

PA600 Phone Edition



User's Manual

400646G Version 1.1

unitech

Preface

About This Manual

This manual explains how to install, operate and maintain the PA600 Phone Edition.

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Regulatory Compliance Statements

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

- 1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting.
- 3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

FCC Label Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

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.

European Conformity Statement

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

RoHS Statement



This device conforms to RoHS (Reduction Of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

Taiwan NCC Warning Statement

國家通訊傳播委員會 (NCC) 低功率電波輻射性電機管理辦法 (930322)

根據 NCC 低功率管理辦法 規定:

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不 得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

SAR 標準値 2.0 W/kg; 送測產品實測値 0.322W/kg

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.

Battery Notices

The PA600 is equipped with a Lithium-Ion battery pack and backup battery. Both batteries will discharge after an extended period of not being used.

When both batteries are discharged, recharge the unit for 16 hours in order to fully charge the main battery and backup battery. Recharge the PA600 through the following:

- 1. Plug the USB charging cable to the PA600 and plug the 5V/3A AC-DC adapter to the power jack of the USB charging cable.
- 2. Place the PA600 into the docking station and plug the 5V/3A AC-DC adapter to the power jack of the docking station.

If the main battery is removed, the backup battery ensures the data on SDRAM is safe for up to 2 hours. To prevent data loss, do not leave the PA600 uncharged with the main battery removed for an extended period. *For more details, refer to page 8, Charging the Battery.*

NOTE: Rechargeable batteries are advised to replace every year or when 500 charge/discharge cycles achieved to guarantee optimal performance. It is normal that the battery balloons or expands beyond one year or the maximum of 500 cycles. Although it does not cause harm, it can not be used again and must be disposed of according to the location's safe battery disposal procedures.

If the performance decrease of greater than 20% in a Lithium-Ion battery, the battery is at the end of its life cycle. Do not continue to use, and ensure the battery is disposed of properly.

The length of time that a battery power lasts depends on the battery type and how the device is used. Conserve the battery life through the following:

- Avoid frequent full discharges because this places additional strain on the battery. Several partial discharges with frequent recharges are better than a deep one. Recharging a partially charged lithium-lon battery does not cause harm because there is no memory.
- Keep the lithium-Ion battery cool. Avoid a hot car. For prolonged storage, keep the battery at a 40% charge level.
- Do not leave the lithium-lon battery discharged and unused for an extended period because the battery will wear out and the longevity of the battery will be at least shorter than half of the one with frequent recharges.

Battery charge notice

It is important to consider the environment temperature whenever the Lithium-Ion battery pack is charged. Charging is most efficient at normal room temperature or in a slightly cooler environment. It is essential that batteries are charged within the stated range of 10°C to 45°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

CAUTION! Do not charge batteries at a temperature lower than 0°C, which will increase the internal resistance to cause heat and make the batteries unstable and unsafe. Please use a battery temperature detecting device for a charger to ensure a safe charging temperature range.

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 deplete more rapidly at the higher temperature ranges. It is recommended to store batteries within normal room temperature ranges.

Warranty

The following items covered under Unitech Limited Warranty are free from defects during normal use:

- PA600 1-year limited warranty.
- Lithium-Ion battery 6-month limited warranty.

Warranty becomes void if equipment is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.

Use only the adapter supplied. Using the wrong adapter may damage the unit and will void the warranty.

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Appendix System Specifications

Chapter 1

Getting Started

Introducing the PA600

Thank you for purchasing the PA600 Phone Edition.

Your PA600 was designed for users 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, cell phone function, color LCD with touchscreen, keypad, 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 IP64 standards and has undergone multiple drop tests to prevent downtime.



