

User Guide



CDM-8935

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This chapter provides important information about using the CDM-8935 including:

- INSIDE THE PACKAGE
- HANDSET DESCRIPTION
- DISPLAY INDICATORS
- BATTERY USAGE
- BATTERY HANDLING INFORMATION

BEFORE USING

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 cellular telephone.



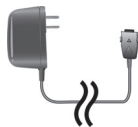
Handset



Standard Battery



User Guide



AC Travel Charger

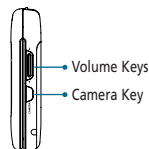
- The actual phone may be different from the picture.

HANDSET DESCRIPTION

BEFORE USING

This phone is a dual mode CDMA2000 1X digital phone. The CDM-8935 weighs 3.7 oz. The dimensions are "1.8" X 3.3" X 0.8".

PHONE VIEW



THE FUNCTION KEYS

Display Indicators

See page 11 for a list of icons.

THE NAVIGATION KEYS

In Idle Mode

Press Left for Shortcut key1,
Up for Shortcut key2,
Right for Shortcut key3 and
Down for Shortcut key4

Inside a menu

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

Speaker Phone On/Off
in idle.

Press to make or
receive a call.

Short press: Recent Calls.

Press and hold to display a
“+” sign for international
dialing.

Press and hold to enter
etiquette mode.

Text & Graphic area

Soft Key Indicators

Shows the functions
currently assigned
to each soft key and
displays some icons.

THE FUNCTION KEYS

Left Soft Key

Press to access the
Messaging menu or the
function displayed on the
bottom line.

Right Soft Key

Press to access contacts
menu or function
displayed on bottom line.

OK key

Press to access the main menu.

Press to adjust volume.

Press to Take PIX Viewfinder.

Press to turn the phone on/
off, to terminate a call or to
return to the initial page.

Clear

Press to clear a digit from
the display or to return to
the previous page.

DISPLAY INDICATORS



Signal Strength

Signal strength: the more lines, the stronger the signal.



Battery

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



Alarm

Appears when either a calendar or an alarm is set.



Bell_Alarm Only

Appears when a ringer is set as a Bell_Alarm Only mode.



Bell_Off

Appears when a ringer is set as a Bell_Off mode.



TTY

Indicates your phone is active in TTY mode.



Vibrate Only

Phone will vibrate when call is received.

■ DISPLAY INDICATORS



Text Message
New TEXT message.



Roaming
Phone is out of home area.



Voice Mail
New Voice Mail.



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



Voice Privacy
Indicates "Voice Privacy" mode.



No Service
Phone cannot receive a signal from the system.

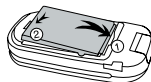


Speakerphone
Phone is in speakerphone mode.

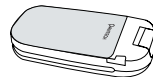
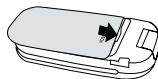
■ BATTERY INSTALLATION

As shown in the picture below, place the metal locators of the battery into the holes located in the bottom of the unit.

- 1 Insert the ridges of the battery into the holes located in the bottom of the unit.

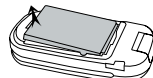
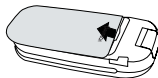


- 2 Press the battery cover case until the sound of a 'click' is heard.



■ BATTERY REMOVAL

- 1 Pull up the release latch, lift up the battery cover case.
- 2 Remove the battery from the handset.

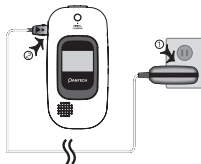


If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

■ BATTERY 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.



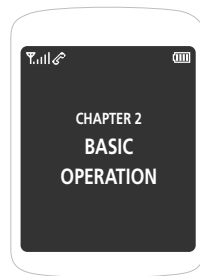
- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.
- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset 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.

■ DO's

- 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.
- Store the discharged battery in a cool, dark and dry place.
- Purchase a new battery when the operating time of the current battery has decreased gradually over time.
- 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.



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

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

■ TURNING THE PHONE ON



- 1 Press **END**, until animation appears and the wake up tone sounds.

■ TURNING THE PHONE OFF

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



- Immediately change or recharge the battery when "Low Battery Warning Power 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.

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

- 1 To access the menu in idle mode, press **OK** [MENU].
- 2 Use the  to scroll through the menu.
- 3 To return to the previous page, press **CLR**.
To exit the current menu and return to idle mode, press **END**.
- 4 Press the  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  as follows to access these functions:

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

BASIC OPERATION

MENU SUMMARY

MAIN MENU	2ND DEPTH	3RD DEPTH
1. Get It Now	1. Tunes & Tones 2. Pictures 3. Games 4. News & Info 5. Tools on the Go 6. Extras	1.1.1. Get New Ringtones 1.1.2. My Ringtones 1.1.3. My Sounds 1.2.1 Get New Pictures 1.2.2. My Pictures 1.2.3 Take Picture 1.2.4 Picture Place 1.3.1 Get New Applications 1.5.1 Get New Applications 1.6.1 Get New Applications
2. Messaging	1. New Message 2. Inbox 3. Sent 4. Drafts 5. Voicemail 6. Email 7. Mobile IM 8. Chat	2.1.1 TXT Message 2.1.2 Picture Message
3. Contacts	1. New Contact 2. Contact List 3. Groups 4. Speed Dials 5. In Case of Emergency 6. My Name Card	
4. Recent Calls	1. Missed 2. Received 3. Dialed 4. All 5. View Timers	

