFETY INFORMATION

- Class II LED/Laser Product
- Do not stare at the LED/Laser or shine into eyes
- Do not allow young children to use the product without adult supervision
- Do not replace/repair the LED/Laser, these are not user replaceable
- Do not shine the LED/Laser on a shiny reflective surface

## 1.5 Recycling & disposal instructions.



Do not throw this product in the home waste bin. For proper end-of-life treatment consult the Environmental care section of [www.sccltd.com.tw](http://www.sccltd.com.tw)

## 1.6 Regulatory information.



For CE, FCC, RoHS and other Document of Conformities, consult the Regulatory section of [www.sccltd.com.tw](http://www.sccltd.com.tw)

## 1.7 Product Labeling

The PDT has several labels as showed in Figure 1-1 to 1-4.

### A. SC700



Figure 1-1 Product Labeling (Front side view)

Label nr.	Description
1	LCD panel protection film
2	SC700 logo
5	Warranty seal PDT
10	SIM label (only use on GSM/GPRS)

Table 1-1 Front labeling

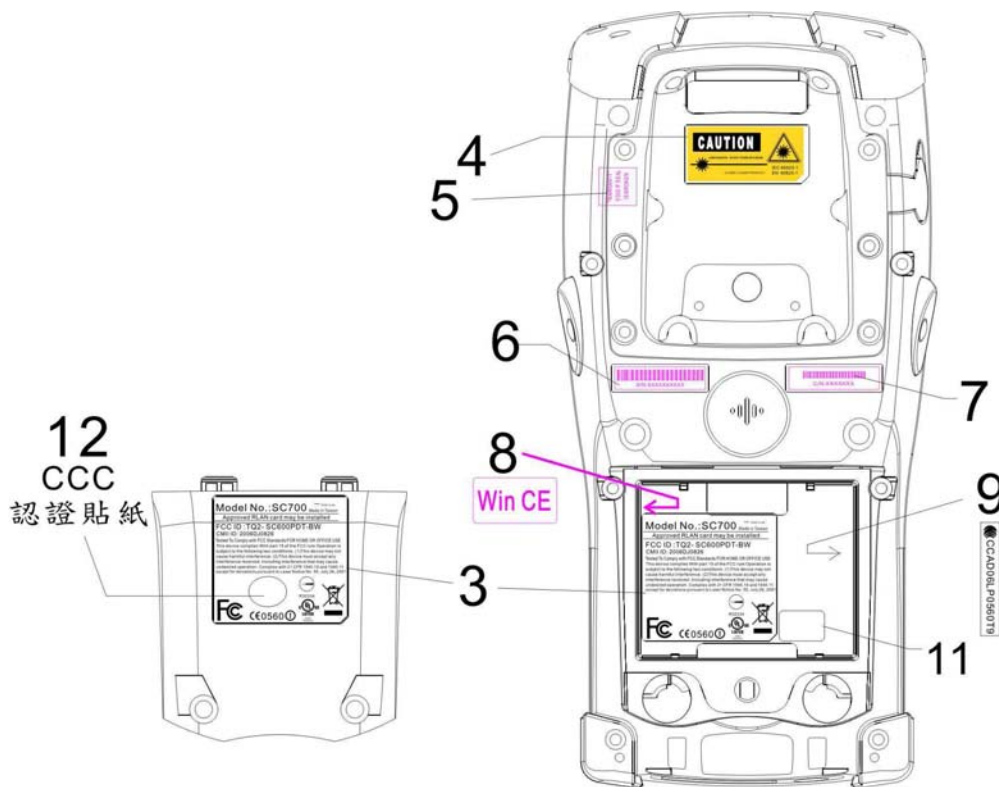


Figure 1-2 Product Labeling (Back side view)

Label nr.	Description
3	System and regulatory label
4	LED/Laser radiation warning label
5	Warranty label bar code reader
6	Serial number
7	Configuration number
8	Windows CE .NET label
9	NCC label (only use on Traditional Chinese version)
11	PenPower label (only use on Simplified Chinese version)
12	CCC label (only use with China)

Table 1-2 Rear labeling

## B. SC720

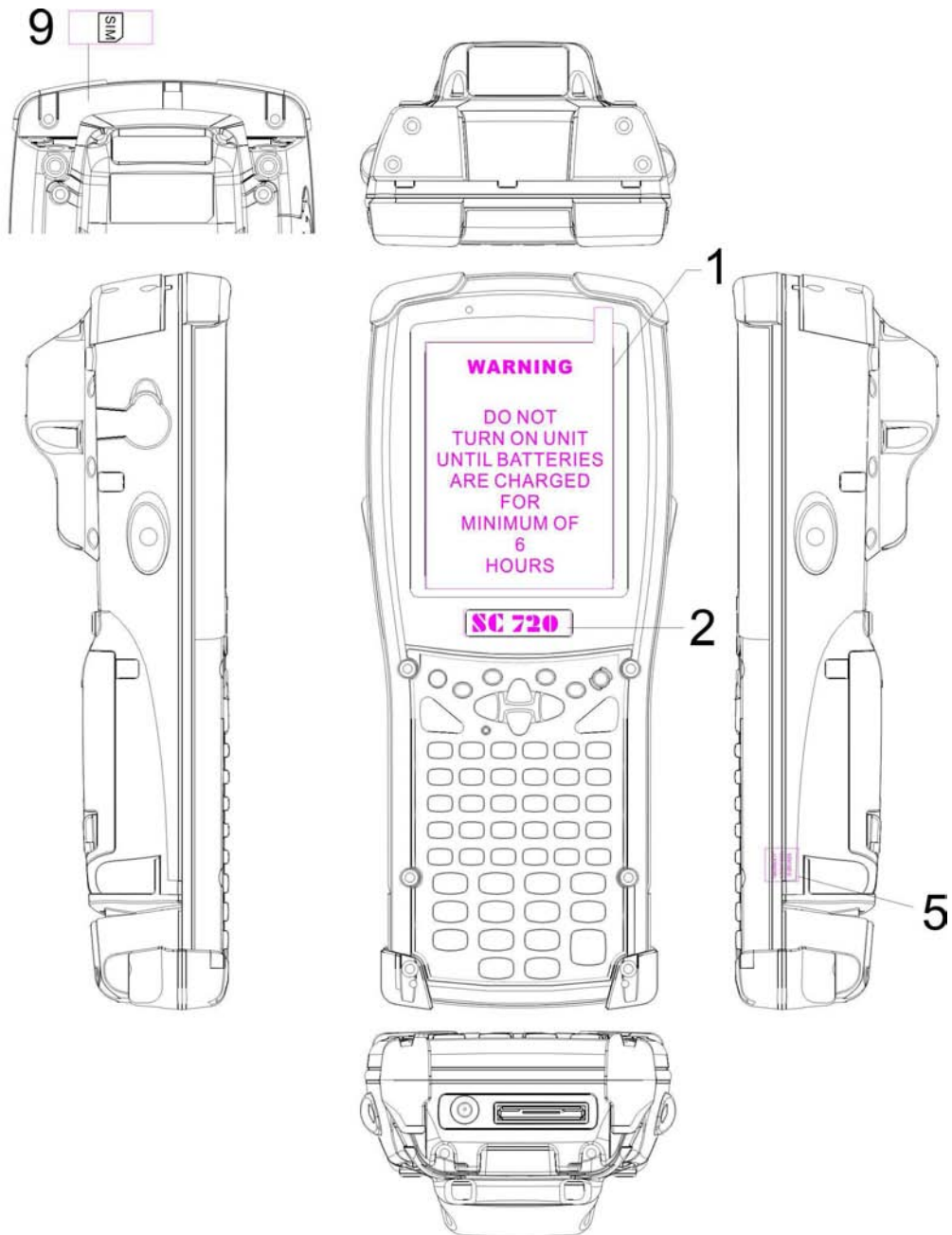


Figure 1-3 Product Labeling (Front side view)

Label nr.	Description
1	LCD panel protection film
2	SC720 logo
5	Warranty seal PDT
9	SIM label (only use on GSM/GPRS)

Table 1-3 Front labeling

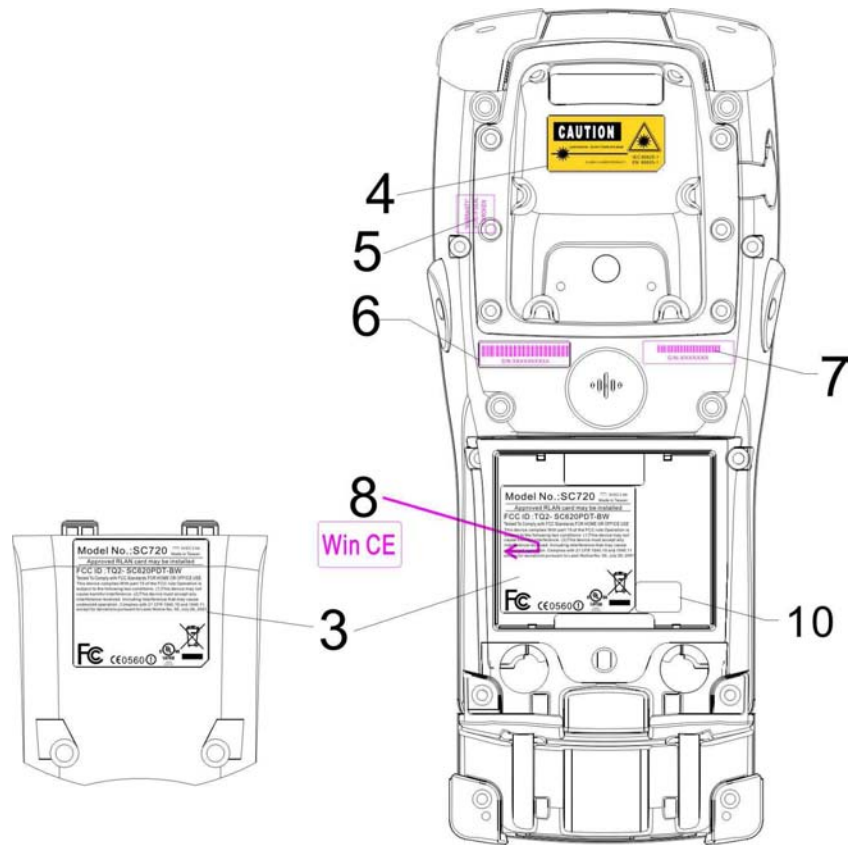


Figure 1-4 Product Labeling (Back side view)

Label nr.	Description
3	System and regulatory label
4	LED/Laser radiation warning label
5	Warranty label bar code reader
6	Serial number
7	Configuration number
8	Windows CE .NET label
10	PenPower label (only use with China)

Table 1-4 Rear labeling

## 1.8 System Specifications

The SC700 / SC720 detailed specifications as follows. Unless otherwise noted, all the specifications are subject to change without prior notification.