Features

Powerful system

- Microsoft Windows Mobile[™] 5.0 operating system
- Intel PXA270 processor with speed of up to 624 MHz

System memory

- 128 MB SDRAM
- 320 MB Flash ROM

Display

- 3.5-inch QVGA TFT-LCD with touch screen and backlight
- 240 x 320 resolution

Barcode scanner

- Built-in laser scan engine
- Built-in vibrator for scanning indication
- Symbol SE950 support
- Unitech Hamster barcode decoder

Communication

- USB Host & Client
- Bluetooth 2.0 + EDR (supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync)
- eGPRS Siemens MC75 Radio Module, quad-band GSM 850/900/ 1800/1900 MHz
 - EDGE Multislot Class 10
 - GPRS Multislot Class 12
 - GSM Release 99

Audio

- MIC
- Speaker
- Headset Connector
- Receiver

Wireless connectivity

- 802.11b/g with diversity antenna
- Bluetooth wireless technology

Expansion slot

• Secure Digital (SD) card slot (supports SDHC up to 4G)

Battery life

- Operation time: typical 5 hours (with Wifi), average 9 hours (w/o Wifi)
- Charging time: under 5 hours
- Embedded backup battery cell

User-friendly interface

- Quick launch hot keys for enabling backlight, calibration, phone calls, 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, or barcode scanning process is completed without error.
		Red - Battery is charging, barcode scanner is fired/ activated.
		Yellow - GPRS is on
		Blue - Bluetooth is on
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 three 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/ communication cable. This USB cable connects to the computer's USB port and accepts the 5V AC adapter to provide power to the PA600.
		This unit can simultaneously recharge and perform an ActiveSync operation. You can also use it to connect peripheral hardware, such as a docking station, to your device. This port can also support USB and RS232 hosting for devices such as a USB or RS232 scanner, keyboard, or USB memory key.
6.	Keypad	Keypad interface for controlling the PA600. See <i>Keypads</i> and <i>Function Buttons</i> 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, 2200 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.	Stylus	Enables you to interact with the operating system. To use the stylus, remove it from its holder and hold it the same way as you hold a pen or pencil.	
15.	Strap holder	Attachment location for holding hand strap, carrying strap, and stylus.	
16.	Memory card slot	Accommodates Secure Digital (SD) memory cards and can serve as an SDIO port.	
17.	Barcode scanner window	Scan barcodes window where the laser pass through.	

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 keep the data and system setting for up to 6 hours if the main battery is removed.

- **NOTE:** To enable the internal battery cell to provide backup power supply, charge your device with the main battery pack for at least 16 hours.
- 1. Open the battery compartment by pushing the latch in the direction of the arrow and lifting up.



The battery compartment is displayed:





2. Locate the backup battery switch and turn it on.



3. 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.



4. Slide the battery pack into the battery bay while simultaneously pulling the battery hook until the battery clicks into place.



5. 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 4 hours to recharge the battery to full capacity. 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:** Turn the backup battery switch on before charging the battery. Data you entered 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	U Power LED	Power is on
olution	Charging LED:	Charging (For spare battery only)
	🍫 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 a sleep mode and cannot be powered up until the battery is charged. Windows Mobile 5.0 devices will retain installed applications and data when the main battery is completely drained for extended periods of time.e

Connecting the PA600 to a PC

Use the USB cable to connect the PA600 to a PC, in order 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 16 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 Mobile 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 switch to System tab.
- 2. Tap the **Screen** icon.

Or

Press Func key and ESC key simultaneously.

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.





- 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 **Func** is pressed, an icon appears in the operating system:



The following table describes the keypad keys.

Key	Main Function	Secondary Function
	Talk/Send	Opens Phone screen to make a call or send a message
FUNC		Enables/ disables secondary function keys
ALPHA	Alpha	—
	End	Exits Phone screen or ends a call
C	Turns the PA600 on and off.	_

Кеу	Main Function	Secondary Function
Ls +-	Number 1	Left soft key - activates function above in LCD screen.
abc 2	Alphanumeric 2, a, b, c	Up navigation key
Rs def	Alphanumeric 3, d, e, f	Right soft key - activates function above in LCD screen.
ТАВ	Tab	Windows key opens Start menu
ESC	Back space	Escape key
s shi	Alphanumeric 4, g, h, i	Left navigation key
jkl 5	Alphanumeric 5, j, k, l	_
mno 6	Alphanumeric 6, m, n, o	Right navigation key
*- pqrs	Alphanumeric 7, p, q, r, s	Decreases screen brightness
tuv 8 v	Alphanumeric 8, t, u, v	Down navigation key
*+ wxyz	Alphanumeric 9, w, x, y, z	Increases screen brightness
key ၇	Asterisk	Illuminates keypad
	Number 0, space	_
* /	Period	Pound
OK	Enter key	ОК

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. Otherwise this could cause a permanent damage.
- 1. Remove the stylus from its holder.