MENU SUMMARY

BASIC OPERATION

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
5. Settings & Tools	1. My Account 2. Tools 3. Sound Settings 4. Display Settings 5. Phone Settings	1. Voice Commands 2. Calculator 3. Calendar 4. Alarm Clock 5. World Clock 6. Notepad 7. Stop Watch 1. Call Sounds 2. Alert Sounds 3. Keypad Volume 4. Service Alerts 5. Power On/Off 1. Banner 2. Backlight 3. Wallpaper 4. Display Themes 5. Dial Fonts 6. Clock Format 1. Standalone Mode 2. Set Shortcut Key	1. Alarm 1 2. Alarm 2 3. Alarm 3 1. Call Ringtone 2. Call Vibrate 1. TXT Message 2. Picture Message 3. Voicemail 1. ERI 2. Minute Beep 3. Call Connect 1. Power On 2. Power Off 1. Personal Banner 2. ERI Banner 1. Display 2. Keypad 1. Main Screen 2. Front Screen 1. Main Clock 2. Front Clock 1. Left key 2. Up Key 3. Right Key 4. Down Key 5. Reset All

BASIC OPERATION

MENU SUMMARY

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
		3. Language 4. Location 5. Security	1. Lock Mode 2. Edit Code
	6. Call Settings	6. System Select 7. NAM Selection 1. Answer Options 2. Auto Retry 3. TTY Mode 4. One Touch Dial 5. Voice Privacy 6. Voice Service	1. Auto NAM 2. Change NAM
	7. Bluetooth Menu	7. DTMF Tones	1. Voice Dial 2. Voice Setting 3. Train words
	8. Memory	1. Add New Device 1. Memory Usage 2. My Pictures 3. My Sounds	
	9. Phone Info	1. My Number 2. SW Version 3. Icon Glossary	

BASIC FUNCTIONS

BASIC OPERATION

■ MAKING A CALL



① Enter a phone number.



To modify the phone number you have entered:

- Erase one digit at a time by pressing **CLR**.
- Erase the entire number by pressing and holding **CLR**.

To send the TXT or PIX message with phone number :

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

② Press **SEND**.



- If "CALL FAILED" appears on the display or the line is busy, press **END** or **SEND**.
- If you activate the "AUTO RETRY" function, the phone will automatically retry for the number of times you have selected. (refer to page 55).
- 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 **END**.

■ ANSWERING A CALL

- 1 When your phone rings or vibrates, press **SEND** 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 number key.)



To ignore incoming calls and silence the ringer, press ... [IGNORE].

- 2 To end the call, press **END**.

■ SPEAKERPHONE

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

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

■ CALLER ID

Identifies callers by displaying their phone number. If the caller's name and number are already stored in your phone book, the name will be displayed.



The caller ID information is stored in Recent Calls.

■ 3-WAY CALLING

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



- 1 Enter a number you wish to call and press **SEND**.
- 2 Once you have established the connection, enter the second number you wish to call and press **SEND**.
- 3 When you're connected to the second party, press **SEND** 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.

■ CALL WAITING

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.



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

■ ADJUSTING MASTER VOLUME

Adjust the volume of the master volume.

- 1 In idle mode, press the side volume key up or down.
- 2 Select one of the following options, then press **OK** [OK] to save it.

- All Sounds Off
- Alarm Only
- Vibrate Only
- Low / Medium Low / Medium / Medium High / High



- Move the Navigation Key up or down to adjust Earpiece volume during a call.
- Move the Side Volume Key up or down to adjust Earpiece volume during a call.

■ WAIT/2-SEC PAUSE

Pauses are used for automated systems (i.e., Voicemail, 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 pause, enter a phone number then press **...** [OPTIONS]. Select either a 2-Sec Pause ("P" appears) or a Wait ("W" appears).
- 2 Press **SEND** to dial or **...** [SAVE] to store.

Please refer to page 30 for more details about storing a phone number.

■ AVAILABLE OPTIONS 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.

Press **...** [MUTE].

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

CONTACTS

To select the phone number in your internal Contact List.

Press **...** [OPTIONS] **1** .

RECENT CALLS

To select the phone number in your recent calls List.

Press **...** [OPTIONS] **2** .

SEND TXT MESSAGE

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

Press **...** [OPTIONS] **3** .

VOICE PRIVACY

Increases security during a call.

Press **...** [OPTIONS] **4** .

BASIC OPERATION

MAKING AN EMERGENCY CALL

This 911 feature puts the phone in the Emergency Call Mode when you dial the preprogrammed emergency number, 911.



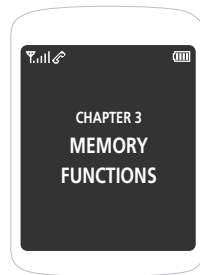
■ 911 USING ANY AVAILABLE SYSTEM

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

- ❶ Enter "911" and press **SEND**.
- ❷ The call connects.
- ❸ The phone maintains the Emergency Mode for 5 minutes.
 - 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 only make calls to the emergency number.



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



This chapter addresses memory functions including:

STORING A PHONE NUMBER

ENTERING LETTERS, NUMBERS & SYMBOLS

MAKING A CALL FROM THE PHONE BOOK

The phone book stores up to 500 entries.

- ① Enter phone # then press •• [SAVE] then choose "Add New Contact" or "Update Existing". Press **OK** [OK] to select.
- ② If "Add New Contact" 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 **OK** [OK] to select. If "Update Existing" is selected, your contact list is displayed. Choose the entry to add the phone number to, then press **OK** [OK]. Press the Navigation Key up or down to choose the type of number you're adding, as indicated by the icon. Press **OK** [OK] 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 you entered a phone number, press ... [OPTIONS] to select one of the following options:

- Set speed dial
- Save as default
- Add Pause

- ④ To store the entry, press **OK** [SAVE].
"CONTACT SAVED" will be displayed.

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) and standard all capitals (ABC), T9Word 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.

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]
0 ↺	Next Press to view the next matching word if the highlighted word is not the word you intended in Word input mode.
# 📞	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.
CLR	Clear Press to delete a character to the left of the cursor.
OK	OK Confirm the letters and numbers you entered.

■ STANDARD INPUT MODE

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

- 1 Enter letters using the key pad as follows:

Key Pad	Press 1 Time	Press 2 times	Press 3 times	Press 4 times	Press 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 **1**  to select the symbol you want to enter with the Navigation Key or press the corresponding numeric keys. 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 the entire entry, and entire numbers.
- 5 To change from lowercase to uppercase, press ***** .