Table 1-5 System Specification

<b>SC700 / SC720</b>	
Processor	- 520MHz Intel PXA270 32 bits RISC CPU
Memory	- 128/256MB Flash ROM - 128/256MB SDRAM
Display	- 240 x 320 3.5" TFT 256K Color LCD with LED backlight
Audio	- One mono speaker - 2.5mm DIA Stereo Earphone Jack with Microphone input
Radio Support	- <b>Wireless LAN:</b> 802.11b/g - <b>Bluetooth:</b> Class II (optional) - <b>GSM/GPRS:</b> (optional)
Communication Ports	- <b>USB:</b> Support USB v1.1 both host and client. (PDT and Cradle) - <b>Serial:</b> RS232 via optional cable or Cradle.
Scan Engine	- Symbol, Opticon Laser (1D) Engine. (optional) - HHP 1D/2D Image. (optional) - Opticon Long range engine. (optional) - Opticon 2D Image. (optional)
Expansion Slot	- One SD Card Slot (SD memory only, no SDIO support) - One Compact Flash type-II Slot (Availability depends of PDT model)
LED	- One Triple-Color LED for Charger Indicator and Alarm Notification - One Dual-Color LED for Scanner Indicator



<b>SC700 / SC720</b>		
<b>Power System</b>		<ul style="list-style-type: none"> <li>- Standard Li-Ion Battery Pack, 3.7V, 3000mAh</li> <li>- Advanced Smart Battery with Gas-Gauge</li> <li>- Built-in Battery Charger</li> <li>- 2.4V/15mAh rechargeable backup battery</li> <li>- One Battery Cover Sensor Switch</li> <li>- Power Adapter: 100~240V AC, 50/60Hz Input ; 5VDC/2.6A Output</li> </ul>
<b>Keypad / Buttons</b>	<b>SC700</b>	<ul style="list-style-type: none"> <li>- One Power Button</li> <li>- Three Barcode Scanner Buttons</li> <li>- Four Navigation Buttons</li> <li>- Four Application Buttons</li> <li>- Sixteen Alpha-Numeric Keypad</li> <li>- One Pistol Trigger Button</li> <li>- One Application Hot Key</li> </ul>
	<b>SC720</b>	<ul style="list-style-type: none"> <li>- One Power Button</li> <li>- Four Barcode Scanner Buttons</li> <li>- Four Navigation Buttons</li> <li>- Four Application Buttons</li> <li>- Forty-four Alpha-Numeric Keypad</li> <li>- One Pistol Trigger Button</li> <li>- One Application Hot Key</li> </ul>
<b>Dimensions and Weight</b>	<b>SC700</b>	<ul style="list-style-type: none"> <li>- Dimensions: L : 192.5mm W: 91.3mm / 78mm H: 60.6mm / 42.2mm</li> <li>- Weight: 560g with Standard Battery Pack 500g without Battery Pack</li> </ul>
	<b>SC720</b>	<ul style="list-style-type: none"> <li>- Dimensions: L : 220mm W: 91.3mm / 78mm H: 60.6mm / 42.2mm</li> <li>- Weight: 660g with Standard Battery Pack 600g without Battery Pack</li> </ul>
<b>Color</b>		- Black

<b>SC700 / SC720</b>	
Peripherals and Accessories	- Optional: RS232 Serial Cable for Terminal / USB Host Cable for Terminal / High-Capacity Li-Ion Battery Pack (3.7V, 4000 mAh) / RFID Card Cover / Single Dock / Pistol Grip/ 4 Slot Battery Charger / Car Adapter / Holster / LCD Protective Film / Finger Printer & RS232 Cable / RFID Module / GPS Module
Software	- Microsoft Windows CE.NET 5.0 Professional

## 1.9 Environment Standard

Table 1-6 Environment Standards

<b>Operating Temperature</b>	14°F ~ 122°F( -10°C ~ 50°C)
<b>Storage Temperature</b>	-4°F ~ 158°F (-20°C ~ 70°C)
<b>Humidity</b>	5% ~ 95% (non-condensing)
<b>Drop</b>	5ft (1.5m) Drop onto Concrete
<b>Water &amp; Dust proof</b>	IP54 Certificated & IP64 Compliant
<b>Vibration</b>	MIL STD 810F

## 1.10 Warranty and after service

Should this PDT be malfunctioned, please contact your original retailer providing information about the product name, the serial number, and the details about the problem.

# Chapter 2. Getting Started

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## 2.1 Check the package

Open the package and check all the parts are inside without shortage and damage:

### A. SC700



Figure 2-1 Inside the package

1. SC700 Terminal
2. Standard Battery Pack (3.7V, 3000 mAh)
3. USB Client Cable for Terminal
4. Stylus
5. AC Power Cord
6. Earphone/ Microphone Set
7. Standard AC Adapter 5VDC/2.6A
8. CF Support Guide (availability depends of PDT model)
9. Quick Guide (not shown in the picture)

## B. SC720



Figure 2-2 Inside the package

1. SC720 Terminal
2. Standard Battery Pack (3.7V, 3000 mAh)
3. USB Client Cable for Terminal
4. Stylus
5. AC Power Cord
6. Earphone/ Microphone Set
7. Standard AC Adapter 5VDC/2.6A
8. CF Support Guide (availability depends of PDT model)
9. Quick Guide (not shown in the picture)

## 2.2 General View of the PDT

### 2.2.1 SC700 general view



Figure 2-3 SC700 front side view



Figure 2-4 SC700 back side view

Table 2-1 Description of SC700 General View

1	Scanner LED Indicator	“Red” color	Reading barcode
		“Green” color	Successful reading
2	Charge LED Indicator	“Red” color	Charging battery
		“Green” color	Battery charged full
3	LCM / Touch Panel	Do specific action through touch panel by stylus	
4	Left Scan key Right Scan key Scan key	Start scanning the barcode by pressing any one of these three scan keys	
5	Power key	Puts the terminal into and wakes the terminal from suspend mode.	
6	F1 ~ F4 key	The four application keys, hot keys of application program defined by end user.	
7	Navigation key	Navigation keys for left, right, up and down directions	
8	Alpha-Numeric keys	Numeric keys, Change to Alpha keys after pressing Alpha key.	
9	Alpha key	Toggle Alpha-mode for Alpha-Numeric keys	
10	Fn key	This key is used in combination with other keys to type special characters and perform system functions.	
11	Enter key	This key confirms data entry	
12	Earphone Jack Connector	A connector to plug a earphone	
13	USB / Serial / Synchronization port	A connector to support USB Host/Client and serial functions	
14	Scan window	A window for scanning of barcode reader	
15	Stylus	Use the stylus for selecting items and entering information.	
16	Battery Cover	Protect Battery pack, keep the switch of battery cover to leave system from suspend mode	
17	Battery cover Latch	To keep Battery Cover locked	
18	Hand Strap	This strap can be sealed tighter or looser	
19	Speaker	1W speaker for audio sound	
20	DC Power Jack	A connector to support AC power.	
21	End Cap	Protect CF slot and SD slot from dust and water	

## 2.2.2 SC720 general view



Figure 2-5 SC7200 front side view



Figure 2-6 SC720 back side view

Table 2-2 Description of SC720 General View

1	Scanner LED Indicator	“Red” color	Reading barcode
		“Green” color	Successful reading
2	Charge LED Indicator	“Red” color	Charging battery
		“Green” color	Battery charged full
3	LCM / Touch Panel	Do specific action through touch panel by stylus	
4	Left Scan key Right Scan key Scan key	Start scanning the barcode by pressing any one of these three scan keys	
5	Power key	Puts the terminal into and wakes the terminal from suspend mode.	
6	F1 ~ F4 key	The four application keys, hot keys of application program defined by end user.	
7	Navigation key	Navigation keys for left, right, up and down directions	
8	Alpha keys	Alpha key.	
9	Numeric keys	Numeric keys.	
10	Fn key	This key is used in combination with other keys to type special characters and perform system functions.	
11	Enter key	This key confirms data entry	
12	Earphone Jack Connector	A connector to plug a earphone	
13	USB / Serial / Synchronization port	A connector to support USB Host/Client and serial functions	
14	Scan window	A window for scanning of barcode reader	
15	Stylus	Use the stylus for selecting items and entering information.	
16	Battery Cover	Protect Battery pack, keep the switch of battery cover to leave system from suspend mode	
17	Battery cover Latch	To keep Battery Cover locked	
18	Hand Strap	This strap can be sealed tighter or looser	
19	Speaker	1W speaker for audio sound	
20	DC Power Jack	A connector to support AC power.	
21	End Cap	Protect CF slot and SD slot from dust and water	



## 2.3 Charging the Battery Pack

Before using the PDT, perform the basic procedure of charging the battery pack through the following steps.

### 2.3.1 Installing the battery pack

1. On the PDT attached with a hand-strap, detach and loose the hand-strap.

Figure 2-7 Release the Hand strap from PDT



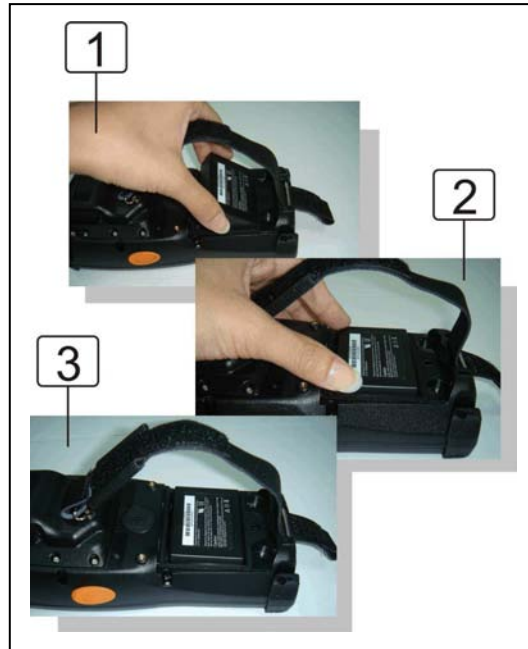
2. Turn the locking screws (right and left) downwards and lift the battery cover away from the PDT.

Figure 2-8 Detach the battery cover from PDT



3. Insert the battery pack into the battery compartment with the label facing out, and ensuring the battery snaps into place.

Figure 2-9 **Insert the battery pack**



4. Replace the battery cover by inserting the top first, and then press the bottom in firmly. Turn the locking screws (right and left) upwards to secure the cover to the PDT.

Figure 2-10 **Replace the battery cover**



5. Charge time. For the first time to charge the battery pack needs approximately 6 hours. Subsequent charging time needs approximately 4 hours.
- ◆. When charging the battery pack, the charge LED indicator on the PDT turns on **Red**. After the battery pack is fully charged, the charge LED indicator turns to **Green**.

### 2.3.2 Charging the battery pack with Power Adapter

1. Connect the Power cord to the Power adapter.
2. Plug in the connector of the power adapter.
3. Connect the power cord to a power source.

Figure 2-11 Charging with power adapter



- ◆ When charging the battery pack, the charge LED indicator on the PDT turns on **Red**.
- ◆ After the battery pack is fully charged, the charge LED indicator turns to **Green**.

### 2.3.3 Charging the battery pack with Single Dock

a) Leave the battery pack inside of the PDT

1. Connect the Power cord to the Power adapter
2. Connect the power cord to a power source
3. Plug in the connector of the power adapter with Single Dock
4. Insert the PDT into the Single Dock

Figure 2-12 Charging with Single Dock



- ◆ When charging the battery pack, the charge LED indicator on the PDT turns on **Red**. After the battery pack is fully charged, the charge LED indicator turns to **Green**.

**CAUTION:** Single Cradle Adapter is 5Vdc/6.5A, which is different from PDT Adapter (5Vdc/2.6A). Please use the Single Cradle Adapter only.

b) Place the spare battery pack into the Single Cradle's spare Battery charging slot

1. Connect the power cord to the power adapter
2. Connect the power cord to a power source
3. Plug in the connector of the power adapter with Single Cradle
4. Insert the Battery pack into the Single Cradle's spare Battery slot.

- ◆ When charging the Battery pack in the Single Cradle's spare Battery slot, the Single Cradle charging LED will turn on **Red**. After the Battery pack is fully charged, this LED will turn to **Green**.

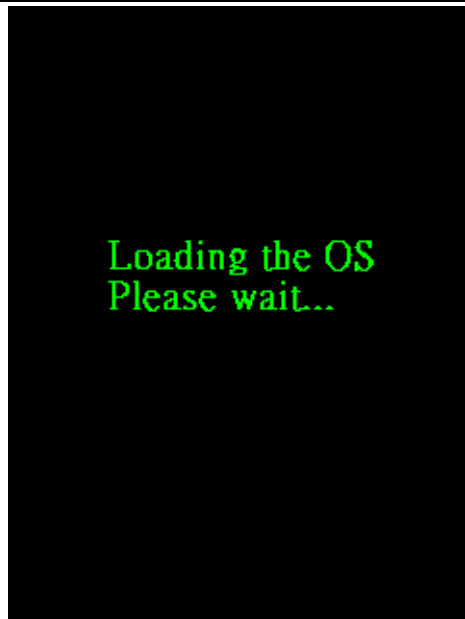
**CAUTION:** Please do not remove the Battery pack too long from PDT after you have already full-charged the Battery pack and backup battery pack and start to use the PDT. Otherwise the data stored inside SDRAM memory will be lost. Please also keep in mind power the PDT off if you want to change the main Battery pack.

## 2.4. Handling the PDT

### 2.4.1 Starting the PDT

Press the Power key to turn on/off the PDT. If the PDT does not power on, perform a cold boot. See 2-7 Resetting the PDT.

**CAUTION:** When a battery is fully inserted in PDT for the first time, upon the PDT's first power up, the device boots and powers on automatically.



When the PDT is powered on for the first time, it initializes its system. A splash screen (figure 2-13) appears for a short period of time followed by the Wince.NET 5.0 window.

This section offers the basic procedures of PDT using.

Figure 2-13 Starting the PDT

### 2.4.2 Power on / off

#### ➤ To turn on the PDT

Press the Power key briefly (🔌). If the PDT does not power on, perform the cold reset. See chapter 2.7.1.

As the PDT initializes its file system, it splash screen displays for about 30 seconds followed by calibration screen. Every time you perform a cold reset, these screens will also appear.

