

# SC600 User's Manual

WinCE. NET Rugged Portable Data Terminal

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# Chapter 1. Introduction

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Congratulations on purchasing the SC600 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:

- λ Intel® XScale™ PXA255 400MHz 32 bits RISC Processor
- λ Windows® CE .NET 4.2 Operating System
- λ 64/128/256 MB SDRAM & 64/128 MB Flash ROM
- λ Open Architecture: User Accessible SD/CF/PCMCIA Slot
- λ 240 x 320, 3.5" Color TFT Display with Touch Panel
- λ 1 Numeric Keyboards with LED backlight
- λ 802.11b Radio Support (Bluetooth Optional)
- λ Optionally Built-in GSM/GPRS Module
- λ Integrated 1D or 2D Barcode Scanner

## 1.1 About this Manual

The following chapters contained in this manual are:

Chapter 1: Introduction --- Present the 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 by adjusting settings.

Chapter 4: Communication --- Describe how to use all kinds of communication of the PDT.

Chapter 5: Software Application --- Offer the procedures of Software implement.

## 1.2 User and Product Safety

Do not stare into the laser 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, for such contact would irritate the skin.

Although the SC600 PDT has been passed the test of IP54 standard for water and dust resistance, avoid prolonged exposure to rain or other concentrated moisture. For these conditions exceed the IP54 standard, and could result in water or other

contaminants entering into the PDT.

Use only the 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.

Be sure that only authorized supplier are allowed to disassemble and reassemble the device. If the device or parts has been damaged due to any wrong handling, shall void the product and parts warranty.

Always make back-up copies of all important data. Easy done by using a cable or Single Cradle (sold by optional) to transfer data to the computer. Manufacturer is not liable for any data damages or data loss caused by deletion or corruption by using of this device, or due to the drained battery.

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 place the battery pack in fire or heat the battery.
- ⌚ Do not install the battery pack backwards so the polarity is reserved.
- ⌚ 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, strike the battery pack with a hammer, step on the battery pack or otherwise put it to strong impacts or shocks.
- ⌚ Do not solder directly 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 devices, 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.

## **1.3 Radio Frequency Interference Information**

### **1.3.1 FCC Radiation Exposure 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:**

**FCC Radiation Exposure Statement:**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

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

**Caution:** Please also note that SC600 is limited in CH1~CH11 for 2.4GHz by specified firmware controlled in U.S.A.  
The FCC ID of SC600 is TQ2-SC600PDT-BW



## 1.4 Product Labeling

The PDT has several labels as showed in Figure 1-1 and 1-2.

