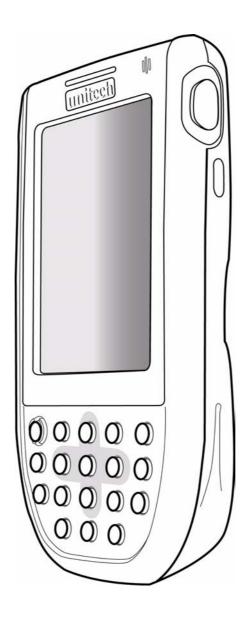


## unitech

# **PA600 Rugged Enterprise PDA**



**User's Manual** 

400546G Rev. A





## **Preface**

## **About This Manual**

This manual explains how to install, operate and maintain the PA600 PDA Barcode Scanner.

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## **Regulatory Compliance Statements**

#### **FCC Statement**

This is a FCC Part 15 Class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

### **Canadian Compliance Statement**

This Class B Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe B respecte les exigences du Reglement sur le material broilleur du Canada.

The device is certified to the requirements of RSS-139-1 for 2.4 GHz spread spectrum devices.

### **European Conformity Statement**

Declaration of Conformity with Regard to the R&TTE 1999/5/EC and EMC 89/336/EEC directives.

## **Laser Information**

The Unitech PA600 series is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 825-1. Class II and Class 2 products are not considered to be hazardous. The PA600 series contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or during prescribed service operations.

The laser safety warning label required by the DHHS/IEC for the PA600 series's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

**CAUTION!** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, and magnifying glasses. This does not include eye glasses worn by the user.

### **Notices**

This unit is equipped with a battery pack and backup battery. It is possible that the Unitech PA600 may not power-on due to battery discharge as a result of storage.

In the above situation, plug the PA600 to the USB charging cable which is with DC in port or put the unit into the Unitech PA600 Cradle (with 5V/2A AC-DC adapter), and recharge the unit for 16 hours in order to fully charge its backup battery.

The backup battery will charge from external power or the main battery (if the main battery still has enough power to turn on). In the event the main battery is fully charged, refrain from using the PA600 for 16 hours in order for the main battery to fully charge the backup battery.

Backing-up data by backup battery only without the main battery installed in battery compartment may take as long as 6 hours. Therefore, in order to prevent data protection failure due to backup battery failure, do not leave the PA962 without the rechargeable battery pack installed, or without connection to AC power for an extended period of time.

### **Battery charge notice**

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is most efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of -5°C to 50°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

### Storage and safety notice

Although charged Lithium-Ion batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens they will require recharging prior to use. Lithium-Ion batteries may be stored at temperatures between-20°C to 60°C, however they may be depleted more rapidly at the high end of this range. It is recommended to store batteries within normal room temperature ranges.



## **Table of Contents**

Preface	
About This Manual	į
Regulatory Compliance Statements	
FCC Statement	
Canadian Compliance Statement	
European Conformity Statement	
Laser Information	i
Notices	i
Battery charge noticeStorage and safety notice	
Chapter 1 Getting Started	1
Introducing the PA600	1
Features	2
Package Contents	3
A Tour of the PA600	4
Front Left ViewBack View	
Getting Started	6
Installing the Battery	6
Charging the Battery	
Charging the Battery using the USB Cable	
Charging the Battery with the Docking Station	
Checking the Battery StatusConnecting the PA600 to a PC	
Turning the PA600 on for the First Time	
Powering On	
Calibrating the PA600 Screen	12
Chapter 2	
Using the Hardware	14
Keypads and Function Buttons	14
Adjusting the Screen Brightness	16
Using the Stylus	16
Using the SD/MMC memory card	17
Inserting a Storage Card	
Removing a Storage Card	
Using the Laser Scanner	

Getting Connected	20
Establishing Device-PC Connection	
Installing Microsoft ActiveSync  Connecting the Device to Your Computer	
Synchronizing with Your Computer	
Connection options	
USB Connection	
Infrared Connection	
Bluetooth Connection	
Synchronizing Information	
Synchronization Options	
Using ActiveSync to Exchange Files	
Chapter 4	
Barcode Scanner Programs	32
Scan2Key	32
Scanner Setting	32
Barcode Symbologies	33
Chapter 5	
Advance settings	34
Adjusting Settings	34
Checking the Main and Backup Battery Status	35
Extending Battery Life	36
Changing the Automatic Power Settings	
Adjusting Backlight Setting	
Viewing Flash Memory Files	38
Performing a hardware reset	39
Preforming a Cool Boot	
Method 2	
Appendix	
System Specifications	42



## **Chapter 1**

## **Getting Started**

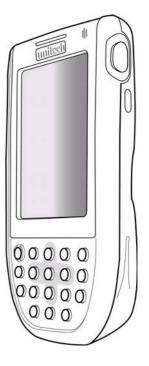
## **Introducing the PA600**

Thank you for purchasing the PA600 PDA Barcode Scanner.

Your PA600 was designed for user who need a compact and durable PDA for data collection and real time transactions.

The PA600 is a rugged, compact and lightweight palm-size computer using the Windows Mobile 5.0 operating system, and incorporating an integral bar code scanning laser device, color LCD with touchscreen, keypad, IrDA interface, and wireless communication capability. It provides users with a standard Windowsbased environment for customizing and operating the device.

To reduce TCO, the PA600 is sealed to meet IP54 standards and has undergone multiple drop tests to prevent downtime.



## **Features**

### Powerful system

- Microsoft Windows Mobile 5.0 / Windows CE NET 5.0 operating system
- Intel PXA270 processor with speed of up to 520 MHz

### System memory

- 64 MB SDRAM
- 128 MB Flash ROM

#### **Display**

- 3.5-inch QVGA LCD touch-sensitive screen
- 320 x 240 resolution

#### **Barcode scanner**

- Built-in Bar Code Scan Engine
- Built-in vibrator for scanning indication
- CCD scan engine (optionary
- Symbol SE950 support
- UNITECH HAMSTER barcode decoder

#### Communication

- USB Host & Client
- IrDA 1.2 (SIR)
- GPRS (Data Only)
- VOIP support
- 802.11b/g for power saving
- Bluetooth version 1.2 (supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync)

#### **Audio**

- Voice recording and playback
- MIC
- Speaker
- Headset Connector
- Receiver

### Wireless connectivity

- 802.11b + g with diversity antenna
- Bluetooth wireless technology
- Serial infrared port

