

WELCOME

Thank you for choosing the Pantech PN-315 camera phone with built-in flash. Developed by top researchers this product offers multiple features designed to enhance your mobile experience including: web browsing to keep you up to date on news, sports and more, Voice Recognition (VR) offering the convenience of voice dialing, T9 predictive text input to make TXT messaging faster and an easy to navigate animated menu to make accessing and using all these features simpler.

Some of the many features of the PN-315 include:

- Full graphic display of 9 text input lines and 1 icon line with variable font size.
- Easy dialing with the VR feature.
- Easy text entry through the T9 text input mode.
- Enhancements for web browsing & data services (i.e.; wireless internet access, Openwave browser)
- GUI & Animation display compliant with CDMA2000 1X.
- Two LCD displays present rich full-color content on either the large inner main display screen, or the smaller outer sub-display screen.
- Navigation Key and 21 keys positioned for more convenience.
- Sophisticated speaker phone, and voice recognition features.
- Mobile Camera (330K pixels)
- Additional text messaging and Web browsing services in addition to authentication, call forwarding, call transfer, and call waiting.

IMPORTANT INFORMATION

This PN-315 user guide contains very important information about how to handle and use the product.

Please read this manual thoroughly, pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are related to the use of unauthorized accessories or components.

TABLE OF CONTENTS

CHAPTER 1. BEFORE USING YOUR PHONE	5
INSIDE THE PACKAGE	6
HANDSET DESCRIPTION	7
DISPLAY INDICATORS	9
BATTERY USAGE	11
BATTERY INSTALLATION	11
BATTERY REMOVAL	11
BATTERY CHARGING	12
POWER CONNECTION	12
BATTERY USAGE TIMES	13
BATTERY STANDBY TIME	13
BATTERY HANDLING INFORMATION	14
DOs	14
DON'Ts	14
CHAPTER 2. BASIC OPERATION	15
TURNING THE PHONE ON / OFF	16
TURNING THE PHONE ON	16
TURNING THE PHONE OFF	16
ACCESSING THE MENU	17
MENU SUMMARY	18
BASIC FUNCTIONS	20
MAKING A CALL	20
ANSWERING CALLS	21
SPEAKER PHONE	21
WAIT/PAUSE FEATURE	22
ANSWERING A CALL	22
3-WAY CALLING	23
CALLER ID FUNCTION	23
CALL WAITING FUNCTION	24
ADJUSTING VOLUME	24
ENTER LOCK MODE	25
DURING A CALL	26
MUTE (UNMUTE)	26
SEND TXT MSG	26
CONTACTS	26
RECENT CALLS	26
VOICE PRIVACY	26
LOCATION	27
MAKING AN EMERGENCY CALL	28
911 IN LOCK MODE	28
911 USING ANY AVAILABLE SYSTEM	28
CHAPTER 3. MEMORY FUNCTION	29
STORING A PHONE NUMBER	30
ENTERING LETTERS, NUMBERS & SYMBOLS	31
STANDARD INPUT MODE	32
WORD INPUT MODE	33
NUMERIC MODE	34
SYMBOL MODE	34
MAKING A CALL THROUGH THE PHONE BOOK	35
ONE-TOUCH/TWO-TOUCH DIALING	35
ONE-TOUCH DIALING	35
TWO-TOUCH DIALING	35
CHAPTER 4. MENU FUNCTION	37
CONTACTS	38
NEW CONTACT	38
CONTACT LIST	39
GROUPS	40
ADD NEW GROUP	40
ASSIGN PHONE NUMBER TO GROUP	40
CHANGE GROUP NAME	41
SEND TXT MSG. GROUP	41
SEND PIX MSG. GROUP	42

TABLE OF CONTENTS

ERASE GROUP	42
SPEED DIALS	43
RECENT CALLS	44
MISSED	44
RECEIVED	45
DIALED	46
ALL	47
VIEW TIMERS	48
SETTINGS	49
SOUNDS SETTINGS	49
MASTER VOLUME	49
CALL SOUNDS	50
ALERT SOUNDS	51
KEYPAD VOLUME	53
EARPIECE VOLUME	53
SERVICE ALERTS	54
POWER ON/OFF	55
ALARM SOUNDS	56
DISPLAY SETTINGS	57
BANNER	57
BACKLIGHT	58
CONTRAST	59
WALLPAPER	59
SCREENSAVER	60
DISPLAY THEMES	60
DIAL FONTS	61
CLOCK FORMAT	61
PHONE SETTINGS	62
STANDALONE MODE	62
SET SHORTCUT KEY	62
LANGUAGE	63
SECURITY	63
SYSTEM SELECT	64
NAM SELECTION	65
CALL SETTINGS	66
ANSWER OPTIONS	66
AUTO RETRY	67
TTY MODE	67
ONE TOUCH DIAL	68
VOICE PRIVACY	68
DATA SETTING	68
VOICE SERVICES	69
DTMF TONES	72
MEMORY	73
MEMORY USAGE	73
MY PIX	73
MY SOUNDS	73
PHONE INFO	74
MY NUMBER	74
SW VERSION	74
ICON GLOSSARY	75
TOOLS	76
CALENDAR	76
ADD NEW	76
VIEW PLAN LIST	77
ALARM CLOCK	78
WORLD CLOCK	79
NOTEPAD	80
ADD MEMO	80
VIEW MEMO	80
CALCULATOR	81
STOP WATCH	82
MY ACCOUNT	83
MY ACCOUNT	83

TABLE OF CONTENTS

CHAPTER 5. GET IT NOW.....	85
GET IT NOW	86
GET TUNES & TONES	86
GET NEW RINGTONES	86
RECORDING NEW TONES	86
MY RINGTONES	87
MY SOUNDS	88
GET PIX.....	89
DOWNLOADING NEW PIX.....	89
MY PIX.....	89
PIX PLACE	90
TAKE PIX.....	91
GET FUN & GAMES.....	93
DOWNLOADING NEW FUN & GAMES	93
PLAYING DOWNLOADED FUN & GAMES	93
GET NEWS & INFO	94
CONNECTING NEWS & INFO	94
GET GOING	94
CONNECTING GET GOING	94
GET IT NOW INFO.....	94

CHAPTER 6. VOICE MAIL, TXT, PIX MESSAGING	95
WHEN A NEW MESSAGE ARRIVES	96
VOICE MAIL	96
NEW MSG	97
SEND NEW TXT MESSAGE	97
SEND NEW PIX MESSAGE	98
INBOX.....	100
PLAY AGAIN	100
FORWARD.....	100
ERASE	101
REPLY W. COPY	101
SAVE GRAPHIC	101
SAVE SOUND	101
SAVE QUICK TEXT.....	101
LOCK/UNLOCK.....	102
ADD TO CONTACTS.....	102
MESSAGE INFO	102
SENT	103
PLAY AGAIN	103
FORWARD.....	103
RESEND	103
ERASE	104
LOCK/UNLOCK.....	104
ADD TO CONTACTS.....	104
SAVE QUICK TEXT.....	104
MESSAGE INFO	104
DRAFTS	105
SEND	105
LOCK/UNLOCK.....	105
ADD TO CONTACTS.....	105
E-MAIL	106
MOBILE IM	107
GET NEW.....	107
MOBILE IM.....	107
CHAT	108
ERASE ALL	109
SETTINGS.....	110
ALL MSG SETTINGS.....	110
AUTO SAVE	110
AUTO ERASE	110
QUICK TEXT.....	111
VOICE MAIL#.....	111
ENTRY MODE.....	112
CALLBACK #.....	112
ALL MESSAGE SIGNATURE	113

TABLE OF CONTENT

TXT MSG SETTINGS	114
AUTO VIEW	114
BLOCK / UNBLOCK	114
TXT MESSAGE SIGNATURE	115
PIX MSG SETTINGS	116
AUTO RECEIVE	116
PIX MESSAGE SIGNATURE	116

CHAPTER 7. MOBILE WEB 2.0	117
STARTING INTERNET BROWSER	118
LAUNCHING MOBILE WEB 2.0	118
BROWSER MENU	118
VZW HOME	118
BACK	118
FORWARD	119
REFRESH	119
HISTORY	119
ADDRESS	119
CLEAR MEMORY	119
SETTINGS	120
ADVANCED	121
EXIT	122

CHAPTER 8. SAFETY AND WARRANTY	123
SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES	124
DRIVING SAFETY	125
ELECTRONIC DEVICES	126
OTHER SAFETY GUIDELINES	127
PRECAUTIONS	128
SAFETY INFORMATION FOR FCC RF EXPOSURE	129
CAUTIONS	129
SAR INFORMATION	130
FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES	132
FDA CONSUMER UPDATE	134
PROTECT YOUR WARRANTY	138
12 MONTH LIMITED WARRANTY	139

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Chapter 1

BEFORE USING YOUR PHONE

This chapter provides important information about using the PN-315 including:

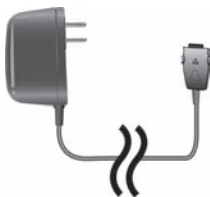
- **INSIDE THE PACKAGE**
- **HANDSET DESCRIPTION**
- **BATTERY USAGE**
- **BATTERY HANDLING INFORMATION**

INSIDE THE PACKAGE

This package should include all items pictured below. If any are missing or different, immediately contact the retailer where you purchased the phone.



Handset



AC Travel Charger



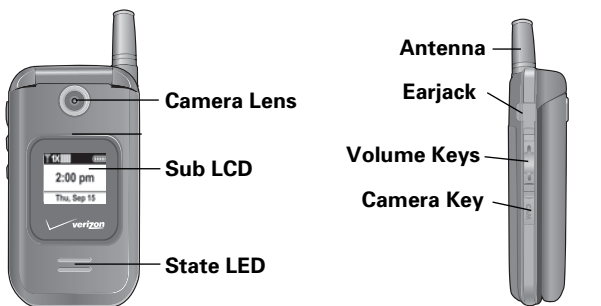
User Manual



Standard Battery

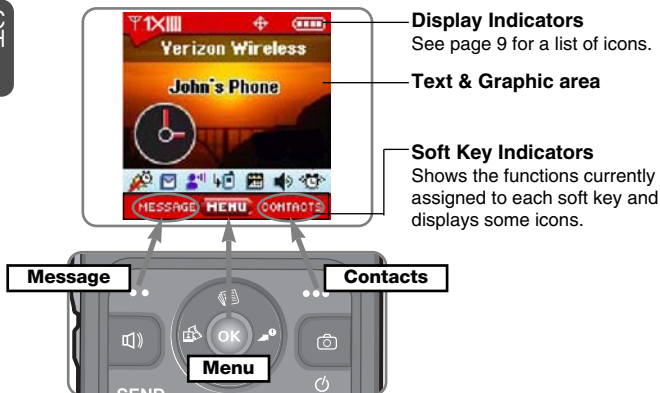
HANDSET DESCRIPTION

The PN-315 weighs 3.7oz. The dimensions are 1.83" x 4.48" x 0.97".



HANDSET DESCRIPTION

CI
1



Short Cut Key 1

Short Cut Key 2

Short Cut Key 3

Short Cut Key 4

In Idle Mode
- Press Up for Short Cut Key 1, Down for Short Cut Key 4, Right for Short Cut Key 3 and Left for Short Cut Key 2.

Inside the menu
- Within a menu, use to scroll through menu options, or to select a function displayed on the screen.