Figure 1-1 **Product Labeling (Front side view)**

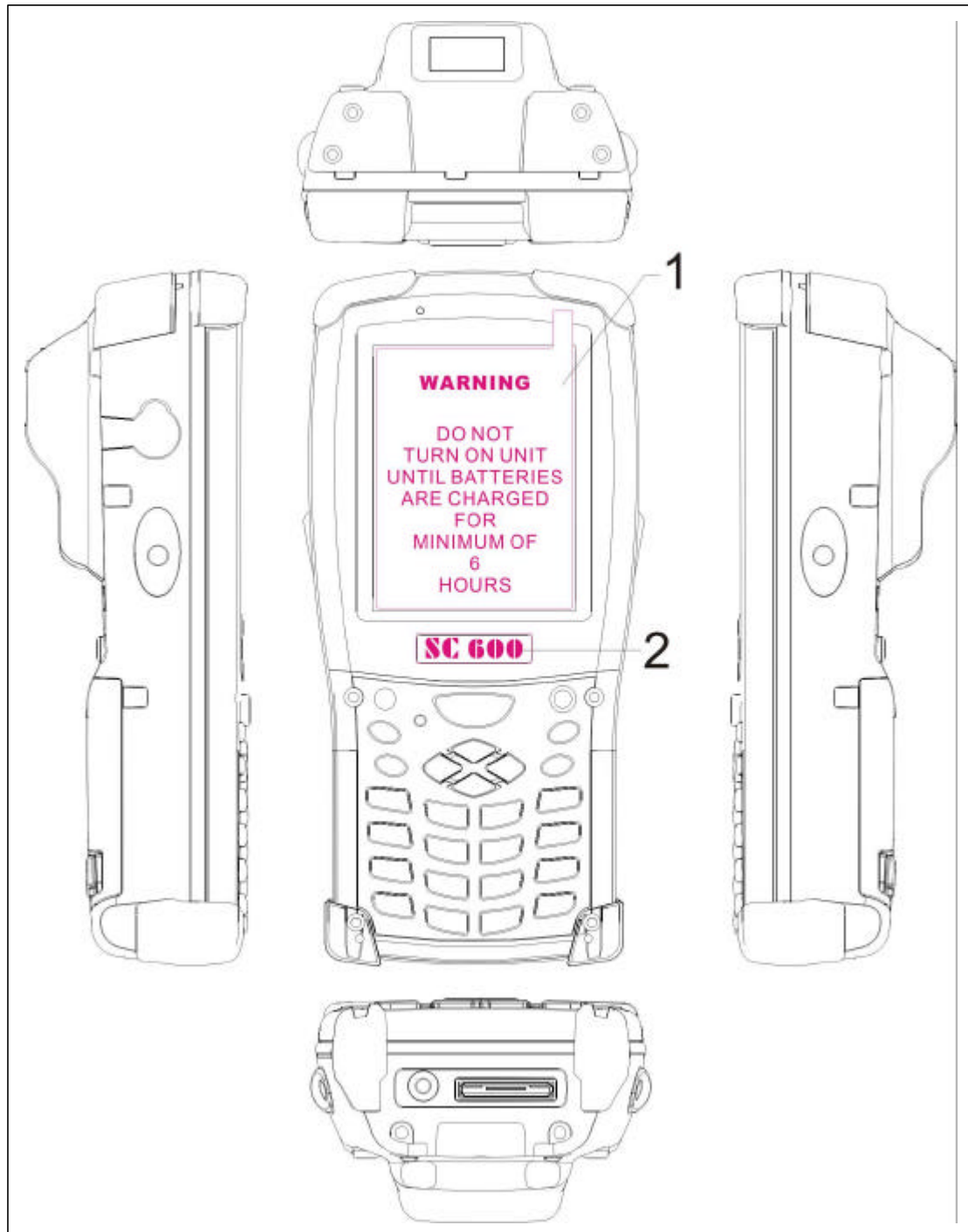
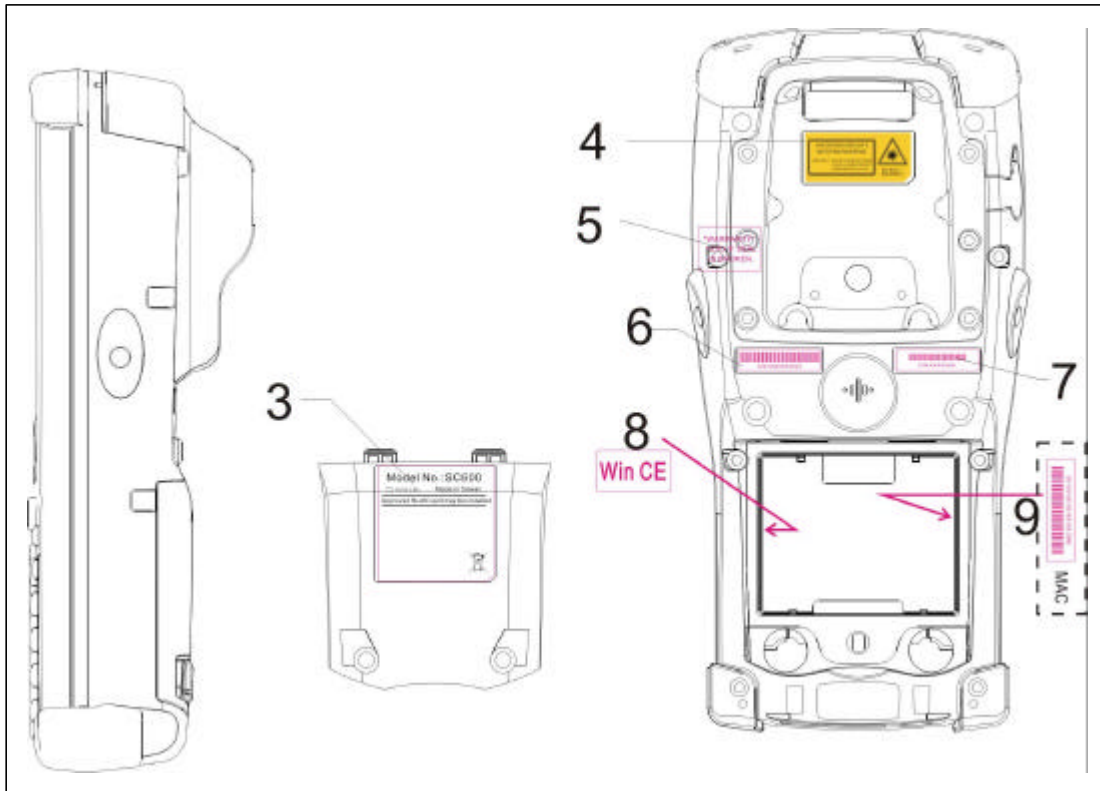