■ 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], select "Word", then press **OK** [OK].
- 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 **0** .
- 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.

■ NUMERIC MODE

Allows you to enter numbers.

- 1 Select the Numeric mode by pressing •• [OPTIONS], select "123", then press **OK** [OK].
- 2 To enter a number, press a digit key.

■ SYMBOL MODE

Allows you to enter symbols.

- 1 Select the Symbol mode by pressing •• [OPTION], select "Symbols", then press **OK** [OK].
- 2 Select the symbol you want to enter with the  or press the corresponding numeric keys.

■ 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:

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

TWO-TOUCH DIALING:

10-96, 97, 98, 99: 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.



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

CONTACTS

RECENT CALLS

SETTINGS & TOOLS

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 contact entry.



- 1 To add a new entry to the phone book, press **OK** [MENU] **3** def, **1** @.
- 2 To enter a name or number, use the to select the contact fields.

- **Contact Fields:** Name/Mobile 1/Home/Work/Email 1/Group/Picture/Ringtone/Mobile 2/Fax/Email 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 Pictures" 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 To save the entry, press **OK** [SAVE].

To return to the previous page, press **CLR** .



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.

■ CONTACT LIST

Adds a new contact entry.



- 1 To add a new entry to the phone book, press **OK** [MENU] or press **...** [CONTACTS], then press **2** abc, "Contact List".
- 2 The list of names in your contact 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 **OK** [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. **New TXT Msg:** To create a TXT message.
4. **New Picture Msg:** To create a Picture message.
5. **Call:** To call the contact.
6. **Erase All:** To delete all contacts list.

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

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 **OK** [MENU], then press **3** def "Groups".
- ② To select "New", press •• [NEW].

- ③ Input a new group name.
- ④ To save it, press **OK** [SAVE].

ASSIGN PHONE NUMBER TO GROUP

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

CHANGE GROUP NAME

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

NEW TXT MSG. GROUP

- ➊ Press **OK** [MENU], then press **3** def "Groups".
- ➋ Select an existing group name with the .
- ➌ To select "New TXT Msg.", press **...** [OPTIONS].
- ➍ Input a "Message", press **...** [OPTIONS] to select "Save As Draft", "Add Graphic", "Add Sound", "Add Quick Text", "Priority Level" and "Cancel Message".
- ➎ 5.1. To send the TXT message, press **OK** [SEND].
5.2. To save the TXT message, press **...** [OPTIONS] then select "Save As Draft", then press **OK**.

NEW PICTURE MSG. GROUP

- ➊ Press **OK** [MENU], then press **3** def "Groups".
- ➋ Select an existing group name with the .
- ➌ To select "New TXT Msg.", press **...** [OPTIONS].
- ➍ Input a "Text", "PIX", "Sound", "Subject", press **...** [OPTIONS] to select "Preview", "Add Quick Text", "Save As Draft", "Priority Level", "Add Slide" and "Cancel Msg".
- ➎ 5.1. To send the Picture message, press **OK** [SEND].
5.2. To save the Picture message, press **...** [OPTIONS] then select "Save As Draft", then press **OK**.

ERASE GROUP

- ➊ Press **OK** [MENU], then press **3** def "Groups".
- ➋ Select an existing group name with the .
- ➌ To select "Erase", press **...** [OPTIONS].
- ➍ Select "Yes" to erase it, press **OK**.

■ 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.



ADD NEW GROUP

- ➊ Press **OK** [MENU] **3** def, **4** ghi.
- ➋ To assign a phone number to a location, select the location and press **OK** [SET].
- ➌ Select the entry with the  and press **OK** [OK].

- 4 Select phone number with the  and press **OK** [OK].



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

- 5 "SPEED DIAL SET" will be displayed.

■ IN CASE OF EMERGENCY



- 1 Press **OK** [MENU] **3** def , **5** jkl .

■ MY NAME CARD



- 1 Press **OK** [MENU] **3** def , **6** mno .
- 2 To view My Name Card, press **OK** [OPEN].

■ MISSED

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



- 1 To see a list of the 90 most recently answered calls, press **OK** [MENU] **4** ghi , **1** @ . If the number is already stored in your contact, only the name appears. If the number is not stored, only the phone number appears.

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



Call details include date, time and phone number.

- 3 Press **...** [MESSAGE] to send the TXT or Picture message.
Press **...** [OPTIONS] to see the options below:

- **Save:** To store the phone number in your phone book.
- **Erase:** To erase a received calls listing.
- **Lock/Unlock:** To lock or unlock a received calls listing.
- **Erase All:** To erase all received calls listings.
- **View Timers:** To display usage time.



After 90 missed calls, the oldest call will automatically be erased from the history.

■ RECEIVED

Displays information about the 90 most recently answered calls.

Place a call to a received call by simply pressing **SEND**.



- 1 To see a list of the 90 most recently answered calls, press **OK** [MENU] **4** ghi, **2** abc. 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 **OK** [OPEN].



Call details include date, time and phone number.

- 3 Press •• [MESSAGE] to send the TXT or Picture message. Press ••• [OPTIONS] to see the options below:

- **Save:** To store the phone number in your phone book.
- **Erase:** To erase a received calls listing.
- **Lock/Unlock:** To lock or unlock a received calls listing.
- **Erase All:** To erase all received calls listings.
- **View Timers:** To display usage time.



After 90 received calls, the oldest call will automatically be erased from the history.

■ DIALED

Displays information about the 90 most recently dialed numbers.

Place a call to a dialed call by simply pressing **SEND**.



- 1 To see a list of the 90 most recently dialed numbers, press **OK** [MENU] **4** ghi, **3** def. 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 **OK** [OPEN].



