



PT60 Narvalo

Mobile Computer

User Guide

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Please read through the manual carefully before using the product and operate it according to the manual. It is advised that you should keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device, doing so will void the product warranty provided by Fujian Newland Auto-ID Tech. Co., Ltd.

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Revision History

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Table of Contents

Revision History	- 3 -
Chapter 1 About This Guide	1
Introduction.....	1
Documentation Set.....	1
Chapter Descriptions.....	1
Software Version.....	2
More Information.....	2
Chapter 2 Getting Started	3
Introduction.....	3
Unpacking.....	3
Accessories (Optional).....	3
Getting Started.....	4
The PT60.....	4
Keypad.....	6
LEDs on the PT60.....	7
Cradle.....	8
Installing the Battery.....	9
Removing the Battery.....	9
Charging the Battery.....	10
Power On, Suspend and Wake Up.....	12
Calibrating the Screen.....	13
Checking Battery Status.....	14
Installing Micro SD Card.....	15
Communicating with PC Directly.....	16
Communicating with PC via Cradle.....	16
Adjusting the Hand Strap.....	17
Chapter 3 Using the PT60	18
Introduction.....	18
Status Icons.....	19
Settings Icons.....	20
Program Icons.....	22
Keypad.....	23
Alphabetic Keypad.....	24
Function Keys.....	24

Stylus.....	25
Volume & Sounds.....	25
Peripheral Module Power Control.....	26
Backlight Settings.....	27
Memory Storage Management.....	28
Resetting the PT60.....	29
Warm Reset.....	29
Cold Reset.....	29
Autolocking the PT60.....	29
Scanner Settings.....	30
Normal Settings.....	30
Symbologies.....	34
Test.....	34
Scanning 1D Barcode.....	35
Scanning 2D Barcode.....	36
Admin Settings.....	37
Chapter 4 Bluetooth.....	38
Chapter 5 WiFi.....	40
Connecting to a WiFi Network.....	40
WiFi Tool.....	42
Viewing WiFi Connection Details.....	42
Viewing WiFi Connection Status.....	43
Setting WiFi Parameters.....	43
Diagonising WiFi Connection Problems.....	44
Chapter 6 ActiveSync.....	45
Introduction.....	45
Installing ActiveSync on PC.....	45
Synchronizing Data.....	45
Chapter 7 Maintenance & Troubleshooting.....	46
Introduction.....	46
Important Safety & Handling Information.....	46
Disassembly and Retrofit.....	46
External Power Supply.....	46
Abnormal Situation.....	46
Drop Damage.....	46
LCD Screen.....	46

Stacking Heavy Objects	46
Mounting Location	47
Wireless Functionalities.....	47
Use & Maintenance	47
Battery Safety Guidelines	47
Troubleshooting	48

Chapter 1 About This Guide

Introduction

This guide provides instructions for programming and operating the NLS-PT60 mobile computer (hereinafter referred to as “the PT60” or “the terminal”).

Documentation Set

The documentation set for the PT60 includes:

- ✧ ***NLS-PT60 Mobile Computer Quick Start:*** Describes how to get the PT60 up and running.
- ✧ ***NLS-PT60 Mobile Computer User Guide:*** Describes how to program and use the PT60.
- ✧ ***NLS-PT60 API Manual:*** Describes how to use APIs for PT60 application development.
- ✧ ***WinCE Utility Software User Guide:*** Describes how to use Newland's WinCE utility software.

Chapter Descriptions

- ✧ *Chapter 1 About This Guide* Provides general description of this manual.
- ✧ *Chapter 2 Getting Started* Provides information on getting the PT60 up and running for the first time.
- ✧ *Chapter 3 Using the PT60* Describes how to program the PT60 for the use of its basic features.
- ✧ *Chapter 4 Bluetooth* Explains how to use Bluetooth functionality.
- ✧ *Chapter 5 WiFi* Explains how to use WiFi functionality.
- ✧ *Chapter 6, ActiveSync* Explains how to synchronize data between the PT60 and a computer.
- ✧ *Chapter 7 Maintenance & Troubleshooting* Provides troubleshooting solutions for issues that might occur when using the PT60.

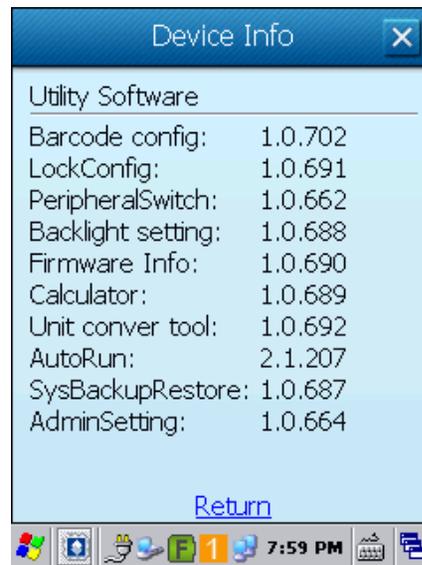
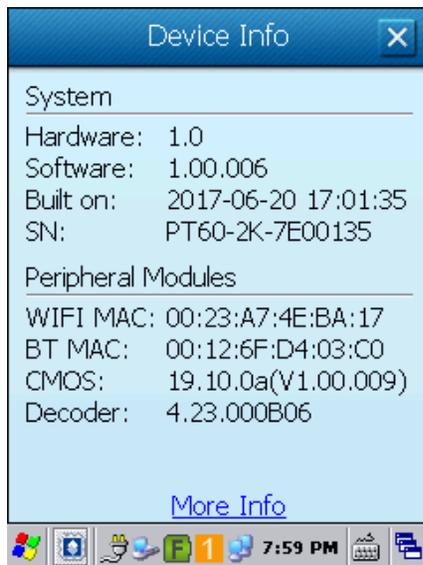
Software Version

The program  can be used to view the terminal's device information which is helpful for future updates and maintenance.

The device information includes:

- A. System hardware & software version, build time and serial number.
- B. WiFi/ Bluetooth MAC.
- C. The type and version of scan engine.
- D. The version of utility software.

To view the device information of the terminal, tap "Start" → "Settings" → "Control Panel" → double tap .



More Information

For more product and support information, please visit our website at <http://www.newlandaidc.com>.

Chapter 2 Getting Started

Introduction

This chapter lists the parts and accessories for the PT60 and explains how to install, remove and charge the battery, and get the PT60 up and running.

Unpacking

Carefully remove all protective materials from the pack. Verify that you received the following:

- ✧ 1 x PT60 mobile computer
- ✧ 1 x USB cable
- ✧ 1 x AC adapter
- ✧ 1 x Li-Polymer battery
- ✧ 1 x Tethered stylus
- ✧ 1 x Hand strap
- ✧ 1 x Quick Start manual

Accessories (Optional)

- ✧ CD61 Cradle
- ✧ DC charging cable

Getting Started

The PT60



1	Left Scan Key	2	Cradle Connector
3	Keypad	4	Right Scan Key
5	Micro USB Port	6	Touch Screen
7	Power Key	8	Charging LED
9	Scan/ Decode/ Communication LED		



10 Hand Strap

11 Stylus

12 Scan Window

13 Speaker

14 Stylus Tether

15 Battery Cover Latch

Keypad



1	Shift Key	2	Numbers – Letters Switch
3	Enter Key	4	Fn Key
5	Backspace Key	6	Space Key
7	TOOL Key	8	Scan Key
9-12	User-defined Function Key		

The PT60 has 33 keys (including side keys).

Scan Key: Use it to scan barcode.

Shift Key: Switch between uppercase and lowercase mode (effective only when alphabetic keypad is enabled).

Press it once: The uppercase mode becomes enabled until any key on the keypad is pressed.

