unitech

PA960 Windows CE.NET4.2

Quick Reference Guide

www.unitech-adc.com

unitech PA960

Introduction

Your PA960 is a rugged, compact and lightweight palm-size computer. It utilizes the Windows CE® operating system, and incorporates an integral bar code scanning laser device, color LCD with touch screen, keypad, IrDA interface, and wireless communication capability. It provides the user with a standard Windows-based environment for customizing and operating the device.

This PA960 product reference guide will guide you to access your PA960.

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unitech PA960 & Accessories ②

After opening the box, please make sure the following accessories for the PA960 are present:

PA960 Main Body

PA960 CD

PA960 Windows CE.NET 4.2
Quick Reference Guide

Battery pack

Stylus

CF slot drawer for PA960

Pulling-tags

RF Card Cushion

Additional accessories are shipped separately.

- Unpack the box and save the packaging in the event the unit needs to be stored or returned to unitech for service.

- Check the unit for shipping damage. If anything is missing or damaged, notify your unitech sales representative.

Tour of the unitech PA960 ③

PA960 Front and Left Side

Stylus
This stylus is design for tapping screen and also for accessing batter door via the screw driver in the stylus.

Bar Code Laser Scanner

Right Side Scanner Trigger
Press it to enable laser sccanner to read bar code.

Touch Screen

RS232/USB/Charging Port

Keypad

PA960 Back

IrDA port

Reset Hole
Push enclosed button for system warm-start

PCMCIA compartment
Install PC card here.

CF slot compartment
Please remove the battery door to access CF slot.

Battery compartment
Install Lithium-ion battery pack here.

First Steps with the Unitech PA960

There are three ways to provide power to the PA960:

- Rechargeable Lithium-Ion battery pack
- RS232/Charging cable, USB/Charging cable
- Docking Station

NOTE: data you enter may not be properly stored until the built-in backup battery has been adequately charged. Please be remided to turn on the back up battery before you charge the terminal


Laser Scanner ⑫

The PA960 has an integrated laser scanner, which reads all major bar code labels with excellent performance. Trigger keys are located on the left and right sides of the unit. Press either one to activate the laser scanner.

The PA960 also has a built-in Scanner Setting.exe program that allows the user to test the barcode scan function. Scanner Setting.exe is located in directory \Windows\Control and is also accessible by shortcut via "Setting\Control" on the Start menu.
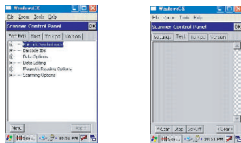
Power system

Charging the Lithium-Ion Battery Pack

The optional Docking Station is a convenient accessory for daily use of the PA960. The charging will be completed withing 3 hours. Or, when using the included Charging/RS232 Cable or Carging / USB cable the charging time of the battery pack is about 3 hours.

Charging the Main and Backup Battery for the First Time

Note: Before using the PA960 for the first time, charge the unit for 16 hours to fully charge the empty backup battery.

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Operating the PA960 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.

Note: Backing-up data by backup battery only without the main battery installed in the battery compartment may take as long as 8 hours. Therefore, in order to prevent data protection failure due to backup battery failure, do not leave the PA960 without the rechargeable battery pack installed, or without connection to AC power for an extended period of time.

It may take up to 72 hours to backup data when the PA960 is automatically shut down because of very low battery power while the depleted batteries are still installed in the battery compartment.

Power Status Indication

Check Battery Status:

The battery menu item will show the status of the main and backup batteries. There are 3 kinds of status indicators — "Good", "Low" and "Very Low". Bold characters indicate the actual status, e.g. battery icons in the illustration at right mean both the main and backup batteries are "GOOD".

It is necessary to charge the battery when "Low" or "Very Low" are displayed in bold characters. If "Low" or "Very Low" are still displayed after charging, please contact Unitech Technical Support.

Four different icons are displayed on the status bar to indicate the on-board power status.

"Plug" icon: When displayed, this icon indicates that the battery is charging. The PA960 is either plugged-in via the DC 12V/2A power adapter or in the docking station.

Plug with power adapter

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"Battery Low" icon: When displayed indicates the battery is low and needs to be charged. In other words, there is no external power supply, the battery charge is low or very low, and charging the PA960 is recommended.

Battery Low

"Battery Very Low" icon: When displayed indicates the battery is very low. Stopping the operation and charging the PA960 immediately is highly recommended.
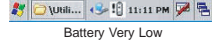
Battery Very Low

No icon: When displayed means there is no external power supply to the PA960 but its battery power status is good.