#### **Expansion slot**

SDIO slot

### **Battery life**

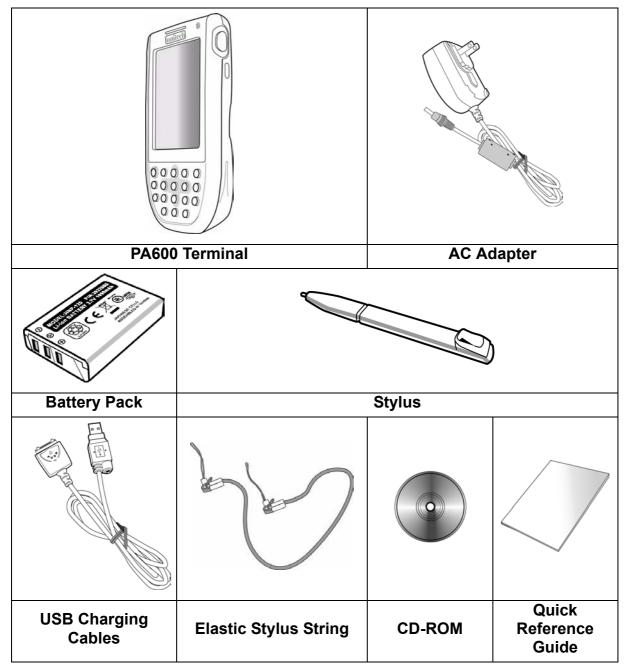
- Normal usage: 6 hours
- Charging time: 3.5 hours
- · Embedded backup battery cell

### **User-friendly interface**

- Quick launch hot keys for enabling backlight, calibration, software keyboard, and other device management tasks
- Trigger keys for barcode scanning

## **Package Contents**

After opening the box, ensure the following accessories for the PA600 are present:

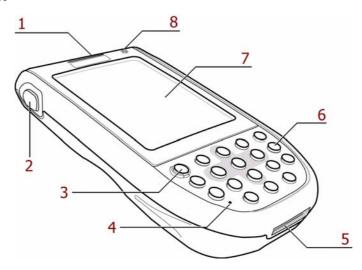


If anything is missing or appear damaged in any way, contact your dealer.

## A Tour of the PA600

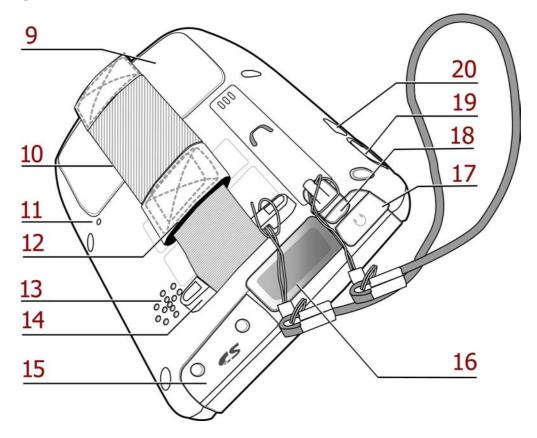
The following sections describe the main components and features of the PA600.

## **Front Left View**



No.	Component	Description
1.	Status indicator	Indicates the battery charging and barcode scanning status.  Green - Battery is fully charged, the device is running on battery power, or barcode scanning
		process is completed without error.
		<b>Red</b> - Battery is charging, barcode scanner is activated and processing.
2.	Left scanner trigger button	Press to activate the barcode laser scanner.
3.	Power button	If the device is off, press this button to turn it on.
		Alternatively, when the unit is on, this key must be pressed and held down for about two seconds in order to turn the device off.
4.	Microphone	Enables you to record voice audio.
5.	Universal connector	Connects your device to a USB charging cable, which in turn connects to the computer's USB port and through the AC adapter to an electrical outlet.
		This allows you to recharge your device and perform an ActiveSync operation.
		You can also use it to connect a peripheral hardware, such as an docking station, to your device.
6.	Keypad	Keypad interface for controlling the PA600. See <i>Keypads</i> and Function Buttons on page 14 for more information.
7.	LCD Touch screen	Displays the applications and data stored on your device. It is touch-sensitive and responds to the stylus or finger.
8.	Speaker	Enables you to hear audio from the PA600.

## **Back View**



No.	Component	Description
9.	Battery compartment	Houses the Removable and rechargeable 3.7 V, 1950 mAH battery pack
10.	Battery compartment release latch	Opens the battery compartment.
11.	Reset button	Press the end of the stylus into the button to reset your device.
12.	Handstrap	Enables you to securely hold the PA600 while using it.
13.	Speaker	Enables you to hear audio from the PA600.
14.	Strap holder	Attachment location for holding hand strap, carrying strap, and stylus.
15.	Memory card slot	Accommodates Secure Digital memory cards.
16.	Barcode scanner window	Used to scan barcodes.
17.	Earphone jack	Connects to audio line-out devices (earphones or headphones) for use in noisy environments.
18.	Stylus	Enables you to interact with the operating system. To use the stylus, remove it from its holder and hold it the same way you hold a pen or pencil.
19.	Right scanner trigger button	Press to activate the barcode laser scanner.
20.	Infrared (IR) port	Uses infrared technology to transmit and receive data from other IR-enabled devices.

## **Getting Started**

This section explains how to install and charge the battery, how to check battery status, how to turn on the PA600, and how to calibrate the screen.

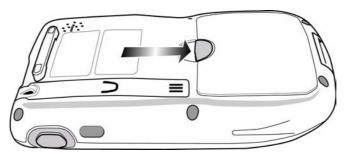
### **Installing the Battery**

**WARNING!** There is a risk of fire and burns if the battery pack is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service the battery pack. Dispose of used batteries according to local recycling guidelines in your area.

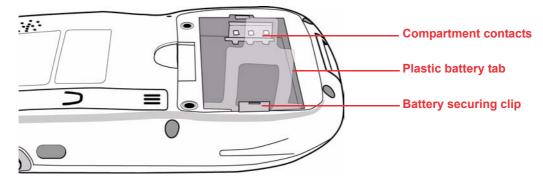
A backup battery cell is embedded into your device to prevent data loss in instances when the removable battery pack is removed or completely discharged. This backup battery cell will only support the system for a maximum of 60 minutes,

**NOTE:** To enable the internal battery cell to provide backup power supply, charge your device with the main battery pack for at least 12 hours.

1. Open the battery compartment by pushing the latch in the direction of the arrow and lifting up.

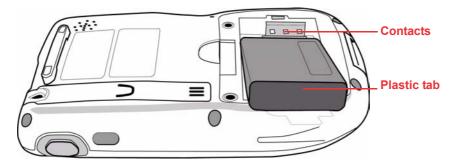


The battery compartment is displayed:

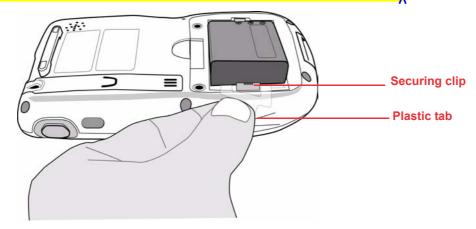


**NOTE:** The plastic battery tab makes it easy to remove the battery.

2. Position the battery pack, making sure the battery contacts are aligned with the contacts in the compartment and the battery is placed on top of the plastic tab, as shown in the following illustration.