Press it twice quickly: Caps Lock is turned ON.

Numbers – Letters Switch: Press it to switch between numeric keypad (white) and alphabetic keypad (orange).

TOOL Key: Long press or double press it to open the Keyboard Shortcuts menu (default) or to open the Admin Setting application.

Fn Key: Function key that users can redefine using the apps they create.

Power Key: Power on/ suspend/ awaken the terminal.

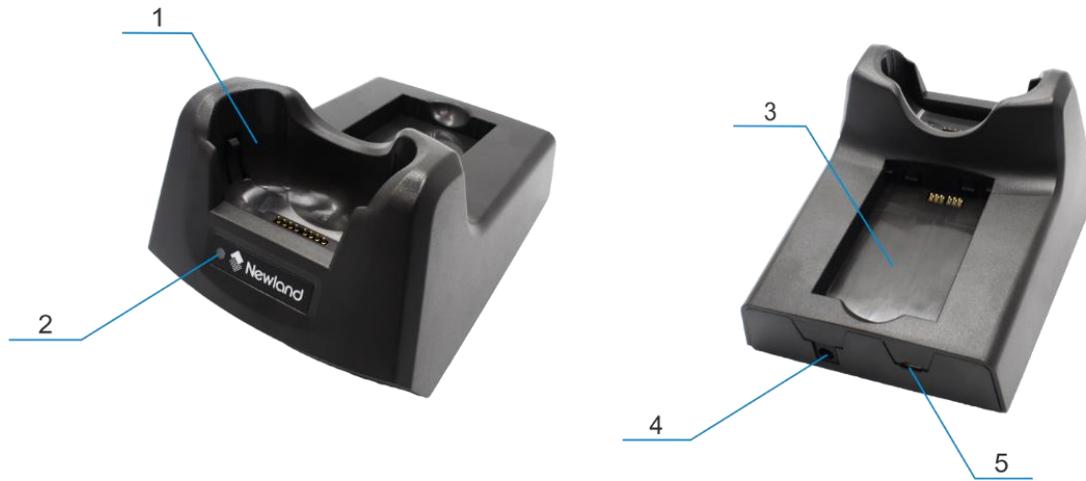
LEDs on the PT60



Scan/ Decode/ Communication LED	
Red LED on	*Scanning in progress (if Good Read LED enabled)
Green LED flashes once	*Good read (if Good Read LED enabled)
Blue LED flashes constantly	Bluetooth/ WiFi turned on
Charging LED	
Red LED on	Charging in progress
Green LED on	Fully charged
Rd LED flashes constantly	Charging failure

***Note:** Refer to the “Scanner Settings” section in Chapter 3 to learn how to enable the Good Read LED.

Cradle



1 Charging Slot

2 Charging LED

3 Battery Compartment

4 Power Jack

5 Micro USB Port

Installing the Battery



Step 1: Unlock the battery cover latches and remove the cover.

Step 2: Insert the battery as indicated into the battery compartment, with its metal contacts facing down and lining up with the metal contacts on the inside of the terminal.

Removing the Battery



Step 1: Press and hold the Power key for 3 second to enter the sleep mode. Unbuckle and loosen the hand strap. Unlock the battery cover latches and remove the cover.

Step 2: Remove the battery.

Charging the Battery

You can charge the battery using AC adapter or cradle or USB cable.

- ✧ Charge the battery by connecting the PT60 to PC with the included USB cable: It takes 8-10 hours to fully charge the battery this way when it is empty.
- ✧ Charge the battery with AC adapter: Connect the PT60 to a power outlet using the included AC adapter. It takes 5 hours to fully charge the terminal (The terminal is shut down or in sleep mode).



Charging LED on the PT60	
Red LED on	Charging in progress
Green LED on	Fully charged
Red LED flashes constantly	Charging failure

Note: Low battery may result in malfunction of the PT60. Before your first use, charge the battery for at least 8 hours.

❖ Charge the battery with cradle

Method 1: Insert the PT60 into the charging slot on the cradle. Connect the cradle to a power outlet using the included AC adapter.



Charging LED on the PT60	
Red LED on	Charging in progress
Green LED on	Fully charged

Method 2: Insert the battery into the charging slot on the cradle. Connect the cradle to a power outlet using the included AC adapter.



Charging LED on the cradle	
Red LED on	Charging in progress
Green LED on	Fully charged

Power On, Suspend and Wake Up

❖ Power On:

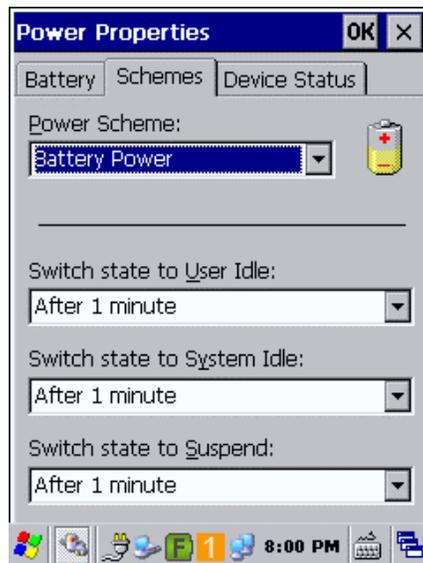
Press and hold the Power key for 3 seconds to turn the terminal on.

❖ Suspend:

When the terminal is on, holding down the Power key for 3 seconds will suspend the terminal.

If no operation is performed on the terminal for some time, it will go into the suspend mode (when auto suspend is already enabled).

To set the timer for auto suspend, go to “Start”→“Settings”→“Control Panel”→  →“Schemes”.



❖ Wake Up:

When the terminal in the suspend mode, press the Power key to wake it up.

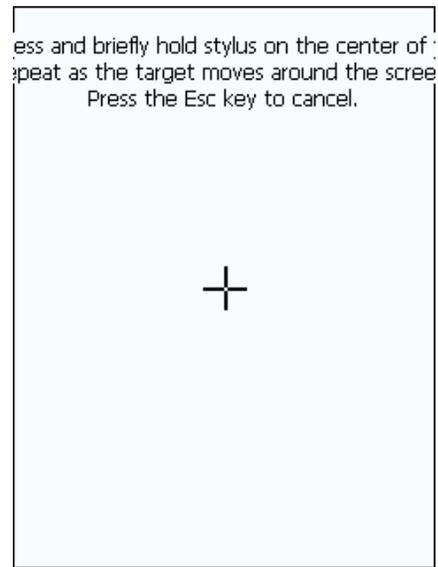
Calibrating the Screen

Tap “Start”→“Settings”→“Control Panel”→ double tap  . Then the Stylus Properties screen will be displayed.

Select the “Calibration” tab and tap the “Recalibrate” button. Then the Calibration screen will be displayed. Read the on-screen instructions, and carefully press and hold the tip of stylus on the center of each target that appears on the screen for 2-3 seconds. Repeat as the target moves around the screen, then press the Enter key to accept the new calibration.