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

- 3 Press •• [MESSAGE] to send the TXT or Picture message. Press ••• [OPTIONS] to see the options below:

- **Save:** To store the phone number in your phone book.
- **Erase:** To erase a received calls listing.
- **Lock/Unlock:** To lock or unlock a received calls listing.
- **Erase All:** To erase all received calls listings.
- **View Timers:** To display usage time.



After 90 dialed calls, the oldest call will automatically be erased from the history.

■ 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 **OK** [MENU] **4** ghi , **4** ghi . 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 **OK** [OPEN].



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

- 3 Press **..** [MESSAGE] to send the TXT or Picture message. Press **...** [OPTIONS] to see the options below:

- **Save:** To store the phone number in your phone book.
- **Erase:** To erase a recent calls listing.
- **Lock/Unlock:** To lock or unlock a recent calls listing.
- **Erase All:** To erase all recent calls listings.
- **View Timers:** To display usage time.



After 270 received, dialed or missed calls, the oldest call will automatically be erased from the history when a new call is added.

■ 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 **OK** [MENU] **4** ghi , **5** jkl .
- 2 If "Last Call", "All Calls", "Received Calls", "Dialed Calls", "Roaming Calls", "Transmit Kb", "Received Kb", "Total Kb" is selected with .
To reset the timer, press **..** [RESET], then select "Yes", then press **OK** [OK].
To reset all timer, press **...** [RESET ALL], then select "Yes", then press **OK** [OK].
If "Last Reset", "Lifetime Calls", "Lifetime Data Count" is selected with .
To reset all timer, press **...** [RESET ALL], then select "Yes", then press **OK** [OK].
- 3 To return to the previous page, press **CLR** .

MY ACCOUNT



- 1 Press **OK** [MENU] **5** jkl , **1** @ .
- 2 Connect "WAP Browser".

TOOLS



VOICE COMMANDS

To access the Voice Commands:

- 1 Press **OK** [MENU] **5** jkl , **2** abc , **1** @ .

CALCULATOR

To access the Calculator:

- 1 Press **OK** [MENU] **5** jkl , **2** abc , **2** abc .
- 2 Follow the instructions below to calculate $8 \times 6 \div 4 - 2.5 = 9.50$

- Input 8.
- Press the Navigation Key rightward (*).
- Input 6.
- Press the Navigation Key leftward (/).
- Input 4.
- Press the Navigation Key downward (-).
- Input 2 and press ***** $\frac{\square}{\square}$ the to input (.)
- Press 5, **OK** .
- Answer appears on the right side of the grey box below calculation.

- 3 To reset, press **..** [CLEAR].



- To change the displayed number from positive (+) to negative (-) and vice versa, press **#** $\frac{\square}{\square}$ [$\pm$].
- Press **...** [OPERATOR] to use parenthesis and "Exponent".

CALENDAR

Sets an event and reminds you of that event.

ADD NEW PLAN

- 1 Press **OK** [MENU] **5** jkl , **2** abc , **3** def .
- 2 Move the $\leftarrow \rightarrow$ left, right, up or down to choose a date in the calendar and then press **OK** [OK].
Press **...** [OPTIONS] to 1. Weekly View, 2. Add, 3. Go To Date, 4. Erase Passed or 5. Erase All.

- ③ To set a new event, press **...** [OPTIONS] then select "Add".
The appointment field is highlighted. Press the  to set the alarm options.

- **APPOINTMENT**

Use the keypad to enter an appointment in 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  to select a repeat setting for the the calendar.
(Daily, Weekly, Monthly or Yearly).

- **BY COUNT**

Use the keypad to enter an account.

- **END DATE**

Use the keypad to change or enter the end date.

- **TIME ZONE**

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

- **ALERT**

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

- **VIBRATE**

Use the  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 **OK** [SAVE], then select "Yes" to save it or press **CLR** to return to the calendar.
- ⑤ The date of the event will be marked on your calendar.

VIEW PLAN LIST

To view the Calendar List:

- ① Move the  to choose an event and then press **OK** [VIEW]. Press **...** [OPTIONS] to 1. Monthly View, 2. Weekly View, 3. Add, 4. Go To Date, 5. Erase, 6. Erase Today or 7. Erase Passed.

ALARM CLOCK

- 1 Press **OK** [MENU] **5** jkl , **2** abc , **4** ghi .
- 2 Select one of the entries using the  .
To set a new alarm, choose alarm 1, 2 or 3.
To edit an existing alarm, select that alarm. Press **OK** [OK].
- 3 The setting field will be highlighted. Press the  to select alarm options.

• **ALARM**

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

• **RINGER**

Press **OK** [SET], to use the keypad to select the alert tone you wish to set.

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

WORLD CLOCK

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

- 1 Press **OK** [MENU] **5** jkl , **2** abc , **5** jkl .
- 2 Select a city with the .. [CITIES].
Or use the  to select another city.
- 3 The world map appears with the city, its date and time.
Use the  to select another city.



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

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

NOTEPAD

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

- 1 Press **OK** [MENU] **5** jkl , **2** abc , **6** mno .

ADD MEMO

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

- 1 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.)

- ② To save memo, press **OK** [SAVE].

VIEW MEMO

To view a saved memo:

- ① Press **OK** [MENU] **5** jkl , **2** abc , **5** jkl .
- ② The list of all memos, in saved order, is displayed.
Select a memo then press **OK** [VIEW].
- ③ The selected memo will appear.
To edit it, press **OK** [EDIT] and input a new text memo, then press **OK** [SAVE] to save it.
- ④ 4.2. To erase a memo, press •• [OPTIONS] "Erase".
4.1. To add a new memo, press ••• [NEW].
4.3. To erase all memos, press ••• [OPTIONS] "Erase All".

STOP WATCH

Simultaneously times up to six different events.

To operate the stop watch:

- ① Press **OK** [MENU] **5** jkl , **2** abc , **7** pqrs .
- ② To measure a time period.
1. To start the stop watch, press **OK** [START].
 2. To pause it, press **OK** [STOP].
 3. To resume it, press **OK** [START].
- To reset it, press ••• [RESET].