To turn off the PDT, just press the Power key again. This action does not actually turn off the PDT, it only turns the PDT into suspend mode. All running applications remain as you left them, until you press the Power key again to resume operation of the PDT

### 2.4.3 Calibration of the touch Screen

On the initial boot-up of the PDT, the stylus calibration screen (Labeled Align Screen) opens. Use the stylus to press and hold briefly on the center of each target as it moves around the screen.

If necessary, adjust the backlight on the PDT to make the screen readable. (See below 2.4.4. Adjust the brightness).

When you feel the touch screen function is poor or the operation does not match the exact location it should be, please recalibrate the screen by using the stylus to tap the **Start > Settings > Control Panel > Stylus**, to open the “**Calibration**” to recalibrate again.

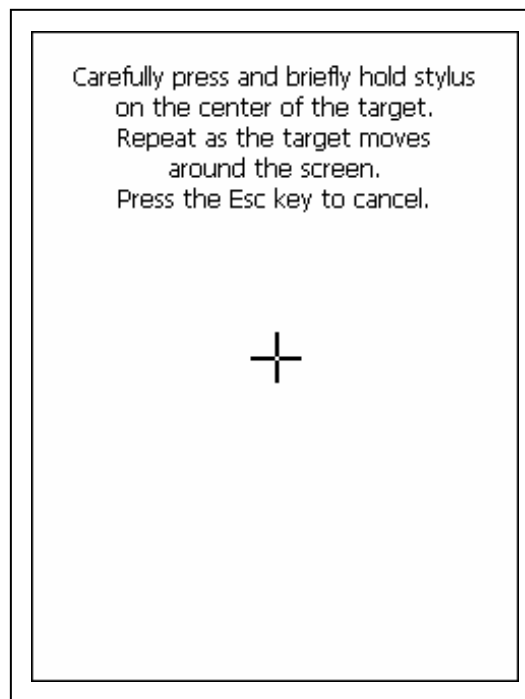






Figure 2-14 Calibration

### 2.4.4 Adjusting the brightness

The factory default for the brightness is in Middle level. You can adjust the brightness to meet your environment and comfort as:

1) Become brighter: Press the  key and then press on the right key of Navigation key .

2) Become darker: Press the  key and then press on the left key of Navigation key .

3) The display will become dimmer automatically, if you do not perform any operation for a specific period of time. This will help to save the battery power. You can set up the specific period of time to see chapter 2.6 as reference.

## 2.4.5 To mute the Sound

To mute the sound, press the **Fn** key first, and then press the **ESC** key to turn off and on of the sound.

## 2.4.6 Using the Stylus

The stylus is located next to hand-strap on the left rear of the PDT. The stylus function is same as the mouse on a PC. Use the stylus to:

- 1) Navigate the display, select menu item and open optional applications.
- 2) Tap the characters on soft keyboard panel.
- 3) Hold the stylus on the screen and drag across the screen to select the list of multiple items.

**CAUTION:** Never use a pen, pencil, or other sharp object on the display to avoid any unexpected damage of the touch screen.


















## 2.4.7 Using the SC700 Keypad



Figure 2-15 SC700 Keypad



Table 2-3 Keypad List

Key	Main Function	Fn + Main Function	Alpha + Main Function
	<b>None. (Reserved for Customer)</b>		
	<b>Main Barcode Scan Key</b>		
	<b>Power On/Off</b>		
	<b>Internet Explorer</b>		
	<b>Microsoft WordPad</b>		
	<b>Inbox</b>		
	<b>File Explorer</b>		
	<b>Right</b>	<b>Backlight Increase</b>	
	<b>Left</b>	<b>Backlight Decrease</b>	
	<b>Down</b>	<b>Page Down</b>	
	<b>Up</b>	<b>Page Up</b>	
	<b>ESC</b>	<b>Audio Mute</b>	<b>\$ €</b>
	<b>Backspace</b>	<b>TAB</b>	<b>Caps</b>
	<b>Change to letters</b>		
	<b>Function change</b>		
	<b>1</b>	<b>@</b>	<b>: \</b>
	<b>2</b>	<b>'</b>	<b>A B C</b>
	<b>3</b>	<b>+</b>	<b>D E F</b>
	<b>4</b>	<b>Paste</b>	<b>G H I</b>
	<b>5</b>	<b>Del</b>	<b>J K L</b>
	<b>6</b>	<b>– (Minus Sign)</b>	<b>M N O</b>
	<b>7</b>	<b>Copy</b>	<b>P Q R S</b>
	<b>8</b>	<b>&amp;</b>	<b>T U V</b>
	<b>9</b>	<b>*</b>	<b>W X Y Z</b>
















Key	Main Function	Fn + Main Function	Alpha + Main Function
	0	Space	[ ]
	. (Point)	Start Menu	, ;
	Enter	/	= %

Table 2-4 Special Assembler Key

Assembler Key	Functionality	Definition
	Warm Reset	Press “F1” and “F4” button simultaneously.
	Cold Reset	Press “Power”, “F1” and “F4” button simultaneously.

Table 2-5 Definition of main Function

Key	Main Function	Definition
	None.	Keep its function or by customer demand.
	Main Barcode Scan Key	The  key activates the scan function of SC700.
	Power On/Off	The  key puts the terminal into and wakes the terminal from suspend mode if this key button is not pressed more than <b>two seconds</b> .
	Internet Explorer	Application key 1, User can define F1 function from setting.
	Microsoft WordPad	Application key 2, User can define F2 function from setting.
	Inbox	Application key 3, User can define F3 function from setting.
	File Explorer	Application key 4, User can define F4 function from setting.
	Right	Move the cursor one character to the right. The cursor will move continuously if button is pressed continuously.
	Left	Move the cursor one character to the left. The cursor will move continuously if button

Key	Main Function	Definition
		is pressed continuously.
	<b>Down</b>	Move the cursor down one row or line The cursor will move continuously if button is pressed continuously.
	<b>Up</b>	Move the cursor up one row or line The cursor will move continuously if button is pressed continuously.
	<b>ESC</b>	This key performs a cancel action
	<b>Backspace</b>	“ <b>Backspace</b> ” key, it moves the cursor back one space each time the key is pressed. It deletes the previous character each time it is pressed if you are typing text. The cursor will move continuously if button is pressed continuously.
	<b>Change to letters</b>	<p>1. The  key enables you to toggle between the <b>numeric</b> and <b>alpha</b> modes. Numeric mode is when you type numbers with number keys. Alpha mode is when you type letters with the number keys.</p> <p>2. When you press  key, it appears “Alpha” icon at the Task bar to indicate Alpha mode is enabled. The keypad stays in the alpha mode until you press  key again.</p>
	<b>Function change</b>	The  key is used in combination with other keys to type special characters and perform system functions.
	<b>1</b>	Number key “1”
	<b>2</b>	Number key “2”
	<b>3</b>	Number key “3”
	<b>4</b>	Number key “4”
	<b>5</b>	Number key “5”



















Key	Main Function	Definition
	6	Number key “6”
	7	Number key “7”
	8	Number key “8”
	9	Number key “9”
	0	Number key “0”
	.	Point key
	Enter	This key confirms data entry





















### 2.4.7.1 Special Function by “Fn” + main Function









The “Fn” key is used in combination with other keys to type special characters and perform system functions.

Table 2-6 Special Function key define


Key Sequence	Fn + Main Function	Definition
	<b>Increase of Brightness</b>	Increase the LED backlight brightness of display screen(Lighter) You must press  key, then press  key to increase backlight brightness each time.
	<b>Decrease of Brightness</b>	1. Decrease the LED backlight brightness of display screen (darker) 2. You must press  key, then press  key to decrease backlight brightness each time.
	<b>Page Down</b>	1. Move the cursor down one page. The cursor will move continuously if button is pressed continuously. 2. You must press  key, then press  key to cursor down one page


Key Sequence	Fn + Main Function	Definition
		each time.
	<b>Page Up</b>	<p>1. Move the cursor up one page. The cursor will move continuously if button is pressed continuously.</p> <p>2. You must press  key, then press  key to cursor up one page each time.</p>
	<b>Audio Mute</b>	<p>1. Toggle the audio mute/on</p> <p>2. You must press  key, then press  key to enable audio mute or turn on audio function each time.</p>
	<b>TAB</b>	<p>1. The “TAB” function is to move the cursor to the next tab stop or the next control (on a form)</p> <p>2. To do this function by pressing  key first, and then pressing  key each time.</p>
	@	Enter an @ by pressing  key, then pressing  key.
	,	Enter a { } by pressing  key, then pressing  key.
	+	Enter a plus sign by pressing  key, then pressing  key










Key Sequence	Fn + Main Function	Definition
	<b>Paste</b>	<ol style="list-style-type: none"> <li>1. It is to do “Paste” function.</li> <li>2. To do this function by pressing  key first, and then pressing  key each time.</li> </ol>
	<b>Del</b>	<ol style="list-style-type: none"> <li>1. The “Delete” function delete the next character forward each time.</li> <li>2. To do “Delete” function by pressing  key first, and then pressing  key each time.</li> </ol>
	<b>– (Minus Sign)</b>	Enter a minus sign by pressing  key, then pressing  key.
	<b>Copy</b>	<ol style="list-style-type: none"> <li>1. Copy action.</li> <li>2. You must press  key, then press  key to do “Copy” action each time.</li> </ol>
	<b>&amp;</b>	Enter an AND sign by pressing  key, then pressing  key.
	<b>*</b>	Enter an asterisk sign by pressing  key first, and then pressing  key.
	<b>Space</b>	<ol style="list-style-type: none"> <li>1. The “Space” function is to move the cursor one space.</li> <li>2. To do this function by pressing  key.</li> </ol>





Key Sequence	Fn + Main Function	Definition
		key first, and then pressing  key each time.
	<b>Start Menu</b>	<ol style="list-style-type: none"> <li>1. It displays the Start menu.</li> <li>2. To do this function by pressing  key first, and then pressing  key each time.</li> </ol>
		Enter a slash by pressing  key first, and then pressing  key.



#### 2.4.7.2 Alpha plane keys by “Alpha” + main Function

1. The  key enables you to toggle between the numeric and alpha modes. Numeric mode is when you type numbers with number keys. Alpha mode is when you type letters with the number keys.

2. When you press  key, it appears “Alpha” icon at the Task bar to indicate Alpha mode is enabled. It means Alpha mode is disabled if there isn’t “Alpha” icon at Task bar. The keypad stays in the alpha mode until you press

 key again. For an example to type “cap1” word, press     < wait 0.5 seconds >    .

3. If you want to type a lowercase “c”, press     (The

 key three times, the  key is needed if it’s the first alpha character keying in.). If a letter that is on the same key as the last letter entered, wait two seconds after you pressed the last key, then you can enter the correct series of keystrokes to create the next letter.




4. While you are in the Alpha mode and you press  key to initial the Caps mode, you will render a Caps Lock until you press  key again. Once you are in Caps mode, you stay in Caps until it is pressed again.
5. It appears “” icon at Task Bar during Caps mode.