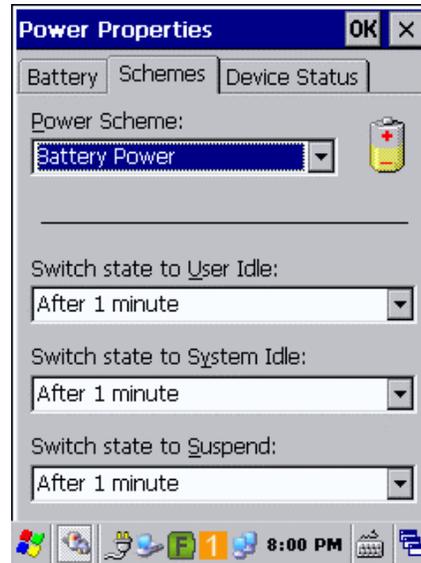
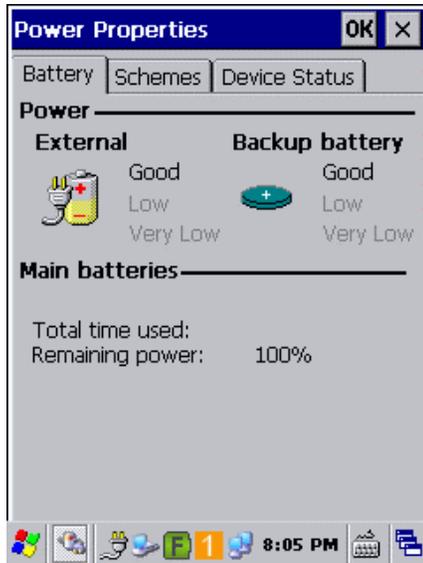
Stylus Properties screen



Calibration screen

Checking Battery Status

To check the battery status, tap "Start" → "Settings" → "Control Panel" → double tap



The system has four states: running, user idle, system idle and suspend:

- ✧ When user operates on the keypad or taps the touch screen, the system is in the running state.
- ✧ After a preset period of inactivity, the system enters the user idle state.
- ✧ After being in the user idle state for a preset period of time, the system enters the system idle state.
- ✧ After being in the system idle state for a preset period of time, the system enters the suspend or sleep state.

Installing Micro SD Card

The terminal provides a MicroSD card slot for external storage. The slot is beneath the battery compartment. Follow the instructions of the card manufacturer to use the card.



Step 1: Unbuckle and loosen the hand strap. Unlock the battery cover latches and remove the battery cover and battery. Slide the slot cover up and lift it.

Step 2: Insert the Micro SD card into the holder, with its metal contacts facing down.

Step 3: Close the slot cover and slide it down until it clicks.

Note that the Micro SD card may not function in any of the following conditions:

1. Micro SD card: It is infected with virus, damaged, or not formatted properly, or its metal contacts are dirty.
2. Card slot: It is squeezed or damaged, or its metal contacts are rusted or excessively bent.
3. Battery: The battery voltage is unstable.

Communicating with PC Directly

1



2



Step 1: Open the Micro USB port cover on the terminal.

Step 2: Connect the terminal to PC using the included USB cable.

Note: Make sure Microsoft ActiveSync is already installed on the PC before performing data communication between the terminal and the PC.

Communicating with PC via Cradle



Step 1: Connect the cradle to a power outlet using the included AC adapter and DC charging cable.

Step 2: Connect the cradle to PC using the included USB cable.

Step 3: Insert the terminal into the charging slot on the cradle.

Note: Make sure Microsoft ActiveSync is already installed on the PC before performing data communication between the terminal and the PC.

Adjusting the Hand Strap

A hand strap can be attached to the terminal. Adjust the hand strap to increase comfort when holding the terminal for extended periods of time.



Chapter 3 Using the PT60

Introduction

This chapter provides the basics of setting and using the PT60.



Desktop Icons

Status Icons

The status bar at the bottom of the screen can contain the following status icons.

Icon	Description
	Bluetooth management tool.
	Lowercase input. Press the Numbers – Letters Switch to toggle between numeric and alphabetic (lowercase) keypad.
	Uppercase input. Press the Shift key to toggle between uppercase and lowercase.
	Caps Lock. When alphabetic keypad is enabled, double press the Shift key to turn Caps Lock on.
	Fn key locked.
	WiFi connected.
	WiFi not connected.
	USB connected.
	Battery status.
	Remaining battery capacity.
	Clock.
	Soft input panel.
	Background running program selection window.

Settings Icons

Icon	Description
 <p>Volume & Sounds</p>	System volume/sounds control.
 <p>Internet Options</p>	Internet options settings.
 <p>PC Connection</p>	Enable/disable direct connection to PC.
 <p>Storage Manager</p>	Memory storage management and configuration. (Use it with discretion)
 <p>Power</p>	Power properties (battery, schemes and device status) settings.
 <p>Password</p>	Passwords (power on password and screen saver password) settings.
 <p>Date/Time</p>	System date, time and time zone settings.
 <p>Regional Settings</p>	Region, language and input method settings.
 <p>Dialing</p>	Dialing configuration.

 Remove Programs	Remove programs installed on the terminal.
 Input Panel	Input panel settings.
 Owner	Owner properties settings.
 Network and Dial-up Co...	Network and dial-up connections configuration.
 System	View system information, including general information, memory, device name and copyrights.
 Display	Change your desktop background (wallpaper).
 Certificates	View the certificates installed on the terminal.
 Autorun	Set the programs which need to boot automatically at startup.

Program Icons

Icon	Description
 Stylus	Touch screen calibration tool.
 Light Setting	Screen/ keyboard backlight setting tool.
 Volume & Sounds	System volume/ sounds control.
 Peripheral Switch	Turn WiFi/ Bluetooth on or off.
 Barcode Setting	Barcode scanner configuration tool.
 KeyboardRedefine	Redefine keyboard keys.
 VirtualKeySetting	Configure the virtual keys (Screen resolution 240*320 or 320*320 required)
 Wifi Tool	Set WiFi protocol, roaming threshold and roaming difference.
 ResolutionSwitch	Change the screen resolution.

Keypad



1	Shift Key	2	Numbers – Letters Switch
3	Enter Key	4	Fn Key
5	Backspace Key	6	Space Key
7	TOOL Key	8	Scan Key
9-12	User-defined Function Key		

The PT60 has 33 keys (including side keys).

Scan Key: Use it to scan barcode.

Shift Key: Switch between uppercase and lowercase mode (effective only when alphabetic keypad is enabled).

Press it once: The uppercase mode becomes enabled until any key on the keypad is pressed.

Press it twice quickly: Caps Lock is turned ON.

Numbers – Letters Switch: Press it to switch between numeric keypad (white) and alphabetic keypad (orange).

TOOL Key: Long press or double press it to open the Keyboard Shortcuts menu (default) or to open the Admin Setting application.

Fn Key: Function key that users can redefine using the apps they create.

Alphabetic Keypad

Use the Numbers-Letters Switch to toggle between numeric keypad (white) and alphabetic keypad (orange); use the Shift key to switch between uppercase and lowercase mode.

Numeric Key	Alphabetic keypad enabled				Alphabetic keypad enabled & uppercase mode enabled (or Caps Lock on)			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th
1	*							
2	a	b	c		A	B	C	
3	d	e	f		D	E	F	
4	g	h	i		G	H	I	
5	j	k	l		J	K	L	
6	m	n	o		M	N	O	
7	p	q	r	s	P	Q	R	S
8	t	u	v		T	U	V	
9	w	x	y	z	W	X	Y	Z

Function Keys

- ◇ F1-F4 are user-defined function keys. You can assign these keys to open your favorite applications.
- ◇ Fn key + # key: Lock/unlock the terminal.
- ◇ After the Fn key is pressed, it is locked (Indicator: the status bar displays **F**); it becomes unlocked after another keypress is made.
- ◇ The Numbers-Letters Switch and Fn key are independent from each other, so they do not override each other.
- ◇ The Shift key works only when the alphabetic keypad is enabled. When the alphabetic (lowercase) keypad is enabled (indicator: the status bar displays **a**), the Shift key's intended functions are described as follows:
 - Pressing the Shift key once: The uppercase mode becomes enabled with the status bar displaying **A** until any key on the keypad is pressed, be it an alphabetic key or not.
 - Pressing the Shift key twice within an interval of 0.5 seconds): Caps Lock is turned ON with the status bar displaying **A**. To switch back to the lowercase mode, simply press the Shift key.
- ◇ Long press or double press the TOOL key: Pop up the Keyboard Shortcuts menu (default).
- ◇ TOOL key + a number key (1-9): Run the corresponding program on the Keyboard Shortcut menu.