- ③ To time up to six events at once:
1. To start, press **OK** [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 **OK** [STOP].
 6. To review the results, press •• [VIEW].
 7. To return to the stop watch, press **OK** .
 8. To reset it, press ••• [RESET].

■ SOUNDS SETTINGS



CALL SOUNDS

To select a ringer type for incoming calls:

CALL RINGTONE

- ① Press **OK** [MENU] **5** jkl , **3** def , **1** @ , **1** @ .
- ② Select your desired ringer type.

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

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

CALL VIBRATE

- ① Press **OK** [MENU] **5** jkl , **3** def , **1** @ , **2** abc .
- ② Select "On" or "Off" with the  then press **OK** to save it.

ALERT SOUNDS

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

TXT MESSAGE

- ① Press **OK** [MENU] **5** jkl , **3** def , **2** abc , **1** @ .
- ② Select "Tone", "Vibrate" or "Reminder" with the  then select one of the following options by pressing the .
- **Tone:** 1. Get New App. 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 **OK**.

PICTURE MESSAGE

- ① Press **OK** [MENU] **5** jkl , **3** def , **2** abc , **2** abc .
- ② Select "Tone", "Vibrate" or "Reminder" with the  then select one of the following options by pressing the .

- **Tone:** 1. Get New App. 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 **OK**.

VOICEMAIL

- ① Press **OK** [MENU] **5** jkl , **3** def , **2** abc , **3** def .
- ② Select "Tone", "Vibrate" or "Reminder" with the  then select one of the following options by pressing the .

- **Tone:** 1. Get New App. 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 **OK**.

KEYPAD VOLUME

To select a keypad tone you will hear when you press a key:

- ① Press **OK** [MENU] **5** jkl , **3** def , **3** def .
- ② Select one of the following options with the  .

- High
- Medium
- Low
- Medium High
- Medium Low
- Off

- ③ Press **OK** [OK] to save it.

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 **OK** [MENU] **5** jkl , **3** def , **4** ghi , **1** @ .
- ② Select "On" or "Off" with the  then press **OK** 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 **OK** [MENU] **5** jkl , **3** def , **4** ghi , **2** abc .
- ② Select "On" or "Off" with the  then press **OK** to save it.

CALL CONNECT

Notifies you that a call has been successfully placed.

- ① Press **OK** [MENU] **5** jkl , **3** def , **4** ghi , **3** def .
- ② Select "On" or "Off" with the  then press **OK** to save it.

POWER ON/OFF**POWER ON**

Allows you to activate/deactivate the power on tones.

- ① Press **OK** [MENU] **5** jkl , **3** def , **5** jkl , **1** @ .
- ② Select "On" or "Off" with the  then press **OK** to save it.

POWER OFF

Allows you to activate/deactivate the power off tones.

- ① Press **OK** [MENU] **5** jkl , **3** def , **5** jkl , **2** abc .
- ② Select "On" or "Off" with the  then press **OK** to save it.

■ 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 BANNER

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

- ① Press **OK** [MENU] **5** jkl , **4** ghi , **1** @ , **1** @ .
- ② Enter a new personal greeting.
To change the input mode, press •• [Abc].
- ③ Press **OK** to save it.

ERI BANNER

- ① Press **OK** [MENU] **5** jkl , **4** ghi , **1** @ , **2** abc .
- ② Select "On" or "Off" with the then press **OK** to save it.

BACKLIGHT

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

DISPLAY

- ① Press **OK** [MENU] **5** jkl , **4** ghi , **2** abc , **1** @ .
- ② Select one of the following options with the .
 • **7 Seconds, 15 Seconds, 30 Seconds, Always On, Always Off**
- ③ Press **OK** to save it.

KEYPAD

- ① Press **OK** [MENU] **5** jkl , **4** ghi , **2** abc , **2** abc .
- ② Select one of the following options with the .
 • **7 Seconds, 15 Seconds, 30 Seconds, Always On, Always Off**
- ③ Press **OK** to save it.

WALLPAPER

- 1 Press **OK** [MENU] **5** jkl , **4** ghi , **3** def .
- 2 Select "Main Screen" or "Front Screen" then 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  and press **OK** to save it.

DISPLAY THEMES

- 1 Press **OK** [MENU] **5** jkl , **4** ghi , **4** ghi .
- 2 Select one of the following options with the  .
 - Default
 - Business
 - Tropical
 - Blue
- 3 Press **OK** to save it.

DIAL FONTS

- 1 Press **OK** [MENU] **5** jkl , **4** ghi , **5** jkl .
- 2 Select "Normal" or "Large" with the  then press **OK** to save it.

CLOCK FORMAT

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

- 1 Press **OK** [MENU] **5** jkl , **4** ghi , **6** mno .
- 2 Select "Main Clock" or "Front Clock".
If "Main Clock" selected, select one of the following options with the  .

- Digital
- Analog
- Off
- Blue

If "Front Clock" selected, select one of the following options with the  .

- Digital
- Analog
- Minimize
- Off

- 3 Press **OK** to save it.

PHONE SETTINGS

Sets an event and reminds you of that event.



STANDALONE MODE

- 1 Press **OK** [MENU] **5 jkl** , **5 jkl** , **1 @** .
- 2 Select "On" or "Off" with the 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] **5 jkl** , **5 jkl** , **2 abc** .
- 2 Select **1 @** "Left Key", **2 abc** "Up Key", **3 def** "Right Key" or **4 ghi** "Down Key".
- 3 Select one of the following options with the .

- Get It Now/Get Tunes & 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 jkl** "Reset All", then select "Yes", press **OK** .

LANGUAGE

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

- 1 Press **OK** [MENU] **5 jkl** , **5 jkl** , **3 def** .
- 2 Select "English" or "Spanish" with the .
- 3 Press **OK** to save it.