- Press to make or receive a call.
Short press:Recent Calls. Long press:Voice Dial.
- Press to turn the phone on/off, to terminate a call or to return to the initial page.
- (Left Soft Key) Press to access the message menu or function displayed on bottom line.
- (Right Soft Key) Press to access contacts menu or function displayed on bottom line.
- Press to clear a digit from the display or to return to the previous page.
- Speaker Phone On/Off in idle.
- Short/long press : Go to Take PIX Viewfinder/Menu.
- A long press shall display a plus "+".
- Press and hold to enter lock mode.

HANDSET DESCRIPTION

DISPLAY INDICATORS



Signal Strength - Current signal strength: the more lines, the stronger the signal (1X Mode/ Digital Mode).



Roaming
Phone is out of home area.



Voice Privacy
Indicates "Voice Privacy" mode.



SSL (Secured Socket Layer)
Indicating that secure communication between client and server has been established during data communication using encryption.



Dormant
Indicates your phone is in a dormant state during a data call. Your phone goes to Dormant mode when you have not had any activity on a page for some time - your connection is still active and you can make and receive calls.



No Service
Indicates the phone cannot receive a signal from the system.



Voice



Data Active



TTY
Indicates your phone is active in TTY mode.



GPS Icon
Indicates the Location Service of your phone is disabled/enabled.



Battery
Battery charging level – the more blocks, the stronger the charge.



Standalone
The mode that restricts transmitting and receiving inside the airplane.

HANDSET DESCRIPTION



Alarm Only

Phone will alert you with an alarm tone when call is received.



Alarm

Appears when either a calendar or an alarm is set.



Vibrate Only

Phone will vibrate when call is received.



All Sounds Off

Indicates the ringer volume is set to off.



Missed Calls



Voicemail

Indicates you have voicemail messages.



New Messages

Receive a new TXT message.



Calendar Appointment

Indicates Event Alarm is active.



Data Only

Receives an async. call as a voice call.



Speakerphone

Phone is in speakerphone mode.



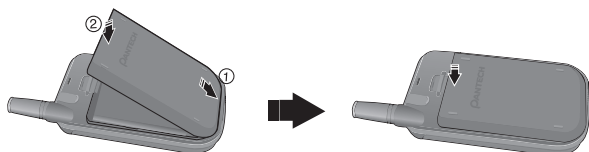
Auto Answer

Phone is in answering machine mode.

BATTERY USAGE

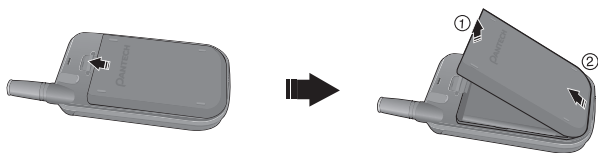
BATTERY INSTALLATION

- 1 Place the battery on the back of the handset and slide into place. 2 Push the battery down until it locks into place.



BATTERY REMOVAL

- 1 Pull down the release latch, lift up the battery and 2 remove the battery from the handset.



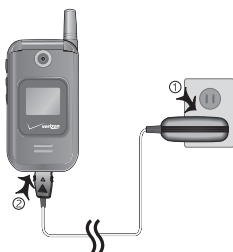
If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

BATTERY USAGE

BATTERY CHARGING

POWER CONNECTION

- 1 Plug the AC Charger into a standard outlet.
- 2 Plug the other end of the AC Charger into the bottom of your phone. The battery must be installed onto the phone.



- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.
- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset powered off.
- The battery must be connected to the phone in order to charge it.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.

BATTERY USAGE

BATTERY USAGE TIMES

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS
STD 1100 mAh	Up to 203 minutes	Up to 203 minutes
-	-	-

BATTERY STANDBY TIME

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS
STD 1100 mAh	220 Hours	190 Hours
-	-	-



These times are for a new battery. Usage and Standby time may decrease over time.

BATTERY HANDLING INFORMATION

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 (5°C) and 95°F (35°C).
- 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.

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.

Chapter 2

BASIC OPERATION

This chapter addresses and explains the basic features of your phone including:

- TURNING THE PHONE ON / OFF
- ACCESSING THE MENU
- MENU SUMMARY
- BASIC FUNCTIONS
- DURING A CALL
- MAKING AN EMERGENCY CALL

TURNING THE PHONE ON / OFF

TURNING THE PHONE ON

- 1 Press and hold  until your "Power On" logo appears and the tone sounds.



- If "Password" appears on the display enter your 4-digit password to unlock your phone.
- The default password is the last 4 digits of your phone number.

TURNING THE PHONE OFF

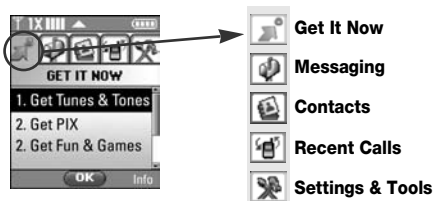
- 1 Press and hold  until your "Power Off" logo appears.



- Immediately change or recharge the battery when "LOW BATTERY!! PHONE IS TURNING OFF!" appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
- Turn the phone off before removing or replacing the battery. If the phone is on, unsaved data may be lost.

ACCESSING THE MENU

Your phone can be customized via the menu. Each function can be accessed by scrolling with the Navigation Key or by pressing the number that corresponds with the menu item.



- 1** To access the menu in the idle mode, press [MENU].
- 2** Use the Navigation Key to scroll through the menu.
 - To search through the menu in numerical order, press the Navigation Key.
- 3** To return to the previous page, press . To exit the current menu and return to the idle mode, press .
- 4** Press the Navigation Key to enter a function when its main page is displayed or press its assigned number to have direct access to the function.








Hotkey

In idle mode, move the Navigation Key as follows to access these functions:

- Upward movement : Shortcut Key 1
- Downward movement : Shortcut Key 4
- Rightward movement : Shortcut Key 3
- Leftward movement : Shortcut Key 2

MENU SUMMARY

<i>Get It Now</i>		<ol style="list-style-type: none"> 1. Get Tunes & Tones 2. Get PIX 3. Get Fun & Games 4. Get News & Info 5. Get Going 	<ol style="list-style-type: none"> 1. Get New Ringtones 2. My Ringtones 3. My Sounds 1. Get New PIX 2. My PIX 3. PIX Place 4. Take PIX 1. Get New 1. Get New 	
<i>Messaging</i>		<ol style="list-style-type: none"> 1. New Msg 2. Inbox 3. Sent 4. Drafts 5. Voicemail 6. E-mail 7. Mobile IM 8. Chat 	<ol style="list-style-type: none"> 1. TXT Msg 2. PIX Msg 	
<i>Contacts</i>		<ol style="list-style-type: none"> 1. New Contact 2. Contact List 3. Groups 4. Speed Dials 		
<i>Recent Calls</i>		<ol style="list-style-type: none"> 1. Missed 2. Received 3. Dialed 4. All 5. View Timers 		
<i>Settings & Tools</i>		<ol style="list-style-type: none"> 1. My Account 2. Tools 3. Sounds Settings 	<ol style="list-style-type: none"> 1. Calendar 2. Alarm Clock 3. World Clock 4. Notepad 5. Calculator 6. Stop Watch 1. Master Volume 2. Call Sounds 3. Alert Sounds 4. Keypad Volume 5. Earpiece Volume 6. Service Alerts 7. Power On/Off 8. Alarm Sounds 	<ol style="list-style-type: none"> 1. Alarm 1 2. Alarm 2 3. Alarm 3 1. Call Ringtone 2. Call Vibrate 1. TXT Message 2. PIX Message 3. Voicemail Msg 1. ERI 2. Minute Beep 3. Call Connect 1. Power On 2. Power Off 1. Alarm Tone 2. Alarm Vibrate

MENU SUMMARY

4. Display Settings

1. Banner
2. Backlight
3. Contrast
4. Wallpaper
5. Screensaver
6. Display Themes
7. Dial Fonts
8. Clock Format

1. Personal
2. ERI Banner
1. Display Settings
2. Keypad
1. Main LCD
2. Sub LCD

5. Phone Settings

1. Standalone Mode
2. Set Shortcut Key

3. Language
4. Security

5. System Select
6. NAM Selection

1. Main Clock
2. Front Clock

1. Left Key
2. Up Key
3. Right Key
4. Down Key
5. Reset All

1. Lock Mode
2. Edit Code

1. Auto NAM
2. Change NAM

6. Call Settings

1. Answer Options
2. Auto Retry
3. TTY Mode
4. One Touch Dial
5. Voice Privacy
6. Data Setting
7. Voice Services

1. Voice Dial
2. Voice Setting
3. Voice Memo
4. Train Word

7. Memory

8. DTMF Tones
1. Memory Usage
2. My PIX
3. My Sounds
1. My Number
2. SW Version
3. Icon Glossary

8. Phone Info



BASIC FUNCTIONS

MAKING A CALL


1 Enter a phone number.




To modify the phone number you have entered :

- To erase one digit at a time press .
- To erase the entire number, press and hold .



To send the TXT or PIX message with phone number :


- To enter a part of the phone number, then press  [OPTIONS], select "New TXT Msg or New PIX Msg". Please refer to page 97 or page 98 for more details on "Send New TXT Message or Send New PIX Message".

2 Press .

The indicator, , appears on the display.




- If "CALL FAILED" appears on the display or the line is busy, press  or .
- If you activate the "AUTO RETRY" function, the phone will automatically retry for the number of times you have selected. (refer to page 67).
- When you place or receive a call from stored phone numbers, the saved name will be displayed.
- There is another way to make a call through the VR mode, which is called "VAD (Voice Activated Dialing)". Please refer to page 69 (Voice Service) for more details.
- If "Enter Lock Code" appears on the display enter your 4-digit password to unlock your phone.


3 To end a call, press .


BASIC FUNCTIONS

ANSWERING CALLS

- 1 When your phone rings or vibrates, press  to answer the incoming call.
(Depending on your phone's settings, you may also answer incoming calls by opening the phone or by pressing any digit key.)




To ignore incoming calls, press  [IGNORE].

- 2 To end a call, press  .

SPEAKER PHONE




The speaker phone feature lets you hear audio through the speaker and talk without holding the phone.

- 1 To activate the speaker phone in idle, answering or calling modes, press  .
- 2 The phone returns to normal (Speaker Phone Off) after ending a call or when the phone is turned off and back on.









BASIC FUNCTIONS





WAIT/PAUSE FEATURE


Pauses are used for automated systems (i.e., voice mail, calling cards). Insert a pause after a phone number then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.

- 1 To insert a wait/pause, enter a phone number then press  [OPTIONS]. Select either a 2-Sec Pause ("P" appears) or a Wait ("W" appears).
- 2 Press  to dial or  to save. Please refer to page 30 for more details about storing a phone number.

ANSWERING A CALL

- 1 To answer a call, press any key except , , , , , ,  or .

By pressing  [MENU] and then select "Settings & Tools" menu, press  , you can select either "Flip Open", "Any Key" or "Send Only" to answer a call. If "Send Only" is selected, the phone can only be answered by pressing . See page 65 for more information.

- 2 To end the call, press .






In Auto Answer Mode a call is automatically answered after 5 seconds of ring tones. See page 66 for more details.

BASIC FUNCTIONS

3-WAY CALLING

With 3-Way Calling, you can talk to two people at the same time. When using this feature, the normal airtime rates will be applied for each of the two calls.

- 1 Enter a number you wish to call then press  .
- 2 Once you have established the connection, enter the second number you wish to call then press  .
- 3 When you're connected to the second party, press  again to begin your 3-Way call.



If one of the people you called hangs up during your call, you and the remaining caller stay connected. If you initiated the call and are the first to hang up, all three callers are disconnected.