Stylus

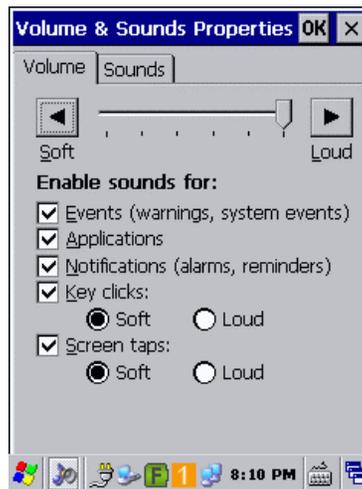
Use the stylus to select items and enter information. The stylus functions as a mouse.

- ✧ Tap : Tap an item on the screen with the stylus to select it.
- ✧ Tap and Hold : Tap and hold an item with the stylus to view a list of actions available for that item.
- ✧ Drag : Hold the stylus on the screen and drag across the screen to select text. Drag multiple items in a list to select them.

CAUTION: To prevent damage to the screen, only use the stylus provided by Newland.

Volume & Sounds

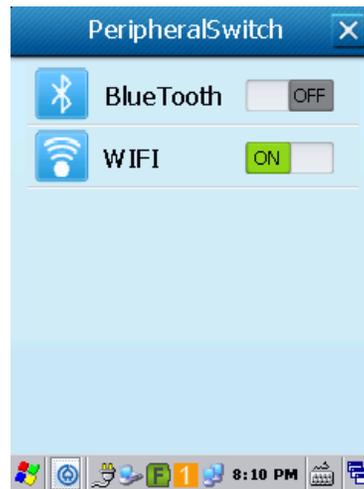
Tap “Start” → “Settings” → “Control Panel” → double tap  . Then set the volume and sounds as per your needs.



Peripheral Module Power Control

The program  is designed for users to quickly turn Bluetooth/WiFi module on or off.

Tap “Start”→“Settings”→“Control Panel”→double tap  to open the program. Then turn Bluetooth/WiFi on or off as per your needs.



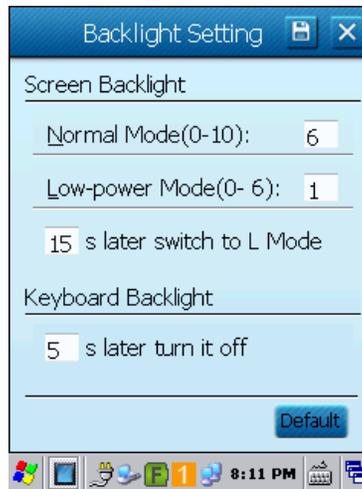
Backlight Settings

Tap “Start”→“Settings”→“Control Panel”→double tap



. Then set the screen backlight and keyboard backlight as

per your needs.



❖ Screen Backlight:

● Normal Mode:

Normal mode applies when the system is in the running state. There are 11 levels (0-10) of screen brightness for this mode.

● Low-power Mode:

Low-power mode allows users to dim the screen to save power if no operation is performed on the screen and keyboard for a preset period of time (switch timer). There are 7 levels (0-6) of screen brightness for this mode. Brightness level for the normal mode must be greater than that for low-power mode.

● Switch Timer

Users may set the period of inactivity required to automatically switch from normal mode to low-power mode (L Mode).

❖ Keyboard Backlight:

Users may set the period of keyboard inactivity required to automatically turn off keyboard backlight.

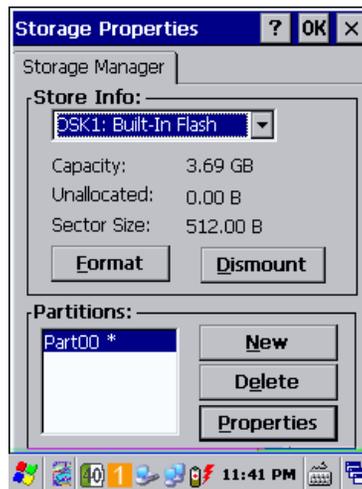
Memory Storage Management

Caution: When the settings are improperly configured on the memory storage management, system failures may occur. Non-technical staff shall not make any change to it.

The program  is a tool for managing the memory. To open it, tap “Start”→“Settings”→“Control Panel”→double tap



- ✧ **Format** : Format the selected memory, the data in memory will be destroyed after memory is formatted.
- ✧ **Dismount** : Dismount the selected memory.
- ✧ **New Partitions** : Create a new partition in selected memory.
- ✧ **Delete Partitions** : Delete an existing partition in selected memory.



Resetting the PT60

Warm Reset

Hold down the “#” key for 8-10 seconds to perform a warm reset on the terminal. It will take 6-10 seconds for the terminal to restart the system. User data in the memory will not be lost.

Cold Reset

Hold down the Power key and “#” key at the same time till the terminal displays the loading screen.

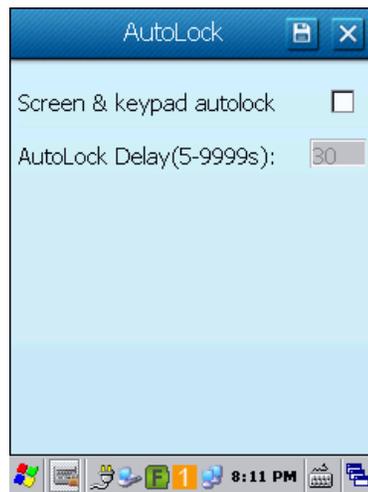
It will take 16-20 seconds for the terminal to reboot. After a cold reset, the terminal will restore factory default settings and user data that is not in MicroSD card or flash disk will be lost. You can use the backup/restore tool to restore backup data.

Note: Make sure that the battery cover is closed before performing a warm or cold reset, otherwise the terminal will immediately enter the suspend/sleep mode after restarting.

Autolocking the PT60

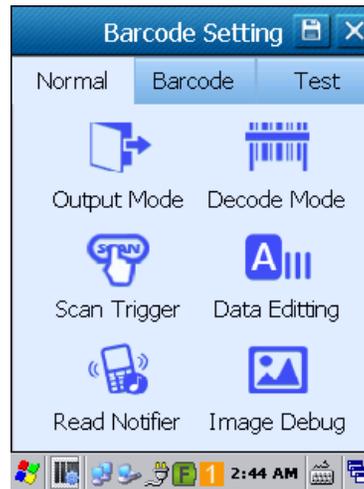
The program  is used to set the terminal to automatically lock its screen and keypad after a preset period of time of inactivity.

Tap “Start”→“Settings”→“Control Panel”→double tap  . Then set the parameters as per your needs.



Scanner Settings

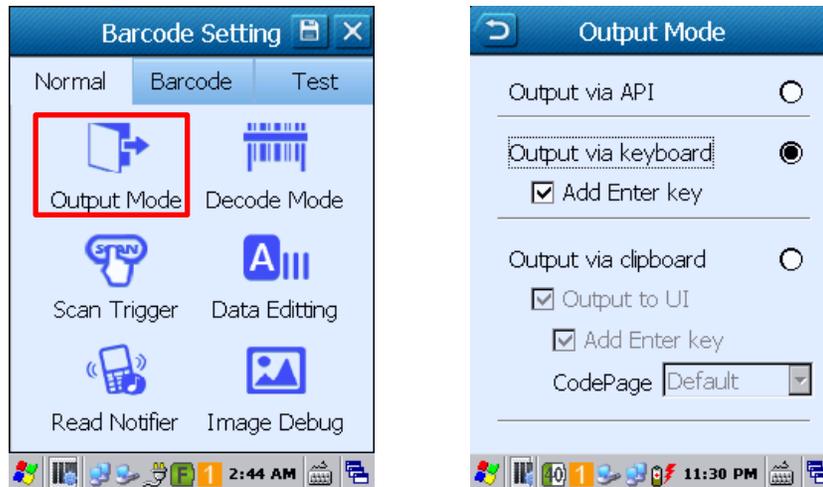
Tap “Start”→“Settings”→“Control Panel”→double tap  . Then the Barcode Setting screen will be displayed.