Figure 1-2 Product Labeling (Back side view)



## 1.5 System Specifications

The SC600 PDT detailed specifications as follows. Unless otherwise noted, all the specifications are subject to change without prior notification.

Table 1-1 System Specification

<b>SC600</b>	
Processor	- 400MHz Intel PXA255 32 bits RISC CPU
Memory	- 64 or 128MB Flash ROM - 64,128 or 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

<b>SC600</b>	
Radio Support	<ul style="list-style-type: none"> <li>- <b>Wireless LAN:</b> 802.11b</li> <li>- <b>Bluetooth:</b> Class II (optional)</li> <li>- <b>GSM/GPRS:</b> (optional)</li> </ul>
Communication Ports	<ul style="list-style-type: none"> <li>- <b>USB:</b> Support USB v1.1 both host and client. (PDT and Cradle)</li> <li>- <b>Serial:</b> RS232 via optional cable or Cradle.</li> </ul>
Scan Engine	<ul style="list-style-type: none"> <li>- <b>Default:</b> Opticon Laser (1D) Engine</li> <li>- <b>Optional:</b> HHP 2D Imager.</li> </ul>
Expansion Slot	<ul style="list-style-type: none"> <li>- One Compact Flash Type-II slot</li> <li>- One SD Card slot (support SD memory only)</li> </ul>
LED	<ul style="list-style-type: none"> <li>- One Triple-Color LED for Charger Indicator and Alarm Notification</li> <li>- One Dual-Color LED for Scanner Indicator</li> </ul>
Power System	<ul style="list-style-type: none"> <li>- Standard Li-Ion Battery Pack, 3.7VDC, 3150mAh</li> <li>- Advanced Smart Battery with Gas-Gauge</li> <li>- Built-in Battery Charger</li> <li>- 2.4VDC/15mAh rechargeable backup battery</li> <li>- One Battery Cover Sensor Switch</li> <li>- Power Adapter: 100~240V AC, 50/60Hz Input ; 5VDC/2.6A, 3A Output</li> </ul>
Button/Key	<ul style="list-style-type: none"> <li>- Power button</li> <li>- 4-way navigation button</li> <li>- 4 Application Keys</li> <li>- 3 Scanner Enable Keys</li> <li>- SW Reset input button</li> <li>- 16 Alpha-numeric keyboard</li> </ul>
Dimensions and Weight	<ul style="list-style-type: none"> <li>- Dimensions: 192.5mm (L) x 91.3mm / 78mm(W) x 42.2mm / 60.6mm (H)</li> <li>- Weight: 560g with Standard Battery Pack 500g without Battery Pack</li> </ul>
Color	<ul style="list-style-type: none"> <li>- Black</li> </ul>