CALLER ID FUNCTION

Identifies caller by displaying their phone number. If the caller's name and number are already stored in your phone book, the name will appear. The caller ID is stored in the recent calls.

BASIC FUNCTIONS

CALL WAITING FUNCTION

Notifies you of an incoming call when you are already on a call by sounding a beep tone and displaying the caller's phone number.



- 1 To answer another call while on the phone, press . This places the first call on hold. To switch back to the first caller, press  again.




Call Waiting is a system dependent feature. Please contact your service provider for details.

ADJUSTING VOLUME

Adjusts the volume of the ringer, key beep and speaker.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  then select one of the following.

- **Master Volume** : Controls the ringer volume.
- **Keypad Volume** : Controls the keypad volume.
- **Earpiece Volume** : Controls the earpiece volume.





- 2 Adjust volume then press  to save it.



- To adjust earpiece volume during a call, press the Navigation Key up or down.
- To adjust master volume, press short side up/ down key.
- **In Idle Mode:**
Side Volume Up key Long Press: Set volume to out of silence.
Side Volume Down key Long Press: Set volume to silence.


BASIC FUNCTIONS

ENTER LOCK MODE

- 1** To lock the phone, press and hold  .
- 2** To unlock the phone, press  or  [UNLOCK], then input your password, then press  .

- Lock feature will not deactivate when the phone is powered off.


DURING A CALL

To display menu options during a call, press  [OPTIONS].

MUTE (UNMUTE)

The caller cannot hear you or any sounds from your side but you can still hear them.

 **1** Press  [MUTE].

- To deactivate, press  [UNMUTE].
- The phone will automatically unmute in Emergency Call or Callback mode.

SEND TXT MSG

Enables you to send a TXT message (SMS) during a call.

 **1** Press  [OPTIONS]  .

CONTACTS

To select the phone number in your internal Contact List.

 **1** Press  [OPTIONS]  .

RECENT CALLS

To select the phone number in your recent calls List.

 **1** Press  [OPTIONS]  .

VOICE PRIVACY

Increases security during a call.

 **1** Press  [OPTIONS]  .

DURING A CALL

LOCATION

Enables the network to locate your current location through Global Positioning System (GPS).


1 Press  [OPTIONS] .

MAKING AN EMERGENCY CALL

The 911 feature puts the phone in the Emergency Call Mode when you dial the preprogrammed emergency number, 911. It also operates in the lock mode and out of the service area.


911 IN LOCK MODE

The 911 call service is available even in the lock mode.

- 1 Enter "911" then press  .
- 2 The call connects.
- 3 The phone exits the Emergency Mode after 5 minutes.

- When the call ends, the phone returns to the Lock Mode.

911 USING ANY AVAILABLE SYSTEM

- 1 Enter "911" then press  .
- 2 The call connects.
- 3 The phone maintains the Emergency Mode for 5 minutes.

- The phone returns to the Lock Mode.
- While the phone is in the emergency mode for 5 minutes, the phone can receive an incoming call from any available system. However, it can't make a call.



The 911 call is not recorded in the recent call list.

Chapter 3









MEMORY FUNCTION

This chapter addresses memory functions including:


- STORING A PHONE NUMBER
- ENTERING LETTERS, NUMBERS & SYMBOLS
- MAKING A CALL THROUGH THE PHONE BOOK

STORING A PHONE NUMBER

The phone book stores up to 500 entries.

- 1** Enter phone # then press  [SAVE] then choose "Create New" or "Update Existing". Press  to select.
- 2** If "Create New" is selected, the phone number will appear above a list. Press the Navigation Key up or down to choose the type of number you're adding, as indicated by the icon. Press  to select.
If "Update Existing" is selected, your contact list is displayed. Choose the entry to add the phone number to, then press . You will then see the phone number listed about a list. Press  to select.
- 3** Enter a name.
Please refer to page 31 for more details on entering letters, numbers & symbols.
To change the input mode, press  [Abc]. Press the Navigation Key down to select other options (Mobile1.2, E-mail1.2, etc...).
If entered phone number, press  [OPTIONS] to select one of the following options:
 - Set Speed Dial
 - Set Voice Dial
 - Set As Default
 - Add Pause
- 4** To store the entry, press  [SAVE]. "CONTACT SAVED" will be displayed.

ENTERING LETTERS, NUMBERS & SYMBOLS







The input mode (Alpha editor) will automatically be activated when necessary to enter letters and numbers. As shown below, there are 5 available modes ; Standard input mode (Abc), Word input mode (Word), Numeric mode (123), and Symbol mode (Symbols). The input mode indicator appears on the upper right of the display when letters and numbers are entered. To select the desired input mode among the 5 modes below, press  [Abc], then enter letters and numbers.



Input mode indicator

Word : Word mode
 Abc : Abc mode
 ABC : ABC mode
 123 : Numeric mode
 Symbols : Symbol mode

The following illustrates the function assigned to each key in the Alpha Editor.

KEY	FUNCTION
 Abc	Press to change mode. [Word][Abc][ABC][123][Symbols]
 Next	Press to view the next matching word if the highlighted word is not the word you intended.
 Space	Press to accept a word and add a space.
 Caps Lock	Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC] and [abc] indicate the standard text input. [Word], [WORD] and [word] indicate the predictive text input. Press and hold to change mode.
Clear 	Press to delete a character to the left of the cursor.
Send 	Send the letters and numbers you enter.

ENTERING LETTERS, NUMBERS & SYMBOLS

STANDARD INPUT MODE

Use the digit keys to enter letters, numbers and characters.

1 Enter letters using the key pad as follows:

Key Pad	1 Time	Repetitions 2 times	Repetitions 3 times	Repetitions 4 times	Repetitions 5 times
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

Press and hold **1#**, until the desired symbol appears (.@?!-...).

To change the input mode, press **..** [Abc].

2 To enter a space, press **␣**. The cursor will automatically move to the next column.

3 Repeat until letters are entered.

4 To delete one digit, press **CLR**.
If you press and hold **CLR**, it will delete letters word by word, and numbers in whole.

5 To change from lowercase to uppercase, press **⇧+***.



Select Abc mode by pressing **.. [Abc].**

When you select this mode, the Abc icon appears as a visual confirmation.

- Find the key that corresponds to the letter you want to enter.
- Press it as many times as needed for the letter to appear on the screen.
- To enter the name "John":

Press [**5 H**] J

Press [**6 mro** **6 mro** **6 mro**] o




Press [**4 ph** **4 ph**] h

Press [**6 mro** **6 mro**] n

ENTERING LETTERS, NUMBERS & SYMBOLS




WORD INPUT MODE

The Word input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character.

- 1 Select the Word mode by pressing  [Abc].
- 2 Press a digit key once to enter the character you want then enter all the characters to input the word you want.
- 3 To view the next matching word, press  .
- 4 To accept the matching word and enter a space, press  .














To enter a compound word:

- Enter the first part of the word then press   to accept it.
- Enter the last part of the word then press  to enter the word.



To enter "Fun fare" in the Word input mode.

- After you enter the 1st letter, press  [Abc] to select Word mode and  to choose the lower case (Word).
- Press    and you will see "Fun" highlighted. Press  to select it.
- Press     and until you see "ease" highlighted. Press  to select the next matching word, you will see "fare" then enter a space.

ENTERING LETTERS, NUMBERS & SYMBOLS

NUMERIC MODE

Allows you to enter numbers.

- 1 Press [Abc] and scroll down to "123" and press to change to Numeric Mode.
- 2 To enter a number, press a digit key.

SYMBOL MODE

Allows you to enter symbols.

- 1 Press [Abc] and scroll down to "Symbols" and press to change to Symbol Mode.
- 2 Select symbol you want to enter with the Navigation Key.

- Use the Navigation Key to view a different line of symbols.

Press [],

or

Press [].



MAKING A CALL THROUGH THE PHONE BOOK

ONE-TOUCH/TWO-TOUCH DIALING

Ideal for frequently dialed numbers, this feature allows phone book entries to be dialed via the keypad with only one or two key presses.

ONE-TOUCH DIALING:

2-9 : Press and hold the corresponding memory number for more than 1 second.

TWO-TOUCH DIALING:

10-22 : Press the first digit and second digits of the memory number short and long respectively.



If no phone number is stored in the location entered, "UNASSIGNED LOCATION" will appear on the screen.

MEMO

CI
3

Chapter 4

MENU FUNCTION

This chapter addresses accessing the menu and using its functions and features to customize your phone.



- CONTACTS
- RECENT CALLS
- SETTINGS
- TOOLS
- MY ACCOUNT




CONTACTS

Stores up to 500 entries, each of which can be assigned to a group. Entries can be retrieved by name or group.



NEW CONTACT

Adds a new entry.

- 1 Press  [MENU], then press  "New Contact".
- 2 To enter a name or number, use the Navigation Key to select the phone book field.

- **PHONE BOOK FIELDS :**
Name/Mobile 1/Home/Work/E-mail 1/Group/Picture/Ringtone/Mobile 2/Fax/E-mail 2.
- Under "Mobile 1", "Mobile 2", "Home", "Work" or "Fax", input the phone number, then by press  [OPTIONS], you can choose from the following:
 1. Set Speed Dial
 2. Set Voice Dial
 3. Set As Default
 4. Add Pause
- Scroll to "Picture" and press  [SET] to select an image. (Please refer to page 89 "My PIX" for more details.)
- Scroll to "Ringtone" and press  [SET] to add a ringtone. (Please refer to page 87 "My Ringtones" for more details.)

Please refer to page 31 for more details on entering letters, numbers & symbols.

- 3.1 To save the entry, press  [SAVE].
- 3.2 To return to the previous page, press  .







At least one phone number or an email address needs to be entered to save the new contact. Otherwise, it will display "NO DATA ENTERED".

If only a phone number is entered and the name field is left blank, the contact will still be saved and the Contact List will display the phone number.

CONTACTS



CONTACT LIST


Retrieves an entry by name and calls by simply pressing  . You can review all the entries stored in your phone book list or quickly find an entry by entering a name or its character string.



1 Press  [MENU] or press  [CONTACTS], then press  "Contact List"

2 The list of names in your phone book is displayed alphabetically.

3 Enter a name or its character string or scroll through the list with the Navigation Key. Please refer to page 31 for more details on entering letters, numbers & symbols.

4 To edit the entry, press  [EDIT]. To view the contact details, press  [VIEW].

- To use and manage contacts, press  [OPTIONS] then select:
 - 1. New Contact:** To add a New Contact.
 - 2. Erase:** To delete a contact.
 - 3. Send TXT Msg:** To begin a TXT message to the contact.
 - 4. Send PIX Msg:** To create a picture message.
 - 5. Call:** To call the contact.





5 To call the selected number, press  [OPTIONS] then select "Call" or press  .

CONTACTS




GROUPS

Allows you to classify phone entries into as many as 30 groups. Existing group names include Family and Work and can't be renamed or Erased, however the user can create up to 28 additional group names which can be changed or deleted. The user can add up to 10 phone numbers per group.

ADD NEW GROUP





- 1 Press  [MENU], then press  "Groups".
- 2 To select "New", press  [NEW].
- 3 Input a new group name.
- 4 To save it, press  [SAVE].

ASSIGN PHONE NUMBER TO GROUP








- 1 To assign phone numbers to a Group, select "Add", press  [OPTIONS].
- 2 Your phone book entries will be displayed in alphabetical order. Select a location and press  .
- 3 Select the contact for the group then press  [DONE]. "CONTACTS ADDED TO GROUP" will be displayed.
Repeat for each location for the Group.