- 2. Hold the stylus as you hold 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 four 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. Replace the SD compartment cover and the four compartment screws.

Removing a Storage Card

- 1. Remove the four screws from the SD compartment cover and remove the cover.
- 2. Press the card in and release. The card pops out.
- 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: Scanning 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 and Scan2Key.

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, and then switch to System tab. Tab the Scanner icon.





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.



The PA600 has a slot for GPRS SIM card. It is placed inside the battery compartment.

Inserting the SIM Card

- 1. Take out the battery cover and the main battery. Insert the SIM card with the notched corner as shown in the picture below.
- **NOTE:** The chip of the SIM card should face upwards.



2. Push the SIM card to the end until you hear a click. Push the lock to the right to lock the card by stylus.



Using the Phone

The PA600 has an integrated phone keypad, which allows you to make, receive, and send messages via the built-in module.

NOTE: Make sure you insert the SIM card properly.

To open the Phone screen, do one of the following.

- 1. Tap Phone on the bottom left corner of the screen.
- 2. Press Talk/Send button. Press End button when you want to exit the Phone screen.



The Phone screen opens. From here you can manage the contact list, create speed dials, messages, notes, and customize phone settings.

NOTE: If you SIM card is protected by a PIN code, input the password before you can use the phone.

Tap the antenna signal icon on the upper right corner of the screen. Tap Wireless Manager and turn on phone function.

Antenna signal icon	Signal	Description
/Phone	<u>٢</u>	Phone service searching
	Y	No signal is available.
1 abc 2 def 3 ←)	3 1	Strongest signal strength More bars you have, the stronger signal you have.
Phone	Yı	No phone service provided.
keypad pqrs 7 tuv 8 wxyz 9 Call History * +0 # Talk Contacts Menu	۳ _×	Phone function is turned off. Tap the antenna signal icon and turn on phone function in the Wireless Manager.

Chapter 2 Using the Hardware

Tap the speaker icon on the upper right corner of the screen. You can adjust the device/ phone volume by moving the sliders and change the ring volume by tapping On, Vibrate, or Off.

Making a Call Using the Phone Keypad

- 1. Tap Phone or press Talk/Send button.
- 2. Enter the desired phone numbers.
- 3. Tap the Talk button on the Phone screen.
- 4. When the call connects, you can tap Hold to place the first number on hold.
- 5. Enter the second phone numbers and tap Talk again.
- 6. Tap Swap to switch between calls.
- 7. Tap End or press End button to stop dialing or end the call.

Using the Contact List

- 1. Tap Contacts on the bottom left corner of the Phone screen.
- 2. Tap New on the bottom left corner of the contact list, you can add a new contact.
- 3. Tap a contact, you can edit the contact info.
- 4. Tap and hold on a contact, a menu appears. You can send e-mail/ text message to the contact, add this contact to speed dial list, and so on.





Contacts

📞 Talk

Menu



Using the Speed Dial

- 1. Tap Speed Dial on the Phone keypad.
- 2. Tap Menu, and select New.
- 3. Select a contact in your contact list by tapping the desired contact.

ff Phone			÷	? 7	i - €	×
Select a Co	ntact					
Enter a nam	e or n	umbe	2r			
#ab cde fgł	n ijk	lmn	opq	rst	uvw	хуг
ATU 🗟						
SE UTE						
Select				٢	1enu	
🏄 Phone			÷	2 Y	i ⊀€	ok
Speed Dial						
Contact: l	JTE					
Name: [JTE					
-						_

- 4. Assign an available location for the new speed dial entry. Tap OK, and then OK to exit the speed dial list.
- **NOTE:** The first speed dial location is reserved for voice mail.

	10001		

▲▼

To make speed dial call, do one of the following.

- Tap and hold the speed dial location number assigned to a contact on the Phone keypad.
- 2. Tap Speed Dial on the Phone keypad, and tap the location number of the desired speed dial entry.



Location: 2:<Available>

Customizing the Phone Settings

Tap Menu, and select Options, you can change the default phone settings, including ring sound, keypad sound, call barring, call forwarding, call waiting, mobile phone network, etc.

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 the location of the downloaded file, and double-click it. The installation wizard begins.