<b>SC600</b>	
<b>Peripherals and Accessories</b>	- Optional: RS232 Serial Cable for Terminal / USB Host Cable for Terminal / High-Capacity Li-Ion Battery Pack (3.7VDC, 4000 mAh) / RFID Card Cover / Single Dock / Pistol Grip/ 4 Slot Battery Charger / Car Adapter / Holster / Protect Film
<b>Software</b>	- Microsoft Windows CE.NET 4.2 Professional

## 1.6 Environment Standard

Table 1-2 **Environment Standard**

<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% ~ 80% (non-condensing)
<b>Drop</b>	5ft (1.5m) Drop to Concrete
<b>Water &amp; Dust proof</b>	IP54 Certificated & IP64 Compliant
<b>Vibration</b>	MIL STD 810F

## 1.7 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:

Figure 2-1 Inside the package



1. SC600 Terminal
2. Stylus
3. USB Client Cable for Terminal
4. Earphone/ Microphone Set
5. Standard AC Adapter 5VDC/2.6A
6. AC Power Cord
7. Standard Battery Pack (3.7VDC, 3000 mAh)
8. CF Card Support Guide
9. Quick Guide (Not Shown)

## 2.2 General View of the PDT

### 2.2.1 PDT front side view

Figure 2-2 PDT Front side view



## 2.2.2 PDT back side view

Figure 2-3 PDT back side view



Table 2-1 Description of PDT 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	1.5W 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 2-4 Release the Hand strap from PDT



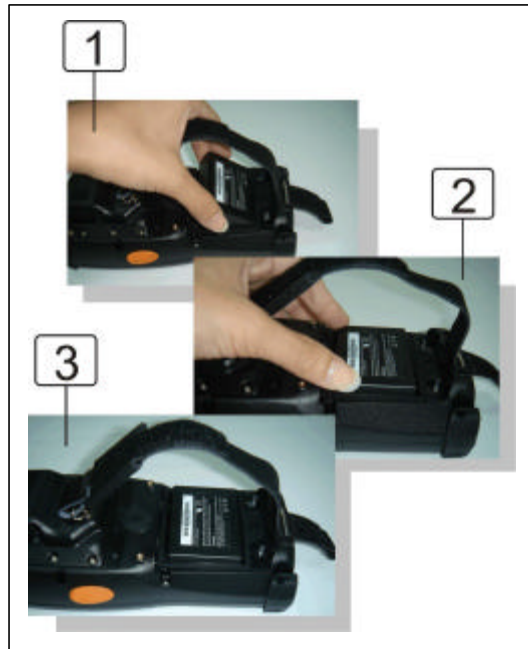
2. Turn the locking screws (right and left) downwards and lift the battery cover away from the PDT.

Figure 2-5 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 2-6 **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 2-7 **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 2-8 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 2-9 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 on page 2-27.

**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.



Figure 2-10 Starting the PDT

When the PDT is powered on for the first time, it initializes its system. A splash screen (figure 2-10) appears for a short period of time followed by the Wince.NET 4.2 window.

This section offers the basic procedures of PDT using.