CONTACTS

CHANGE GROUP NAME








- 1 Press  [MENU], then press  "Groups".
- 2 Select an existing group name that you have added with the Navigation Key.
- 3 To select "Rename", press  [OPTIONS].
- 4 Input a new group name.
- 5 To save it, press  [SAVE].

SEND TXT MSG. GROUP





- 1 Press  [MENU], then press  "Groups".
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Send TXT Msg.", press  [OPTIONS].
- 4 Input a "Message", press  [OPTIONS] to select "Save As Draft", "Priority Level" and "Callback #".
- 5 5.1. To send the TXT message, press  [SEND].
5.2. To save the TXT message, press  [OPTIONS] then select "Save As Draft", then press  .

CONTACTS

SEND PIX MSG. GROUP

- 1 Press  [MENU], then press  "Groups".
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Send PIX Msg", press  [OPTIONS].
- 4 Input a "Text", "PIX", "Sound", "Subject", press  [OPTIONS] to select "Preview", "Add Quick Text", "Save As Draft", "Priority Level" and "Add Slide".
- 5 5.1. To send the PIX message, press  [SEND].
5.2. To save the PIX message, press  [OPTIONS] then select "Save As Draft", then press  .





ERASE GROUP

- 1 Press  [MENU], then press  "Groups".
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Erase", press  [OPTIONS].
- 4 Select "Yes" to erase it, press  .

CONTACTS


SPEED DIALS

In idle mode, calls can be placed to numbers stored in speed dial by pressing & holding the location number on the key pad. For a 2-digit location number, press the first number, then press and hold the second number.

- 1 Press  [MENU], then press  "Speed Dials".
- 2 To assign a phone number to a location, select the location then press  [SET].
- 3 Select the contact with the Navigation Key then press  .






- "Unassigned" appears if the location is available.
- To call an assigned number, press & hold the last digit of the speed dial #.


- 4 To confirm, press  .
- 5 "SPEED DIAL SET" will be displayed.

RECENT CALLS

MISSED


Displays information about the 90 most recently missed calls. Place a call to a missed call number by simply pressing .

1 To see a list of the 90 most recently missed calls, press  [MENU], then select "Recent Calls" menu, press  "Missed". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

2 To view missed call details, press  [OPEN].




Call details include date, time and phone number.

3 Press  [OPTIONS] and select "Save" to save it or select "Erase" to delete it.


- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a missed calls list.
- **Lock/Unlock** : To lock or unlock missed calls list.
- **Erase All** : To erase all missed calls list.
- **View Timers** : To display usage time.






- *After 90 missed calls, the oldest call will automatically be erased from the history.*
- *Press  [MESSAGE], to send the TXT or PIX Meg.*

RECENT CALLS

RECEIVED


Displays information about the 90 most recently received calls. Place a call to a received call by simply pressing .

1 To see a list of the 90 most recently received calls, press  [MENU], then select "Recent Calls" menu, press  "Received". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

2 To view received call details, press  [OPEN].




Call details include date, time and phone number.

3 Press  [OPTIONS] and select "Save" to save it or select "Erase" to delete it.


- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a received calls list.
- **Lock/Unlock** : To lock or unlock received calls list.
- **Erase All** : To erase all received calls list.
- **View Timers** : To display usage time.






- *After 90 received calls, the oldest call will automatically be erased from the history.*
- *Press  [MESSAGE], to send the TXT or PIX Meg.*

RECENT CALLS

DIALED


Displays information about the 90 most recently dialed numbers. Place a call to a dialed call by simply pressing .

1 To see a list of the 90 most recently dialed numbers, press  [MENU], then select "Recent Calls" menu, press  "Dialed". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

2 To view dialed call details, press  [OPEN].




Call details include type of call, date, time and phone number.

3 Press  [OPTIONS] and select "Save" to save it or select "Erase" to delete it.

- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a dialed calls list.
- **Lock/Unlock** : To lock or unlock dialed calls list.
- **Erase All** : To erase all dialed calls list.
- **View Timers** : To display usage time.






- *After 90 dialed calls, the oldest call will automatically be erased from the history.*
- *Press  [MESSAGE], to send the TXT or PIX Meg.*

RECENT CALLS

ALL


Displays information about the most recent received, dialed and missed calls.

1 To see a list of the 270 most recent received, dialed and missed calls, press  [MENU], then select "Recent Calls" menu, press  "All". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

2 To view details, press  [OPEN].




Call details include type of call, date, time and phone number.

3 Press  [OPTIONS] and select "Save" to save it or select "Erase" to delete it.

- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a recent calls list.
- **Lock/Unlock** : To lock or unlock recent calls list.
- **Erase All** : To erase all recent calls list.
- **View Timers** : To display usage time.










- *After the 270 received, dialed or missed calls, the oldest call will automatically be erased from the history.*
- Press  [MESSAGE], to send the TXT or PIX Meg.

RECENT CALLS

VIEW TIMERS

Checks the usage time and manages your calls within the limit you set. The 11 timers include (Last Call, All Calls, Received Calls, Dialed Calls, Roaming Calls, Transmit KB, Received KB, Total KB, Last Reset, Lifetime Calls, Lifetime Data Count):

- 1 Press  [MENU], then select "Recent Calls" menu, press  "View Timers".
- 2 To reset the timer, press  [RESET], then select "Yes", press  .
To reset all timer, press  [RESET ALL], then select "Yes", press  .
- 3 To return to the previous page, press  .






SETTINGS

Customizes your phone and optimizes performance through a variety of settings.

SOUNDS SETTINGS

MASTER VOLUME

Controls the Ringer volume and alerts you to incoming calls in the modes listed in the gray box below.





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Master Volume".
- 2 Select one of the following options by pressing the Navigation Key to the right.
 - Low, Medium Low, Medium, Medium High, High.
 - Vibrate Only
 - Alarm Only
 - All Sounds Off
 - Press  to play sound.
- 3 Select one of the available ring types. To confirm, press  .

SETTINGS


CALL SOUNDS


To select a ringer type for incoming calls:

CALL RINGTONE





1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Call Sounds", press  "Call Ringtone".


2 Select your desired ringer type.

- **Up or Down key** : 1. Get New or select your desired ringer type.
- Press  Play/Stop to Play/Stop the ringer.

3 Select one of the available ring types.
To confirm, press .

CALL VIBRATE

1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Call Sounds", press  "Call Vibrate".





2 Select "On" or "Off" with the Navigation Key then press  to save it.

SETTINGS

ALERT SOUNDS


When selected, this setting alerts you to the following handset changes:

TXT MESSAGE





1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Alert Sounds", press  "TXT Message".

2 Select "Tone", "Vibrate" or "Reminder" with the Navigation Key then select one of the following options by pressing the Navigation Key.

- **Tone** : 1. Get New or select your desired ringer type.
- **Vibrate** : Select "On" or "Off".
- **Reminder** : Select "Once", "Every 2 Minutes", "Every 15 Minutes" or "Off".


3 To save, press  .

PIX MESSAGE

1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Alert Sounds", press  "PIX Message".





2 Select "Tone", "Vibrate" or "Reminder" with the Navigation Key then select one of the following options by pressing the Navigation Key.

- **Tone** : 1. Get New or select your desired ringer type.
- **Vibrate** : Select "On" or "Off".
- **Reminder** : Select "Once", "Every 2 Minutes", "Every 15 Minutes" or "Off".

3 To save, press  .


SETTINGS

VOICEMAIL MSG

1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Alert Sounds", press  "Voicemail Msg".

2 Select "Tone", "Vibrate" or "Reminder" with the Navigation Key then select one of the following options by pressing the Navigation Key.





- **Tone** : 1. Get New or select your desired ringer type.
- **Vibrate** : Select "On" or "Off".
- **Reminder** : Select "Once", "Every 2 Minutes", "Every 15 Minutes" or "Off".

3 To save, press  .

SETTINGS





KEYPAD VOLUME

To adjust key pad tone:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Keypad Volume".
- 2 Select one of the following options by pressing the Navigation Key to the right.
 - Low, Medium Low, Medium, Medium High, High
 - Off
- 3 Select one of the available ring types.
To confirm, press  .

EARPIECE VOLUME

To adjust earpiece volume:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Earpiece Volume".
- 2 Select one of the following options by pressing the Navigation Key to the right.
 - Low, Medium Low, Medium, Medium High, High
- 3 Select one of the available ring types.
To confirm, press  .






SETTINGS

SERVICE ALERTS

ERI (Enhanced Roaming Indicator)

The Enhanced Roaming Indicator (ERI) feature displays a text banner on the display screen informing the handset user of which systems the wireless device is using as compared to the service plan they purchased. The ERI Banner text changes to tell a customer if they are using the: "Verizon Network", "Extended Network" or "Roaming".

Using a Personal Message Banner may prevent the ERI from displaying on the phone.






- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Service Alerts", press  "ERI".
- 2 Select "On" or "Off" with the Navigation Key then press  to save it.



Display -> Banner -> ERI Banner must be set for "ON" for smooth operation of all the functions.






MINUTE BEEP

Sounds an alert every minute during a call.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Service Alerts", press  "Minute Beep".
- 2 Select "On" or "Off" with the Navigation Key then press  to save it.

CALL CONNECT

Notifies you that a call has been successfully placed.






- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" then select  "Service Alerts", press  "Call Connect".
- 2 Select "On" or "Off" with the Navigation Key then press  to save it.

SETTINGS

POWER ON/OFF






POWER ON

Allows you to activate/deactivate the power on tones.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" and then  select "Power On/Off", press  "Power On".
- 2 Select "On" or "Off" with the Navigation Key and then press  to save it.

POWER OFF

Allows you to activate/deactivate the power off tones.





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" and then  select "Power On/Off", press  "Power Off".
- 2 Select "On" or "Off" with the Navigation Key and then press  to save it.

SETTINGS


ALARM SOUNDS


To select a ringer type for alarm sound:

ALARM TONE





1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" and then select  "Alarm Sounds", press  "Alarm Tone".


2 Select your desired ringer type.

- **Up or Down key** : 1. Get New or select your desired ringer type.
- Press  Play/Stop to Play/Stop the ringer.

3 Select one of the available ring types.
To confirm, press .

ALARM VIBRATE

1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds Settings" and then select  "Alarm Sounds", press  "Alarm Vibrate".

2 Select "On" or "Off" with the Navigation Key and then press  to save it.

SETTINGS

DISPLAY SETTINGS







Allows you to customize the display.

BANNER






You can choose to display a personal Banner greeting or the Enhanced Roaming Indicator (ERI) banner on the phone's screens:

PERSONAL

The text greeting can be up to 16 characters and is displayed on your phone's screen in standby mode.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Banner", press  "Personal".
- 2 Enter a new personal greeting.
To change the input mode, press  [Abc].
- 3 Press  to save it.

ERI BANNER






- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Banner", press  "ERI Banner".
- 2 Select "On" or "Off" with the Navigation Key then press  to save it.

SETTINGS






BACKLIGHT

Backlights the display and key pad and activates dimming for easy viewing in dark places.

DISPLAY SETTINGS

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Backlight", press  "Display Settings".
- 2 Select one of the following options with the Navigation Key.
 - Every 7 Seconds, 15 Seconds, 30 Seconds, Always On, Always Off
- 3 Press  to save it.




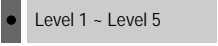

KEYPAD

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Backlight", press  "Keypad".
- 2 Select one of the following options with the Navigation Key.
 - Every 7 Seconds, 15 Seconds, 30 Seconds, Always On, Always Off
- 3 Press  to save it.