Table 2-7 Alpha + Numeric keys define

To enter	Press the Keys	To enter	Press the Keys
\$	Alpha ESC \$ €	€	Alpha ESC \$ € ESC \$ €
Caps	Alpha BS Caps		
:	Alpha 1 : \	\	Alpha 1 : \ 1 : \
a	Alpha 2 ABC	A	Alpha BS Caps 2 ABC
b	Alpha 2 ABC 2 ABC	B	Alpha BS Caps 2 ABC 2 ABC
c	Alpha 2 ABC 2 ABC 2 ABC	C	Alpha BS Caps 2 ABC 2 ABC 2 ABC
d	Alpha 3 DEF	D	Alpha BS Caps 3 DEF
e	Alpha 3 DEF 3 DEF	E	Alpha BS Caps 3 DEF 3 DEF
f	Alpha 3 DEF 3 DEF 3 DEF	F	Alpha BS Caps 3 DEF 3 DEF 3 DEF
g	Alpha 4 GHI	G	Alpha BS Caps 4 GHI
h	Alpha 4 GHI 4 GHI	H	Alpha BS Caps 4 GHI 4 GHI
i	Alpha 4 GHI 4 GHI 4 GHI	I	Alpha BS Caps 4 GHI 4 GHI 4 GHI
j	Alpha 5 JKL	J	Alpha BS Caps 5 JKL
k	Alpha 5 JKL 5 JKL	K	Alpha BS Caps 5 JKL 5 JKL
l	Alpha 5 JKL 5 JKL 5 JKL	L	Alpha BS Caps 5 JKL 5 JKL 5 JKL
m	Alpha 6 MNO	M	Alpha BS Caps 6 MNO
n	Alpha 6 MNO 6 MNO	N	Alpha BS Caps 6 MNO 6 MNO
o	Alpha 6 MNO 6 MNO 6 MNO	O	Alpha 6 MNO 6 MNO 6 MNO
p	Alpha 7 PQRS	P	Alpha BS Caps 7 PQRS
q	Alpha 7 PQRS 7 PQRS	Q	Alpha BS Caps 7 PQRS 7 PQRS
r	Alpha 7 PQRS 7 PQRS 7 PQRS	R	Alpha BS Caps 7 PQRS 7 PQRS 7 PQRS
s	Alpha 7 PQRS 7 PQRS 7 PQRS 7 PQRS	S	Alpha BS Caps 7 PQRS 7 PQRS 7 PQRS 7 PQRS
t	Alpha 8 TUV	T	Alpha BS Caps 8 TUV
u	Alpha 8 TUV 8 TUV	U	Alpha BS Caps 8 TUV 8 TUV
v	Alpha 8 TUV 8 TUV 8 TUV	V	Alpha BS Caps 8 TUV 8 TUV 8 TUV
w	Alpha 9 WXYZ	W	Alpha BS Caps 9 WXYZ
x	Alpha 9 WXYZ 9 WXYZ	X	Alpha BS Caps 9 WXYZ 9 WXYZ



To enter	Press the Keys	To enter	Press the Keys
y	Alpha 9 WXYZ 9 WXYZ 9 WXYZ	Y	Alpha BS Caps 9 WXYZ 9 WXYZ 9 WXYZ
z	Alpha 9 WXYZ 9 WXYZ 9 WXYZ 9 WXYZ	Z	Alpha BS Caps 9 WXYZ 9 WXYZ 9 WXYZ 9 WXYZ
[	Alpha 0 [ ]	]	Alpha 0 [ ] 0 [ ]
,	Alpha . : ;	;	Alpha . : ; . : ;
=	Alpha ← = %	%	Alpha ← = % ← = %

**Note:**

1. The **Alpha** key is not needed to key in if the character isn't the first alpha character being keyed in.
2. The **BS Caps** keys are not needed to key in if it is not the first capital alpha character being keyed in.

**2.4.8 Using the SC720 Keypad**

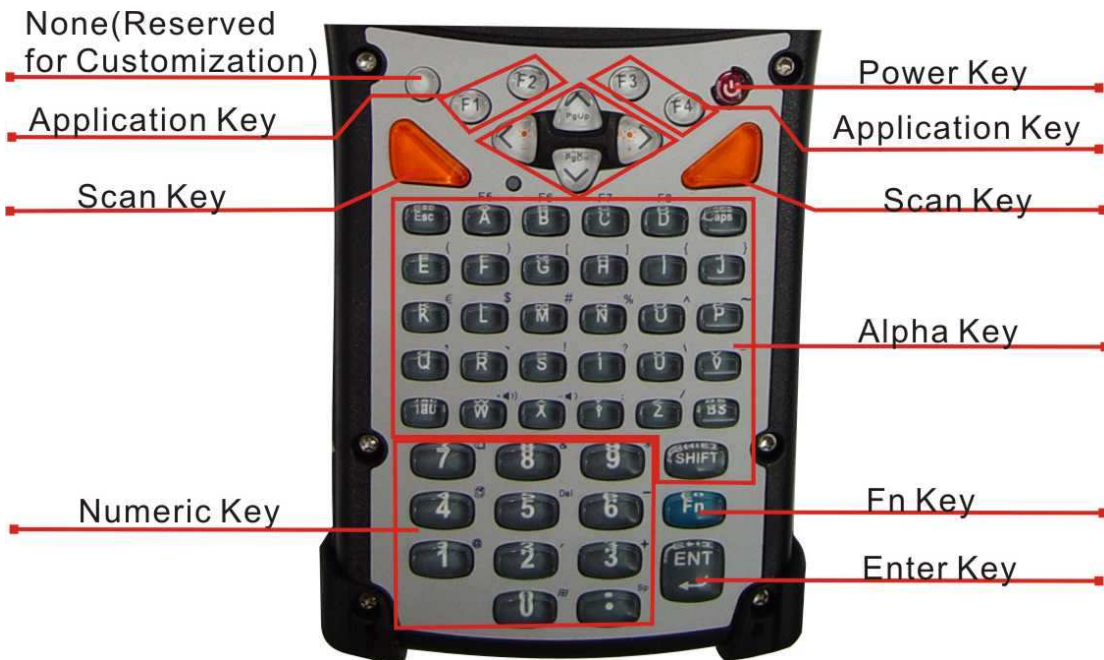
























Figure 2-16 SC720 Keypad

Table 2-8 Keypad List

Key	Main Function	Fn + Main Function
	<b>None</b>	
	<b>Main Barcode Scan Key</b>	
	<b>Power On/Off</b>	
	<b>Internet Explorer</b>	
	<b>Microsoft WordPad</b>	
	<b>Inbox</b>	
	<b>File Explorer</b>	
	<b>Right</b>	<b>Increase of Brightness</b>
	<b>Left</b>	<b>Decrease of Brightness</b>
	<b>Down</b>	<b>Page Down</b>
	<b>Up</b>	<b>Page Up</b>
	<b>Esc</b>	
	<b>Caps</b>	
	<b>Tab</b>	
	<b>Backspace</b>	
	<b>A</b>	<b>F5</b>
	<b>B</b>	<b>F6</b>
	<b>C</b>	<b>F7</b>
	<b>D</b>	<b>F8</b>
	<b>E</b>	<b>(</b>
	<b>F</b>	<b>)</b>
	<b>G</b>	<b>[</b>
	<b>H</b>	<b>]</b>
	<b>I</b>	<b>{</b>
	<b>J</b>	<b>}</b>































Key	Main Function	Fn + Main Function
	<b>K</b>	€
	<b>L</b>	\$
	<b>M</b>	#
	<b>N</b>	%
	<b>O</b>	^
	<b>P</b>	~
	<b>Q</b>	,
	<b>R</b>	`
	<b>S</b>	!
	<b>T</b>	?
	<b>U</b>	\
	<b>V</b>	=
	<b>W</b>	+⏪)
	<b>X</b>	-⏩)
	<b>Y</b>	;
	<b>Z</b>	/
	<b>1</b>	@
	<b>2</b>	,
	<b>3</b>	+
	<b>4</b>	<b>Copy</b>
	<b>5</b>	<b>Del</b>
	<b>6</b>	- (Minus Sign)
	<b>7</b>	<b>Paste</b>
	<b>8</b>	&
	<b>9</b>	*
	<b>0</b>	<b>Start Menu</b>
	. (Point)	<b>Space</b>
	<b>SHIFT</b>	
	<b>Function change</b>	
	<b>Enter</b>	

Table 2-9 Special Assembler Key

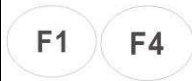

























Assembler Key	Functionality	Definition
	<b>Warm Reset</b>	Press “ <b>F1</b> ” and “ <b>F4</b> ” button simultaneously.
	<b>Cold Reset</b>	Press “ <b>Power</b> ”, “ <b>F1</b> ” and “ <b>F4</b> ” button simultaneously.

Table 2-10 Definition of main Function

















Key	Main Function	Definition
	<b>None</b>	Keep its function by customer demand.
	<b>Main Barcode Scan Key</b>	The  key activates the scan function of SC720.
	<b>Power On/Off</b>	The  key puts the terminal into and wakes the terminal from suspend mode if this key button is not pressed more than <b>two seconds</b> .
	<b>Internet Explorer</b>	Application key 1, <b>User can define F1 function from setting.</b>
	<b>Microsoft WordPad</b>	Application key 2, <b>User can define F2 function from setting.</b>
	<b>Inbox</b>	Application key 3, <b>User can define F3 function from setting.</b>
	<b>File Explorer</b>	Application key 4, <b>User can define F4 function from setting.</b>
	<b>Right</b>	Move the cursor one character to the right. The cursor will move continuously if button is pressed continuously.
	<b>Left</b>	Move the cursor one character to the left. The cursor will move continuously if button is pressed continuously.
	<b>Down</b>	Move the cursor down one row or line The cursor will move continuously if button is pressed continuously.




































Key	Main Function	Definition
	<b>Up</b>	Move the cursor up one row or line The cursor will move continuously if button is pressed continuously.
	<b>Esc</b>	This key performs a cancel action
	<b>Caps</b>	Conversion of the capital & lower case of the alpha key.
	<b>Tab</b>	The “TAB” function is to move the cursor to the next tab stop or the next control (on a form)
	<b>Backspace</b>	“ <b>Backspace</b> ” key, it moves the cursor back one space each time the key is pressed. It deletes the previous character each time it is pressed if you are typing text. The cursor will move continuously if button is pressed continuously.
	<b>A ~ Z</b>	Use the alpha keys for alphabetic characters.
	<b>1 ~ 0</b>	Numeric value keys.
	<b>.</b>	Point key
	<b>SHIFT</b>	While under lower-case character environment, remain "Shift" key pressed then press alpha key(s) to have "upper-case character(s)", and vice versa.
	<b>Function change</b>	The  key is used in combination with other keys to type special characters and perform system functions.
	<b>Enter</b>	This key confirms data entry


#### 2.4.8.1 Special Function by “Fn” + main Function

The “Fn” key is used in combination with other keys to type special characters and perform system functions.


































Table 2-11 Special Function key define



























Key Sequence	Fn + Main Function	Definition
	<b>Increase of Brightness</b>	Increase the LED backlight brightness of display screen(Lighter) You must press  key, then press  key to increase backlight brightness each time.
	<b>Decrease of Brightness</b>	3. Decrease the LED backlight brightness of display screen (darker) 4. You must press  key, then press  key to decrease backlight brightness each time.
	<b>Page Down</b>	3. Move the cursor down one page. The cursor will move continuously if button is pressed continuously. 4. You must press  key, then press  key to cursor down one page each time.
	<b>Page Up</b>	3. Move the cursor up one page. The cursor will move continuously if button is pressed continuously. 4. You must press  key, then press  key to cursor up one page each time.
	<b>F5</b> (Barcode Settings)	Application key 5, <b>User can define F5 function from setting.</b>
	<b>F6</b> (Media Player)	Application key 6, <b>User can define F6 function from setting.</b>
	<b>F7</b> (Calculator)	Application key 7, <b>User can define F7 function from setting.</b>
	<b>F8</b> (Information)	Application key 8, <b>User can define F8</b>

Key Sequence	Fn + Main Function	Definition
		<b>function from setting.</b>
 	(	Enter a ( by pressing  key, then pressing  key.
 	)	Enter a ) by pressing  key, then pressing  key.
 	[	Enter a [ by pressing  key, then pressing  key.
 	]	Enter a ] by pressing  key, then pressing  key.
 	{	Enter a { by pressing  key, then pressing  key.
 	}	Enter a } by pressing  key, then pressing  key.
 	€	Enter a € by pressing  key, then pressing  key.
 	\$	Enter a \$ by pressing  key, then pressing  key.
 	#	Enter a # by pressing  key, then

Key Sequence	Fn + Main Function	Definition
		pressing  key.
	%	Enter a % by pressing  key, then press  key.
	^	Enter a ^ by pressing  key, then press  key.
	~	Enter a ~ by pressing  key, then pressing  key.
	,	Enter a , by pressing  key, then pressing  key.
	,	Enter a , by pressing  key, then pressing  key.
	!	Enter a ! by pressing  key, then pressing  key.
	?	Enter a ? by pressing  key, then pressing  key.
	\	Enter a \ by pressing  key, then pressing  key.
	=	Enter a = by pressing  key, then



Key Sequence	Fn + Main Function	Definition
		press  key.
		Increases device volume, press  key and then press  key.
		Decreases device volume, press  key and then press  key.
		Enter a ; by pressing  key, then pressing  key.
		Enter a / by pressing  key, then pressing  key.
		Enter a @ by pressing  key, then pressing  key.
		Enter a { } by pressing  key, then pressing  key.
		Enter a plus sign by pressing  key, then pressing  key
	<b>Copy</b>	3. It is to do “Paste” function. 4. To do this function by pressing  key first, and then pressing  key each time.
	<b>Del</b>	3. The “Delete” function delete the next character forward each time. 4. To do “Delete” function by pressing

Key Sequence	Fn + Main Function	Definition
		 key first, and then pressing  key each time.
 	– (Minus Sign)	Enter a minus sign by pressing  key, then pressing  key.
 	Paste	3. Copy action. 4. You must press  key, then press  key to do “Copy” action each time.
 	&	Enter an AND sign by pressing  key, then pressing  key.
 	*	Enter an asterisk sign by pressing  key first, and then pressing  key.
 	Start Menu	3. It displays the Start menu. 4. To do this function by pressing  key first, and then pressing  key each time.
 	Space	3. The “Space” function is to move the cursor one space. 4. To do this function by pressing  key first, and then pressing  key each time.