### 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, its 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.

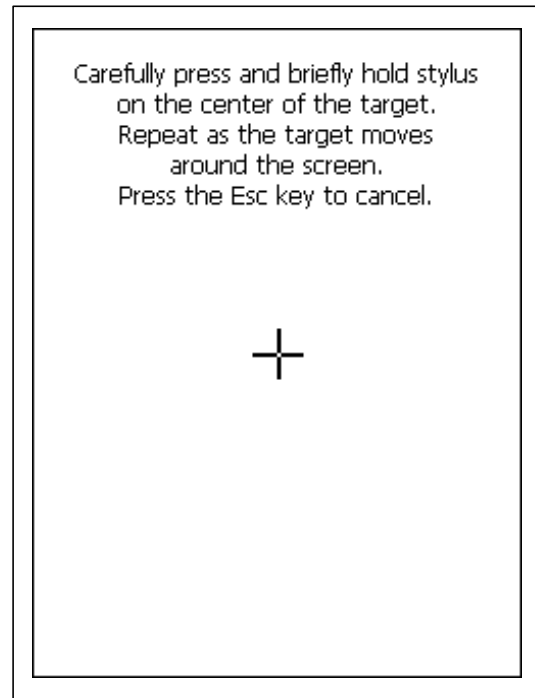






Figure 2-11 Calibration

### 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  .

2) Become darker: Press the  key and then press on the left key of  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 2.7 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 as illustrated in figure 2-3 PDT Back side view (in page 2-3). 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 Keypad



Figure 2-12 SC600 Keypad



Table 2-2 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 (Tabulation)</b>	<b>Caps</b>
	<b>Change to letters</b>		
	<b>Function change</b>		
	<b>1</b>	<b>@ (at)</b>	<b>: \</b>
	<b>2</b>	<b>'</b>	<b>A B C</b>
	<b>3</b>	<b>+ (Plus Sign)</b>	<b>D E F</b>
	<b>4</b>	<b>Paste</b>	<b>G H I</b>
	<b>5</b>	<b>Del (Delete)</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; (AND)</b>	<b>T U V</b>
	<b>9</b>	<b>* (Asterisk)</b>	<b>W X Y Z</b>

















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

Table 2-3 Special Assembler Key

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

Table 2-4 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 SC600.
	Power On/Off	The  key puts the terminal into and wakes the terminal from suspend mode.
	Internet Explorer	Application key 1, <b>User can define F1 function from setting.</b>
	Microsoft WordPad	Application key 2, <b>User can define F2 function from setting.</b>
	Inbox	Application key 3, <b>User can define F3 function from setting.</b>
	File Explorer	Application key 4, <b>User can define F4 function from setting.</b>
	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 is pressed continuously.

Key	Main Function	Definition
	<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”
	<b>6</b>	Number key “6”



















Key	Main Function	Definition
	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 2-5 Special Function key define


















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

Key Sequence	Fn + Main Function	Definition
	<b>Page Up</b>	<ol style="list-style-type: none"> <li>1. Move the cursor up one page. The cursor will move continuously if button is pressed continuously.</li> <li>2. You must press  key, then press  key to cursor up one page each time.</li> </ol>
	<b>Audio Mute</b>	<ol style="list-style-type: none"> <li>1. Toggle the audio mute/on</li> <li>2. You must press  key, then press  key to enable audio mute or turn on audio function each time.</li> </ol>
	<b>TAB (Tabulation)</b>	<ol style="list-style-type: none"> <li>1. The “TAB” function is to move the cursor to the next tab stop or the next control (on a form)</li> <li>2. To do this function by pressing  key first, and then pressing  key each time.</li> </ol>
	<b>@ (at)</b>	Enter an { @, at } by pressing  key, then pressing  key.
	<b>,</b>	Enter a { , } by pressing  key, then pressing  key.
	<b>+ (Plus Sign)</b>	Enter a plus sign by pressing  key, then pressing  key

Key Sequence	Fn + Main Function	Definition
 	Paste	<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>
 	Del (Delete)	<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>
 	- (Minus Sign)	Enter a minus sign by pressing  key, then pressing  key.
 	Copy	<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>
 	& (AND)	Enter an AND sign by pressing  key, then pressing  key.
 	* (Asterisk)	Enter an asterisk sign by pressing  key first, and then pressing  key.
 	Space	<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 </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>
 	<b>/ (Backslash)</b>	Enter a backslash 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 2-6 Alpha + Numeric keys define