SETTINGS

CONTRAST

To adjust the display contrast:







- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Contrast".
- 2 Select "Main LCD" or "Sub LCD" then select one of the following options with the Navigation Key.

- 3 Press  to save it.

WALLPAPER





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Wallpaper".
- 2 Select Default to choose a pre-installed display, Downloads or PIX # to choose a display you have downloaded to your phone.
To launch "Get It Now", press  [GET NEW].
To expand selected image, press  [VIEW].
- 3 Select a display from the Animation and the Graphic list using the Navigation Key and press  to save it.

SETTINGS

SCREENSAVER





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Screensaver".
- 2 Select Default to choose a pre-installed display, Downloads or PIX # to choose a display you have downloaded to your phone.
To launch "Get It Now", press  [GET NEW].
To expand selected image, press  [VIEW].
- 3 Select a display from the Animation and the Graphic list using the Navigation Key and press  to save it.

DISPLAY THEMES

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Display Themes".
- 2 Select one of the following options with the Navigation Key.
 - Original
 - Business
 - Tropical
 - Blue
- 3 Press  to save it.




SETTINGS

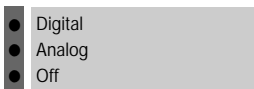
DIAL FONTS

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Dial Fonts".
- 2 Select "Normal" or "Large" with the Navigation Key then press  to save it.

CLOCK FORMAT

To change the main or front clock's appearance on the standby screen:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Display Settings" then select  "Clock Format".
- 2 Select "Main Clock" or "Front Clock" then select one of the following options with the Navigation Key.



- 3 Press  to save it.

SETTINGS

PHONE SETTINGS

STANDALONE MODE

- 1 Press **OK** [MENU], then select "Settings & Tools" menu, press **5** [5] "Phone Settings" then select **1** [1] "Standalone Mode".
- 2 Select "On" or "Off" with the Navigation Key then press **OK** to save it.

SET SHORTCUT KEY

Your phone offers you the option of assigning a shortcut key (Up, Down, Left, Right Navigation Key) to a favorite or often-used function. To assign a shortcut to the key:

- 1 Press **OK** [MENU], then select "Settings & Tools" menu, press **5** [5] "Phone Settings" then select **2** [2] "Set Shortcut Key".
- 2 Select **1** [1] "Left Key", **2** [2] "Up Key", **3** [3] "Right Key" or **4** [4] "Down Key".
- 3 Select one of the following options with the Navigation Key.





Get Yunes & Tones/Get Pix/Get Fun & Games/Get News & Info/
My Pix/My Ringtones/My Sounds/Inbox/Email/Chat/IM/
Settings & Tools/Alarm Clock/Calculator/Calendar

- 4 Press **OK** to save it.
- 5 To reset all already set shortcut key, press **5** [5] "Reset All", then select "Yes", press **OK**.

SETTINGS

LANGUAGE

Selects the language in which letters are displayed on the screen.





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Settings" then select  "Language".
- 2 Select "English" or "Spanish" with the Navigation Key.
- 3 Press  to save it.

SECURITY

Prevents unauthorized use of your phone. The following settings can be restricted:


LOCK MODE

Prevents the phone from being used without entering the password first.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Settings" then select  "Security", then enter your password, press  .



The default password is the last 4 digits of your phone number.





- 2 Select  "Lock Mode".
- 3 Select "Device" or "Location" then select one of the following options with the Navigation Key.
 - **Device** : Lock, Unlock, On Power Up
 - **Location** : Location On, E911 Only

- 4 Press  to save it.

SETTINGS




EDIT CODE

Changes your Device/Location 4-digit password.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Settings" then select  "Security", then enter your password, press .







The default password is the last 4 digits of your phone number.

- 2 Select  "Edit Code".
- 3 Enter a "New Code" then press .
- 4 Enter a "Confirm Code" then press  to save it.

SYSTEM SELECT

Selects the Preferred System.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Settings" then select  "System Select".
- 2 Select one of the following options with the Navigation Key.
 - Automatic B
 - Automatic A
 - Home Only
- 3 Press  to save it.






SETTINGS

NAM SELECTION

Enables Auto NAM (Number Assignment Modules) or manually selects a NAM.






AUTO NAM

Automatically switches phone to proper NAM when you have multiple NAM registrations.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Settings" then select  "NAM Selection", press  "Auto NAM".
- 2 Select "On" or "Off" with the Navigation Key then press  to save it.

CHANGE NAM

Changes the NAM used by the phone when you have multiple registrations.





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Settings" then select  "NAM Selection", press  "Change NAM".
- 2 Select one of the following options with the Navigation Key.
 - NAM 1 - VERIZON
 - NAM 2 - VERIZON
- 3 Press  to save it.

SETTINGS

CALL SETTINGS

ANSWER OPTIONS




To select an answer mode:

- 1** Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Answer Options".
- 2** Select one of the following with the Navigation Key.
 - Flip Open
 - Any Key
 - Send Only
 - Auto Answer
- 3** To save, press  .

SETTINGS


AUTO RETRY

Automatically redials a call up to 5 times after a set time interval.

1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Auto Retry".




2 Press the Navigation Key up or down to choose the amount of time.

- Off
- Every 3 Seconds
- Every 5 Seconds
- Every 7 Seconds
- Every 10 Seconds

3 To save, press  .


TTY MODE

Your phone is able to operate with a TTY (Teletypewriter) digital modes. This feature is system dependent and may not be available in all areas.

1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "TTY Mode".





2 Select one of the following with the Navigation Key.

- TTY Full
- TTY + TALK
- TTY + HEAR
- TTY Off

3 To save, press  .





SETTINGS

ONE TOUCH DIAL

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "One Touch Dial".
- 2 Select "On" or "Off" with the Navigation Key then press  to save it.

VOICE PRIVACY




Enhances voice privacy and avoids tapping during a call.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Voice Privacy".
- 2 Select "On" or "Off" with the Navigation Key, then press  to save it.


- **On** : Makes it more difficult to wire tap.

DATA SETTING

Choose the connection mode for the usage of your phone.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Data Setting".
- 2 Select one of the following connection modes with the Navigation Key.

- **Voice Call** : To receive a voice call.
- **Data Only** : To receive data when connected to PC.













- 3 To save, press  .

SETTINGS

VOICE SERVICES

VOICE DIAL






Voice Dial allows you to call a person by simply saying their name. To access Voice Dial:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Voice Services", press  "Voice Dial".
- 2 2.1. Press  [NEW]. The phone book list will be displayed alphabetically. Select a name then press  . Instructions (Press OK and say name) will be displayed and  . You will hear "Name Please".
2.2. Say the name for the voice tag and repeat the name when prompted. You will hear "Added".
- 3 To play a voice dial:
Highlight the voice tag you want to play then press  [PLAY].
- 4 To detail a voice dial:
Highlight the voice tag you want to detail view then press  [OPTIONS] then select "Detail".
- 5 To re-record a voice dial:
Highlight the voice tag you want to re-record then press  [OPTIONS] then select "Re-record".
- 6 To play back a voice dial entry through the speaker:
Highlight the voice tag you want to play, press  [OPTIONS] then select "Play Speaker".
- 7 To erase a voice dial entry or all voice dial entries:
Highlight the voice tag that you want to erase, press  [OPTIONS] then select "Erase" for a single entry or "Erase All" to erase all voice tags.

SETTINGS








VOICE SETTING

After turning on Set Active, open the flip to go on to VR mode. After turning on HFK mode, put Hands-free kit and say "wake up" to go on to VR mode.




- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Voice Services", press  "Voice Setting".
- 2 Under "Set Active", select a option "Off", "Send Key" or "Active Flip".
- 3 Under "HFK Mode", select a option "On" or "Off".
- 4 To save, press  .

VOICE MEMO

Voice Memo allows you to record a reminder message that can be up to 60 seconds. To record a memo:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Voice Services", press  "Voice Memo".
- 2 To record a voice memo, select "Record New", press  .
- 3 To start recording a voice memo, instructions (Press OK to start recording) will be displayed and  .
- 4 To stop recording a voice memo, press  [OK]. Stopping the recording will automatically save the entry. The list is sorted by dates with the most recent file on the top of the voice memo list.







SETTINGS

- 5** To play voice memo, select the voice tag you want to play then press  [PLAY].
To send voice memo, select the voice tag you want to send then press  [SEND] to access the "New PIX Msg" see "Send New PIX Message" on page 98.
If saved voice memo, press  [OPTIONS] to select one of the following options:

- Rename
- Erase
- Erase All

TRAIN WORD






Train allows you to use Control words to make a call without using the keypad. Use to train or untrain the Voice Recognition with the control word, "Yes", "No" or "Wake-Up".

- 1** Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "Voice Services", press  "Train Word".
- 2** Select one of the control words - "Yes", "No" or "Wake-Up". "Please begin recording after the prompt tone" will be displayed and you will hear "Now training control words. Please say the word". Say the word. You will hear "Again". Say the word again. You will hear "Training word successful". To undo voice recognition, select a word you want to undo then press  [UNDO].
- 3** Under "Undo Train All".
"Undo voice recognition for all procedures?" will be displayed. Press  to undo all trained words.

SETTINGS

DTMF TONES

To adjust tone length:

- 1** Press  [MENU], then select "Settings & Tools" menu, press  "Call Settings" then select  "DTMF Tones".
- 2** Select one of the following with the Navigation Key.

 - Normal
 - Long
- 3** To save, press  .

SETTINGS

MEMORY

MEMORY USAGE

- 1 Press **OK** [MENU], then select "Settings & Tools" menu, press **7 pps** "Memory" then select **1 :>** "Memory Usage".
- 2 You should see the "Total Used" memory size and "Available" memory size.
- 3 To return to the previous page, press **OK** .

MY PIX

- 1 Press **OK** [MENU], then select "Settings & Tools" menu, press **7 pps** "Memory" then select **2 abc** "My PIX".
- 2 You should see the download picture's memory size.
- 3 To return to the previous page, press **OK** .

MY SOUNDS

- 1 Press **OK** [MENU], then select "Settings & Tools" menu, press **7 pps** "Memory" then select **3 def** "My Sounds".
- 2 You should see the download sounds memory size.
- 3 To return to the previous page, press **OK** .





SETTINGS

PHONE INFO

Displays information about your phone:





MY NUMBER

Displays your phone number (MDN/MIN number and provider) :

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Info" then select  "My Number".
- 2 You should see the MDN/MIN number and service provider name.
- 3 To return to the previous page, press  .

SW VERSION





Displays the (Software/PRL/ERI/Browser/Get It Now) version.

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Phone Info" then select  "SW Version".
- 2 You should see the version of software and others.
- 3 To return to the previous page, press  .

SETTINGS

ICON GLOSSARY

Displays the Indicator Icons of your cellular telephone.








- 1** Press  [MENU], then select "Settings & Tools" menu, press  "Phone Info" then select  "Icon Glossary".
- 2** You should see a list of the Indicator Icons of your cellular telephone with a short label or description.
- 3** To return to the previous page, press  .

TOOLS

CALENDAR

Sets an event and reminds you of that event.


ADD NEW

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "Calendar".
- 2 Move the Navigation Key left, right, up or down to choose a date in the calendar then press  . Press  [OPTIONS] to 1. New, 2. Go To Date, 3. Erase Passed or 4. Erase All. Press  [MONTHLY/WEEKLY] to exchange display mode.
- 3 Press  [OPTIONS] to select "New", appointment field is highlighted. Press the Navigation Key down to set the alarm options.


APPOINTMENT

Use the keypad to enter an appointment to your schedule.

