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**WELCOME**

Thank you for choosing the up-to-date HWP-2150, our new model, developed by top researchers to support the IS-95C system through Qualcomm-manufactured MSM5105 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing and data & fax service.

Available in the product.

- Full graphic display of 5 text input line and 1 icon line with variable font size.
- High capacity batteries allow for longer talk time. 330 hrs of standby time.
- Multilingual (English and Spanish available)
- Enhanced for web browsing & data service (i.e. ; wireless internet access, wireless fax send/ receive, Openwave, Up browser)

**IMPORTANT INFORMATION**

This HWP-2150 user guide contains very important information about how to handle and use this product. So please read this manual thoroughly and make sure that you don't drop , apply any physical impact on, and immerse the phone. And also pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are caused by unauthorized use of components.

**1. BEFORE USING YOUR PHONE**

This chapter describes what you have to know before using the phone. First of all, you have to make sure that you have all the items that are listed in the following page. Then, the chapter guides you through description of the WLL, keypad arrangement, LCD display indication, and so on. Through easy to follow instructions, you also learn how to install, remove, and charge batteries as well as battery handling information. All the information helps make the phone your own.

**1.1 INSIDE THE PACKAGE**

Welcome to our new model, HWP-2150. Please check out each item to make sure that you have all the items described below.



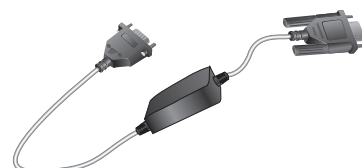
WLL Phone



User Manual



Phone Charger

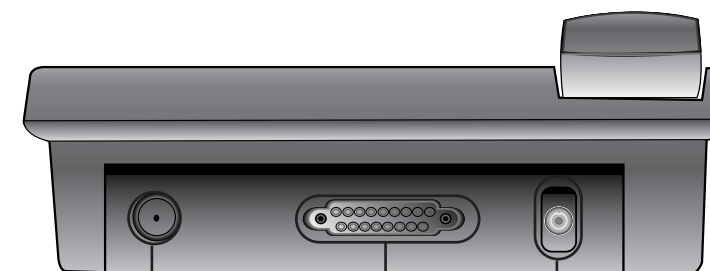
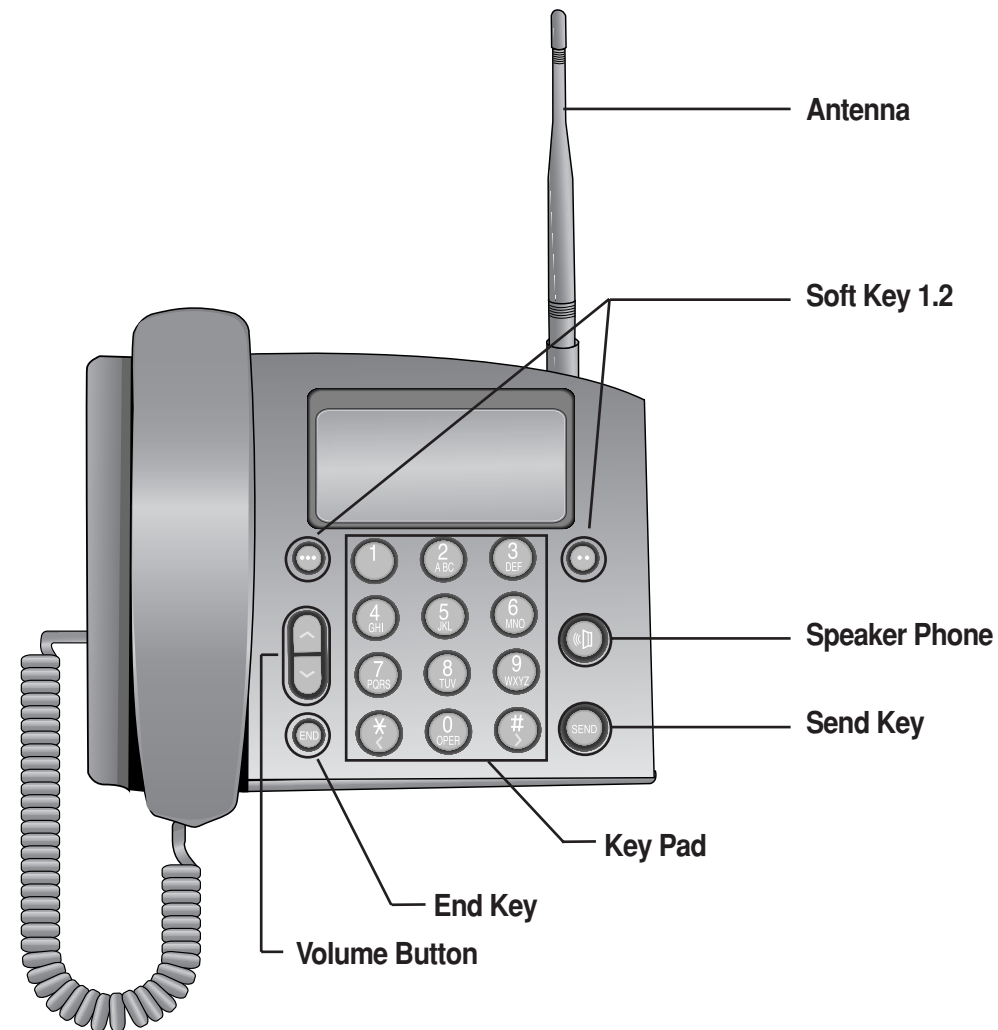