🖟 Microsoft ActiveSync 4.2	
Microsoft ActiveSync 4.2	
Welcome to Microsoft ActiveSync 4.2 Setup	
Click Next to install Microsoft ActiveSync 4.2 on your computer.	
InstallShield	Cancel

4. Click Next.

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



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

记 Microsoft ActiveSync 4.2	
Customer Information	
Please enter your information.	
User Name:	
John Doe	
Organization:	
Acme	
InstallShield	
< Back	ext > Cancel

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



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

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

🖟 Microsoft ActiveSync 4.2	
Ready to Install the Program The wizard is ready to begin installation.	
Setup is ready to begin installing Microsoft ActiveSync 4.2	
InstallShield	Cancel

8. Click Install.

The program begin the installation

🙀 Microso	ft ActiveSync 4.2
Installing The prog	Microsoft ActiveSync 4.2 rram features you selected are being installed.
B	Please wait while the Setup Wizard installs Microsoft ActiveSync 4.2. This may take several minutes.
	Status:
	Copying new files
InstallShield –	
	< <u>Back</u> Next > Cancel

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** \rightarrow **Microsoft ActiveSync Help**.

Connecting the Device to Your Computer

- 1. 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.

😣 Microsoft ActiveSync	
File View Tools Help	
😡 Sync 🧭 Schedule 🏂 Explore	
Guest	
Connected	C
	Hide Details 🗙
Information Type Status	

- 7. Synchronization will be initialized and will take place if you've chosen to synchronize periodically or upon connection.
- **NOTE:** 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 \rightarrow Mobile Devices folder.
- Connect the USB cable between the computer and PA600.

Connection options

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

- USB connection
- Bluetooth connection
- GPRS Connection
- WiFi connection

USB Connection

To synchronize with your computer using a USB connection:

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



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.

Chapter 3 Getting Connected

1. Tap Start \rightarrow Settings \rightarrow Connections \rightarrow Bluetooth \rightarrow Mode and check Turn on Bluetooth.

fettings	43	Fn 2:14	ok
Bluetooth			
Turn on Blueto	oth evice visible	to other	
To connect to a de tab below.	vice, click or	n the Devices	5
Mode Devices CC	DM Ports		
Mode Devices C			
fettings	43	Fn 2:15	ok
Bluetooth			
Tap Add new devices. Bluetooth devices. its settings.	e to search Tap on a de	for other evice to modil	fy
	5		
Mode Devices CO	DM Ports		
Settings		En 2:20	
Select a Blueton	th Device		0
Select a device to o Next.	connect with	and tap	-
■ A7000-9693-	NB 00 PC fe		
		Refresh	
	1000	No.	

2. Tap **Devices** \rightarrow **Add new device**.

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

Chapter 3 Getting Connected

- 4. .You are prompted for a passkey.
- 5. Enter the Passkey.

📌 Setting	s 斗	Fn 2:20
Enter Passo	ode	0
Enter a passo connection wi	ode to establish a th A7000-9693-NI	secure B.
Passcode:		
123 1 2 3	4 5 6 7 8 r t y u	90-= 4 i 0p[]
100 9 1. 2		
CAP a s s	d f g h j	k ; '
CAP a s Shift z × Ctl áü ` \	d f g h j c v b n m	k I ; ' , . / ←

On the PC screen, you are prompted to enter the Bluetooth PIN Code Request.

6. Enter the same Bluetooth PIN Code you entered in step 4.

Bluetooth	PIN Code Request
P	Device Name: Pocket_PC Before a connection can be established, this computer and the device above must be "paired." The Bluetooth pairing procedure creates a secret key that is used in all future connections between these two devices to establish identity and encrypt the data that these devices exchange.
	To create the paired relationship, enter the PIN code and click OK.
	Bluetooth PIN Code: *
	OK Cancel <u>H</u> elp

- 7. Select service. Check Activesync and tap Finish.
- 8. To preserve battery power, be sure to end the bluetooth activesync connection when synchronizing is complete. Tap **OK**.
- 9. From Start \rightarrow Programs, double tap ActiveSync.
- 10. Tap Menu at right bottom corner. Select **Connect via Bluetooth**. Terminal connects to the host via Bluetooth Activesync.

GPRS Connection

PA600 comes with a built-in GPRS module, which allows you to connect to the internet. Follow the instructions below to access the internet.