## 2.4.9 Using the Ear/Microphone

Connect Ear/Microphone to PDT earphone jack connector. The PDT is not built in microphone; if you like to record the voice, you have to use Ear/Microphone.



Figure 2-17 Ear/Microphone

## 2.5 Navigating the Display

### 2.5.1 Setting Time and Date

In the **Date/Time** options, you can change the year, month, date, time, time zone, or select automatic adjust for Daylight Saving Time. To set or change the date and time:

1. Select **Start > Settings > Control Panel > Date/Time**
2. To change the year, select the year or open a numeric dial. Select the up arrow to increase the value; select the down arrow to decrease the value. Or you can type a new value in the field.
3. Select the month to open a pull-down list of months or press the arrow buttons to either side of the month to increase or decrease the month.

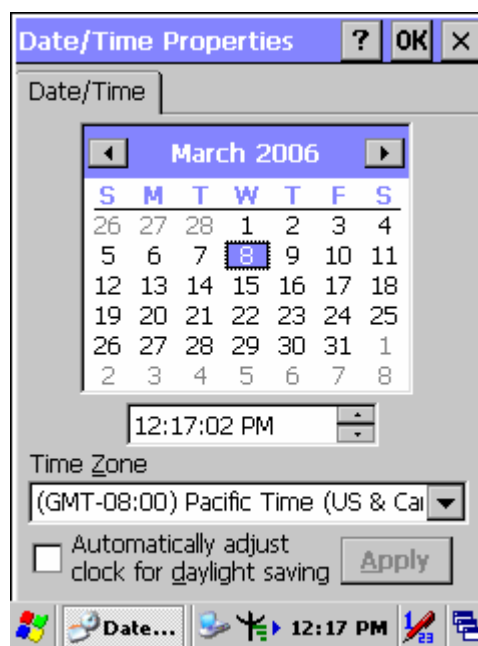


Figure 2-18 **Date/Time** properties

4. To change the time, select the hour, minute, seconds, or AM/PM and select the up arrow to increase the value; select/tape the down arrow to decrease the value. Or you can type a new value in the field.
5. Select your correct time zone from the pull-down list.
6. To automatically adjust the clock for Daylight Saving Time, enable the checkbox at the bottom of the screen.
7. Select **Apply** to make save your changes [and make additional modifications] or select **OK** to exit the **Date/Time** settings.

### 2.5.2 Entering the Data

To select and open programs, select **Start > Programs** from the task bar to open a list of available programs. Or if the program has a icon on the desktop, double-tap to open it.

There are several ways to enter data on the PDT once in an application:

- Use the keypad to enter alpha-numeric characters, Refer to “2.4.7 Using the

### SC700 keypad’.

- Use the stylus on the touch screen.
- Select text in the same way you select the text on a PC. Use the stylus to highlight the desired text by dragging the stylus across the desired text, double-tapping to select one word and triple-tapping to select an entire line/paragraph. Refer to “**2.5 Navigating the Display**” starting.
- Use the soft input panel (digital keyboard) with the stylus.
- Use the bar code scanning to enter data. Press the trigger or “Barcode Scan” key to initiate a scan. The scanned data will enter the current application’s open file. Refer to “**2.5.7 Reading barcodes, 1D laser version**” starting for more information on using a scanner.

For more information on factory installed applications, Refer to Chapter 4 “**Software Programs**”.

## 2.5.3 The Command Bar

Use the **Command** bar at top of the screen to perform tasks in programs, such a opening a file, or editing a file.

## 2.5.4 The Task Bar

The **Task** bar at the bottom of the screen displays the icon, an icon for the active program, the current time, and system icons for utilities loaded in memory. The **Task** bar includes menu names, buttons, and the keyboard icon, which opens and closes the soft input panel (SIP). The **Task** bar allows you to select and close programs. Refer to Figure 2-19 to view the **Task** bar.

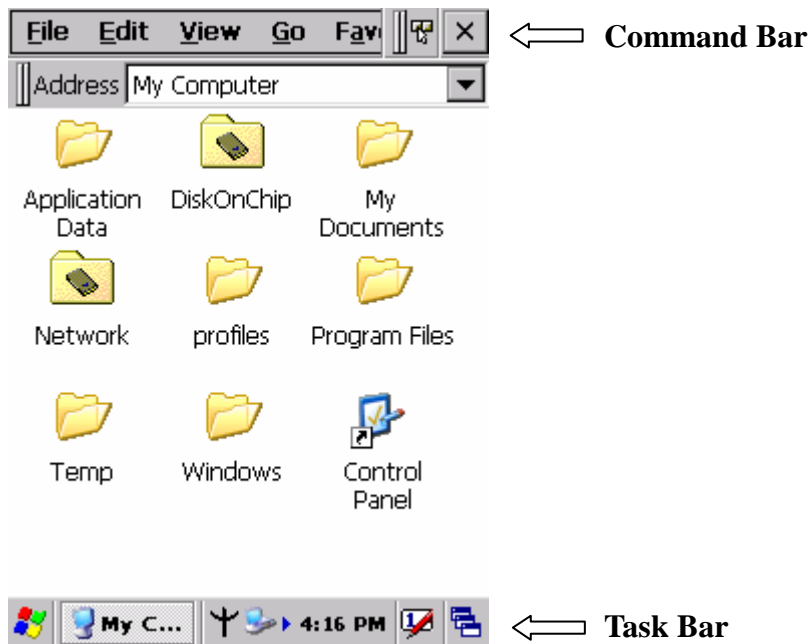


Figure 2-19 Task Bar & Command Bar

## 2.5.5 The Soft Keypad

In applications that accept keypad input, the soft input panel (**SIP**) can be used to enter data using the stylus. The **SIP** is digital, QWERTY-style keyboard.

To open the **SIP**, tap the **keyboard** icon to open the menu and select **Hide Input Panel** to close the keyboard.

Use the stylus to select letters, numbers, or symbols from the **Soft Input Panel** for the current application.

## 2.5.6 Setting Up Wireless LAN RF

- 1) Press “Start”---“Setting”---“Control Panel” --- “WLAN Manager”.
- 2) Launch the WLAN Manager to **Enable** WLAN device.
- 3) Into AP Browser tab, tap Scan button to renew the network.
- 4) Select a network, tap the Join button or double tap it for more options.
- 5) Press OK to save all your Wireless LAN settings.
- 6) Tap the “Exit” button to **Disable** WLAN device.

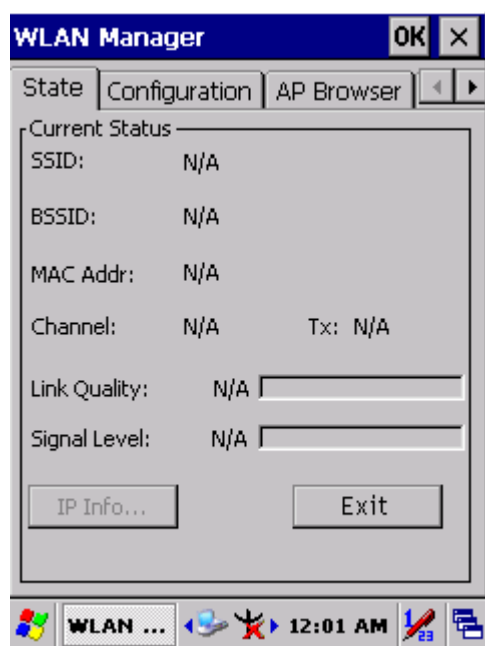


Figure 2-20 WLAN Manager

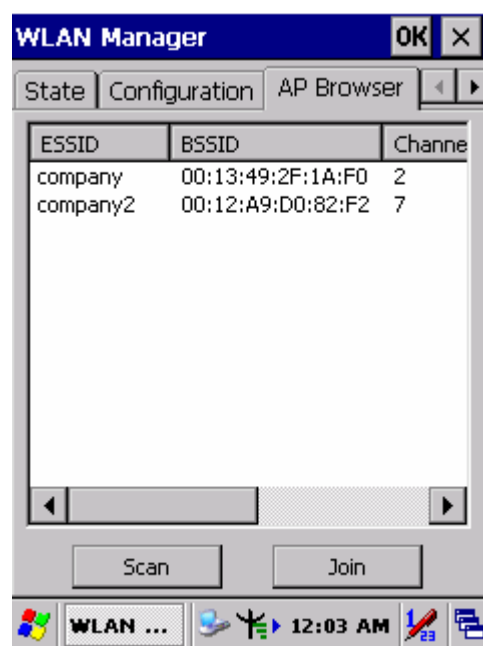





Figure 2-21 WLAN Manager

### Note:

	WLAN is not connecting to network.
	WLAN is no signal.

	WLAN signal is Low.
	WLAN signal is In General.
	WLAN signal is Good.

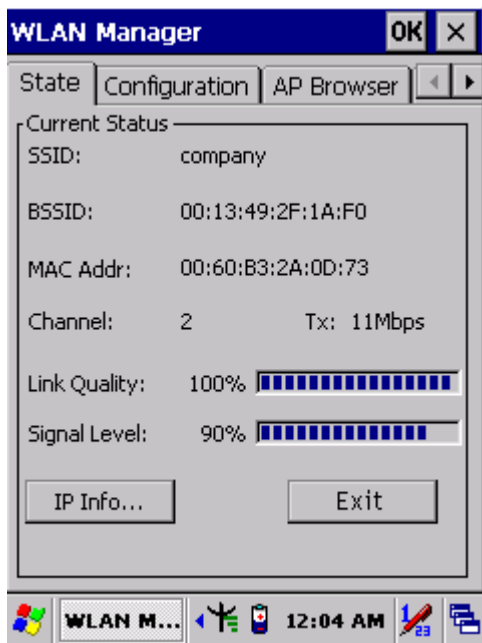


Figure 2-22 WLAN Manager

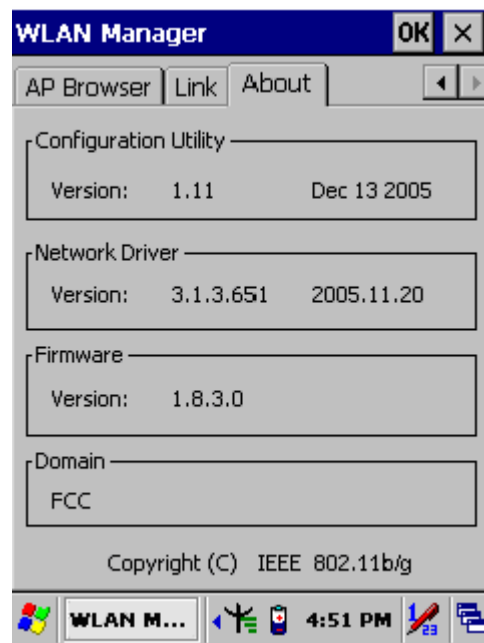


Figure 2-23 WLAN Manager

### 2.5.7 Reading barcodes, 1D laser version.

To use the scanning function, complete the following steps:

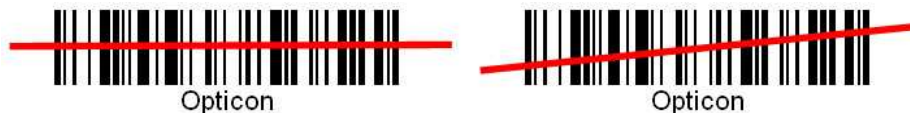
1. If you have not already done so, remove the protective plastic film before using devices equipped with a 1D laser bar code reader.
2. Select **Start > Setting > Control Panel > Barcode Setting**; complete all configurations following all description of **3.2.1 BarCode Setting**.
3. Run the **WordPad** software program.
4. Press one of the three barcode reader trigger buttons.
5. Aim the scanning beam at the center of barcode.



#### 6. Good scanning position.

The reading range is from 40 to 300mm distance.

- 1) Decrease the scanning distance to the bar code when scanning small barcodes.
- 2) Increase the scanning distance from the bar code when scanning large barcodes
- 3) The scanning area is visible by a red laser beam.



#### 7. Bad scanning position.

- 1) Make sure that the laser beam sweeps across whole bar code.
- 2) Scanning operations may fail if the laser beam is positioned as below.



8. upon reading a barcode, the red LED indicator turns on until the trigger is release or after five seconds. The green LED and the beep tone indicates a good read.

**Note:** This product scans using laser light. Never look directly into the laser light or shine the laser light into the eyes.