START TIME

Use the keypad to set a start time and  to select "am" or "pm".

END TIME

Use the keypad to set an end time and  to select "am" or "pm".

START DATE

Use the keypad to change or enter the start date.

RECURRENCE

Use the Navigation Key to select a setting for the repeating the calendar item. (Daily, Weekly, Monthly or Yearly).

TOOLS


BY COUNT

Use the keypad to enter the number of times you want an event to reoccur.

END DATE

Use the keypad to change or enter the end date.

TIME ZONES

Use the Navigation Key to select a time zone, press  [SET]. (OFF, EST, EDT, CST, CDT, MST, MDT, PST, PDT, AKST, AKDT, HAST, HADT or GMT/UTC).

ALERT



Use the keypad to select the alert tone you wish to set.

VIBRATE

Use the Navigation Key to select vibrate On/Off.

REMINDER





Use the Navigation Key to select an alert time interval option (0 Minutes, 5 Minutes, 10 Minutes, 15 Minutes).

4 Press  [SAVE] to save it or  [CLR] to return to the calendar.

5 The date of the event will be marked on your calendar.





VIEW PLAN LIST

1 To view the Calendar List.

2 Move the Navigation Key to choose an event then press  , press  [VIEW]. Press  [ERASE], then select "Yes", press  .

TOOLS


ALARM CLOCK

- 1** Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "Alarm Clock".
- 2** Select one of the entries using the Navigation Key. To set a new alarm, choose alarm 1, 2 or 3. To edit an existing alarm, select that alarm. Press  .
- 3** The setting field will be highlighted. Press the Navigation Key down to select alarm options.

ALARM

Use the Navigation Key to select alarm on/off.

TIME


Use the keypad to set a time for the alarm and  to select "am" or "pm".

FREQUENCY

Use the Navigation Key to select a setting for the alarm (Once, Daily, Mon - Fri, Weekends).

RINGER





Use the keypad to select the alert tone you wish to set.

- 4** To save an alarm setting press  [SAVE].

TOOLS


WORLD CLOCK

To display the time and date in pre-programmed cities:

- 1** Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "World Clock".
- 2** Select a city with the  [CITIES].
Or use the Navigation Key to select another city.
- 3** The world map appears with the city, its date and time.
Use the Navigation Key to select another city.



Pressing  [DST], turns all cities supporting Daylight Savings Time on or off.

- 4** To return to the previous page, press  .






TOOLS

NOTEPAD

Your phone includes an internal notepad that can be used to compose and store reminders and notes.










ADD MEMO

To compose a memo (there is an 80-letter limit):

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "Notepad".
- 2 To add a new memo, press  [NEW].
Input a new text memo.
(Please refer to page 31 for more details on entering letters, numbers & symbols.)
- 3 To save memo, press  [SAVE].

VIEW MEMO




To view a saved memo:



- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "Notepad".
- 2 The list of all memos, in saved order, is displayed. Select a memo then press  [VIEW].
- 3 The selected memo will appear.
To edit it, press  [EDIT] and input a new text memo, then press  [SAVE] to save it.
- 4
 - 4.1. To add a new memo, press  [NEW].
 - 4.2. To erase a memo, press  [OPTIONS] "Erase".
 - 4.3. To erase all memos, press  [OPTIONS] "Erase All".

TOOLS

CALCULATOR

To access the calculator:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "Calculator".
- 2 Follow the instructions below to calculate $8*6\div 4-2.5= 9.50$



Input 8.
Move the Navigation Key to the right.
Input 6 then press the Navigation Key.
Move it left.
Input 4 then press the Navigation Key.
Move it downward.
Input 2 then press the  to input (.).
Press 5.
Then press  and you will see the answer.



 : X,  : -,  : /,  : +,  : .,  : Clear,  : =.

- 3 To reset, press  [CLEAR].

















- To change the displayed number from positive (+) to negative (-) and vice versa, press  [\pm].
- If user press  [OPERATOR], you can insert parenthesis [()] or power [\wedge] functions into the equation.

TOOLS



STOP WATCH

Simultaneously times up to six different events. To operate the stop watch:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Tools" then select  "Stop Watch".
- 2 To measure a time period.
 1. To start the stop watch, press  [START].
 2. To pause it, press  [STOP].
 3. To resume it, press  [START].
To reset it, press  [RESET].
- 3 To time up to six events at once:
 1. To start, press  [START].
 2. To stop a time period and continue measuring another one, press  [CONT].
 3. To stop the second and continue measuring a third one, press  [CONT].
 4. To measure up to six time periods, repeat the above steps.
 5. To stop the stop watch, press  [STOP].
 6. To review the results, press  [VIEW].
 7. To return to the stop watch, press .
 8. To reset it, press  [RESET].

MY ACCOUNT

MY ACCOUNT

- 1** Press  [MENU], then select "Settings & Tools" menu, press  "My Account".
- 2** Connect "WAP Browser".

MEMO

Chapter 5

GET IT NOW






Your phone provides a unique feature -Get It Now- that enables you to download ringtones, wallpapers, games and more from your network to your phone. Please contact your service provider for the availability of these services.

■ GET IT NOW







GET IT NOW

GET TUNES & TONES

GET NEW RINGTONES







- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get Tunes & Tones" then select  "Get New Ringtones" then select "Get New". (Get It Now will launch and take you to the download menu.)
- 2** Use your navigation key to select a provider's browser, press  .
- 3** Use your navigation key to select "Ringtones" you wish to download, press  .


RECORDING NEW TONES



- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get Tunes & Tones", select  "My Sounds" then select "Record New".
- 2** To record a voice memo, press  . Instructions (Please OK to start recording) will be displayed and  and you will hear "Beep Sound".
- 3** To stop recording a memo, press  [STOP].


GET IT NOW

MY RINGTONES

- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get Tunes & Tones" then press  "My Ringtones".
- 2** To play downloaded ringtones. Select the tunes or tones you want to play, then press  [PLAY].
- 3** To assign downloaded ringtones. Select the Ringtone you want to assign, then press  [SET AS]. Select "Ringtone", "Contact ID" or "Alert Tone", then press  .







- By pressing  [SET AS], you can choose from the following:
 - 1. Ringtone**
 - 2. Contact ID**
 - 3. Alert Tone -**
 - 1. All Msg**
 - 2. TXT Msg**
 - 3. PIX Msg**
 - 4. Voicemail Msg**


- 4** To erase downloaded ringtones. Select the Ringtone you want to erase, then press  [OPTIONS]. Select "Erase", "Rename" or "Ringtone Info", then press  .


- By pressing  [OPTIONS], you can choose from the following:
 - 1. Erase**
 - 2. Rename**
 - 3. Ringtone Info**

GET IT NOW

MY SOUNDS

- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get Tunes & Tones" then press  "My Sounds".
- 2** To play downloaded sounds. Select the sound you want to play, then press  [PLAY].
- 3** To erase downloaded sounds. Select the sound you want to erase, then press  [OPTIONS]. Select "To PIX Place", "Lock", "Erase", "Erase All", "Rename" or "Sound Info", then press  .






- By pressing  [OPTIONS], you can choose from the following:
 - 1. To PIX Place**
 - 2. Lock**
 - 3. Erase**
 - 4. Erase All**
 - 5. Rename**
 - 6. Sound Info**

- 4** To send the PIX message, press  [SEND]. Please refer to page 98 for more details on "Send New PIX Message".

GET IT NOW





GET PIX

DOWNLOADING NEW PIX

- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get PIX", then select  "Get New PIX", then select "Get New". (Get It Now will launch and take you to the download menu.)
- 2** Use your navigation key to select a provider's browser, press  .
- 3** Use your navigation key to select a "PIX or FLIX" you wish to download, press  .

MY PIX

In Review Mode you can view all the pictures you have taken, store selected images in your phone, send pictures to the Online Album, delete images and access additional picture options.

- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get PIX", then select  "My PIX".
- 2** In Review Mode, you can view all the pictures you have stored in your phone.
- 3** Select picture with the Navigation Key, then press  [VIEW]. You can see detail picture.

GET IT NOW







- In detail view, user can view previous or next picture by pressing left or right navigation key.
- By pressing **...** [OPTIONS], you can choose from the following:
DOWNLOADED or TAKEN PIX :
 1. **Send:** To send a picture message.
 2. **To PIX Place:** To upload the selected picture to a PIX server.
 3. **Get New:** To download a "New PIX" through "Get It Now".
 4. **Set As:** Assigns the selected PIX to display for specific tasks. (Wallpaper/Screensaver/Picture ID).
 5. **Rename:** To edit the picture's title.
 6. **Lock/Unlock:** To select "Lock" or "Unlock".
 7. **Erase:** Erase the current picture from your phone.
 8. **Erase All:** To erase all the pictures in your phone.
 9. **PIX Info:** Displays information on the selected picture, such as File Name, Date, Time, Res and Size.**PRELOADED PIX :**
 1. **Get New:** To download a "New PIX" through the "Get It Now".
 2. **Set As:** Assigns the selected PIX to display for specific tasks. (Wallpaper/Screensaver/Picture ID).
 3. **Erase All:** To erase all the pictures in your phone.
 4. **PIX Info:** Displays information on the selected picture, such as File Name, Date, Time, Res and Size.
- Press **..** [CAMERA] to return to Camera mode to take another picture.




PIX PLACE

- 1 Press **OK** [MENU], then select "Get It Now" menu, then press **2 abc** "Get PIX", then select **3 def** "PIX Place".
- 2 Connect "Mobile Web" launches and connects you to "PIX Place".


GET IT NOW


TAKE PIX


- 1** Press  [MENU], then select "Get It Now" menu, then press  "Get PIX", then select  "Take PIX". Or press  or .
- 2** Point the camera lens at your subject. You can check the picture framing through the main display screen.
- 3** Press side camera key or press  to take the picture.


- Press  [My PIX], you can view the captured pictures.
- By pressing  [OPTIONS], you can choose from the following:
 - 1. Resolution:** To select a resolution for a picture. (480x640/240x320/120x160)
 - 2. Self Timer:** To activate the camera's timer function. (Off/3 Seconds/5 Seconds/10 Seconds)
 - 3. Flash:** To activate the flash function. (Off/On/Auto Flash/ Only This Shot)
 - 4. Brightness:** To brightness up & down (-2, -1, 0, +1, +2).
 - 5. White Balance:** To select white balance. (Auto/Sunny/ Cloudy/Tungsten/Fluorescent/Darkness)
 - 6. Shutter Sound:** To select a shutter sound. (Shutter/Silent/ Say "Cheez"/Ready! 123)
 - 7. Color Effects:** To select a color effects. (Normal/Antique/ Black & White/Negative)
 - 8. Sub LCD:** To take a picture using the Sub LCD.
By pressing  [OPTIONS], you can choose Sub LCD options: **1. Main LCD / 2. Self Timer / 3. Flash / 4. Shutter Sound**
- User can control zoom directly by pressing up and down navigation key.
Navigation Left / Right: Zoom up & down.

GET IT NOW

- 4 The picture taken should be displayed.
To save the picture, press  [SAVE].

To go back to idle mode without saving the picture, press  .

To take another picture without saving the picture you just took, press  [ERASE].

To send the picture to someone, press  [SEND].
Please refer to page 98 for more details on "Send New PIX Message".

GET IT NOW

GET FUN & GAMES

DOWNLOADING NEW FUN & GAMES

- 1 Press **OK** [MENU], then select "Get It Now", then press **3** [OK] "Get Fun & Games" then select **1** [OK] "Get New". (Get It Now will launch and take you to the download menu.)
- 2 Use your navigation key to select a provider's browser, press **OK** .
- 3 Use your navigation key to select a game you wish to download, press **OK** .
- 4 To save a downloaded fun or games to the "Get Fun & Games" list and to sort by alphabet order.