3. Slide the battery pack into the battery bay while simultaneously pulling the plastic tab and securing clip until the battery clicks into place,



4. Replace the battery compartment cover.

### **Charging the Battery**

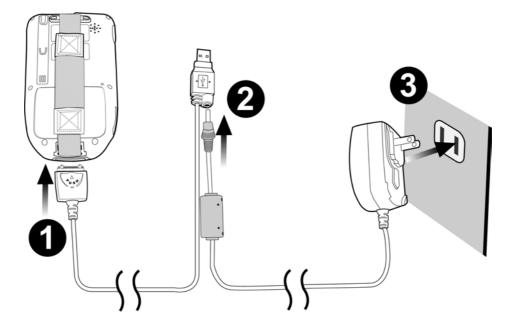
Before using the PA600 for the first time, you need to charge it for about 16 hours. After that, you can charge the PA600 every day to recharge the battery to full cap. Charge the PA600 using the USB charging cable or the docking station.

**CAUTION!** Operating the PA600 for the first time without the AC adapter, and without fully charging the backup battery may result in loss of data stored in RAM memory. When the main battery is removed, the backup battery retains RAM data in memory for 2 hours, please charge the battery for the period to avoid the data loss in RAM memory.

**NOTE:** Data you enter may not be properly stored until the built-in backup battery has been adequately charged.

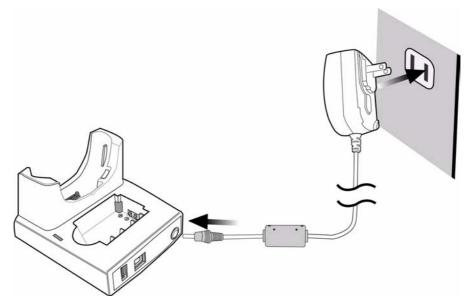
#### Charging the Battery using the USB Cable

- 1. Press and hold the connector button on the USB charging cable and connect it to the PA600 (1).
- 2. Plug the AC adapter cable into the power jack on the USB charging cable (2).
- 3. Connect the AC adapter into an electrical outlet (3).



### Charging the Battery with the Docking Station

1. Plug the AC adapter cable into the power jack on the docking station, then connect the AC adapter into an electrical outlet.



2. Slide the device into the docking station until it clicks into place.



3. The connection is secure when the bottom edge of the device is aligned with the docking station, and the LED indicator on the device lights up red.

#### **LED Status**

	LED	Meaning
PA600	Solid Red	Charging
	Solid Green	Charging complete
Docking Station	⊕ Power LED	Power is on
	Charging LED:	Charging
	Sync LED	Synchronization is taking place

#### Checking the Battery Status

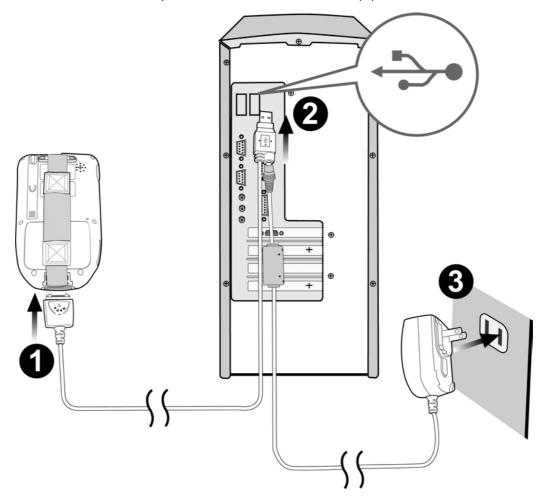
If the battery level becomes low in the course of normal use, a status icon appears on the device screen indicating low or very low battery status. In both cases, perform an Active-Sync operation to back up your data, then recharge your device as soon as possible.

If the battery level reaches low status, the device will enter sleep mode; if the battery level reaches very low status, the device will enter deep sleep mode. In this case, you have about 72 hours to recharge your device after which you risk losing all data on your device's internal memory.

### Connecting the PA600 to a PC

Use the USB cable to connect the PA600 to a PC to use with ActiveSync.

- 1. Press and hold the connector button on the USB charging cable and connect it to the PA600 (1).
- 2. Plug the USB connector into the USB port on the PC and connect the AC adapter into the USB connector (2).
- 3. Connect the AC adapter into an electrical outlet (3).



### Turning the PA600 on for the First Time

After you have initially charged your device for about 12 hours, the device is ready to be used. You can now start up your device where you'll calibrate the display, learn some basic stylus usage, and set up the system time zone, date and time.

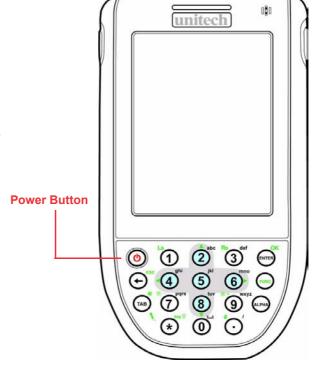
### Powering On

1. Turn on your device by pressing the power button on the front panel.

NOTE: The PA600 screen ships with a protective plastic film. You may remove this if desired by peeling from one corner. The screen will be more susceptible to scratching without the film, but will

be more readable.

2. The Unitech PA600 welcome screen appears for a moment followed by the Windows CE screen.



### Calibrating the PA600 Screen

The calibrate screen automatically appears when the unit is powered-on for the first time or after the system is reset.

To calibrate the screen at any time, follow these instructions.

- 1. Tap **Start**  $\rightarrow$  **Settings**, and then click the **System** tab.
- 2. Tap the Screen icon.

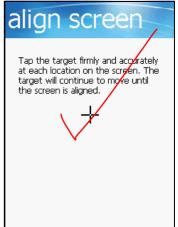


The Screen Settings window appears.

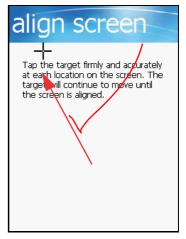
This window enables you to customize the screen settings.



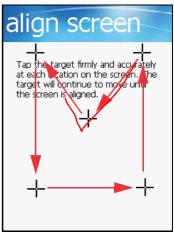
- 3. Tap **Align Screen** to calibrate the screen. The align screen window appears.
- 4. Tap the cross hair firmly and accurately.



The cross hair moves to the next location.