### 2.5.8 Reading barcodes, 2D CMOS version.

The 2D CMOS version can read both 1D and 2D bar codes. To use the scanning function, complete the following steps:

1. If you have not already done so, remove the protective plastic film before using devices equipped with a 2D CMOS bar code reader.
2. Select **Start > Setting > Control Panel > 2DBarcode**; complete all configurations



following all description of **Appendix A. 2D Barcode Setting.**

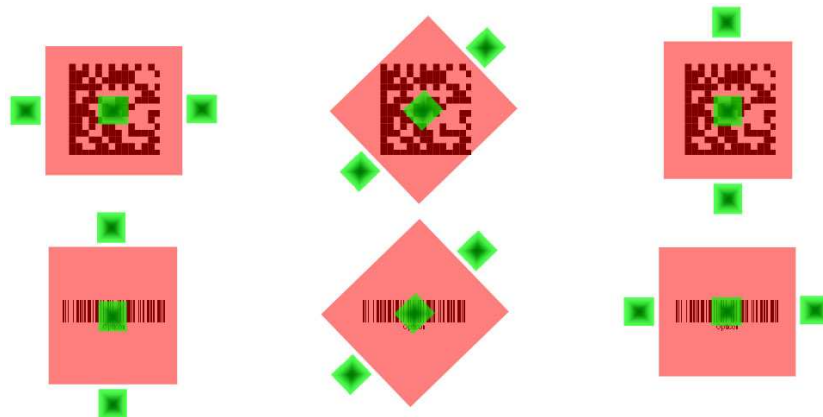
3. Run the **WordPad** software program.
4. Press one of the three bar code reader trigger buttons.
5. Aim the scanning beam at the center of bar code. To assists in aiming, there are 4 green aiming light spots. The bar code should be between the outside 2 green spots. The scanner is in focus in case the center 2 green spots joins into 1 spot.



5. Good scanning position.

The reading range is from 45 to 260mm distance.

- 1) Decrease the scanning distance to the bar code when scanning small barcodes.
- 2) Increase the scanning distance from the bar code when scanning large barcodes
- 3) The bar code should be located within the green light spots
- 4) The scanning area is visible by a red illumination area.



6. Bad scanning position.

- 1) Make sure that the laser beam sweeps across whole barcode.
- 2) Scanning operations may fail if the illumination beam is positioned as below.



7. Upon reading a bar code, the red LED indicator turns on until the trigger is release or after five seconds. The green LED and the beep tone indicates a good read.



### **2.5.8 Help**

To tap “?” can get help information for each program.

## 2.6 Power management

### 2.6.1 Suspend Mode

The PDT will go into a suspend mode when it is idle for a period of time. The idle duration can be customized using the **Power** control panel (refer to Figure “**Schemes Tab**”)

Suspend mode works and looks just like you have turned the unit off. Press the  key to suspend the PDT, Press the  key again for the PDT to resume its Previous state.

Use the **Battery power** control panel to set the duration to switch state to Suspend mode when system using battery power. This will save battery power when PDT is not in use.

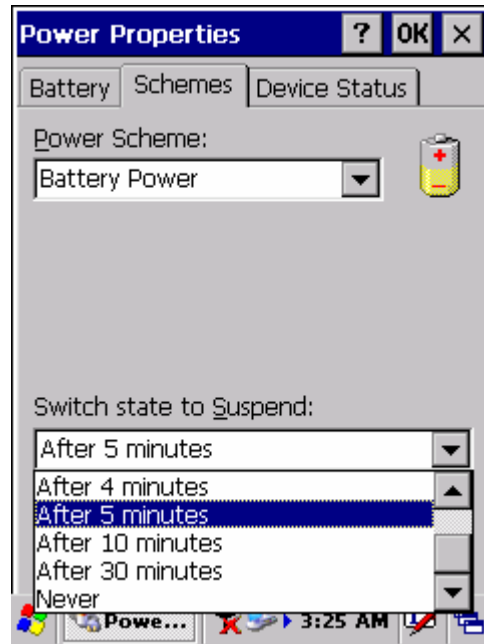


Figure 2-24 Schemes Tab

### Suspending:

The following conditions will suspend:

- Press <Power> key while the unit is on.
- The duration timer of item “**Switch state to Suspend**” expires, which indicates that there has been no use for a specified of time.
- The battery pack is completely discharged.
- Tap **Start > Suspend**



Tap here to let PDT enter into suspend mode

## 2.6.2 Resuming

Use one of following methods to resume (wake up the PDT):

- Press <Power> key to suspend or resume (wake up).
- Put the PDT into a dock.

When a battery pack completely discharges while the unit is in suspend mode, the PDT remains suspended until discharged battery condition is corrected.

## 2.7 Resetting the PDT

### 2.7.1 Software (Warm) Reset

A warm reset is a transition from the on, idle, or suspend power state that close all applications, clears the working RAM, but preserves the file system.

**Reason to Warm Reset:** If an application “hangs”, initiate a warm reset to terminate the application only.

**Process to Warm Reset:** To a warm reset, press “F1” and “F4” button simultaneously.

#### After Warm Reset:

- The desktop appears with the application shortcuts on the screen.
- The custom settings in the registry are persistent.

### 2.7.2 Cold Reset

- 1) You can use Cold Reset to initiate device if WINCE.NET OS lock up or Warm Reset still can't work
- 2) To perform Cold Reset, press “Power”, “F1” and “F4” button simultaneously.
- 3) Device will initiate boot up after Cold Reset.

**CAUTION:** Only use the Warm Reset. Try warm reset before you initiate Cold Reset. All applications will be Closed and working RAM and all files will be cleared if you initiate the Cold Reset. It's better usually to back up your files to Flash ROM, Flash Card or PC.

# Chapter 3.Setting

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## 3.1 Introduction

To view available options for PDT's setting, tap **Start > Settings**. Then, there are three items inside **Settings**: “**Control Panel**”, “**Network and Dial-up**” and “**Taskbar and Start**”.

## 3.2 Control Panel

To view the **Control Panel** and settings you can modify by tapping **Start > Settings > Control Panel**.



Figure 3-1 Control Panel

### 3.2.1 BarCode Setting

**CAUTION :** Please do not enter into any Barcode Application Program before settings completing this Barcode.



There are three Tabs for scanner configuration setting: “**Basic**” Tab, “**Code Configure**” Tab and “**Code ID**” Tab. In addition, there is “**BarCode Setup**” for the “Code Configure” Tab.

#### 3.2.1.1 “Basic” Tab

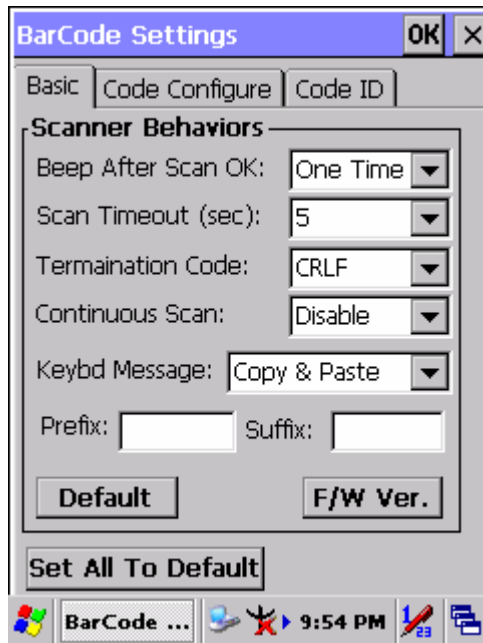


Figure 3-2 Basic Tab

Table 3-1 Basic Explaining

Field Name	Function Explaining	
Beep After Scan OK	Select the numbers of beep tone after scan OK.	
	None	After scanning the barcode, do not give out beep sound.
	<u>One Time</u>	After scanning the barcode, give out beep one time.

Field Name	Function Explaining	
	Two Times	After scanning the barcode, give out beep two times.
<b>Scan Timeout (sec)</b>	Select the scanning timeout duration (in seconds) from this pull-down list. <2 ~ 20 sec, <u>Default: 5</u> >	
<b>Termination Code</b>	None	After showing barcode, do not action.
	<u>CRLF</u>	After showing the barcode, jump to next row.
	Space	After showing the barcode, jump one unit.
	Tab	After showing the barcode, jump a section.
<b>Continuous Scan</b>	<u>Disable</u>	Disable this functionality.
	1 ~5 sec	Alternate second number of Continuous Scan.
<b>Keybd Message</b>	Select a method based upon the barcode scanning application you will use.	
	Type Writing	A unit continues a unit, fast showing barcode number.
	<u>Copy &amp; Paste</u>	Once show barcode number.
	Disable	Not show the barcode number.
<b>Prefix</b>	Type the desired label prefix in this text box	
<b>Suffix</b>	Type the desired label suffix in this text box	
<b>Default</b>	Press “Default” button to reset all configuration setting of “Basic” Tab into default values.	
<b>F/W ver.</b>	Decoder firmware version.	
<b>Set All To Default</b>	Press “Set All To Default” button to reset all configuration setting of “Basic” Tab, “Code Configure” Tab, “Code ID” Tab and all barcode of “BarCode Setup” into default values.	

### 3.2.1.2 “Code Configure” Tab:

Select the barcode symbologies you plan to scan from the list. Tap to enable/disable the desired symbologies.

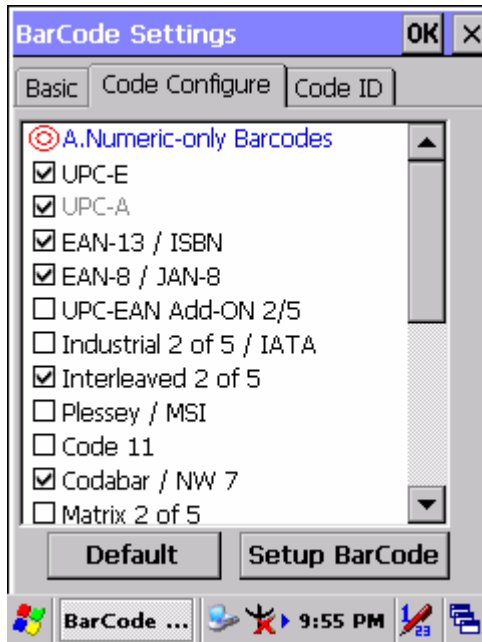


Figure 3-3 Code Configure Tab

Table 3-2 Code Configure Explaining

Barcode Symbology		Explaining
<b>Type A. Numeric-only Barcodes</b>		
<input checked="" type="checkbox"/>	UPC-E	Compressed version of UPC code for use on small products.
<input checked="" type="checkbox"/>	UPC-A	Universal product code seen on almost all retail products in the USA and Canada.
<input checked="" type="checkbox"/>	EAN-13 / ISBN	<b>EAN-13:</b> European Article Numbering international retail product code. <b>ISBN:</b> Special use of the EAN-13 symbol to used internationally to mark books.
<input checked="" type="checkbox"/>	EAN-8 / JAN-8	Compressed version of EAN code for use on small products.
<input type="checkbox"/>	UPC-EAN Add-ON 2/5	UPC-A, UPC-E, EAN-13, and EAN-8 may all include an additional barcode to the right of the main barcode. This second barcode, which is usually not as tall as the primary barcode, is used to encode additional information for newspapers,



		books, and other periodicals.
<input type="checkbox"/>	Industrial 2 of 5 / IATA	Older code not in common use.
<input checked="" type="checkbox"/>	Interleaved 2 of 5	Compact numeric code, widely used in industry, air cargo, other applications.
<input type="checkbox"/>	Plessey / MSI	<b>Plessey:</b> Older code commonly used for retail shelf marking. <b>MSI:</b> Variation of the Plessey code commonly used in USA.
<input type="checkbox"/>	Code 11	Used primarily for labeling telecommunications equipment.
<input checked="" type="checkbox"/>	Codabar / NW 7	Older code often used in library systems, sometimes in blood bank.
<input type="checkbox"/>	Matrix 2 of 5	Used in miscellaneous industrial applications, and mechanical numbering systems.
<b>Type B. Alphanumeric Barcodes</b>		
<input checked="" type="checkbox"/>	Code 39 / Code32	General-purpose code in very wide use world-wide.
<input checked="" type="checkbox"/>	Code 93	Compact code similar to Code 39.
<input checked="" type="checkbox"/>	Code128 / UCC EAN128	Very capable code, excellent density, high reliability; in very wide use world-wide. Widely used data formatting model for Code 128
<b>Type C. Others Barcodes</b>		
<input type="checkbox"/>	China Post	Used by China Postal Service for automated mail sorting.
<input type="checkbox"/>	Code 4	---
<input type="checkbox"/>	GTIN	Global Trade Identification Number
<input type="checkbox"/>	Korea Code 3 of 5	---
<input type="checkbox"/>	RSS	Reduced Space Symbology

### 3.2.1.3 “Code ID” Tab:

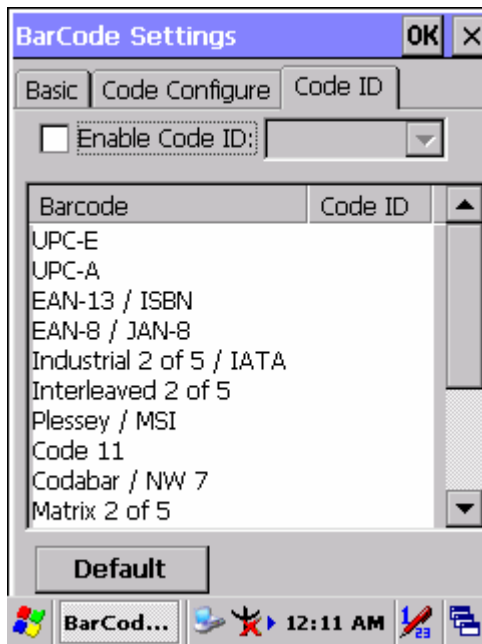


Figure 3-4 Code ID Tab

Table 3-3 Code ID Explaining

Code ID is added into prefix of the barcode and let user identify which kind of barcode being scanned.	
<input type="checkbox"/> Enable Code ID	Enable this functionality.
Set 1 ~ Set 5	Select one default value by Set 1 ~ Set 5. (See the “ <a href="#">Table 3-4 Code ID Set1-Set5 Table</a> ”)
User Define	Establish number by oneself.
Barcode List	Set 1 ~ Set 5: defaults setting. User Define: select barcode to define.
Default	Press “Default” button to reset all configuration setting of “Code ID” Tab into default values.