"Backup Battery Low" icon: When displayed indicates the backup battery is low and needs to be charged.
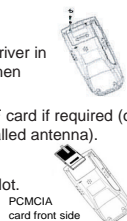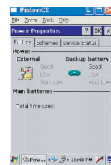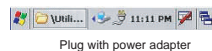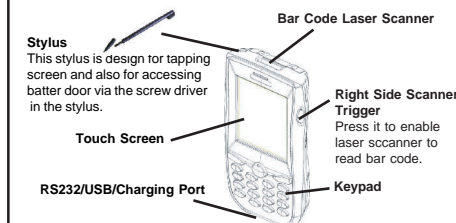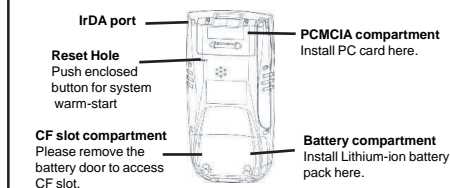
Backup Battery Low

"Backup Battery Very Low" icon: When displayed indicates the backup battery is very low. Stopping the operation and charging the PA960 immediately is highly recommended.

Backup Battery Very Low or Backup Battery is not turned on.
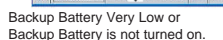
Installing the Wireless Local Area Network (WLAN) Card

- Power off the PA960
- Remove the stylus, using the screw driver in the stylus to remove the screw, and then open the PCMCIA compartment
- Attach the snap-on antenna to the RF card if required (only the Cisco card comes with a pre-installed antenna).
- Attach pulling-tag to antenna.
- Insert the RF card into the PCMCIA slot.

PCMCIA card front side

Troubleshooting ⑮

If the screen is blank or the unit fails to turn on, charge the battery for 16 hours. If the battery is fully charged and the unit still fails to turn on, reboot the device by inserting a pin in the reset hole.

Laser

The Unitech PA960 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 PT930 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.

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 binolulars, microscopes, and magnifying glasses. This does not include eye glasses worn by the user.

The laser safety warning label required by the DHHS/IEC for the PT930's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

European Conformity Statement

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

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.

Setting up the PA960 ④

Your Unitech PA960 is shipped with a protective film over the display. This film may be left in place to protect the screen from scratches, however, it will slightly reduce the readability and contrast of the image. You may remove the protective film by peeling it off from one corner.

Installing the Battery Pack

CAUTION - Improper installation of the rechargeable battery pack can cause the metal clips in the battery compartment to bend or break. Carefully read and follow the procedure below for installing the battery pack.

1. Remove the battery compartment door (located on the lower back side of the unit) by using the screw driver of Stylus.

2. Position the battery pack with the label side towards you, and the battery pack strap towards the bottom of the unit. Insert and fully seat the battery pack, making sure the shape of the battery pack fits the shape of the battery compartment.

3. Position the battery pack and install the battery compartment door by using sylus screw driver.

Supplying power to the PA960 ⑤

Connect the RS232/Charging Cable or USB/Charging Cable to the PA960, and then connect the AC adapter to the cable's power jack and an electrical outlet.

Or place the PA960 into the Docking Station (first connect the power supply to the Docking Station).

Charging the Main and Backup batteries for the first time

It may take up to 16 hours to fully charge the empty backup battery. The first time charge should be for at least 16 hours to insure a proper charge.

CAUTION: Operating the PA960 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.

Before using the PA960 for the first time, charge the unit for 16 hours to fully charge the empty Lithium backup battery

RECYCLE LITHIUM-ION BATTERIES. DO NOT THROW IN TRASH.

Li-Ion   Li-Ion

Initial Operation

Note: Be sure that you have fully charged the battery before turning the unit on.

Insert CF card to PA960 ⑥

Find the CF drawer from PA960 package, insert CF card to the CF drawer. Then insert the CF drawer to the PA960 and place the CF slot door. Re-install the battery door to PA960 with screw driver of PA960 stylus.

1.   2.   3.

Your CF card.   CF drawer
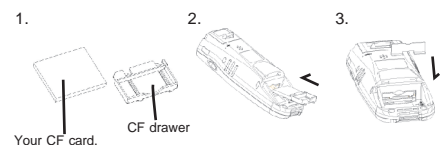
Pressing the ON/OFF Key

The Unitech PA960 welcome screen appears. The Windows CE® screen will appear shortly thereafter.

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PA960

Adjusting Screen Brightness

Press [FUNC] key and Cursor key to decrease or increase screen brightness.

Calibrating the PA960

This screen will automatically appear when the unit is powered-on for the first time or after the system is reset. This screen can also be accessed at any time by pressing the hot key [FUNC] and the [ESC] key.

The PA960 will prompt you to calibrate the unit by tapping a sequence of screen locations. Tap gently but firmly. When you have completed the series of taps, press the [ENT] key to confirm it or press the [ESC] key to cancel it.

Setting Time Zone, Date, and Time ⑦

After Calibrating the PA960, the "Date/Time Properties" dialog box will appear. Follow the steps below to set the date and time.
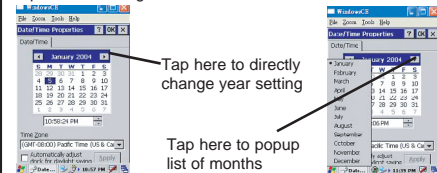
Setting the Time Zone first

Follow the steps below to set up your time zone.