LOCATION

To determine whether or not the network system can detect your position:

- 1 Press **OK** [MENU] **5 jkl** , **5 jkl** , **4 ghi** .
- 2 Select "Location On" or "E911 Only" with the .

- **Location On:** Your location is now available to the network.
- **E911 Only:** Your location will be hidden from network & application except 911.

- 3 Press **OK** to save it.

SECURITY

Prevents unauthorized use of your phone.

The following settings can be restricted:

- 1 Press **OK** [MENU] **5 jkl** , **5 jkl** , **5 jkl** , then enter your password, press **OK** .



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

- ② Select **1** "Lock Mode".
- ③ Select "Device" or "Location" then select one of the following options with the .

- **Device** : Lock Now, Unlock, On Power Up
- **Location**: Lock, Unlock

- ④ Press **OK** to save it.

EDIT CODE

Changes your Device/Location 4-digit password.

- ① Press **OK** [MENU] **5** jkl , **5** jkl , **5** jkl , then enter your password, press **OK** .



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

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

SYSTEM SELECT

Selects the Preferred System.

- ① Press **OK** [MENU] **5** jkl , **5** jkl , **6** mno .
- ② Select one of the following options with the .

- **Automatic B**
- **Automatic A**
- **Home Only**

- ③ Press **OK** to save it.

NAM SELECT

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 **OK** [MENU] **5** jkl , **5** jkl , **7** pqrs , **1** .
- ② Select "On" or "Off" with the then press **OK** to save it.

CHANGE NAM

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

- 1 Press **OK** [MENU] **5** jkl , **5** jkl , **7** pqrs , **2** abc .
- 2 Select one of the following options with the  .

- NAM 1 - VERIZON
- NAM 2 - VERIZON

- 3 Press **OK** to save it.

CALL SETTINGS**ANSWER OPTIONS**

To select an answer mode:

- 1 Press **OK** [MENU] **5** jkl , **6** mno , **1** @ .
- 2 Select one of the following options with the  .

- Flip Open
- Any Key
- Send Only
- Auto Answer

- 3 Press **OK** to save it.

AUTO RETRY

Automatically redials a call after a set time interval.

To end a call, press **SEND** .

- 1 Press **OK** [MENU] **5** jkl , **6** mno , **2** abc .
- 2 Press the  up or down to choose the amount of time.

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

- 3 Press **OK** to save it.

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 **OK** [MENU] **5** jkl , **6** mno , **3** def .
- 2 Select one of the following options with the  .

- TTY Full
- TTY + Talk
- TTY + Hear
- TTY Off

- 3 Press **OK** to save it.

ONE TOUCH DIAL

- ① Press **OK** [MENU] **5** jkl , **6** mno , **4** ghi .
- ② Select "On" or "Off" with the  .
- ③ Press **OK** to save it.

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

- ① Press **OK** [MENU] **5** jkl , **6** mno , **5** jkl .
- ② Select "On" or "Off" with the  .

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

- ③ Press **OK** to save it.

VOICE SERVICES

VOICE DIAL

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

- ① Press **OK** [MENU] **5** jkl , **6** mno , **6** mno , **1**  .
- ② 2.1. Press **••** [NEW]. The contact list will be displayed alphabetically. Select a name then press **OK** .
Instructions (Press OK and say name) will be displayed and **OK** . 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 **OK** [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.

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 **OK** [MENU] **5** jkl , **6** mno , **6** mno , **2** abc .
- ② Under "Set Active", select a option "Off", "Send Key" or "Active Flip".
- ③ Under "HFK Mode", select a option "On" or "Off".
- ④ Press **OK** to save it.

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 **OK** [MENU] **5** jkl , **6** mno , **6** mno , **3** def .
- 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 **OK** to undo all trained words.

DTMF TONES

Enhances voice privacy and avoids tapping during a call.

- ① Press **OK** [MENU] **5** jkl , **6** mno , **7** pqrs .
- ② Select one of the following with the  .

- Normal
- Long

- ③ Press **OK** to save it.

■ BLUETOOTH MENUAdd New Device

- ① Press **OK** [MENU] **5** jkl , **7** pqrs , **1** @ .
- ② Select "Headset" or "Handsfree" with the  then press **OK** to save it.



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 TUNES & TONES



GET NEW RINGTONES

- 1 Press **OK** [MENU] **1**  , **1**  , **1**  .
- 2 Use your navigation key to select a provider's browser, press **OK** .
- 3 Use your navigation key to select "Ringtones" you wish to download, press **OK** .

MY RINGTONES

- 1 Press **OK** [MENU] **1**  , **1**  , **2** **abc** .
- 2 To play downloaded ringtones.
Select the tunes or tones you want to play, then press **OK** [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 **OK** .

- 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 **OK** .

- By pressing **•••** [OPTIONS], you can choose from the following:

1. Erase
2. File Info

RECORDING NEW TONES

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

MY SOUNDS

- 1 Press **OK** [MENU] 1  , 1  , 3 def .
- 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].

• By pressing ••• [OPTIONS], you can choose from the following:

1. To Pix Place
2. Rename
3. Lock/Unlock
4. Erase
5. Erase All
6. Sound Info

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

PICTURES



DOWNLOADING NEW PIX

- 1 Press **OK** [MENU] 1  , 2 abc , 1  .
- 2 Use your navigation key to select a provider's browser, press **OK** .
- 3 Use your navigation key to select a "Picture or FLIX" you wish to download, press **OK** .

MY PICTURES

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 **OK** [MENU] 1  , 2 abc , 2 abc .
- 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 **OK** [VIEW].
You can see detail picture.

- 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 PIX: 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).
 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.

MY PICTURES

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 **OK** [MENU] **1** , **2** **abc**, **3** **def** . 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 **OK** to take the picture.