5. Continue tapping the cross hairs until the screen has been calibrated.





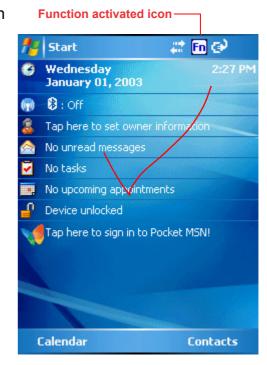
## **Chapter 2**

## **Using the Hardware**

## **Keypads and Function Buttons**

The keypad enables you to both enter information and interact with the PDA operating system and also operate secondary functions using the function button. When the green function button is pressed, the green icon functions on the keypad become available.

When the Function button is pressed, an icon appears in the operating system:



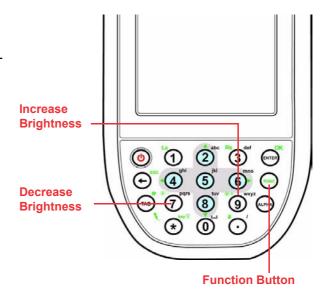
The following table describes the keypad keys.

Key	Main Function	Secondary Function
<b>6</b>	Turns the PA600 on and off.	
1	Number 1	Left soft key - activates function above in LCD screen.
2abc	Alphanumeric 2, a, b, c	Up navigation key
Rs def	Alphanumeric 3, d, e, f	Right soft key - activates function above in LCD screen.

Key	Main Function	Secondary Function
ENTER	Enter key	ОК
$ \Theta $	Back space	Escape key
4 ghi	Alphanumeric 4, g, h, i	Left navigation key
<b>5</b>	Alphanumeric 5, j, k, l	_
<b>6</b>	Alphanumeric 6, m, n, o	Right navigation key
FUNC	_	Enables disables secondary function keys
TAB	Tab	Windows key opens Start menu
* Opers	Alphanumeric 7, p, q, r, s	Decreases screen brightness
8 tuv	Alphanumeric 8, t, u, v	Down navigation key
**************************************	Alphanumeric 9, w, x, y, z	Increases screen brightness
ALPHA	Alpha	_
**************************************	Asterisk	Illuminates keypad
<b>©</b>	Number 0, space	_
<b>*</b> O′	Period	Pound

## **Adjusting the Screen Brightness**

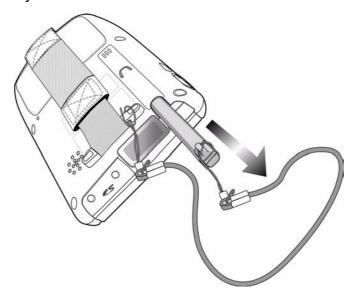
Adjust the screen brightness by pressing the Function button to enable the soft keys and pressing the 7 (decrease brightness) or 9 (increase brightness) buttons.



## **Using the Stylus**

**CAUTION!** Never use anything other than the PA600 stylus on the screen. Using another object as a stylus could cause permanent damage.

1. Remove the stylus from its holder.



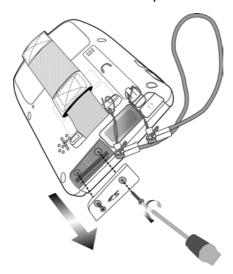
- 2. Hold the stylus as you would a pencil.
- 3. To make a choice from a menu, lightly tap the tip of the stylus on that choice.
- 4. To write data into a field on a form, use the stylus to print the letters or numbers. Use very light pressure.

## Using the SD/MMC memory card

Your device has an expansion slot compatible with a range of SD and MMC storage cards, which are primarily used to back up or transfer files and data. The slot also supports SDIO cards for added connectivity options.

### Inserting a Storage Card

1. Remove the two screws from the SD compartment cover and remove the cover.



2. Insert the SD card with the notched corner as shown by the icon on the case.



3. Push the card into the slot until you hear an audible system sound; this will signal that the card is already properly seated within the slot.

The card is secure when it is not protruding from the slot.

### Removing a Storage Card

- 1. Remove the two screws from the SD compartment cover and remove the cover.
- 2. Press the card in and release.
  - The card pops out. An audible system sound will signal that the card has been released.
- 3. Remove the card from the slot.

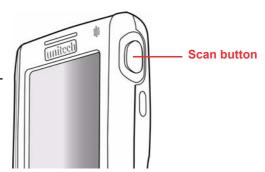
## **Using the Laser Scanner**

The PA600 has an integrated laser scanner which reads all major bar code labels with excellent performance.

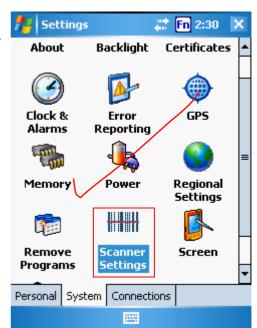
**NOTE:** Reading software must be enabled in order to operate the scanner. This can be a user-loaded application or a pre-loaded utility such as Scanner Setting.

Activate the laser scanner by pressing either one of the trigger keys located on the left and right side of the unit.

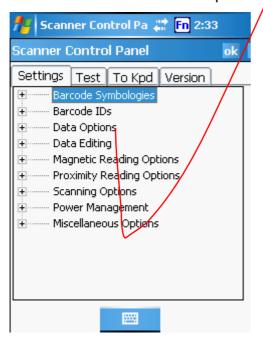
The PA600 has a built-in Scanner Setting utility that allows you to test the device's barcode scan function.



 To launch Scanner Settings, tap Start → Settings → System → Scanner Settings.

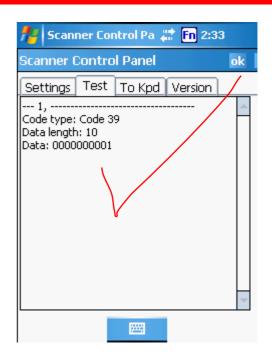


2. The Scanner Control Panel opens.



From here you can configure barcode scanner parameters such as enabling or disabling barcode symbologies, setting data transmission options, configuring magnetic and proximity reading options, and setting power management options.

3. To test the barcode scanner, tap the Test tab and press one of the scanner buttons on a barcode. The screen will display the results of the scan.





## **Chapter 3**

## **Getting Connected**

## **Establishing Device-PC Connection**

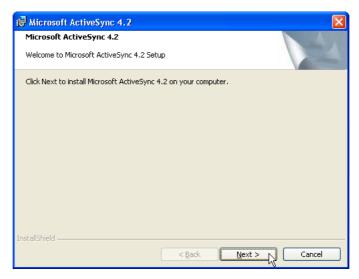
### **Installing Microsoft ActiveSync**

In order to exchange data between your computer and PA600, Microsoft ActiveSync must be installed on your computer. Use the USB charging cable that comes with your device to connect the device to your computer.

NOTE: If you have a previous version of the Microsoft ActiveSync installed in your computer, uninstall it first before installing the latest version of Microsoft ActiveSync.