Table 3-4 Code ID Set1-Set5 Table

	Set 1	Set 2	Set 3	Set 4	Set 5
<b>UPC-E</b>	S	E	C	E	E
<b>UPC-A</b>	M	A	A	A	E
<b>EAN-13 / ISBN</b>	M	A	A	F	E
<b>EAN-8 / JAN-8</b>	P	B	B	F	E
<b>Industrial 2 of 5 / IATA</b>	C	H	H	H	S
<b>Interleaved 2 of 5</b>	D	I	Z	I	S

	Set 1	Set 2	Set 3	Set 4	Set 5
<b>Plessey / MSI</b>	V	V	D	P	M
<b>Code 11</b>	J	J	J	J	J
<b>Codabar / NW 7</b>	F	N	X	N	F
<b>Matrix 2 of 5</b>	E	G	G	G	S
<b>Code 39 / Code 32</b>	A	C	Y	M	A
<b>Code 93</b>	I	L	L	L	G
<b>Code 128</b>	H	K	K	K	C
<b>Code 4</b>	U	U	U	U	U
<b>Korea Code 3 of 5</b>	R	R	R	R	R
<b>RSS</b>	R	R	R	R	R
<b>UCC128 / EAN128</b>	W	W	W	W	W

### 3.2.1.4 BarCode Setup

- A. First select barcode type then select barcode to setting.
- B. Press **“Default”** button to reset all configuration setting of this barcode into default values.
- C. Press **“Apply”** button to be decided setting of this barcode.

*Please see 3.2.2 Symbolologies List for more detail information of each Barcode.*

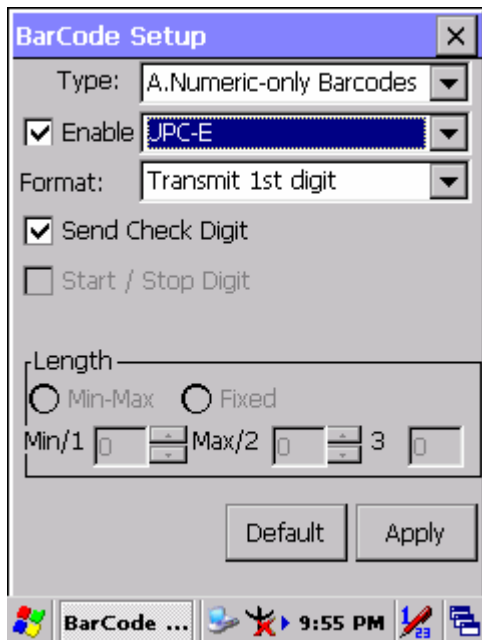


Figure 3-5 BarCode Setup

### 3.2.2 Symbologies List

#### A Type -- Numeric-only Barcodes

##### 3.2.2.1 UPC-E

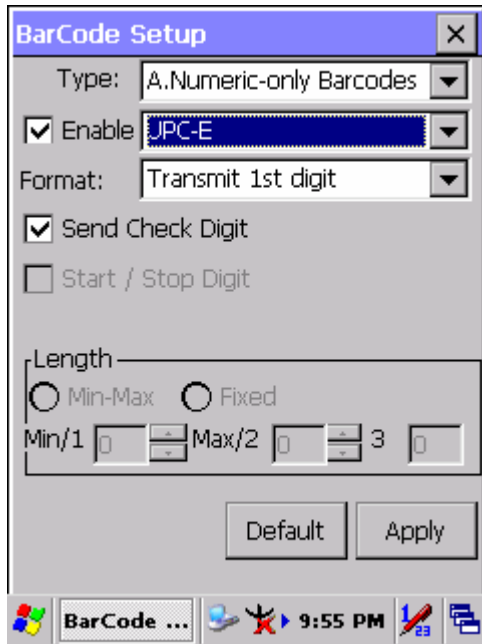


Figure 3-6 UPC-E

Table 3-5 UPC-E Explaining

Item		Explaining
Format	Ignore 1st digit	Do not transmit 1st digit by barcode.
	<b>Transmit 1st digit</b>	Transmit 1st digit by barcode.
<input checked="" type="checkbox"/>	Send Check Digit	Whether send check digit by barcode.

### 3.2.2.2 UPC-A

UPC-A movements together with EAN-13, so only Enable EAN-13 then UPC-A will be Enable, too.

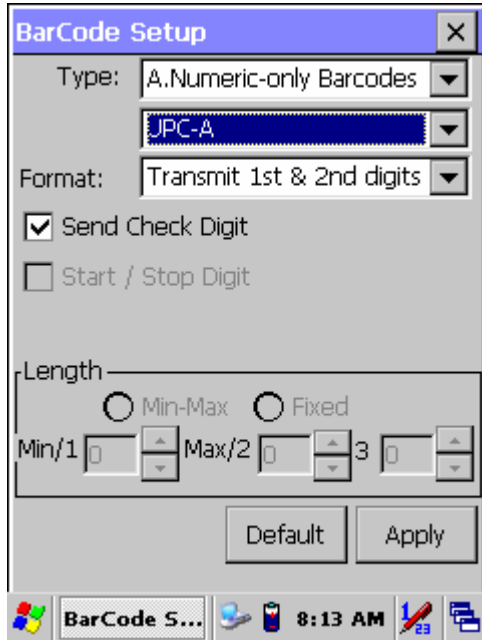


Figure 3-7 UPC-A

Table 3-6 UPC-A Explaining

	Item	Explaining
Format	Ignore 1st & 2nd digits	Do not transmit 1st digit by barcode.
	Transmit 1st digit	Transmit 1st digit by barcode.
	Transmit 2nd digit	Transmit 2nd digit by barcode.
	<b>Transmit 1st &amp; 2nd digits</b>	Transmit 1st & 2nd digits by barcode.
<input checked="" type="checkbox"/>	Send Check Digit	Whether send check digit by barcode.

### 3.2.2.3 EAN-13 / ISBN

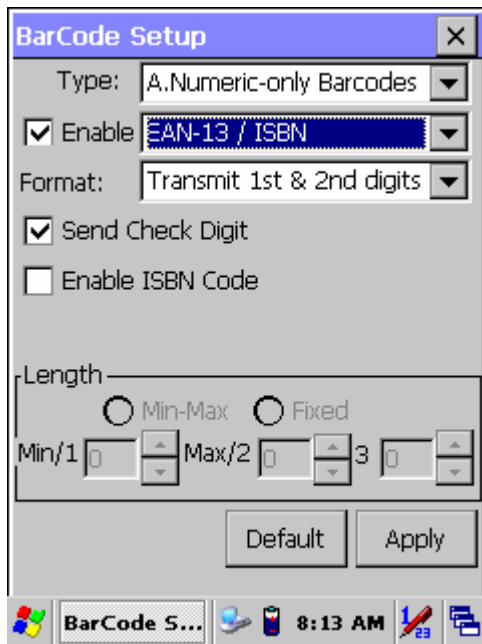


Figure 3-8 EAN-13 / ISBN

Table 3-7 EAN-13 / ISBN Explaining

Item		Explaining
Format	Ignore 1st & 2nd digits	Do not transmit 1st digit by barcode.
	Transmit 1st digit	Transmit 1st digit by barcode.
	Transmit 2nd digit	Transmit 2nd digit by barcode.
	<b>Transmit 1st &amp; 2nd digits</b>	Transmit 1st & 2nd digits by barcode.
<input checked="" type="checkbox"/> Send Check Digit		Whether send check digit by barcode.
<input type="checkbox"/> Enable ISBN Code		Whether use this ISBN Code.

### 3.2.2.4 EAN-8/JAN-8

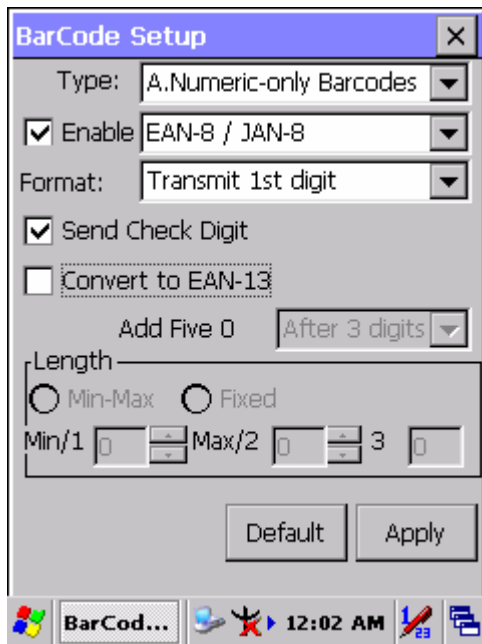


Figure 3-9 EAN-8/JAN-8

Table 3-8 EAN-8/JAN-8 Explaining

Item		Explaining	
Format	Ignore 1st digit	Do not transmit 1st digit by barcode.	
	<b>Transmit 1st digit</b>	Transmit 1st digit by barcode.	
<input checked="" type="checkbox"/>	Send Check Digit	Whether send check digit by barcode.	
<input type="checkbox"/>	Convert to EAN-13	When this option is selected the scanner will convert EAN-8 to EAN-13 by transmitting five zeroes ...	
	Add five 0	Ahead of code	Add five zeroes at prefix of the barcode.
		<b>After 3 digits</b>	Add five zeroes after 3rd digits.

### 3.2.2.5 UPC-EAN Add on 2/5

- A. UPC-E, UPC-A, EAN-13 / ISBN and EAN-8 / JAN-8 may all include an additional barcode to the right of the main barcode.
- B. This barcode will show primary & additional code together.
- C. So the UPC-EAN Add-ON 2/5 code is unable to use alone, must operate in UPC-E or UPC-A or EAN-13 / ISBN or EAN-8 / JAN-8.



Figure 3-10 UPC-EAN Add on 2/5

Table 3-9 UPC-EAN Add-On 2/5 Explaining

Item	Explaining
<input type="checkbox"/> Only read the code with Addon 2/5	Only reads the codes that have addenda.