- Press **••** [My Pics], you can view the captured pictures.
- By pressing **•••**[OPTIONS], you can choose from the following:
 1. Resolution: To select a resolution for a picture.
(640x480/320x240/160x120)
 2. Self Timer: To activate the camera's timer function.
(Off/3 Seconds/5 Seconds/10 Seconds)
 3. Brightness: To brightness up & down (-2, -1, 0, +1, +2).
 4. White Balance: To select white balance. (Auto/Sunny/Cloudy/Tungsten/Fluorescent/Darkness)
 5. Shutter Sound: To select a shutter sound. (Shutter/Silent/Say "Cheez"/Ready! 123)
 6. Color Effects: To select a color effects. (Normal/Antique/Black & White/Negative)
 7. Capture Mode: To select a capture mode. (Landscape/Portrait)
 8. Multi Shots:
 9. Sub Display: To take a picture using the Sub display.
By pressing **•••**[OPTIONS], you can choose
Sub Display options: 1. Main Display/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.

- ③ The picture taken should be displayed.
To save the picture, press •• [SAVE].

To go back to idle mode without saving the picture, press **END**.
To take another picture without saving the picture you just took, press ••• [ERASE].

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

PICTURE PLACE

- ① Press **OK** [MENU] **1** , **2** abc, **4** ghi .
② Connect "Mobile Web" launches and connects you to
"Picture Place".

■ GAMES



DOWNLOADING NEW GAMES

- ① Press **OK** [MENU] **1** , **3** def, **1**  .
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.

DOWNLOADING NEW GAMES

- ① Press **OK** [MENU] **1** , **3** def .
② To play downloaded games.
Select the game you want to play, then press **OK** [PLAY].
③ Selected "Mobile Web" game will launch.

■ NEWS & INFO



DOWNLOADING NEW GAMES

- ① Press **OK** [MENU] **1** , **4** ghi, **1**  .
② Connect "Mobile Web".

GET IT NOW

■ TOOLS ON THE GO



CONNECTING GET GOING

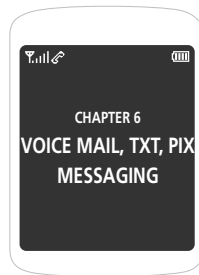
- ❶ Press **OK** [MENU] **1** , **5** jkl, **1**  .
- ❷ "Get It Now" service will launch.

■ EXTRAS



CONNECTING GET GOING

- ❶ Press **OK** [MENU] **1** , **6** mno, **1**  .
- ❷ "Get It Now" service will launch.



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** [OK].

■ VOICE MAIL

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



- 1 To access your voice mail, press **OK** [MENU] **2 abc** , **5 jkl** or **· ·** , **5 jkl** .

FIRST TIME USER

- 1 Dial *86 and press **SEND** .
- 2 At the recording, press **#** .
- 3 Follow the voice tutorial to set up your account.

EXISTING USER

- 1 Dial *86 and press **SEND** .
- 2 At the recording, enter your 4 digit password, then press **#** .
- 3 To listen to new messages, press **1** .

■ NEW MESSAGE

To send a new TXT and Picture message:



TXT MESSAGE

- 1 Press **OK** [MENU] **2 abc** , **1 @** , **1 @** or **· ·** , **1 @** , **1 @** .
- 2 Under "To", input the phone number and press .

- By pressing **· · ·** [ADD], you can choose from the following:
 1. **From Contacts:** Search for a phone number stored in the Contacts list.
 2. **Recent Calls:** Search for a phone number stored in the recent calls list.
 3. **Groups:** Search the groups stored in the contacts list.
 4. **To Contacts:** To store the phone number in contacts.

- 3 Under text filed, input a new text message.
(Please refer to page 33 for more details on entering letters, numbers and symbols.)

- By pressing **...** [OPTIONS], you can choose from the following:
 - Save As Draft:** To save message in draft folder.
 - Add Graphic:** Inserts simple graphic images in Text Msg.
 - Add Sound:** Inserts EMS sound in Text Msg.
 - Add Name Card:** Inserts Name Card.
 - Quick Text:** Inserts already written sentences in Text Msg.
 - Priority:** To select "Normal" or "High".
 - Cancel Msg:** To cancel message.
 - Font Size:** To select "Small/Normal/Lagre".

4 To send the text message, press **OK** [SEND].



- Input at least one text msg field to save in the draft box.

PICTURE MESSAGE

1 Press **OK** [MENU] **2** **abc**, **1** **@**, **2** **abc** or **..**, **1** **@**, **2** **abc**.

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

- By pressing **...** [ADD], you can choose from the following:
 - From Contacts:** Search for a phone number stored in the Contacts list.
 - Recent Calls:** Search for a phone number stored in the recent calls list.
 - Groups:** Search the groups stored in the contacts list.
 - To PIX Place :** To send pictures by using online Address.
 - To Contacts :** To store the phone number in your contact.



You may enter up to 10 contacts.

3 Under "Text", input a new TXT Message then press **OK**.

- By pressing **...** [OPTIONS], you can choose from the following:
 - Save As Draft:** To save message in draft folder.
 - Add Quick Text:** Inserts already written sentences in Text Msg.
 - Add Slide:** Inserts slide.
 - Priority:** To select "Normal" or "High".
 - Cancel Msg:** To cancel message.

4 Under "Picture", only one picture can be inserted per message. Press **..** [My Pics], then select the picture you'd like to send and press **OK**.

5 Under "Sound", only one sound can be inserted. Press **..** [SOUNDS], then select the sound you'd like to send and press **OK**.

6 Under "Subject", input a subject then press **OK**.
(Please refer to page 31 for more details on entering letters, numbers and symbols. Max 100 characters support.)

7 Under "Name Card", input a Name Card then press **OK**.

- 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 **OK**.
To add slide, press **...** [OPTIONS], then select "Add Slide".
To exit the message, press **...** [OPTIONS], and then select "Cancel Msg". (If you want to save the message, inputted message will be saved in "Drafts".)
- 8 To send the Picture Message, press **OK** [SEND].