1) Tap the location arrow to see a list of cities
2) Choose your location (or nearest listed one)
3) Select the Daylight Savings Time check box, if necessary
4) Tap the APPLY button
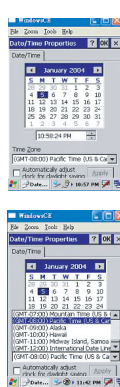
Setting Year and Month

Tap the Left or Right arrows to scroll the month.

Tap here to directly change year setting

Tap here to popup list of months

Or directly tap location of year or month to change the year or month setting

Exiting Date/Time Properties Settings

Tap OK or X (cancel) button at upper-right corner to exit.


Flash Memory ⑧

Flash Memory is a re-writable location in which to store up to 8 MB of programs and data files. The benefit of this feature is that files and programs saved in Flash Memory are unaffected by the PA960's power status.
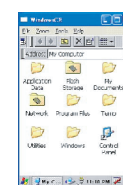
To access the contents of Flash Memory, simply select "My Computer" on the desktop and then select "Flash Storage". The programs and data files currently stored in Flash Memory will be displayed.
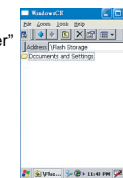
To save to Flash Storage, select File, Save To, and select Flash Storage just like you would select any other storage medium.
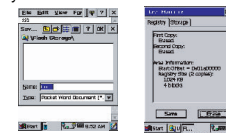
Using the Keypad and Scanner

Keypad

The PA960 keypad contains 19 keys, including Cursor key, 0~9, Alpha key, ON/OFF, Function, Escape, Backspace, and Enter key. Please refer to the picture in section 9.

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Cursor
ESC   Enter
Backspace
Power On/Off
TAB
Function
Alpha

[ON/OFF]   When the unit is off, pressing the On/OFF key will turn the unit on. Alternatively, when the unit is on, this key must be pressed and held down for about two seconds in order to turn the unit off.

[ESC]   The Escape key will perform the same function as tapping the CANCEL button or the X button on the touch screen.

[Back space]   The Backspace key is used to erase previously input characters.

[FUNC]   The Function key is used to perform alternative key functions.

[TAB]   The Tab key is used to toggle between data fields or to place the cursor at pre-determined places in a programming or word processing application.

[ENT]   The Enter key is used to initiate a process or confirm a selection made by the user.

[Cursor]   This Cursor key is used to navigate among applications.

[Alpha]   This Alpha key is used to toggle between Numberic & Alpha Mode. This Apha key is also used to toggle CAPS at Alpha Mode.

Alpha Key ⑩

When the PA960 boots, the default condition is Numeric Mode on. When you toggle to Aphal Mode, the default condition is CAPS mode off.

Alpha Mode	Press alpha to alpha mode, the default condition is CAPS off.
CAPS	Press Apaha key twice to toggle CAPS
Key in	Press Cursor-UP to enter selected character.

Useful hotkeys

The PA960 provides eight combination hot keys to activate specified screen setting functions or programs. These hotkeys are useful for calibrating the touch screen, toggling the backlight, and adjusting screen contrast when the menu-driven operation is disabled. Below is the list of hotkeys. To use them, press and hold the [FUNC] key in combination with the corresponding second key.

[FUNC] + [ESC]	Check Stylus properties & Re-Calibrate the PA960's touch screen.
[FUNC] + [◑]	Decrease screen brightness.
[FUNC] + [◐]	Increase screen brightness.
[FUNC] + [TAB*]	Toggle screen & LCD backlight.
[FUNC] + [6]	Task manager
[FUNC] + [7]	Scanner Setting.exe
[FUNC] + [8]	Scanner Setting utility
[FUNC] + [9]	System Information
[FUNC] + [0]	Space
[FUNC] + [Cursor]	Use Function key & Cursor "UP" to Toggle Display Backlight
[FUNC] + [Cursor]	Use Function key & Cursor "Down" to Toggle Keypad LED Backlight

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Software Keyboard ⑪ (Windows CE Keyboard)

Since the PA960's keypad allows input of numeric characters only, the Windows CE Software provides a touch screen keyboard for input of other characters. The Windows based keyboard replicates the layout of a standard PC keyboard.

Opening the Windows CE Keyboard:

The Windows CE keyboard can be opened by tapping the "keyboard" icon on the task bar.

Keying-in Characters:

After tapping the "keyboard" icon, the Windows CE keyboard pops up. Character input is the same as on a standard PC. Simply tap the on-screen button corresponding to the character you want to input.

International Character Support:

Tap the [áü] button to switch from the standard English keyboard to the European keyboard.

Moving the Keyboard:

Use the stylus to point to the title bar (the bar displaying "Input panel") and then move the stylus without lifting it from the screen.

Closing the Keyboard:

Tap the keyboard icon to close the Windows CE keyboard.

Using the Laser Scanner

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.exe.

Left side trigger

Right side trigger