To enter	Press the Keys	To enter	Press the Keys
\$	Alpha 	€	Alpha  
Caps	Alpha 		
:	Alpha 	\	Alpha  
a	Alpha 	A	Alpha  
b	Alpha  	B	Alpha   
c	Alpha   	C	Alpha    
d	Alpha 	D	Alpha  
e	Alpha  	E	Alpha   
f	Alpha   	F	Alpha    
g	Alpha 	G	Alpha  
h	Alpha  	H	Alpha   
i	Alpha   	I	Alpha    
j	Alpha 	J	Alpha  
k	Alpha  	K	Alpha   
l	Alpha   	L	Alpha    
m	Alpha 	M	Alpha  
n	Alpha  	N	Alpha   
o	Alpha   	O	Alpha   
p	Alpha 	P	Alpha  
q	Alpha  	Q	Alpha   
r	Alpha   	R	Alpha    
s	Alpha    	S	Alpha     
t	Alpha 	T	Alpha  
u	Alpha  	U	Alpha   
v	Alpha   	V	Alpha    
w	Alpha 	W	Alpha  
x	Alpha  	X	Alpha   



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

2.4.8 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 2-13 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.

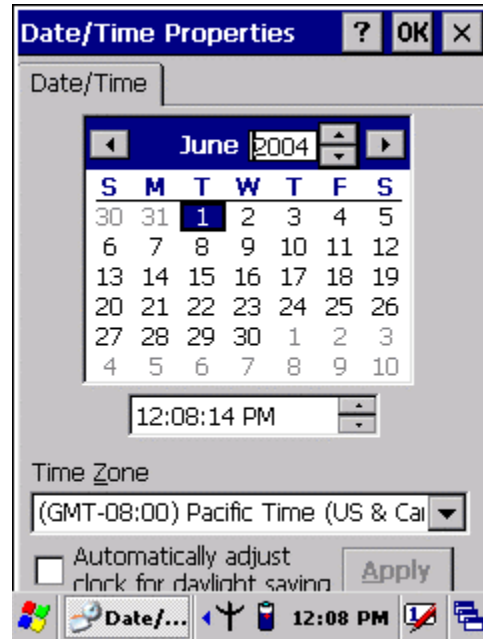


Figure 2-14 **Date/Time** properties

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 keypad**” on page 2-11.
- Use the stylus on the touch screen on page 2-11 for more information on using the stylus.
- 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 on page 2-21
- Use the soft input panel (digital keyboard) with the stylus. Refer to “**2.5.5 The Soft Keypad**” on page 2-23.
- Use the bar code scanning to enter data. Press the trigger or “Bar Code Start” key to initiate a scan. The scanned data will enter the current application’s open file. Refer to “**2.5.7 Scanning Barcode**” starting on page 2-24 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 as 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 2-15 to view the **Task** bar.