Barcode Setting Screen

Normal Settings

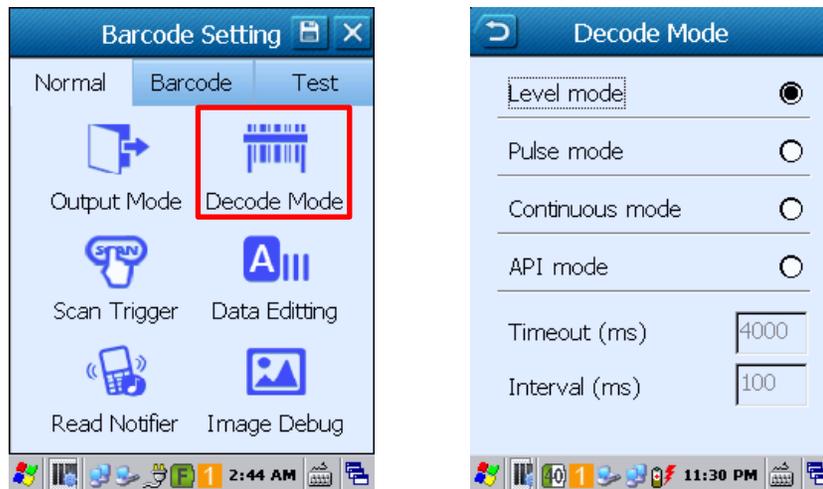
✦ Output Mode



The PT60 provides three output modes:

- Output via API : Application uses the API to get the barcode data.
- Output via keyboard : Output the barcode data to keyboard buffer to simulate keyboard input.
- Output via clipboard : Output the barcode data to clipboard.

❖ Decode Mode



● Decode mode

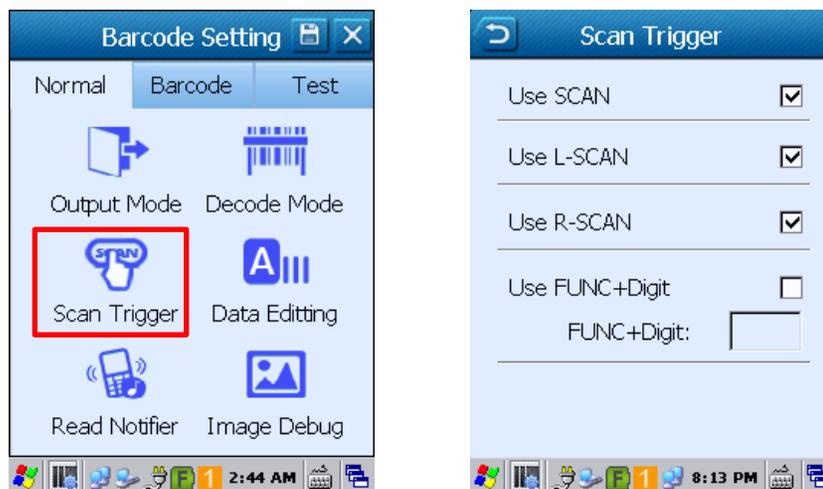
- Level mode: Press the scan trigger to start a decode session which continues until the key is released.
- Pulse mode: Press the scan trigger to start a decode session which continues until a barcode decodes or the decode session timeout expires.
- Continuous mode: Scan barcodes continuously until the scan mode is changed.
- API mode: Start/stop scanning barcode by API software.

● Timeout and Interval:

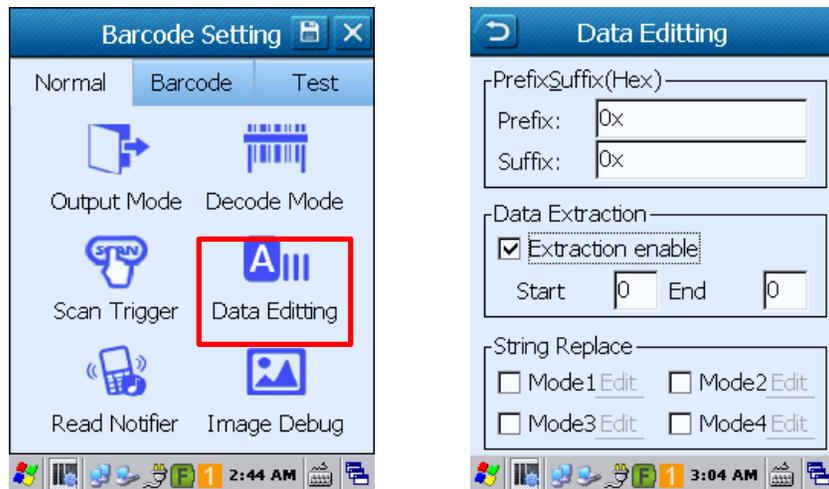
Timeout sets the maximum time decode session continues during a scan attempt, the default value is 4000ms. Interval sets the time period between decode sessions, the default value is 100ms.

❖ Scan Trigger:

Select a key (SCAN: Scan key; L-SCAN: Left Scan key; R-SCAN: Right Scan key) or key combination as scan trigger by checking the item.



Barcode Edit



● Prefix & Suffix

This feature allows you to append prefix/suffix to raw data. To set the prefix/suffix, enter the hexadecimal value of each character in your desired prefix/suffix. For example, if you want to add “123” before each barcode, set the prefix to “0x313233”; if you want to add a Carriage Return character after each barcode, set the suffix to “0x0D”.

● Data Extraction

This feature allows you to output only a selected part of raw data. To enable it, check “Extraction enable”. For example, if you want to output only “DE” in raw data “ABCDE”, enter “3” in the Start field and “4” in the End field.

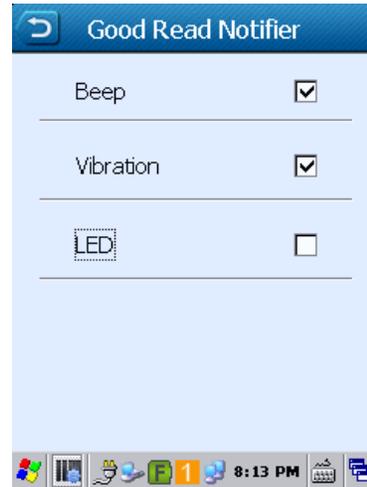
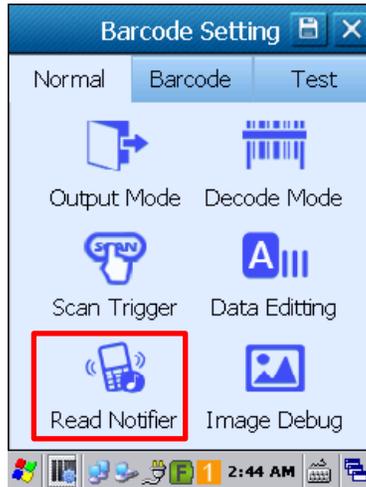
● String Replace

This feature allows you to replace characters in raw data (up to 4 pairs of character replacements: Mode 1 – Mode 4). To set the replacement string and the string to be replaced, select one of the four modes, tap “Edit”, and then enter the hexadecimal value of each character in the replacement string and the string to be replaced in the corresponding field (e.g. if you want to replace “123” in raw data “12345” with “789”, enter “0x313233” in the String to be replaced field and “0x373839” in the Replacement string field.