PLAYING DOWNLOADED FUN & GAMES

- 1 Press **OK** [MENU], then select "Get It Now", then press **3** [OK] "Get Fun & Games".
- 2 To play downloaded games. Select the game you want to play, then press **OK** [PLAY].
- 3 Selected "Mobile Web" game will launch.

GET IT NOW




GET NEWS & INFO

CONNECTING NEWS & INFO

- 1 Press  [MENU], then select "Get It Now" menu, then press  "Get News & Info".
- 2 Connect "Mobile Web".




GET GOING

CONNECTING GET GOING

- 1 Press  [MENU], then select "Get It Now" menu, then press  "Get Going" then select  "Get New".
- 2 "Get It Now" service will launch.

GET IT NOW INFO

Displays information about "App. Memory", "Content Memory", "View Log" and "Help":

- 1 Press  [MENU], then select "Get It Now" menu, then press  "Info".
- 2 Select one of the following options with the Navigation Key.
 - App. Memory
 - Content Memory
 - View Log
 - Help
- 3 To return to the previous page, press  .

Chapter 6

VOICE MAIL, TXT, PIX MESSAGING

This chapter addresses Voice Mail, TXT, PIX Messaging functions including:

- WHEN A NEW MESSAGE ARRIVES
- VOICE MAIL
- NEW MSG
- INBOX
- SENT
- DRAFTS
- E-MAIL
- MOBILE IM
- CHAT
- ERASE ALL
- SETTINGS

WHEN A NEW MESSAGE ARRIVES

- 1 The following display appears when a new message arrives.



- 2 To display the message, select "View Now", then press **OK**.

VOICE MAIL

Displays the number of voice mails and accesses them by pressing **SEND**.

- 1 Press **OK** [MENU], then select "Messaging" menu, press **5** [M] "Voice Mail" or press **..** [MESSAGES], press **5** [M] "Voice Mail".

FIRST TIME USER

- 1 Dial *86 then press **SEND** [SEND].
- 2 At the recording, press **END**.
- 3 To set up your account follow the voice tutorial.

EXISTING USER

- 1 Dial *86 then press **SEND** [SEND].
- 2 At the recording, enter your 4 digits password, then press **END**.
- 3 To listen to new messages, press **1** [M].

NEW MSG

SEND NEW TXT MESSAGE

- 1** Press **[MESSAGE]**, press **[1]** "New Msg", then press **[1]** "TXT Msg".
- 2** To send a message to a single address, under "To:" input the phone number manually and press the down key to move to the message field OR select from numbers stored in your phone book by pressing **[ADD]** to choose from the following:
 - 1. Contacts** : Search the phone numbers stored in the contacts list to add a phone number to the TXT message.
 - 2. Groups** : Search the groups stored in the contacts list.
 - 3. Recent Calls** : Search the phone numbers stored in the recent calls list to add a number to the TXT message.
 - 4. Graphics** : Inserts simple graphic image in TXT Msg.
 - 5. Sound** : Inserts a sound in the TXT Msg.
 - 6. Quick Text** : Inserts common phrases in a TXT Msg.
- 3** To send a message to multiple addresses, manually enter a number then add a space or comma before entering the next number OR select from numbers stored in your phone book by pressing **[ADD]** to choose from the following:

- 1. Contacts** : Search the phone numbers stored in the contacts list to add a phone number to the TXT message.
 - 2. Groups** : Search the groups stored in the contacts list.
 - 3. Recent Calls** : Search the phone numbers stored in the recent calls list to add a number to the TXT message.
 - 4. Graphics** : Inserts simple graphic image in TXT Msg.
 - 5. Sound** : Inserts a sound in the TXT Msg.
 - 6. Quick Text** : Inserts common phrases in a TXT Msg.
- You may enter up to 10 contacts.

NEW MSG







- 4** Under "Message", input a new TXT Message.
(Please refer to page 31 for more details on entering letters, numbers and symbols.)


- 5** Press  to send.




If anything has been entered in the TXT msg field and you exit the message, the input will be saved in "Drafts".

SEND NEW PIX MESSAGE


- 1** Press  [MENU], then select "Messaging" menu, press  "New Msg", then press  "PIX Msg" or press  [MESSAGE], press  "New Msg", then press  "PIX Msg".


- 2** Under "To", input the phone number and press  .

- By pressing  [ADD], you can choose from the following:
 - 1. Contacts** : Search the phone number which is stored in the contacts list.
 - 2. Groups** : Search the group which is stored in the contacts list.
 - 3. Recent Calls** : Search the phone number which is stored in the recent calls list.
 - 4. To PIX Place** : To send pictures by using online Address.









You may enter up to 10 contacts.


- 3** Under "Text", input a new TXT Message then press  .
(Please refer to page 31 for more details on entering letters, numbers and symbols. Max 1000 characters support.)


- By pressing  [OPTIONS].
Add Quick Text : Inserts already written sentences in TXT Msg.





NEW MSG

- 4 Under "PIX", only one picture can be inserted per message.
Press  [MY PIX], then select the picture you'd like to send and press .
 - 5 Under "Sound", only one sound can be inserted.
Press  [SOUNDS], then select the sound you'd like to send and press .
 - 6 Under "Subject", input a subject then press .
- (Please refer to page 31 for more details on entering letters, numbers and symbols. Max 100 characters support.)

- By pressing  [OPTIONS].
Add Quick Text : Inserts already written sentences in TXT Msg.





- 7 To preview a written picture message, press  [OPTIONS], then select "Preview".

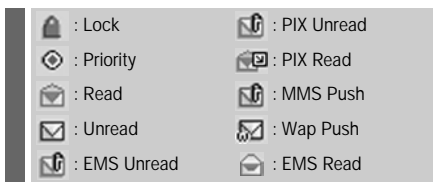
To save the PIX Message, press  [OPTIONS], then select "Save As Draft".





Press  [OPTIONS], then select "Priority Level", select "High" or "Normal", then press .
- 8 To add slide, press  [OPTIONS], then select "Add Slide".
- 8 To send the PIX Message, press  [SEND].

INBOX

The Inbox manages received TXT/PIX/WAP Push messages. To access:

- 1 Press  [MENU], then select "Messaging" menu, press  "Inbox" or press  [MESSAGE], press  "Inbox".





- 2 Select a message, then press  [OPEN]. The message is displayed. To delete a message, press  [ERASE], press  .
If you select "WAP Push" you will need to press  [GET] to launch the Browser and retrieve the message.

- 3 Press  [OPTIONS].


PLAY AGAIN

- 1 To play a sound from a received PIX Message.


FORWARD

- 1 To forward the TXT or PIX Message.
- 2 Input the phone number of the person you are sending the message, then press  .
- 3 Input any text message to go along with the forwarded message, then press  .

ERASE

- 1 To erase this message, select "Erase", then select "Yes", press .

REPLY W. COPY

- 1 To reply to a received message and include the received message into the message.
- 2 The default call back number is automatically included into the Default CB# field. You can scroll to the number and edit it.
- 3 To send the TXT or PIX message, press .

SAVE GRAPHIC

- 1 To save a picture to the "Save Graphic" folder.

SAVE SOUND

- 1 To save a sound to the "Save Sound" folder.


SAVE QUICK TEXT

- 1 Select to save received text msg to "Quick Text".



"Play Again", "Save Graphic", "Save Sound" menu appears only when you receive a PIX Message or EMS message.

LOCK/UNLOCK

- 1 To lock or unlock the TXT or PIX message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press .


ADD TO CONTACTS

- 1 Select to save number to contacts.

MESSAGE INFO





- 1 To show received PIX Message information.

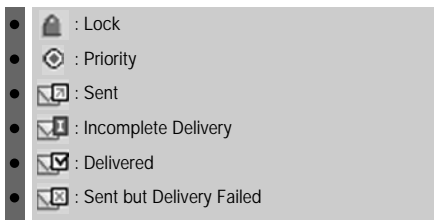






- "Message Info" menu appears only when you receive a PIX Message.
- Place a call to a received message number by simply pressing  .

SENT

Manages sent TXT/PIX messages or messages waiting to be sent.

- 1 Press  [MENU], then select "Messaging" menu, press  "Sent" or press , press  "Sent".





- 2 Select a message then press  [OPEN]. The message is displayed. To delete a message, press , press .
- 3 Press .

PLAY AGAIN

- 1 To play a sound from a received PIX Message.


FORWARD

- 1 To forward the TXT or PIX message.
- 2 Input the phone number of the person you are sending the message, then press .
- 3 Input any text message to go along with the forwarded message, then press .


RESEND

- 1 To resend a TXT or PIX message.

ERASE

- 1 To erase this message, select "Erase".
- 2 Select "Yes" or "No", then press .

LOCK/UNLOCK

- 1 To lock or unlock the TXT or PIX message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press .

ADD TO CONTACTS

- 1 Select to save number to contacts.


SAVE QUICK TEXT

- 1 Select to save received TXT Msg to "Quick Text".

MESSAGE INFO





- 1 To show received PIX Message information.

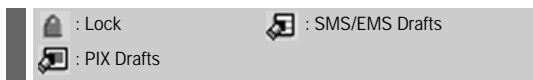






- "Message Info" menu appears only when you receive a PIX Message.
- Place a call to a received message number by simply pressing .

DRAFTS

Draft Folder contains any draft messages or saved messages. If message composition is interrupted by a voice call or other interrupting event, the text of the current composition is automatically saved in the drafts folder.

- 1 Press  [MENU], then select "Messaging" menu, press  "Drafts" or press  [MESSAGE], press  "Drafts".




- 2 Select a message then press  [EDIT]. The message is displayed. To delete a message, press  [ERASE], press  .
- 3 Press  [OPTIONS].

SEND

- 1 To send a selected message.





LOCK/UNLOCK

- 1 To lock or unlock the TXT or PIX message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press  .

ADD TO CONTACTS






- 1 Select to save number to contacts.

E- MAIL





- 1** Press  [MENU], then select "Messaging" menu, press  "E-mail" or press  [MESSAGE], press  "E-mail".
- 2** Launch "Mobile Web".

MOBILE IM





GET NEW

- 1 Press  [MENU], then select "Messaging" menu, press  "Mobile IM" or press  [MESSAGE], press  "Mobile IM" and then select  "Get New" with Navigation Key.
- 2 Launch "Get It Now".










MOBILE IM

- 1 Press  [MENU], then select "Messaging" menu, press  "Mobile IM" or press  [MESSAGE], press  "Mobile IM" and then select "Mobile IM" with Navigation Key.
- 2 Connect "Mobile IM".

CHAT

- 1** Press  [MENU], then select "Messaging" menu, press  "Chat" or press  [MESSAGE], press  "Chat".
- 2** Launch "Mobile Web".

ERASE ALL

- 1** Press  [MENU], then select "Messaging" menu, press  [OPTIONS] or press  [MESSAGE], press  [OPTIONS].
- 2**
 - 2.1. To erase all the inbox messages, press  [ERASE INBOX].
 - 2.2. To erase all the drafts messages, press  [ERASE DRAFTS].
 - 2.3. To erase the sent messages, press  [ERASE SENT].
 - 2.4. To erase the all message, press  [ERASE ALL].
- 3** Select "Yes", then press  .

SETTINGS

Set messaging preferences and default settings.