Data Cable



**Note** : Please report to the place of purchase immediately when you find any item missing or wrong with it.

**1.2 DESCRIPTION**

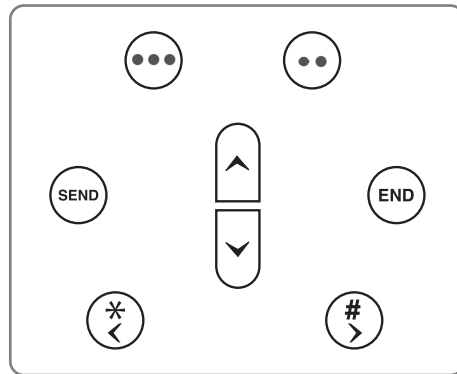


Antenna Jack







Data Cable

Power Jack

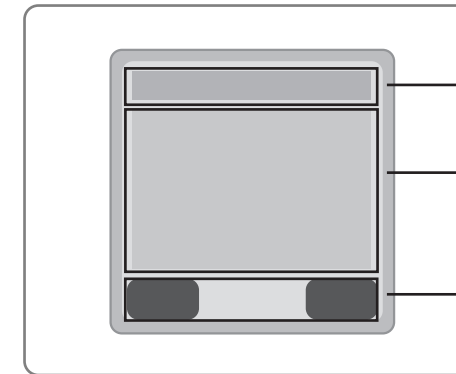
## 1.2.1 THE FUNCTION KEYS



**Front Key**
















- |   |   |   |   |
|---|---|---|---|
|    | To make or receive a call.  |    | To terminate a call or exit a current page, and turn the phone on/off.                  |
|  | (Soft 1) To access the menu or function as shown in the bottom line of the display.                           |  | (Soft 2) To access and review a voice or text message, and return to the previous page. |
|  | Press and hold it to set up the Manner mode.<br>where the keypad tone is off and the ring off as a ring mode. |  | Press and hold it to set up the Lock mode.  |

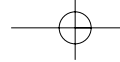
## 1.2.2 DISPLAY INDICATORS



**Main LCD**

- Icons**  
Display various icons.
- Text & Graphic area**  
Display instructions and messages.
- Soft Key Indications**  
Show the functions currently assigned to each soft key and display some icons.

- |   |  |   |   |
|---|--|---|---|
|    | <b>SIGNAL STRENGTH</b><br>Indicates current signal strength.<br>The more lines, the stronger signal. |    | <b>ROAMING</b><br>Indicates the phone is out of its home area.  |
|  | <b>CALL INDICATOR</b><br>Indicates that a call is in progress.                                       |  | <b>MESSAGE</b><br>Indicates a new text or voice message is waiting.                                     |
|  | Indicate the phone is Service & hook off state.  |  | <b>DIGITAL MODE</b><br>Indicates the phone is operating in digital mode.                                |
|  | Indicate the phone is no service & hook off state.   |  | <b>MUTE</b><br>Indicates the phone is mute during a call.   |
|  | Indicate the phone is service & hook on state.   |  | <b>EMERGENCY CALL</b><br>Blinks when an emergency call is in progress.                                  |
|  | Indicates the phone is no service & hook on state.   |  | <b>BATTERY</b><br>Indicates the battery charging level.<br>The more blocks, the greater charging level. |
|  | Indicates the phone is no service & speaker on state.  |  | <b>SCRATCHPAD</b><br>Appears when scratchpad is in use during a call.                                   |
|  | Indicates the phone is no service & speaker off state.   |   |   |



1.3 ANTENNA INSTALLATION

1.3.1 NORMAL ANTENNA INSTALLATION



1.4 PHONE CHARGER INSTALLATION



## 1.5 BATTERY HANDLING INFORMATION

### 1.5.1 DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F and 95°F.
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

### 1.5.2 DON'Ts

- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temps. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

## 2. BASIC OPERATION

In this chapter, you go over the basics of the most common features of your phone. With each given instruction, you get more familiarized with the basic features, each of which helps you utilize the more advanced features to be described in the following chapters.

Please take a few moments to know the basics of your phone.

### 2.1 TO TURN THE PHONE ON / OFF

#### 2.1.1 TURNING THE PHONE ON

- Press and hold [  ], until the logo appears and the tone sounds.



**Note** : • Enter the 4 digit lock code to unlock your phone when “Password” appears on the display.  
• The default lock code is the last 4 digits of your phone number.