✦ Good Read Notifier

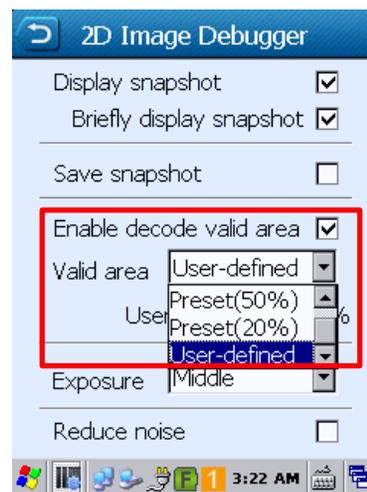
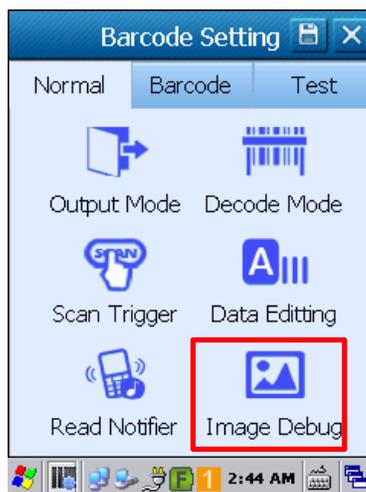
Select one or more indicators for good read.



✦ Image Debug (Only available on the PT60 equipped with 2D barcode scanner)

When multiple barcodes are placed closely together, you may specify the decoding area to narrow the scanner's field of view to make sure it reads only those barcodes intended.

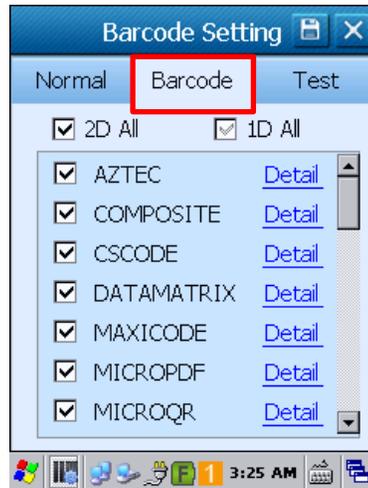
To set the decoding area, check "Enable decode valid area" and then set the valid area.



Symbologies

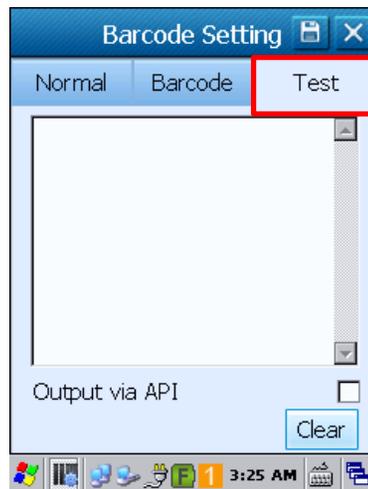
Tap the “Barcode” tab on the Barcode Setting screen, then enable/disable the barcode symbologies and set other barcode parameters as per your actual needs.

Supported symbologies may vary by product model.



Test

You can use this feature to test your terminal’s barcode scanning feature. Tap the “Test” tab on the Barcode Setting screen, then scan a barcode with your terminal. Decoded data will appear in the textbox after a good read.



Scanning 1D Barcode

Adjust the scan angle or the distance between the PT60 and the target barcode to ensure the length of laser beam is roughly 8mm greater than that of the barcode, as shown below.

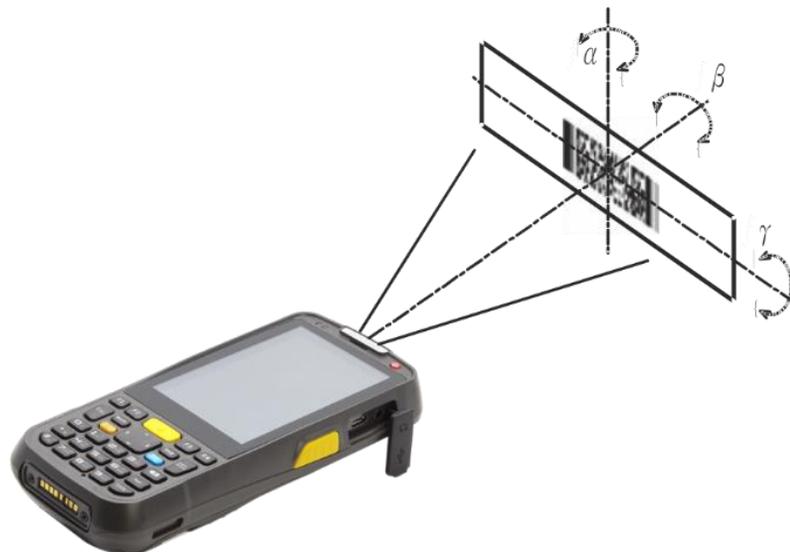


Correct	Wrong

Scanning 2D Barcode

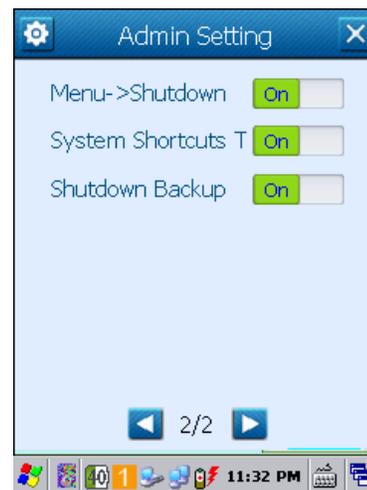
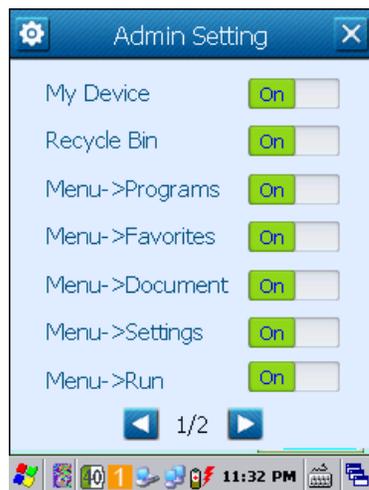
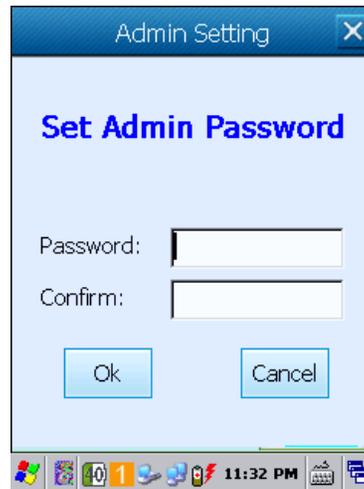
Adjust the scan angle and the distance between the PT60 and the target barcode to make them fall into the following ranges:

- 1) Point the PT60's focus lamp at the center of the barcode.
- 2) Move the PT60 until you find the appropriate scan distance.
- 3) Optimum scan angles:
 - Skew (α) < 45° (0° preferably)
 - Pitch (γ) < 45° (5° - 20° preferably)
 - Roll (β) = 0° - 360°



Admin Settings

To run the Admin Setting application, long press or double press the TOOL key on the terminal to open the Keyboard Shortcuts menu (default), and then double tap . Users will be asked to set the admin password when using it for the first time.



My Device/Recycle Bin: Turn it on (default) or off to show or hide its icon on the desktop.

Menu->XX: Turn it on (default) or off to show or hide XX in the Start menu.