To install Microsoft ActiveSync on your computer:

- 1. Close any open programs, including those that run at startup, and disable any virus-scanning software.
- 2. Download the ActiveSync software from the Microsoft ActiveSync Download page at
  - http://www.microsoft.com/windowsmobile/ downloads/activesync42.mspx.
- 3. Browse to the location of the downloaded file, and double-click it. The installation wizard begins.

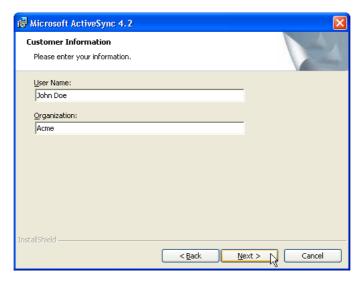


4. Click Next.

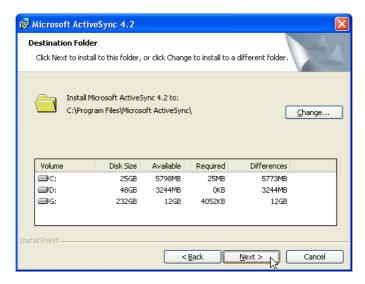
You are prompted to read the End User License Agreement (EULA).



Accept the license agreement terms and click **Next**.You are prompted for user information.

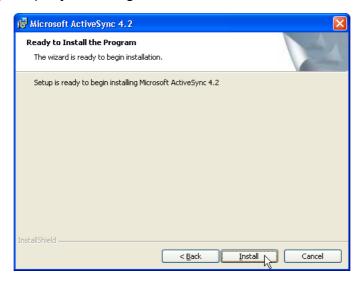


Type the user name and organization and click **Next**.You are prompted for the destination folder.



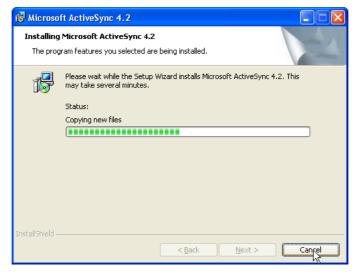
7. Select a drive to install the program to and click **Next**.

The installation wizard has gathered the information it needs to install Active-Sync and prompts you to begin installation.

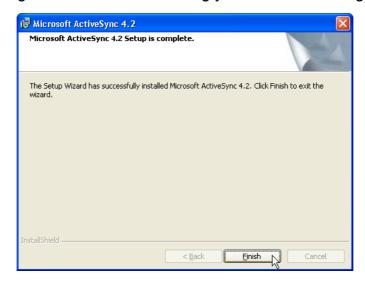


8. Click Install.

The program begins installation



After the program has finished installing you see the following screen.



#### 9. Click Finish.

You may be prompted to restart your computer.

After you have installed ActiveSync and restarted your computer, the ActiveSync icon appears in your computer's system tray as shown and ActiveSync Connection Wizard starts. For detailed information on how to use ActiveSync on your computer, start ActiveSync then click **Help** → **Microsoft ActiveSync Help**.

### Connecting the Device to Your Computer

- After ActiveSync has been installed, connect the USB charging cable to the universal connector on the bottom of your device. If necessary, connect an adapter. Refer to Connecting the PA600 to a PC on page 10.
- 2. Plug the other end of the USB charging cable into a USB port on your computer.
- 3. Turn the device on.
- 4. ActiveSync starts automatically and configure the USB port to work with the PA600. The New Partnership setup wizard will automatically start.

**NOTE:** If ActiveSync doesn't start automatically, click  $Start \rightarrow Programs \rightarrow Microsoft ActiveSync.$ 

If a message appears indicating that it is unable to detect a connection, click the **Cancel** button and manually configure the communication settings.

- 5. Follow the onscreen instructions.
- When the configuration process is complete, the ActiveSync window appears.



7. Synchronization will be initialized and will take place if you've chosen to synchronize periodically or upon connection.

Your computer can create a partnership with multiple PA600s. Also, a PA600 can create a partnership with up to two computers.

## **Synchronizing with Your Computer**

Synchronization takes place according to the options you choose while setting up ActiveSync on your computer. If you accept the default (On Connect) synchronization option in the Microsoft ActiveSync Setup Wizard, you'll be able to simply connect your PA600 to your desktop computer and synchronization will take place.

If you have not enabled the On Connect feature in Active Sync, you can start Active-Sync in either of the following ways:

- On your computer, double-click My Computer → Mobile Devices folder.
- Connect the USB cable between the computer and PA600.
- Execute "Rellpog.exe" from the PA600 Windows directory

### **Connection options**

You can set remote synchronization with your computer using the following connection options:

- USB connection
- · Infrared connection
- Bluetooth connection
- WiFi connection

#### **USB Connection**

To synchronize with your computer using a USB connection:

- 1. Open ActiveSync.
- 2. Connect your device to your computer using the USB charging cable.
- 3. Initiate connection by tapping **Start** → **Programs** → **ActiveSync**.
- 4. Tap Menu → Connections.
- Select Synchronize all PCs using this connection check box.
- 6. Select a baud rate or cable type connection.
- 7. Tap **OK**.



#### **Infrared Connection**

The infrared port allows you to synchronize information with an infrared enabled computer. Align the infrared port of your device with the infrared port on the computer.

This method is ideal for quickly switching between multiple devices since there are no cables or adapters to change.

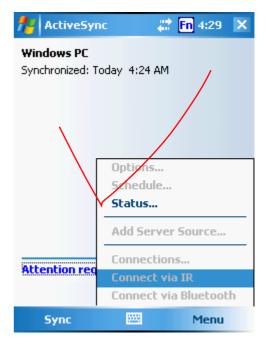
- 1. Perform the steps below on your computer:
  - a. Configure an infrared port on your computer following the manufacturer's instructions.
  - b. Once your computer's IR port is ready, open ActiveSync.
  - c. Click File  $\rightarrow$  Connection Settings.



- d. Check Allow connections to one of the following and select Infrared Port (IR) from the drop-down list.
- e. Click OK.



- 2. Perform the steps below on your device:
  - a. Align the IR port of your PA600 with that on your computer so that they are unobstructed and within close range.
  - b. Initiate connection by tapping Start  $\rightarrow$  ActiveSync  $\rightarrow$  Menu  $\rightarrow$  Connect via IR.
  - c. Tap Sync.