#### 2.1.2 TURNING THE PHONE OFF








- Press and hold [  ], until “Power off” is displayed.



**Note** : • Change or recharge the battery immediately when “Low Battery Warning Power Off” appears on the display because there is a possibility to damage the memory when the phone is forced to be turned off.  
• The removal of battery when the phone is on could give rise to a data loss of last call.

## 2.2 TO ACCESS THE MENU

The menu enables you to customize your phone through various functions. You can access each function by scrolling through with the navigation key or pressing it's corresponding number of a menu or an item, etc.

- In the standby mode, press [  ] to access the menu.
- Use the [  ] [  ] [  ] [  ] buttons to scroll through the menu.
- Press [  ] to return to the previous page.
- Press [  ] to exit the current menu.
- Select an item with the navigation key when it is highlighted.
- Or press its corresponding number with the digit keys.
- Navigation key enable you to scroll through the menu.

## 2.3 MENU SUMMARY

<b>1 : PHONE BOOK</b>	1 : CALL LOGS  2 : BY LOCATION 3 : BY NAME	1 : MISSED CALL 2 : ANSWERED CALL 3 : DIALED CALL
<b>2 : SETTING</b>	1 : AUTO RETRY  2 : AUTO ANSWER 3 : ONE-TOUCH 4 : VOICE PRIVACY 5 : BACKLIGHT 6 : LCD CONTRAST 7 : LANGUAGE	1 : INTERVAL 2 : REPEAT
<b>3 : TONE</b>	1 : RING MODE 2 : RING TYPE 3 : KEYPAD 4 : RINGER VOL	
<b>4 : TIMER</b>	1 : LAST CALL 2 : ALL CALLS 3 : HOME CALLS 4 : ROAM CALLS	
<b>5 : SPECIAL</b>	1 : SCHEDULE  2 : STOPWATCH 3 : CALCULATOR 4 : BIORHYTHM	1 : LIST ALL 2 : INPUT SCHEDULE 3 : PAUSE ALL  1 : TODAY 2 : SOMEDAY 3 : BIRTHDAY



The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID PP4HWP-2150.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at <http://phonefacts.net>. \*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

### <Appendix>

#### 1. Troubleshooting

Problem	What To Do
<ul style="list-style-type: none"> <li>There is no indication on the LCD screen</li> </ul>	<ul style="list-style-type: none"> <li>Make sure the terminal is turned on. If the switch is on, turn off the terminal and then turn it on again.</li> </ul>
<ul style="list-style-type: none"> <li>"No Service" message is displayed on the LCD screen.</li> </ul>	<ul style="list-style-type: none"> <li>The WLL terminal must be placed in the location where service coverage is available. If necessary, move the terminal to the serviced location.</li> </ul>
<ul style="list-style-type: none"> <li>Your terminal beeps or you can hear nothing in the WLL.</li> </ul>	<ul style="list-style-type: none"> <li>Your WLL is not properly placed. Place the WLL normally.</li> </ul>
<ul style="list-style-type: none"> <li>Battery indication is blinking, and the terminal beeps periodically.</li> </ul>	<ul style="list-style-type: none"> <li>The backup battery is discharged. Switch to the external power supply.</li> </ul>
<ul style="list-style-type: none"> <li>There is no ring when a call comes.</li> </ul>	<ul style="list-style-type: none"> <li>The ringer is switched off. Press [UP] button several times to adjust the ringer volume</li> </ul>

*In case that simple remedy steps does not help, contact the local agency from where you have purchased the product, a service center or a qualified technician to solve the trouble.*

## 2. FWT Technical Specifications

Classification		HWP-2160
Air interface	Common air interface standard	IS-2000 (IS-95B, TSB-74)
	Frequency	TX: 824 ~ 849MHz
		RX: 869 ~ 894MHz
	Frequency accuracy	$F_o \pm 300\text{Hz}$
	TX output power	Typical 24dBm (23~25dBm)
	RX sensitivity	- 104dBm below (at FER = 0.5%), Typical -106dBm
	Vocoder	8K/13K QCELP
		8K EVRC
Channel bandwidth	CDMA 1.25Mhz	
MOD/DEMODO	O QPSK/QPSK	
Battery backup	Type	Ni-MH
	Capacity	3.6V @ 1.4A
	Conversation time	Minimum 2.5 hours
	Standby time	Minimum 140 hours
	Serial port	<ul style="list-style-type: none"> <li>· Data service purpose (Internet, Modem , PC fax)</li> <li>· Maintenance purpose</li> </ul>
Physical	Dimension (D x W x H)	197 x 172 x 62.5(mm)
	Weight (including backup battery)	792g
Environmental	Operating temperature	-10 °c ~ +50 °c
Power supply	Input power	100~240V $\pm 10\%$ , 48~62Hz
	Output power	5.5V 1.2A
Etc	Accessories	<ul style="list-style-type: none"> <li>· Internal antenna : Dipole antenna</li> <li>· Power supply (SMPS)</li> </ul>