Sys Shortcuts Tool: When it is On (default), long pressing or double pressing the TOOL key will open the Keyboard Shortcuts menu; when it is Off, long pressing or double pressing it will open the Admin Setting application.

Shutdown Backup: Turn it on (default) or off to enable or disable automatic backup during the shutdown process.

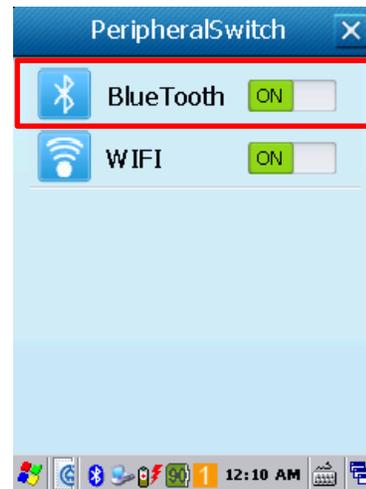
Chapter 4 Bluetooth

This chapter describes how to connect the PT60 to other Bluetooth device.

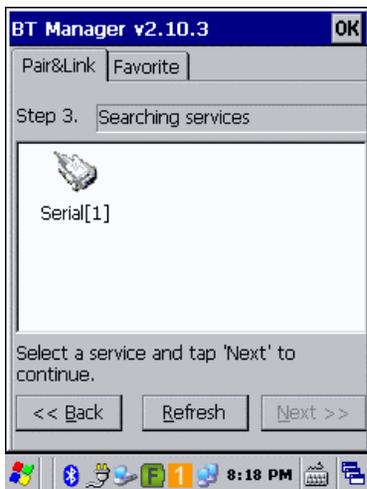
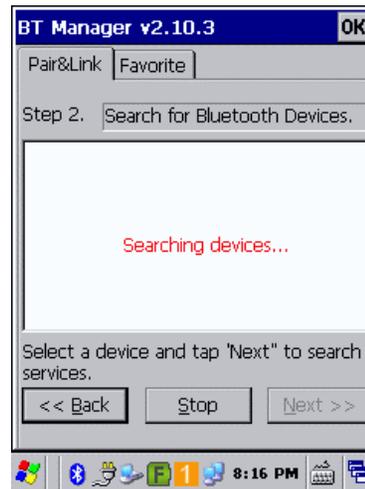
You can set up a Bluetooth connection between the PT60 and other Bluetooth devices, such as PC, mobile phone. Note that Bluetooth connection works better if there are no obstacles between them.

To connect the PT60 to a Bluetooth device, follow the steps below:

1. Double tap  on the desktop, or tap “Start” → “Settings” → “Control Panel” → double tap , to open the “Peripheral Switch” program. On the “PeripheralSwitch” window, turn Bluetooth on.



2. Tap  in the status bar and then select “BT Manager” to display the BT Manager window. You can search for Bluetooth devices and services and pair & connect with a Bluetooth device as per actual needs. For an application program using Bluetooth communication, the terminal will attempt to connect to the most recently connected Bluetooth device automatically if no Bluetooth device is connected to it currently.

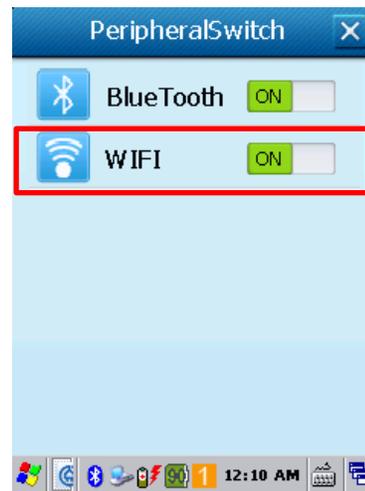


Chapter 5 WiFi

This chapter describes how to connect the PT60 to a WiFi network, how to view WiFi connection details and status, how to set WiFi parameters, and how to diagnose WiFi connection problems.

Connecting to a WiFi Network

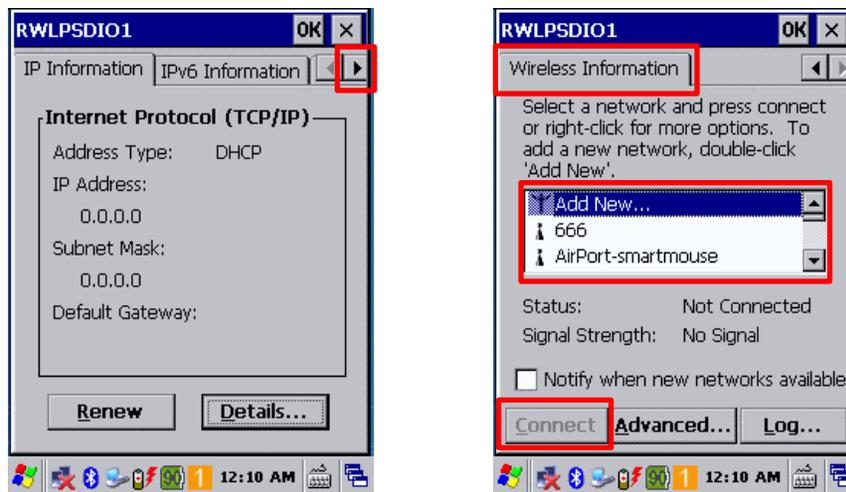
1. Double tap  on the desktop, or tap “Start” → “Settings” → “Control Panel” → double tap , to open the “Peripheral Switch” program. On the “PeripheralSwitch” window, turn WiFi on. Skip this step if it is already turned on.



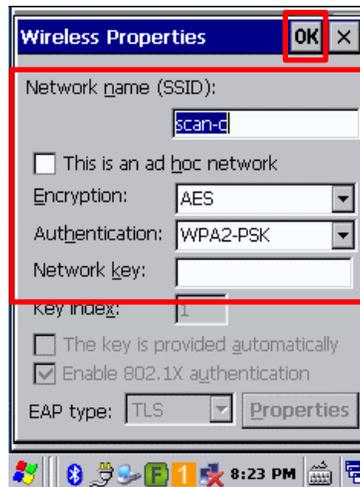
2. Double tap  in the status bar.



3. Tap  then the “Wireless Information” tab. Select a network and tap “Connect”



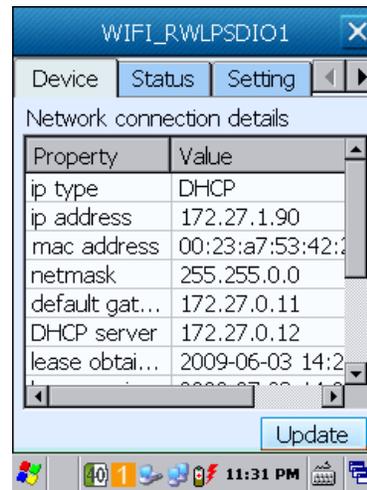
4. Manually enter the wireless settings for the network you want to connect to (Network name, Encryption, Authentication and Network key). Then tap “OK”.



WiFi Tool

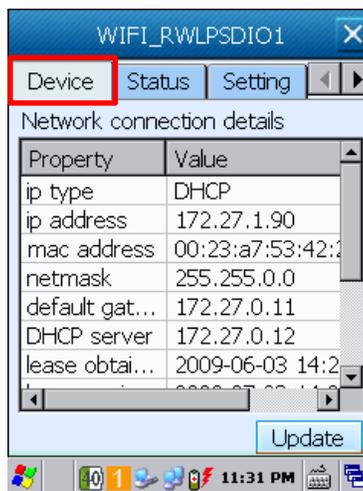
To start the WiFi tool, long press or double press the TOOL key on the PT60 to open the Keyboard Shortcuts menu, locate

and then double tap 



Viewing WiFi Connection Details

You can check network connection information such as IP address, MAC address, gateway and DHCP here.