ALL MSG SETTINGS

AUTO SAVE

1 Press **OK** [MENU], then select "Messaging" menu, press **..** [SETTINGS] or press **..** [MESSAGE], press **..** [SETTINGS], press **1:..** "All Msg".

2 Press **1:..** [AUTO SAVE].
Select "On", "Off" or "Prompt" with the Navigation Key.

- On : All sent messages saved in the Sent box.
- Off : All sent messages not saved in the Sent box.
- Prompt : "Yes", "No" dialogue box displayed after sent message.

3 Press **OK** .

AUTO ERASE

Automatically erases inbox messages when new messages arrive.

1 Press **OK** [MENU], then select "Messaging" menu, press **..** [SETTINGS] or press **..** [MESSAGE], press **..** [SETTINGS], press **1:..** "All Msg".

2 Press **2:abc** [AUTO ERASE].
Select "On" or "Off" with the Navigation Key.











- On : Oldest message erased from inbox automatically when message is full.
- Off : Oldest message not erased from inbox automatically when message is full.

3 Press **OK** .

SETTINGS

QUICK TEXT








To edit the Quick Text message you have saved:

- 1** Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "All Msg".
- 2** Press  [QUICK-TEXT].
 - 2.1. Select a message from the list.
Press  .
 - 2.2. To add a new Quick Text message, press  [NEW], then enter text, press  .
- 3** To erase the saved Quick Text message, press  [ERASE].

Pre-defined quick text as below.

1. What's up?/2. Let's meet/3. Check this out!/4. Whacha doing?/5. Thanks/6. What do you think?/7. You've gotta be here to enjoy this/8. Would you like to join me for a date tonight?/9. On my way/10. Yes/11. You're the best!/12. Call me








VOICEMAIL#

- 1** Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "All Msg".
- 2** Press  [VOICEMAIL#].
Input a new voice call back number or edit voice call back number.
- 3** Press  .

SETTINGS








ENTRY MODE

Sets an Entry Mode as a default. For example, if Word Mode is the default, its icon will appear.

- 1 Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "All Msg".
- 2 Press  [ENTRY MODE].
Select "Word", "Abc", "ABC", "123" or "Symbols" with the Navigation Key.
- 3 Press  .

CALLBACK








Edits a default callback number so that the recipient can callback or reply.

- 1 Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "All Msg".
- 2 Press  [CALLBACK#].
- 3 Input a new callback number, press  .

SETTINGS

ALL MESSAGE SIGNATURE

Create a signature that can be automatically inserted at the end of all TXT and PIX messages.






- 1** Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "All Msg".
- 2** Press  [SIGNATURE].
- 3** To input "Signature", put the cursor on Edit Signature.
- 4** Press  .


SETTINGS

TXT MSG SETTINGS

AUTO VIEW

If the "Auto View" is set to on, the user will be able to view the message. If the "Auto View" is set to off, the user can view the message by entering SMS Menu-> Inbox.






1 Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  [2 abc].


2 Press  [AUTO VIEW].
Select "On" or "Off" with the Navigation Key.

- On : Text message displayed automatically.
- Off : Text message displayed by going to the inbox or responding to interactive notification.

3 Press  .

BLOCK/UNBLOCK

1 Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  [2 abc].

2 Press  [BLOCK/UNBLOCK].
Select "Block", "Unblock" or "View List of Blocked Addresses" with the Navigation Key.








- Block : Enter the address to block.
- Unblock : Enter the address to remove from block.
- View List of Blocked Addresses : Display the blocked list on LCD.

3 Press  .

SETTINGS

TXT MESSAGE SIGNATURE

Create a signature that can be automatically inserted at the end of a message.

- 1** Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "TXT Msg".
- 2** Press  [SIGNATURE].
- 3** To input "Signature", put the cursor on Edit Signature.
- 4** Press  .

SETTINGS

PIX MSG SETTINGS

AUTO RECEIVE

1 Press **OK** [MENU], then select "Messaging" menu, press **..** [SETTINGS] or press **..** [MESSAGE], press **..** [SETTINGS], press **3 def** "PIX Msg".

2 Press **1 +/-** [AUTO RECEIVE].
Select "On" or "Off" with the Navigation Key.

- On : PIX msg downloaded automatically.
- Off : PIX message must be retrieved from the inbox or at new TXT message prompt.

3 Press **OK** .

PIX MESSAGE SIGNATURE

Create a signature that can be automatically inserted at the end of a message.

1 Press **OK** [MENU], then select "Messaging" menu, press **..** [SETTINGS] or press **..** [MESSAGE], press **..** [SETTINGS], press **3 def** "PIX Msg".

2 Press **2 abc** [SIGNATURE].

3 To input "Signature", put the cursor on Edit Signature.

4 Press **OK** .

Chapter 7

MOBILE WEB 2.0


This chapter addresses Internet services and web browsing. For more detailed information contact your service provider.

- STARTING INTERNET BROWSER
- BROWSER MENU



STARTING INTERNET BROWSER

LAUNCHING MOBILE WEB 2.0

Now you can access news, sports, weather, and e-mail from your phone. Mobile Web 2.0 keeps you updated by providing access to up-to-date information such as news, sports, weather and stock quotes when you subscribe to Internet service with your service provider. Please contact your service provider for a list of available websites and service details.




- 1 To start your Internet browser and access websites through your wireless handset press .

BROWSER MENU

The browser menu lists the actions necessary to operate the browser. press , then press  [MENU].




VZW HOME

When the "VzW Home" item is selected from the Browser Menu, the phone displays the homepage.

- 1 To display the homepage.
Press , then press  [MENU] .

BACK




When the "Back" item is selected from the Browser Menu, the phone displays the previous page in the history.

- 1 To return to the previous page.
Press , then press  [MENU] .

BROWSER MENU




FORWARD

When the "Forward" item is selected from the Browser Menu, the phone displays the next page in the history. This is only available if the user has navigated backward in the history.

- 1 To forward to the next page.
Press  , then press  [MENU]  .




REFRESH

Selecting the "Refresh" item from the Browser Menu refreshes the current page.

- 1 To select "Refresh".
Press  , then press  [MENU]  .




HISTORY

The history list is available from the Browser Menu and the user may delete all items from the history.

- 1 To select "History".
Press  , then press  [MENU]  .




ADDRESS

Selecting the "Address" item from the Browser Menu displays the URL of the current page.

- 1 To select "Address".
Press  , then press  [MENU]  .




CLEAR MEMORY

The user may clear cache, history, cookies and auto fill from the memory.

- 1 To clear browser memory.
Press  , then press  [MENU]  .

BROWSER MENU

SETTINGS




1 To select "Settings".
Press  , then press  [MENU]  .

- **Downloads** : Selecting the "Downloads" item allows the user to enable/disable downloading images, background sounds, and object downloads when a URL is accessed.
- **Restart Browser** : Selecting "Restart Browser" causes the history and cache to be cleared and returns the user to the homepage.
- **Scroll Mode** : Selecting "Scroll Mode" from the Settings menu allows the user to select the way text scrolls and the scroll speed.
- **Send Referrer** : When the "Send Referrer" item is selected from the Settings menu, the browser allows the user to turn on or off sending the referrer URL.
- **Key Press Timeout** : When the "Key Press Timeout" item is selected from the Settings menu, the browser allows the user to set the key press timeout as fast, medium or slow. Medium is 1.5 seconds, slow 2 seconds and fast is 1 second. The key press timeout is the period of time after which the cursor auto-advances to the next entry position. In most cases, a single key can be used to enter more than one character. Each time the key is pressed the last character of the line is replaced by the next choice for that key. As long as the same key is re-pressed within key press timeout, the last character cycles between all the choices for the key.
- **Connection Timeout** : When the Connection Timeout item is selected from the Settings menu, the browser allows the user to set the connection timeout. The connection timeout determines how long the browser will wait for a response from the network for a network request.

BROWSER MENU

ADVANCED

Selecting the “Advanced” item in the Browser Menu displays the advanced menu items.





- 1 To select “Advanced”.
Press , then press  [MENU] .

- **About...** : When the “About” item is selected, information about the browser version, copyright information and certificate information is displayed.
- **Encryption** : Selecting the “Encryption” item from the Advanced Menu enables the user access to Encryption features of the browser.
 1. **Authentication** : The “Authentication” item in the Encryption menu allows the user to toggle authentication caching.
 2. **Root Certificate** : The “Root Certificate” item in the Encryption menu allows the user to view the list of certificates.
 3. **Current Certificate** : The “Current Certificate” item in the Encryption menu allows the user to view the current certificate. This is only available if a secure connection is established.

BROWSER MENU

EXIT

When the “Exit” item is selected from the Browser Menu, the user exits out of the browser and is returned to the phone idle mode.

-  To exit browser.
Press  , then press  [MENU]  .

Chapter 8

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone. Before operating your phone, please be aware of all the safety details.

This chapter contains the terms and conditions of services and the warranty for your phone. Please review them thoroughly.

- SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES
- SAFETY INFORMATION FOR FCC RF EXPOSURE
- SAR INFORMATION
- FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES
- FDA CONSUMER UPDATE
- PROTECT YOUR WARRANTY
- 12 MONTH LIMITED WARRANTY

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

*Read This Information Before Using Your Handheld
Portable Cellular Telephone*

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

1* : American National Standards Institute.

2* : National Council on Radiation protection and measurements.

3* : International Commission on Nonionizing Radiation Protection.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your phone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.



WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers :

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

BLASTING AREAS

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle’s engine.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.



DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.



DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.



DO NOT expose this equipment to rain or spilled beverages.



DO NOT use unauthorized accessories.



DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized Pantech cellular service center. If unit is disassembled, the risk of electric shock or fire may result.



DO NOT short-circuit the battery terminals with metal items etc.



WARNING!

- *This product contains a chemical known to the State of California to cause cancer.*
- *This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.*

SAFETY INFORMATION FOR FCC RF EXPOSURE



WARNING! Read this Information before using

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2.0 cm. from the body with a belt clip that contains metallic components. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories with which this device was tested. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.



For more information about RF exposure, please visit the FCC website at www.fcc.gov.

SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.25 W/Kg and when worn on the body, as described in this user guide, is 1.1W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The SAR testing for Body-worn operation was performed with a belt clip that provided a 20mm separation. The User's Manual indicates that any holsters/clips used with this device should contain no metallic components.

SAR INFORMATION

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 PP4PN-315.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>.

* 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.

FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

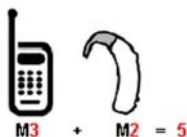
While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES

In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with “normal usage” while using their hearing aid with the particular wireless phone. “Normal usage” in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

For information about hearing aids and digital wireless phone

- **Fcc Hearing Aid Compatibility and Volume Control**
<http://www.fcc.gov/cgb/dro/hearing.html>
- **Gallaudet University, RERC**
<http://tap.gallaudet.edu/DigWireless.KS/DigWireless.htm>
- **Self Help for Hard of Hearing People Inc. [SHHH]**
www.hearingloss.org/hat/TipsWirelessPhones.htm
- **The Hearing Aid Compatibility FCC Order**
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf

FDA CONSUMER UPDATE



U.S. Food and Drug Administration - Center for Devices and Radiological Health
Consumer Update on Wireless Phones

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function;

and

- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones.

FDA CONSUMER UPDATE

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

FDA CONSUMER UPDATE

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)
- National Radiological Protection Board (UK) (<http://www.nrpb.org.uk/>)

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Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

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Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Pantech product. Be careful. Some of these products may not be compatible to use with your Pantech product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Pantech accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Pantech product.

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The antenna, key pad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

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- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company by calling the number listed below or to the place of purchase for repair or replacement processing.

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