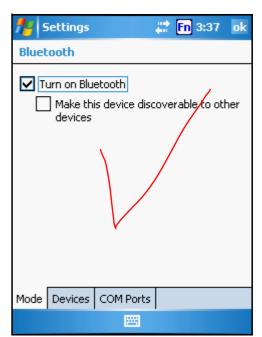


### **Bluetooth Connection**

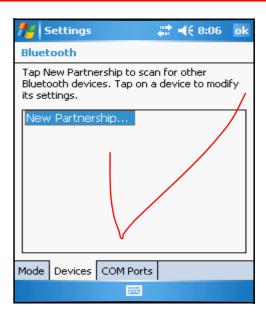
Your device is equipped with Bluetooth wireless technology that you can use to synchronize information with a computer equipped with a Bluetooth adapter or access point. Bluetooth wireless technology allows you to communicate with the computer whenever it is within range.

Follow these instructions to set up a Bluetooth connection.

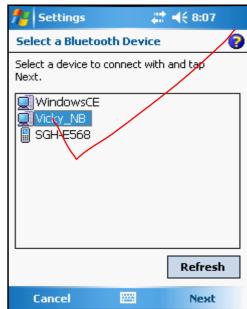
 Tap Start → Settings → Connections Bluetooth → Mode and check Turn on Bluetooth.



2. Tap Devices → New Partnership...

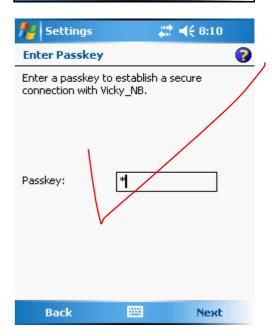


3. Select a device from the list and tap Next.



You are prompted for a passkey.

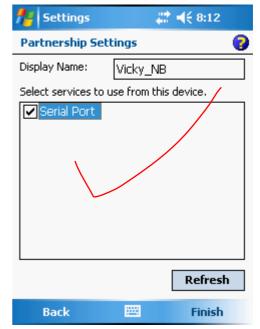
4. Enter the Passkey.



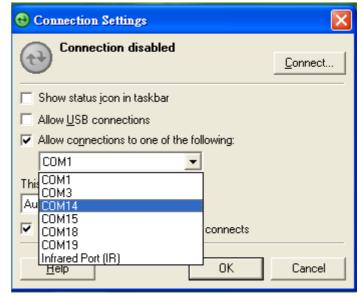
- On the PC screen, you are prompted to enter the Bluetooth PIN Code Request.
- 5. Enter the same Bluetooth PIN Code you entered in step 4.



6. On the PA600 tap **Partnership Settings** → **Check Serial Port** → **Finish**.



- On your PC, click Active-Sync → Connection Setting → Select COM Port (COM 14) → OK
- On the PA6008 tap Start → Programs → ActiveSync → Menu → Connect via Bluetooth.



#### WiFi Connection

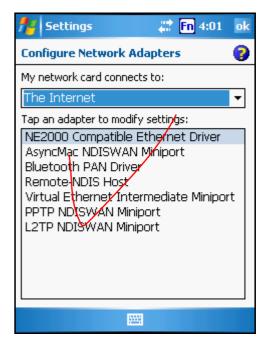
With the device's embedded WLAN module, you can send and receive signals to a WiFi network then synchronize files.

**NOTE:** WiFi access requires a separate purchase of a service contract with a wireless service provider. Contact a wireless service provider for more information.

A wireless network can be added either when the network is detected or by manually entering settings information. Before doing these steps, determine if authentication information is needed.

- 1. Tap **Start** → **Settings**, then tap the **Connections** tab.
- 2. Tap Network Cards.

The Configure Network Adapters screen appears.



- 3. Select whether the network card connects to the Internet or your work LAN from the drop-down list.
- If there are networks already detected, tap and hold network name, then select Connect.
- 5. Under the Network to access, select from the following network connection options:
  - All available
  - Only access points
  - Only computer-to-computer
- 6. When finished, tap **OK**.

For more information on how to configure the wireless network settings, tap **Start**  $\rightarrow$  **Help**.



#### **Synchronizing Information**

All files created on the device are stored in My Document/PA600 My Document folder (if the designated device name is PA600). You can view files by double-clicking the PA600 My Documents icon on your computer.

If you have enabled file synchronization, your PA600 files are automatically synchronized in the My Documents folder on your computer, unless a different name was chosen for PA600.

#### **Synchronization Options**

Synchronization options can be modified, including when you synchronize and what gets synchronized. In the Mobile Device window, click **Tools**  $\rightarrow$  **Sync Options**.

For each type of information, the synchronization process can be hastened by limiting the amount of data to be synchronized. To do this, select a service and click the Settings button. After enabling a service, you must close and reopen the ActiveSync.

#### Using ActiveSync to Exchange Files

You can use ActiveSync to exchange information from your device your computer and vice versa. Changes you make to the information on one location will not affect the information on the other one. If you want to automatically update information on both your device and computer, synchronize the information instead.

You can copy two types of information to your device: files and Pocket Access Windows CE Store information.

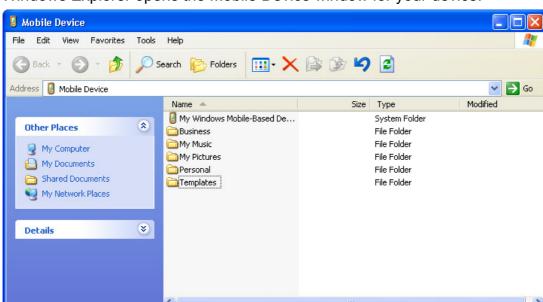
The procedure below only applies to copying files. Refer to the ActiveSync Help on your computer for instructions on how to copy Pocket Access Windows CE Store information.

**NOTE:** Files created on your computer may need to be converted by Active-Sync so that they can be viewed and edited on your device, and vice versa.

#### To copy files:

- Connect your device to your computer.
- 2. In ActiveSync on your computer, click **Explore**.





Windows Explorer opens the Mobile Device window for your device.

- 3. Locate the file that you want to copy on your device or computer.
- 4. Do either one of the following:

6 object(s)

 To copy the file to your device, right-click the file and click Copy. Place the cursor in the desired folder for your device, right-click, then click Paste.

Mobile Device

 To copy the file to your computer, right-click the file and click Copy. Place the cursor in the desired folder for your computer, right click, then click Paste.



# **Chapter 4**

# **Barcode Scanner Programs**

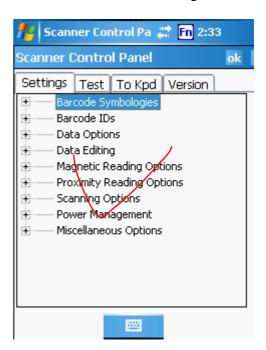
#### Scan2Key

The Scan2Key application routes input from a scanner port to a keypad buffer, making all input from the scanner emulate input from the keypad. Using Scan2Key, scanned data can be directly input into a scanner port aware application such as MS Mobile Word.