- **NOTE:** Make sure you insert the SIM card properly. See *Using the SIM Card* on page 19.
- 1. Tap Start \rightarrow Settings. Under Connections tab, tap Connections.



2. Under My ISP, tap **Manage existing con**nections.

Persona	al System Connections
fte s	ettings 💦 🗱 🙀 ok
Conne	ections 📀
My IS Add a Manag My W Add a Add a Set up	P new modem connection e existing connections ork Network new modem connection new VPN server connection my proxy server
Tasks	Advanced

ſ

Chapter 3 Getting Connected

 Tap and hold the GPRS (internet) in the list. Select **Connect**. A prompt appears, you are connected to

Phone Settings	# Ÿ € ■k
Chunghwa Telecom GPRS(internet) (GPRS)	Connected Wireless Manager
<u>Settings</u>	Hide
Ed	it New
General Modem	

internet via GPRS.

fettings	📰 🛱 🕂 💀
My ISP	7
Tap and hold on an existi more options.	ng connection for
Name	Number
GPRS(internet) Delete Connect	nternet
Ec	lit New
General Modem	

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. If the WIFI icon appears on the device, double-tap the icon and tap **enable wireless**.



2. Tap the Wireless Manager icon.



4. If there are available networks detected, tap and hold the network name, and then select **Connect**.



Wireless Manager

Bluetooth Phone Wi-Fi	n & Off Øff
Phone Wi-Fi ^{Dis}	Off 🎸
Phone	نې Off
Wi-Fi Dis	Off
Wi-Fi Dis	
	sconnect Cellular Data
Blu	letooth Settings
Ph	one Settings
Wi	-Fi Settings
Done	🔤 Menu

#*?∡∔€ ⊠

Configure Wireless Networks					
	l New 601A1A4EA - Connect Remove Settin Edit	Available Available Available ngs			
Network	s to access:				
All Available 👻					
Wireless	Network Adapters				
Conn	ect	Menu			

Chapter 3 Getting Connected

NOTE: Press **Func** key and **"9**" button to bring the **Device Setting** screen.

Under **IO**, select **Wireless** and **Enable**. While Multiple Networks Detected screen pop up, select a network to connect.

💤 Device Setting 👘 🦞 🗱 🍢 📢	×
Info FuncKey IO Virtual Key	•
_Slot	- I
O PCMCIA O SD Slot	
CF Slot 💿 Wireless	
Status Status Multiple Networks Detected	
Select a network to connect to: wlandemo [Unsecured] UTE [Security-enabled] MTC [Security-enabled] 001601A1A4EA [Unsecured]	
OK 🔤 Menu	

Follow instructions below to add a new wireless network.

1. Tap **Add New.** Configure Wireless Network screen appears.

2. Enter a name for the network. Tap Next.

Settings		्# Ү × •	({ ok
Configure Wire	eless Netwo	orks	2
Add New			
001601A1.	A4EA	Available	
MTC		Available	
MOLE		Available	
Networks to acc	ess:		
All Available			•
Wireless Netwo	rk Adapters		
Connect		Mer	าน
🚪 Settings		🚓 🖓	ŧŧ
Configure Wire	eless Netwo	ork	?
Network name:	UTE		
Connects to:	The Inter	net	•
This is a dev connection	ice-to-device	e (ad-hoc)	



3. Enter the network key. Tap Next.

4. Tap **Finish**. Configure Wireless Network

network becomes available in the list.

screen appears again, and the new wireless

🏄 Settings	₽ 7 × +€
Configure Networ	k Authentication 👘 💡
Authentication:	Open 👻
Data Encryption:	WEP 👻
The key is autom	atically provided
Network key: 12	34567890
Key index: 1	•
22 1 2 2 4 5	6 7 0 0 0 - 4
	<u>g n] K I ; · · </u>
Shift Z X C Y	b n m , . / ←
Cti ăŭ ^ \	↓ ↑ ← →
Back	🔤 🔶 Next
🐈 Settings	#* * x + €
Configure Network	Authentication 🛛 🚱
Use IEEE 802.1×	network access control
EAP type: PEAP	•
	Properties

123	1	2	3	4	ŀ	5	6	ŀ	7	8	Τ	9	0	-		=	ŧ
Tab	q	W	1	е	ľ	·	t	y		u	i	i	0	p	ı	[]
CAP	a		s	d		f	g	ł	ı	j		k	Ι		;	•	
Shif	tiz	z	Х	0	:	۷	Ł)	n	n	ı	,			1	' .	₽
Ctl	áü	•		١									Ŷ	Ť		÷	→
	Ba	ick	¢						-	•			Fi	ni	5	1	

To disable the wireless network, you may do one of the following.