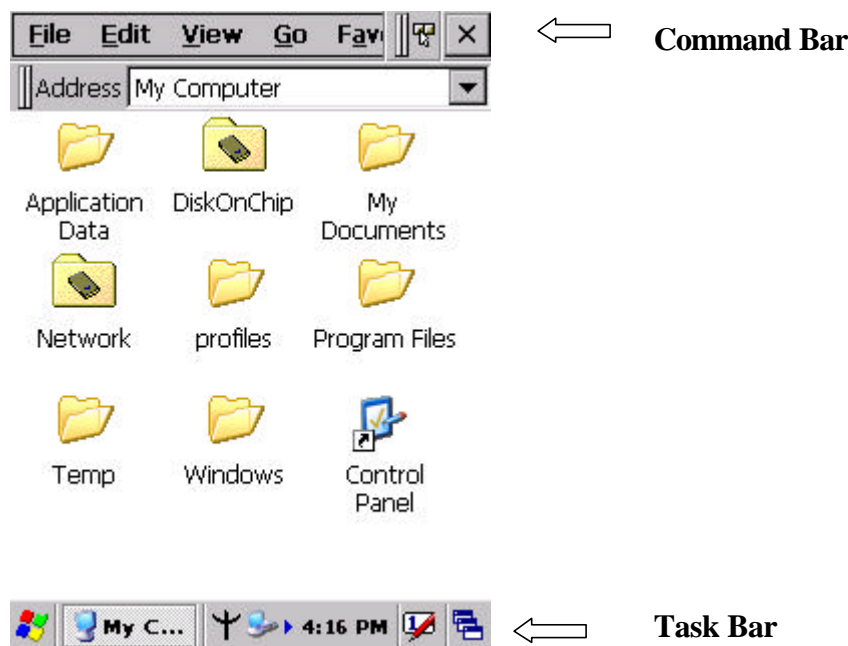


Figure 2-15 Task Bar & Command Bar

## 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) Tap the “Radio on” button 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.

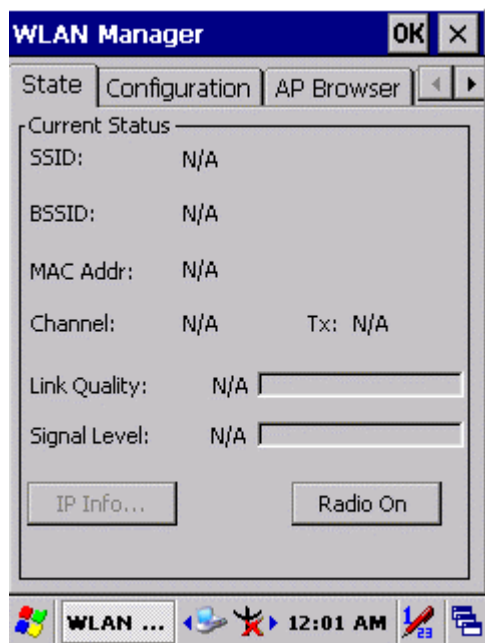


Figure 2-16 WLAN Manager

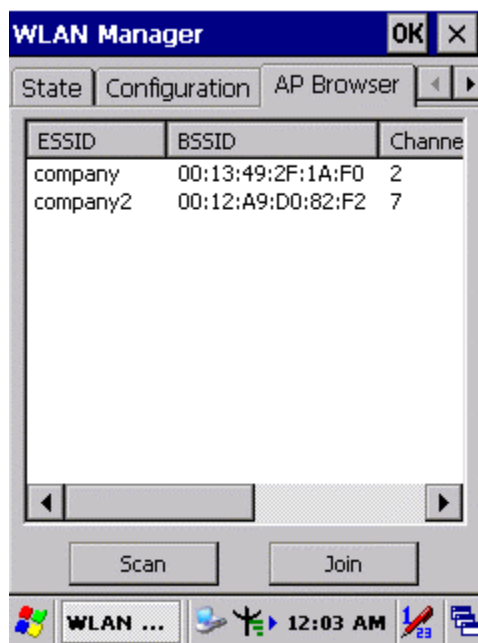







Figure 2-17 WLAN Manager

### Note:

	802.11b WLAN is Disable.
	802.11b WLAN is no signal or not connect to network.

	802.11b WLAN signal is Low.
	802.11b WLAN signal is In General.
	802.11b WLAN signal is Good.