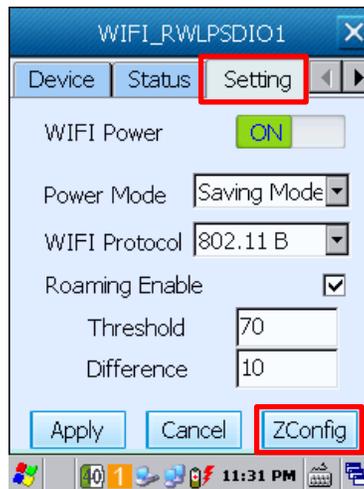
Viewing WiFi Connection Status

You can check the current status of your network connection, SSID, AP MAC address, connection channel and signal strength here.



Setting WiFi Parameters

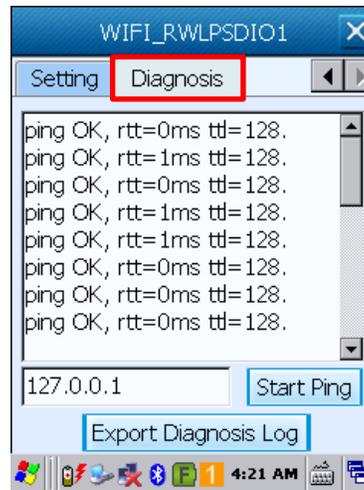
You can turn WiFi on/off, set the power mode and WiFi protocol, and manage roaming settings here.



You can also quickly and conveniently open the WiFi Connection Settings screen by tapping "ZConfig".

Diagonising WiFi Connection Problems

You can test network connectivity with ping and export diagnosis log here.



Chapter 6 ActiveSync

Introduction

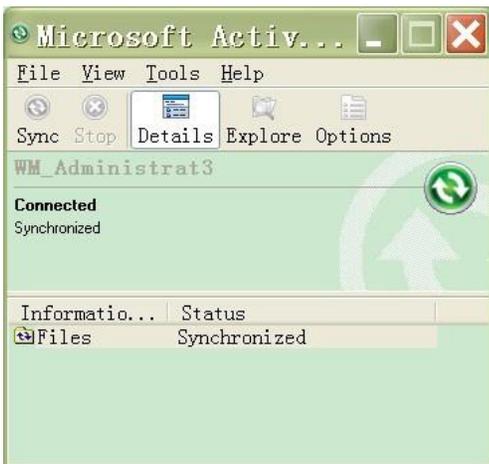
Microsoft ActiveSync (version 4.5 or later) is required when you want to synchronize data between the terminal and PC.

Installing ActiveSync on PC

Download ActiveSync (version 4.5 or later) from the Microsoft website at <http://www.microsoft.com> and install it on your PC.



Synchronizing Data



Chapter 7 Maintenance & Troubleshooting

Introduction

This chapter includes important safety and handling information and provides troubleshooting solutions for issues that might occur when using the terminal.

Important Safety & Handling Information

Disassembly and Retrofit

Do not disassemble or retrofit the terminal by yourself. Unauthorized disassembly or retrofit will void the warranty.

External Power Supply

Use only the included AC adapter. Otherwise there is a risk of damage to the terminal.

Abnormal Situation

Keep the terminal away from fire or heat sources. If there is unusual odor, overheating or smoke during charging, immediately cut off the power and disconnect the AC adapter, and contact your dealer or Newland customer service center. Continued use in this case may result in fire or electric shock.

Drop Damage

If the terminal is damaged due to a drop from high place, immediately cut off the power and contact your dealer or Newland customer service center.

LCD Screen

Do not press against or strike the LCD screen. Otherwise it may damage the screen. When handling a cracked or shattered screen, do not touch the liquid that has leaked from it to avoid skin burn or infection.

Stacking Heavy Objects

Do not place heavy objects on the terminal as those objects may fall and cause injury.

Mounting Location

Do not place the terminal on unstable or uneven surfaces as it may fall and cause injury. Do not expose the terminal to humidity or dust as this may cause fire or electric shock. Do not expose the terminal to direct sunlight for extended periods.

Wireless Functionalities

Do not use the terminal's wireless functionalities where wireless device use is prohibited or where it may cause interference or danger, such as in aircrafts, petrol stations.

Use & Maintenance

- ✧ If the terminal cannot be switched on after experiencing a sudden or unexpected power loss or other abnormalities, perform a cold reset on the terminal by holding down the # key and the Power key at the same time for 10 seconds.
- ✧ Do not throw, drop or strike the terminal. Doing so may damage the LCD display, interrupt running programs, cause data loss in memory and result in malfunction.
- ✧ Clean the scan window regularly. Do not touch it with hands. Scratched or smudged window may degrade reading performance.
- ✧ Do not tap the touch screen with sharp objects. Doing so may damage the screen or cause internal short circuits.
- ✧ Use only a dry soft cloth to clean the terminal. Cleaning it with wet cloth or benzene/ thinner/ other volatile chemicals may deform and shorten the service life of the keypad and shell of the terminal.
- ✧ Do not place the terminal facedown on any surface, or there might be misoperations.
- ✧ Sudden temperature drops may cause condensation on the shell which could cause malfunction. Care should be taken to avoid condensation. If condensation occurs, dry the terminal before use.

Battery Safety Guidelines

- ✧ **Do not dispose of batteries in a fire as they may explode.**
- ✧ The battery can be charged and discharged over 500 times. If the battery life is unreasonably short, please replace the battery with a new one.
- ✧ Use only the included battery and AC adapter.
- ✧ Do not continue to charge a battery that is fully charged. Overcharging will shorten battery lifespan. If a fully charged battery is not used, it will discharge slowly, which does not affect its normal use.
- ✧ Do not use damaged or faulty AC adapters or batteries.
- ✧ **Properly dispose of and recycle batteries. Do not dispose of them as household garbage.**

Troubleshooting

Problem		Possible Cause & Solution
Type	Description	
Keypad	Unresponsive keypad or incorrect response to any key entry.	This problem may be caused by unreliable cable connection between keypad and mainboard or keypad malfunction. Please contact Newland after-sales service.
Battery	Charging LED is OFF when charging.	Ensure the AC adapter is plugged in properly.
	Noticeably short battery life.	<ol style="list-style-type: none"> 1. Check the battery level. If the battery is almost depleted, recharge it. 2. Replace the battery if it is faulty.
	Fully charged battery is depleted after the terminal is switched on.	If the battery is faulty, replace it with a new one.
USB	USB communication failure	<ol style="list-style-type: none"> 1. Ensure that the USB cable connections are secure. 2. Ensure that there is no foreign material in the Micro USB port. 3. If the problem still remains, please contact the after-sales service center.
LCD Screen	No display	<ol style="list-style-type: none"> 1. Ensure the terminal is switched on. 2. If the terminal is in sleep mode, press the Power key to wake it up. 3. Check the battery level. If the battery is depleted, recharge it. 4. Ensure that the battery is properly installed. 5. Replace the battery if it is faulty. 6. If the problem still remains, please contact the after-sales service center.
System	Cannot switch on	<ol style="list-style-type: none"> 1. Check the battery level. If the battery is depleted, recharge it. 2. Switch the terminal on after connecting it to a power outlet using the included AC adapter. If the problem disappears, then continue to charge the terminal. If the problem remains after charging the terminal for a while, replace the battery with a new one.
	System halted	<ol style="list-style-type: none"> 1. The problem may be caused by bugs of downloaded apps. Ensure that only reliable apps are used. 2. The problem may be caused by a sudden or unexpected power loss. Hold down the Power key and “#” key at the same time for 10 seconds to reset the terminal.



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