#### **Scanner Setting**

When it is necessary for the user to change the default barcode symbology for a different application, the Scanner Control Panel provides the ability to change default symbology, place delimiter characters behind scanned data, and save the settings.

Tap Start  $\rightarrow$  Settings  $\rightarrow$  System  $\rightarrow$  Scanner Settings to display the Scanner Control Panel.



### **Barcode Symbologies**

Barcode Symbology	Enable/ Disable	Check Char/Digit verification	Transmit Check Char/digit	Max/ Min Length	Transmit Leading Digit	Other
Lookland EAN	YES					
Codabar	YES	YES	YES			Transmet Start/ Stop bits, CLSI format, *data length
Code 11	YES		YES			* check digits, *data length
Code 128	YES					*data length
Code 32	YES				YES	Transmit Tailing digit
Code 39	YES	YES				For ASCII, Transmit Start/Stop bits, Function Code, Double label decoding,*data length, *double labels separator
Code 93	YES		Yes			*data length
Deta Code	YES	YES	YES			
EAN 128	YES		Yes			Transmit Code ID,  * Field separator
EAN 13	YES	YES			YES	
EAN 8	YES	YES			YES	* Not suppress first or last digit, *data length
Interleaved 2 of 5	YES	YES	YES			Fixed Length, * Not suppress first or last digit, *data length
Label Code IV&V	YES		YES			
MSI/Plessey	YES		YES			* Check digit double module 10, * data length
Standard 2 of 5	YES	YES	YES			Fixed Length, *Data Length
Telepen	YES					*Standard Character Set
UPC A	YES		YES		YES	
UPC E	YES		YES		YES	Zero Expension,NSC
UPC/EAN Group						Supplement 2, Supplement 5,Insert Space before supplement, most have supplement, *Add-on code try level

Note: \*Value Adjustable Scanner Control Pannel V3.0



# **Chapter 5**

## **Advance settings**

### **Adjusting Settings**

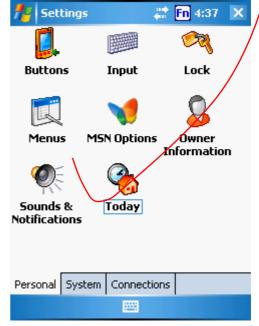
This section describes how to adjust the settings of your device to accommodate your work habits.

To access Settings, tap **Start**  $\rightarrow$  **Settings**.



The Settings screen appears.

From here can adjust such user configurable items as the backlight, auto power off timer, system volume, and processor speed. You can also assign functions to buttons, configure menus, enter owner information, and set up connections.

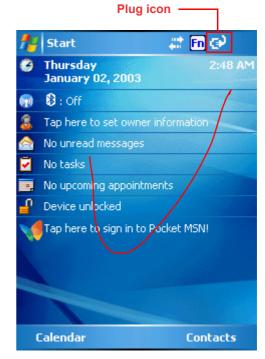


### **Checking the Main and Backup Battery Status**

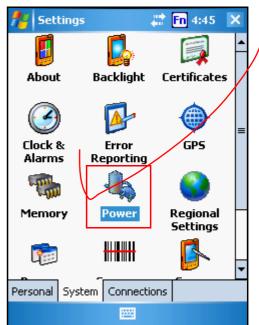
This section describes how to view the power level for both the main and backup battery. To minimize power consumption, you can define settings for the auto-off function and the processor's operation speed.

To check the main and backup battery status:

- 1. Open Power Properties. Do either of the following:
  - If the Plug or Battery icon appears on your device, double-tap the icon to bring the Power Properties screen.



- Tap Start  $\rightarrow$  Settings  $\rightarrow$  System  $\rightarrow$  Power.

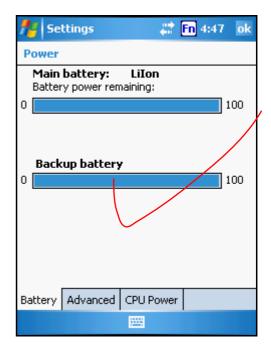


The Power screen appears.

2. The battery menu item displays the status of the main and backup batteries.

On the screen shown here, both batteries are at almost 100% charge.

NOTE: It is necessary to charge the battery when the battery charge reaches below 10%. If the battery does not accept a charge, contact Unitech Technical Support.



#### **Extending Battery Life**

You can extend the PA600 battery life by doing either of the following:

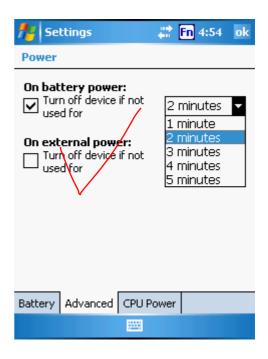
- Change the automatic power settings
- Minimize the use of backlight

#### **Changing the Automatic Power Settings**

The PA600 will enter idle mode when there is no task, or all tasks are waiting for input. In default setting, the PA600 automatically turns itself off if it remains idle for 3 minutes and when there is no external charging power connected. Pressing the power button returns the PA600 to the same point at the time of automatic shutdown.

To change the automatic power settings:

- 1. In the Power screen tap the **Advanced** tab.
- 2. Tap the automatic shut off time arrow to select from a list of time periods. The available time periods are 1, 2, 3, 4, and 5 minutes.
- 3. This function can also be activated when the PA600 is plugged into the power adapter or placed in its docking station by tapping the **On external power** check box and then tapping the arrow to select from a list of time periods. The available time periods are 1, 2, 5,10, 15 and 30 minutes.



#### **Adjusting Backlight Setting**

The power consumption of the LCD backlight is high, turn off the backlight function if it is not necessary.

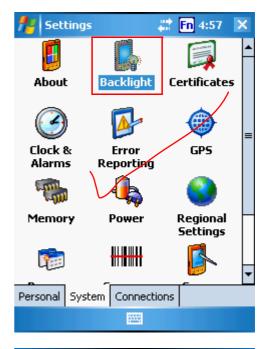
If a backlight is required, set "automatically turn off the backlight" function.

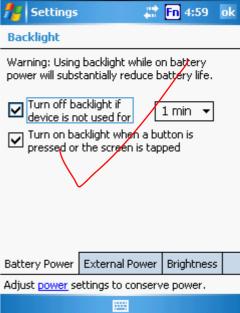
To change backlight settings:

- 1. Tap Start → Settings → System.
- 2. Tap Backlight.

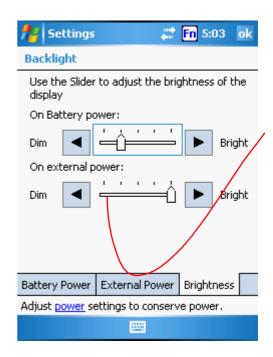
The Backlight screen appears.