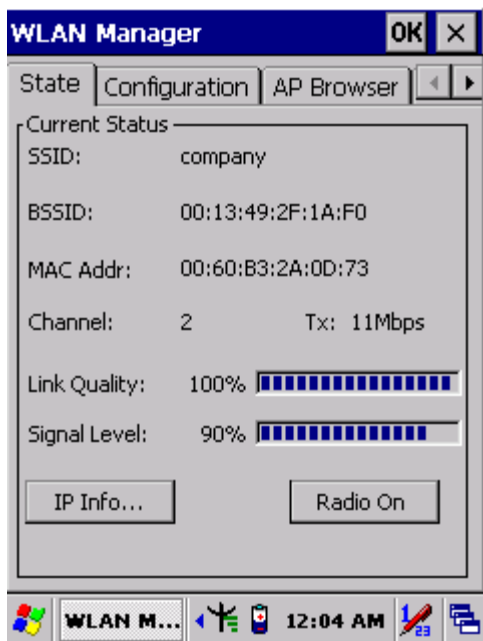


Figure 2-18 WLAN Manager

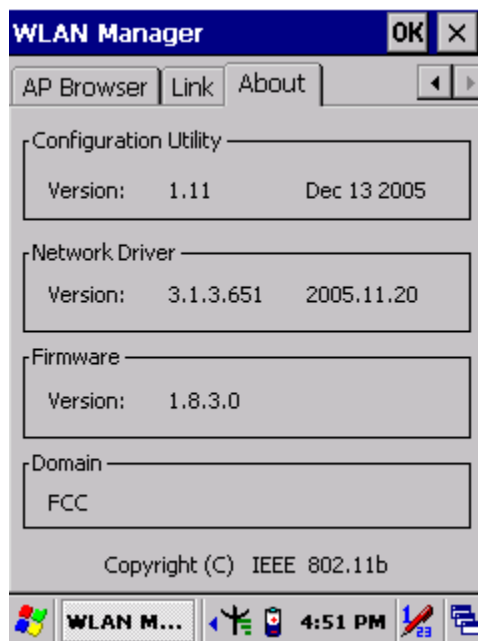


Figure 2-19 WLAN Manager

## 2.5.7 Scanning Barcode

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 laser scanner.
3. Select **Start > Setting > Control Panel > Barcode Setting**; complete all configurations following all description of **3.2.1 BarCode Setting**.
4. Run the **WordPad** software program
5. Aim the scanning beam at the center of bar code.
  - Position the device close to bar code when scanning
  - Position at a distance when scanning lager bar codes.
  - The scanner is disabled after you release the key or after five seconds.
6. Press the Right/left/central scan key. The scanner scans as long as you hold the key or for five seconds.

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



#### 8. Barcode Scanning Position

This device can read from 40 to 300mm distance.

- 1) Position the laser scanner close to the barcode when scanning small barcodes. And position it in a distance from the barcode when scanning large barcodes
- 2) The reader can be detected by a red beam.



#### 9. Bad Scanning Position

- 1) Make sure that the bars enter the laser beam when scanning large barcodes.
- 2) Scanning operations may fail if the laser beam positions as below.



**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 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.

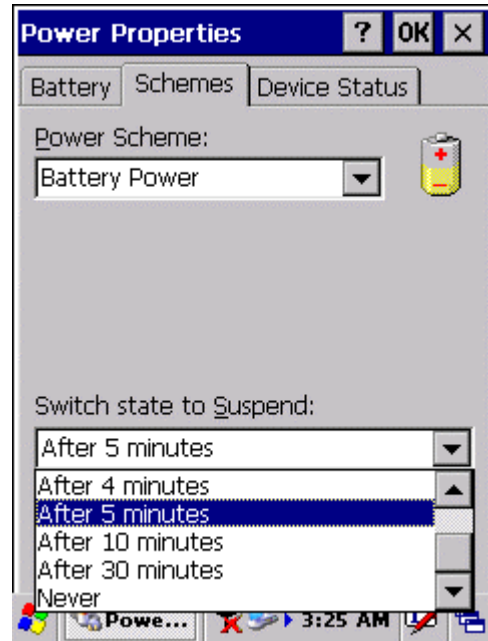


Figure 2-20 Schemes Tab

### 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 “F1”, “F4” and “Power” 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.