■ INBOX

The Inbox manages received Text messages. To access:



- 1 Press **OK** [MENU] **2 abc**, **2 abc** or **..**, **2 abc**.
- 2 Select a message and press **OK** [OPEN].
The message is displayed.
- 3 To erase a received message press **..** [ERASE].
By pressing **...** [OPTIONS], the user can choose from the following:

REPLY

Type your reply and then press **OK** [SEND].

REPLY W. COPY

- 1 To reply to a received message and include the received message into the message:
- 2 Select to reply with the original message included.
- 3 The default call back number is automatically included in the Default CB# field.
- 4 To send the text message, press **OK** [SEND].

FORWARD

- ① To forward the Text message:
- ② Input the phone number of the person you are sending the message to, then press .
- ③ Input any Text message to go along with the forwarded message, then press **OK** [SEND].

LOCK & UNLOCK

Select "Lock" to lock the message or "Unlock" to unlock the message.

SAVE GRAPHICS

To save a graphic image. This option is only available if you are reading an enhanced (EMS) text message.

It will not display in a standard text message.

SAVE SOUND

To save a sound file. This option is only available if you are reading an enhanced (EMS) text message.

It will not display in a standard text message.

ADD TO CONTACTS

To save number to contacts.

ERASE INBOX

To erase all the inbox messages, select "Erase Inbox" and then select "Yes", press **OK** [OK].

MESSAGE INFO

To show received text message information.

■ SENT

Manages sent TEXT messages or messages waiting to be sent.



- ① Press **OK** [MENU] **2** abc , **3** def or **..** , **3** def .
- ② Select a message and press **OK** [VIEW].
The message is displayed.
- ③ To erase a sent message press **..** [ERASE].
By pressing **...** [OPTIONS], the user can choose from the following:

FORWARD

- ① To forward the Text message:
- ② Input the phone number of the person you are sending the message to, then press .
- ③ Input any Text message to go along with the forwarded message, then press **..** [SEND].

RESEND

Select to resend a TXT message.

LOCK & UNLOCK

Select "Lock" to lock the message or "Unlock" to unlock the message.

ADD TO CONTACTS

To save number to contacts.

MESSAGE INFO

To show received text message information.

■ 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 **OK** [MENU] **2 abc**, **4 ghi** or **••**, **4 ghi**.
- 2 Select a message and then press **OK** [EDIT].
The message is displayed.
- 3 To erase a draft message press **••**[ERASE].
By pressing **•••** [OPTIONS], the user can choose from the following:

SEND

To send a selected message.

LOCK & UNLOCK

Select "Lock" to lock the message or "Unlock" to unlock the message.

ADD TO CONTACTS

To save number to contacts.

ERASE DRAFTS

To erase all draft messages, select "Erase Drafts" or "Yes", and then press **OK** [OK].

■ E-MAIL



- 1 Press **OK** [MENU] **2 abc**, **6 mno** or **••**, **6 mno**.
- 2 Launch "Mobile Web".

■ MOBILE IM



GET NEW APP

- 1 Press **OK** [MENU] **2 abc**, **7 pqrs**, **1 @** or **••**, **7 pqrs**, **1 @**.
- 2 Launch "Mobile Web".

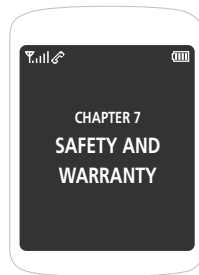
MOBILE IM

- 1 Press **OK** [MENU] **2 abc**, **7 pqrs**, **1 @** or **••**, **7 pqrs**, **1 @**.
- 2 Connect "Mobile IM".

■ CHAT



- 1 Press **OK** [MENU] **2** abc , **8** tuv or •• , **8** tuv .
- 2 Launch "Mobile Web".



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

**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 SAFETY

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Please contact your local dealer for replacement antenna.

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.

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.

ELECTRONIC DEVICES

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.

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. Therefore, use of your phone must be restricted in certain situations.

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.**

HEARING AIDS

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

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.

VEHICLES

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft. Always request and obtain prior consent and approval of an authorized airline representative before using your phone aboard an aircraft. Always follow the instructions of the airline representative whenever using your phone aboard an aircraft, to prevent any possible interference with airborne electronic equipment.

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.

SAFETY AND WARRANTY

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

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.

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.

Failure to follow the directions below could result in serious bodily injury and/or property damage due to battery liquid leakage, fire or rupture.

- 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

SAFETY AND WARRANTY

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.

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. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. 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.

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 1.04 W/Kg and when worn on the body, as described in this user guide, is 0.581W/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.

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 PP4L1.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site 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.

SAFETY AND WARRANTY

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.

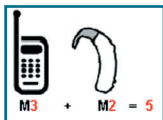
The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

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.



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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



**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. 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.

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/>)

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

“Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling, misuse, neglect or accident”.

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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IN CANADA: UTStarcom Canada Company
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UTStarcom Personal Communications (the Company) warrants to the original retail purchaser of this UTStarcom handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, 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:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (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.

When sending your wireless device to UTStarcom Personal Communications for repair or service, please note that any personal data or software stored on the device may be inadvertently erased or altered. Therefore, we strongly recommend you make a back up copy of all data and software contained on your device before submitting it for repair or service. This includes all contact lists, downloads (i.e. third-party software applications, ringtones, games and graphics) and any other data added to your device. In addition, if your wireless device utilizes a SIM or Multimedia card, please remove the card before submitting the device and store for later use when your device is returned, UTStarcom Personal Communications is not responsible for and does not guarantee restoration of any third-party software, personal information or memory data contained in, stored on, or integrated with any wireless device, whether under warranty or not, returned to UTStarcom Personal Communications for repair or service.

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 at the address shown below or to the place of purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 416-695-3060).

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state or province to province.

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U.S.FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

INFORMATION TO THE USER

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

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

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

FCC Compliance Information

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

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