### 3.2.2.6 Industrial 2 of 5 / IATA

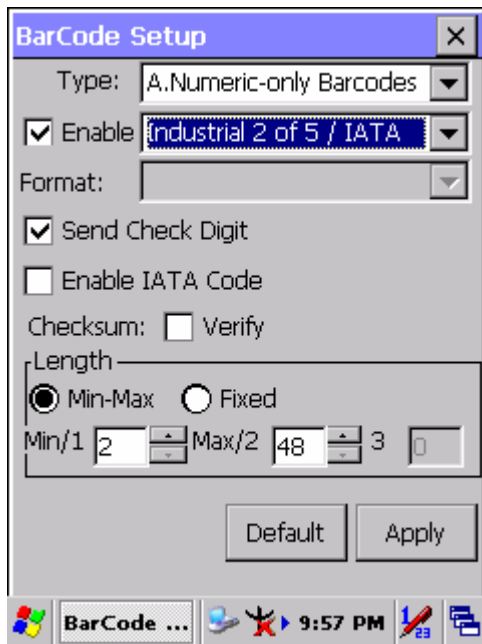


Figure 3-11 Industrial 2 of 5 / IATA

Table 3-10 Industrial 2 of 5 / IATA Explaining

Item		Explaining
<input checked="" type="checkbox"/>	Send Check Digit	Whether send check digit by barcode.
<input type="checkbox"/>	Enable IATA Code	Whether use this IATA Code.
Checksum	<input type="checkbox"/> Verify	Whether verify checksum by barcode.
Length	<input checked="" type="radio"/> Min-Max (Default: 2 / 48)	Min Length can be set from 2 to 48
		Max Length can be set from 2 to 48
	<input type="radio"/> Fixed	Length 1 can be set from 2 to 48
		Length 2 can be set from 2 to 48
		Length 3 can be set from 2 to 48

### 3.2.2.7 Interleaved 2 of 5

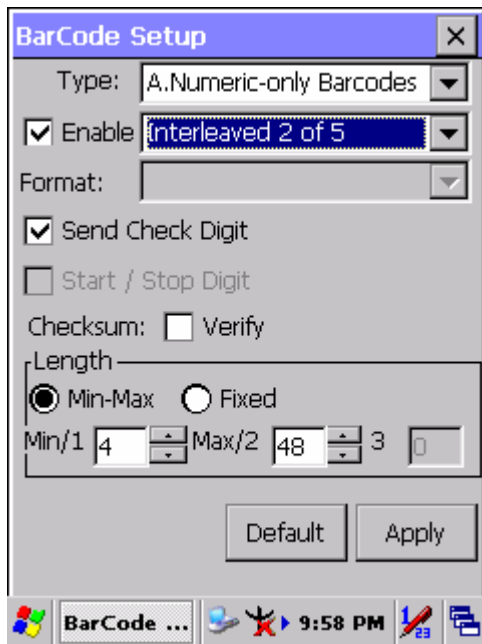


Figure 3-12 Interleaved 2 of 5

Table 3-11 Interleaved 2 of 5 Explaining

Item		Explaining
<input checked="" type="checkbox"/>	Send Check Digit	Whether send check digit by barcode.
Checksum	<input type="checkbox"/> Verify	Whether verify checksum by barcode.
Length	<input checked="" type="radio"/> Min / Max (Default: 4 / 48)	Min Length can be set from 4 to 48
		Max Length can be set from 4 to 48
	<input type="radio"/> Fixed	Length 1 can be set from 4 to 48
		Length 2 can be set from 4 to 48
		Length 3 can be set from 4 to 48

### 3.2.2.8 Plessey / MSI

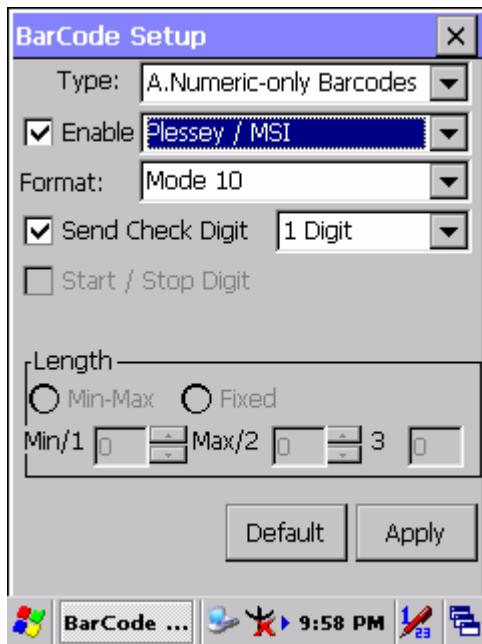


Figure 3-13 Plessey / MSI

Table 3-12 Plessey / MSI Explaining

Item		Explaining
Format	<b>Mode 10</b>	Checksum mode for this barcode.
	Mode 10-10	
	Mode 11-10	
<input checked="" type="checkbox"/> Send Check Digit	<b>1 Digit</b>	Whether send check digit by barcode.
	<b>1 Digit</b>	Check 1 digit & send by checksum.
	2 Digits	Check 2 digits & send by checksum.

### 3.2.2.9 Code11

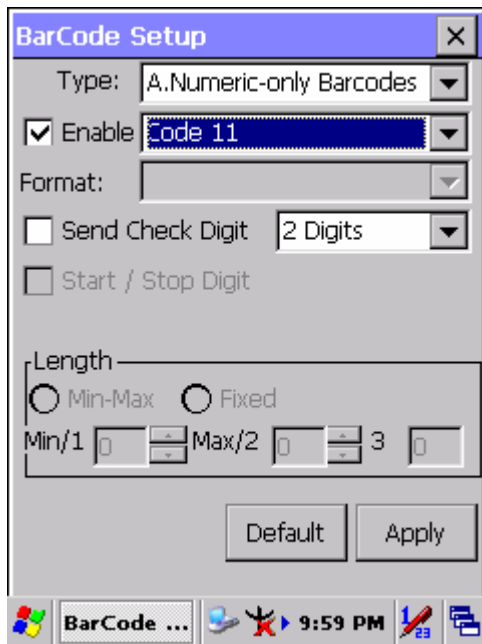


Figure 3-14 Code 11

Table 3-13 Code 11 Explaining

Item	Explaining
<input type="checkbox"/> Send Check Digit	Whether send check digit by barcode.
1 Digit	Check 1 digit & send by checksum.
<b>2 Digits</b>	Check 2 digits & send by checksum.

### 3.2.2.10 Codabar / NW7

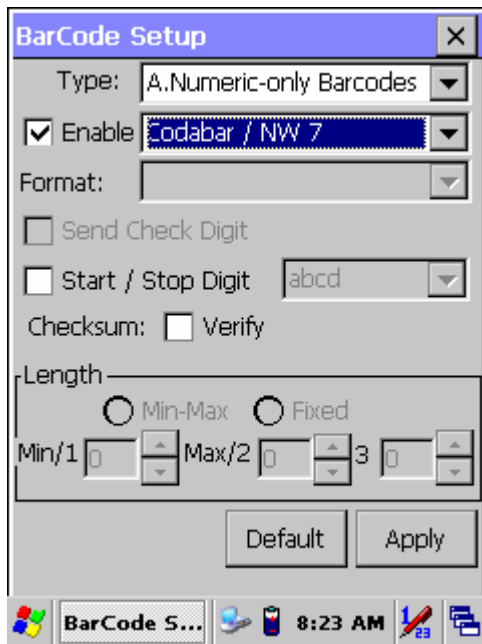


Figure 3-15 Codabar / NW7

Table 3-14 Codabar / NW7 Explaining

Item		Explaining
<input type="checkbox"/> Start / Stop Digit	ABCD	Whether transmit Start & Stop Digit.  Start / Stop transmit type
	<b>abcd</b>	
	TN*E	
	tn*e	
Checksum	<input type="checkbox"/> Verify	Whether verify checksum by barcode.

### 3.2.2.11 Matrix 2 of 5

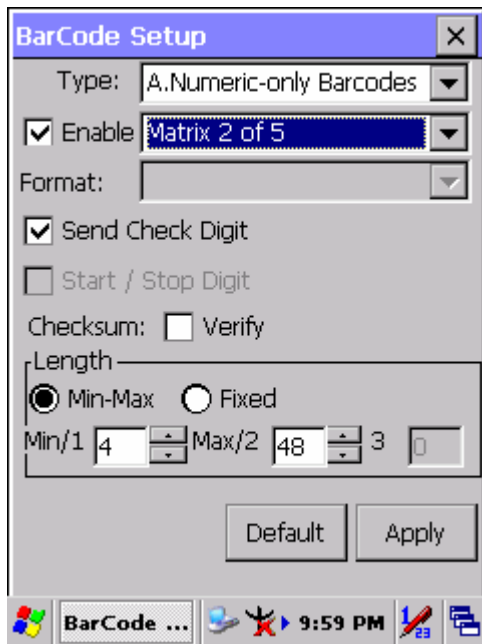


Figure 3-16 Matrix 2 of 5

Table 3-15 Matrix 2 of 5 Explaining

Item		Explaining
<input checked="" type="checkbox"/>	Send Check Digit	Whether send check digit by barcode.
Checksum	<input type="checkbox"/> Verify	Whether verify checksum by barcode.
Length	<input checked="" type="radio"/> Min-Max (Default: 4 / 48)	Min Length can be set from 4 to 48
		Max Length can be set from 4 to 48
	<input type="radio"/> Fixed	Length 1 can be set from 4 to 48
		Length 2 can be set from 4 to 48
		Length 3 can be set from 4 to 48

## B Type -- Alphanumeric Barcodes

### 3.2.2.12 Code39 / Code32

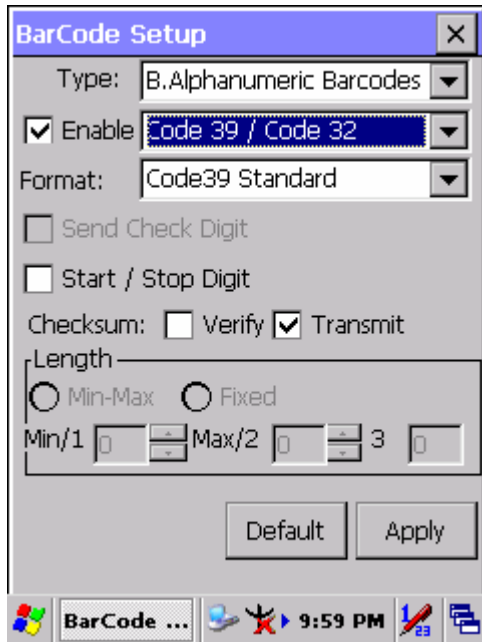


Figure 3-17 Code39 / Code32

Table 3-16 Code39 / Code32 Explaining

Item		Explaining
Format	<b>Code39 Standard</b>	Enable Code 39 Standard characters
	Code39 Full ASCII	Enable Code 39 Full ASCII character
	Code32	Enable Code 32
<input type="checkbox"/> Start / Stop Digit		Whether transmit Start & Stop Digit.
Checksum	<input type="checkbox"/> Verify	Whether verify checksum by barcode.
	<input checked="" type="checkbox"/> Transmit	Whether transmit checksum by barcode.

### 3.2.2.13 Code93

The barcode do not have setting.

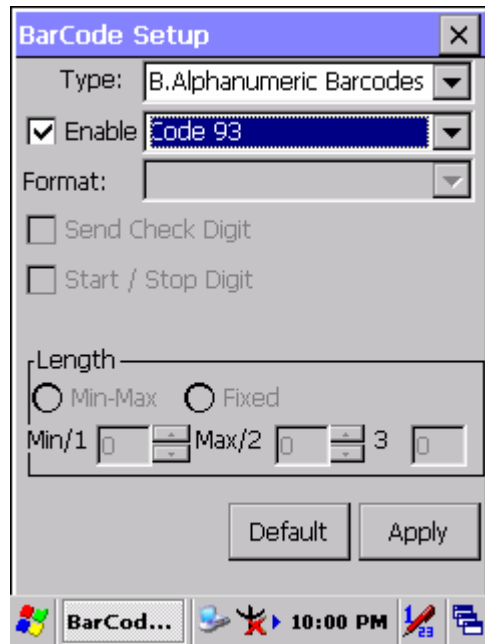


Figure 3-18 Code93

### 3.2.2.14 Code128 / UCC EAN128

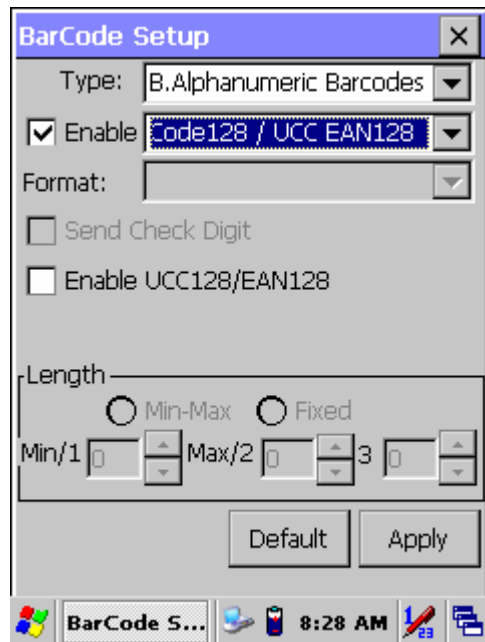


Figure 3-19 Code 128 / UCC EAN128

Table 3-17 Code128 / UCC EAN128 Explaining

Item	Explaining
<input type="checkbox"/> Enable UCC128/EAN128	Enable UCC128/EAN128.