- 1. Double-tap the WIFI icon and tap **Disable Wireless**.
- 2. Tap the Wi-Fi bar in the Wireless Manager screen.
- 3. Press **Func** key and **"9**" button to bring the Device Setting screen. Under IO, select **Wireless** and **Disable**.

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 to your computer and vice versa. Changes you made 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:

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



Windows Explorer opens the Mobile Device window for your device.

🔋 Mobile Device						
File Edit View Favorites Tools	Help					A.
🕝 Back 👻 🕥 👻 🏂 🔎 S	earch 🔀 Folders	•				
Address 🔋 Mobile Device						💌 🄁 Go
Other Places	Application Data	n Disk Flash Storage	My Documents	Detwork	profiles	Program Files
Shared Documents	Recycled Ter	mp Utilities	Windows	Control Panel		
Details 😵						

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

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.



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 will be directed from the scanner port to any waiting (active/focused) text editor such as MS Mobile Word or a text box in an applicaton.

Barcode Symbologies

Barcode Symbology	Enable/ Disable	Check Char/Digit verification	Transmit Check Char/digit	Max/ Min Length	Transmit Leading Char/digit	Other
Bookland EAN	YES					
Codabar	YES	YES	YES	YES		Transmit start & stop bits, CLSI format, *data length
Code 11	YES		YES	YES		* check digits, *data length
Code 128	YES			YES		*data length
Code 32 (Pharmacy Code)	YES				YES	Transmit tailing digit
Code 39	YES	YES	YES	YES		Full ASCII, Transmit start & stop bits, Function Code, *data length, Double labels decoding, *Double labels separator
Code 93	YES			YES		*data length
Delta Code	YES	YES	YES			
EAN 128	YES					Transmit code ID, *Fields separator
EAN 13	YES		YES		YES	
EAN 8	YES		YES		YES	
Interleaved 2 of 5	YES	YES	YES	YES		*Not suppress start or stop digit, Fixed length, *data length
Label Code IV & V	YES		YES			
MSI/Plessey	YES		YES	YES		*Check digital double module 10, *data length
Standard 2 of 5	YES	YES	YES	YES		Fixed length, *data length
Telepen	YES					*Standard character set
UPC A	YES		YES		YES	
UPC E	YES		YES		YES	Zero expansion, NSC
UPC/EAN Group						Supplement 2, Supplement 5, Insert space before supplement, Must have supplement, *Add-on code try level

Note: *Value Adjustable Scanner Control Panel V.5.11

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Chapter 5

Advanced 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 you 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.

NOTE: Press **Func** key and **"8**" button.

Chapter 5 Advanced Settings

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 Good.

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.

👭 Settings	at Y _X 4€ ok
Power	
Main battery: LiIon Battery power remaining:	
0	100
Backun hatteru	
	100
Battery Advanced	

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 tag.
- 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.
- 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 \rightarrow Settings \rightarrow System.
- 2. Tap Backlight.



- 3. The Backlight screen appears. Do any of the following:
 - In the Battery Power tab, tap the Turn off backlight if device is not used for checkbox and select the amount of time before the unit turns off the backlight while running in battery power mode from the dropdown list.
 - In the External Power tab, tap the Turn off backlight if device is not used for checkbox and select the amount of time before the unit turns off the backlight while running in external power mode from the dropdown list.
 - Tap the Turn on backlight when checkbox to activate the backlight when a button is pressed or the screen is tapped.

Backlight							
Warning: Using backlight while on battery power will substantially reduce battery life.							
Turn off ba	acklight if ot used for	lO sec 🔻					
✓ Turn on ba pressed or	cklight when a bu the screen is tap	itton is ped					
Battery Power	External Power	Brightness					
Adjust <u>power</u> se	ettings to conserv	e power.					