- 3. Do any of the following:
  - In the Battery Power tab, tap the Turn off backlight if device is not used for check box and select the amount of time before the unit turns off the backlight while running in battery power mode from the drop-down list.
  - In the External Power tab, tap the Turn off backlight if device is not used for check box and select the amount of time before the unit turns off the backlight while running in battery power mode from the drop-down list.
  - Tap the Turn on the backlight key...
     checkbox to activate the backlight when the software keyboard is enabled.





 In the Brightness tab, tap and drag the slider to choose a dimmer backlight when operating on battery power.



### **Viewing Flash Memory Files**

Flash memory is rewritable location for programs and data files. The benefit of this feature is that files and programs saved in Flash Memory are unaffected by the PA600 power status.

To access the Flash Memory files:

- 1. Connect the device to your computer. See page 24.
- On your computer, click My Computer ➤ Flash Storage.

To transfer files to Device's Flash Memory:

- 1. Connect the device to your computer. See page 24.
- 2. On your computer, click My Computer > Flash Storage.
- 3. Select the file that you want to save.
- 4. Click File > Save To and select Flash Storage.

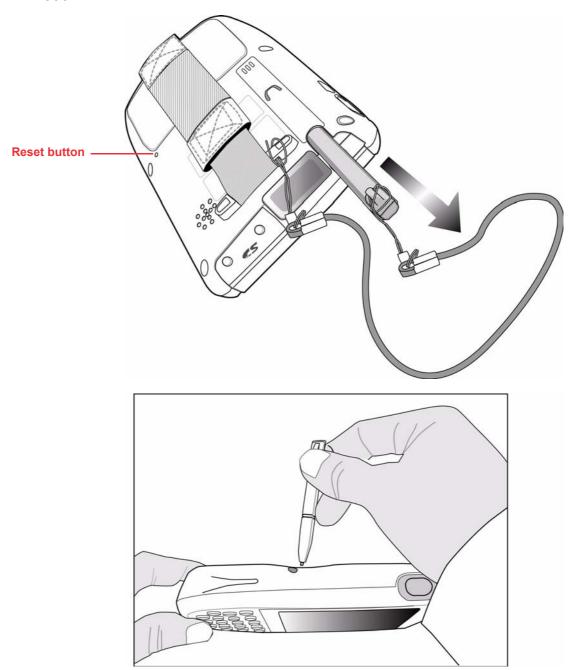
### Performing a hardware reset

You may have to perform a reset if the device freezes (i.e., device no longer responds to the buttons on the screen).

A soft reset allows your device to get a fresh start, similar to rebooting a computer. This will restart your device and adjust memory allocation. All records and entries are retained after a soft reset. Unsaved data in open programs may in some cases be lost.

#### **Performing a Warm Boot**

- 1. Remove the stylus from its holder.
- 2. Lightly press the tip of the stylus to the reset button located on the rear of the PA600.



#### **Preforming a Cool Boot**

A hard reset cuts off power to your device, erasing all records and entries, deleting all programs you have added, and restoring the device to default factory settings.

Never perform a hard reset unless a soft reset does not correct your problem. When you perform your next ActiveSync operation, you can restore any data that you previously synchronized to your computer or you can restore data that you backed up to a storage card.

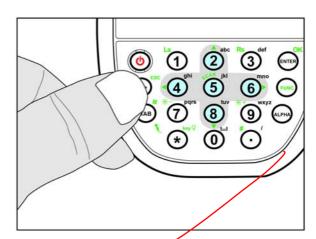
NOTE:

When you perform a hard reset, the date and time settings are not be retained. Formats, preferences, and other settings are restored to their default factory settings.

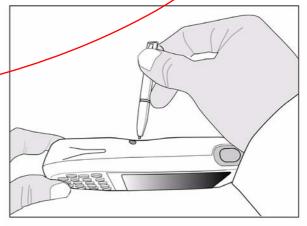
#### Method 1

Follow these instructions to perform a cool boot.

Press and hold the Backspace key.



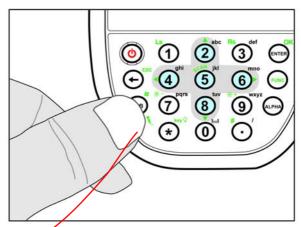
2. While holding the Backspace key, insert the tip of the stylus into the reset hole on the back of the PA600 and press and hold the reset button until you see the Unitech splash logo screen appear and then release the Backspace and reset buttons.



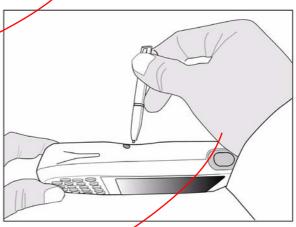
NOTE: The system is returned to the default settings. All registry settings and all files (include the hidden files) are returned to their original factory defaults

#### Method 2

1. Press and hold the TAB key.



2. While holding the TAB key, insert the tip of the stylus into the reset hole on the back of the PA600 and press and hold the reset button until you see the Unitech splash logo screen appear and then release the TAB and reset buttons.



**NOTE:** All registry settings are returned to default settings. You must reinstall all software. All files in flash memory are retained.



# **Appendix**

# **System Specifications**

Processing/Memory	CPU	Intel PXA270 520MHz
	Memory	SDRAM:64MB Flash ROM:128MB
OS	Window Mobile 5.0 / Windows CE.NET 5.0	
Keypad	18-Key, including numeric key, alpha key and function key	
Display	240x320 QVGA, Color Transflective TFT, with Touch Screen & backlight	
Scanner	Laser Scan Engine, CCD Scan Engine as optional	
Indicator	Led, Vibrator	
Communication	USB Host & Client IrDA 1.2(SIR) GPRS (Data Only) 802.11b/g for power saving Bluetooth Bluetooth supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync	
Audio	MIC Speaker Headset Connector Receiver	
Expansion Slot	SDIO slot	
Power Source	Main	3.7V 1950mAH Li-ion battery pack
	Backup	One rechargeable Ni-MH backup battery
Enclosure	Weight	Under 300g with battery & scan engine
	Dimension	Approximately L149.5 X H26.6 X W85mm
Environmental	Operating temperature	0 C~ 50 C
	Storage temperature	-20 C~ 60 C
	Relative Humidity	5% ~ 95%(non-condensing)
	Drop test to Concrete	4 feet
	Environmental Sealing	IP54
Models	GPRS + BT	
	802.11b/g + BT	
	BT Only	
Certification	CE, FCC, BSMI, VCCI, RoHS compliant	
Accessories	Desktop Cradle 4 slot Battery Charger	Vehicle Quick Charging Cable Holster
Software	Microsoft Visual Studio 2005 Microsoft Windows Mobile 5.0 SDK Unitech PA600 SDK VOIP (via 3rd party)	