Chapter 5 Advanced Settings

 In the Brightness tap, tap and drag the slider to adjust a dimmer backlight.

🏄 Settings	ŧ	‡¶ _X € ok
Backlight		
Use the Slider to display	o adjust the brigh	tness of the
On Battery pow	er:	
Dim ' ' '	Ú	, , Bright ── -☆-
On external poo Dim C	wer:	Bright ≒_0 -℃
		_
Battery Power	External Power	Brightness
Adjust <u>power</u> settings to conserve power.		

Viewing Flash Memory Files

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

To access the Flash Memory files:

1. Tap My Device > Flash Storage folder.

To transfer files to the Device's flash memory:

- 1. Connect the device to your computer by ActiveSync.
- 2. On your computer's Activesync, Click Mobile Device > Flash Storage.
- 3. Select the file that you want to transfer.
- 4. Drag the file from your terminal's flash storage folder to your computer's folder or drag the file from your computer's folder to the terminal's flash storage folder.

Performing a hardware reset

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



Performing a Cold Boot

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

When you perform a cold boot, the date and time settings are not be retained. Formats, preferences, and other settings are restored to their default factory settings. Data stored in the flash storage are retained.

NOTE: 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.

Follow these instructions to perform a cold boot.

1. Press the TAB key.



2. While holding the TAB key, insert the tip of the stylus into the reset hold on the back of the PA600. Press and hold the reset button until you see the unitech splash logo screen. Wait 5 seconds and then release the TAB key.



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.

Performing a Clean Boot

A clean boot, similar to cold boot, cuts off power of your device, erasing all records and entries, deleting all programs you have added, cleaning storage memory, and restoring the device to default factory settings.

When you perform a clean boot, the date and time settings are not be retained. Formats, preferences, and other setting are restored to their default factory settings. Data stored in the flash storage are retained.

NOTE: 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.

Follow these instructions to perform a clean boot.

 Press and hold the Func key and Backspace key.



 While holding the Func key and Backspace key, insert the tip of the stylus into the reset hold on the back of the PA600. Press and hold the reset button until you see the unitech splash logo screen. Wait 5 seconds and then release the Func key and Backspace keys.



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. And this will clean up storage memory.

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Appendix

System Specifications

Processor / Memory	CPU	Intel PXA270 624MHz
	Memory	SDRAM: 128MB
		Flash ROM: 320MB
OS	Windows Mobile [™] version 5.0	
Keypad	20-Key, including phone keys, alphanumeric keys,	
	and function keys	
Display	240x320 QVGA, Color Transflective TFT, with Touch Screen & backlight	
Laser Barcode Scanner	Scan rate	104 scans/sec. ± 12 scans/sec. (bi-directional)
	Scan angle	47°±3° default / 35°±3° reduced
Input Device	Keypad	
	Touch Screen	
	Full Alphanumeric Software Keyboard	
	Barcode Scanner	
Indicator	Led, Vibrator	
Communication	USB Host & Client	
	802.11D/g	
	Bluetooth supports Bluetooth Printer Bluetooth	
	Modem, Bluetooth ActiveSvnc	
	eGPRS (Siemens MC75 Radio Module)	
Audio	MIC	
	Speaker	
	Headset connector	
	Receiver	
Expansion Slot	SDIO slot supports SDHC up to 4G	
Power Source	Main	3.7V 2200mAh Li-ion battery pack
	Backup	One rechargeable Ni-MH backup battery
Enclosure	Weight	290g without battery
	Dimension	L149.5 X H26.6 X W85mm
Environmental	Operating temperature	-10° C~ 50° C (14° F to 122° F)
	Storage temperature	-20° C~ 60° C (-4° F to 140° F)
	Charging temperature	10° C~ 45° C
	Relative Humidity	5% ~ 95% (non-condensing)
	Drop test to Concrete	4 feet (1.2 meter)
	Environmental Sealing	IP64
Certification	CE, CB, FCC, BSMI, CCC, RoHS compliance	
Accessories	Battery Cradle Battery Charger	
	Holster	
	4 slot Multi-Bay Extended Battery	
	Vehicle Dock	
Software	Microsoft Visual Studio 2005	
	Microsoft Windows Mobile 5.0 SDK for Pocket PC	
	Oracle Database Life	
	Wavelink Avalanche	
1	INCL development suite	