



CDM8915



CDM8915

COLOR DISPLAY CAMERA PHONE

USER'S MANUAL



User Guide



CDM-8915

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This chapter provides important information about using the CDM-8915 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.



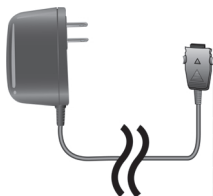
Handset



Standard Battery



User Manual



AC Travel Charger

HANDSET DESCRIPTION

BEFORE USING

This phone is a single mode CDMA2000 1X digital phone with camera and WEB browsing capabilities. The CDM-8915 weighs 3.8 oz. The dimensions are 1.9" X 3.4" X 1.0".

PHONE VIEW



THE FUNCTION KEYS

Display Indicators
See page 11 for a list of icons.

THE NAVIGATION KEYS In Idle Mode

Press Up for Phone Book
Down for Messaging. Left
for Mobile Web Browser
and Right for BREW
Inside a menu

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

Short Press
Go to Take Photo
Viewfinder

Speaker Phone
On/Off in idle.

Press to make or
receive a call.

Short press: Recent Calls.
Long press: Voice Dial.

Press and hold to enter
etiquette mode.



Text & Graphic area

Soft Key Indicators
Displays the functions
currently assigned to
each soft key and
displays some icons.

THE FUNCTION KEYS

Left Soft Key
Press to access the
main menu or
function displayed on
bottom line of LCD.

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

Short press OK key
Go to Take Photo
Menu
Long press OK key
Go to Take Photo
Viewfinder

Go to Take Photo
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.

Press and hold to enter
lock mode.

DISPLAY INDICATORS



Signal Strength

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



Roaming

Phone is out of home area.



Service Indicator

Indicates call is in progress or the phone cannot receive a signal from the system.



Message

New TEXT or voice message.



Digital Mode

Phone is operating in digital mode.



Battery

Battery power level - the more blocks, the more power you have left.



Mute

Phone is muted during a call.



Silent

Appears when Silent is selected as the ring mode.



Emergency call

Blinks when an emergency call is in progress.



Auto Answer

Phone is in answering machine mode.



Speaker Phone

Phone is in speaker phone mode.

**Etiquette**

Phone will vibrate when call is received.

**Schedule**

When the Schedule is set, the idle screen appears. The idle screen disappears if the schedule expires or is disabled.

**Alarm**

When the Alarm is set, the idle screen appears. The idle screen disappears if the alarm is in operation or disabled.

**Ring Mode**

Appears when a ringer is set for the ringer mode.

**Dormant**

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

**Data Only**

Phone is ready to receive a data call.

**GPS Icon**

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

**1X**

Phone is in the 1x service area.

**Scratch Pad**

Displays when scratch pad is in use during a call.

**UP Browser**

UP Browser is in use.

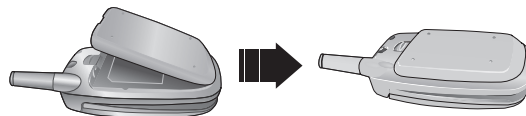
**Web Message Icon**

Phone has Web Alert message. (Web Message + TEXT Message + Voice Message)

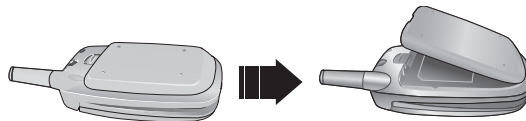
BATTERY INSTALLATION

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

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

**BATTERY REMOVAL**

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

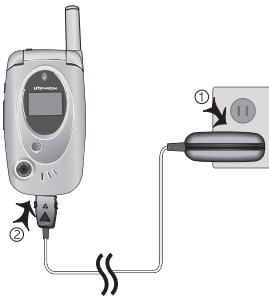


If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

■ BATTERY CHARGING

POWER CONNECTION

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



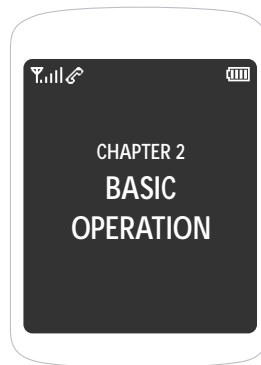
- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.
- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset 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.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark and dry place.
- Purchase a new battery when 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 and hold , until **"Power On"** Logo and animation appears and the wake up tone sounds.







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












■ TURNING THE PHONE OFF

- 1 Press and hold , until **"Power Off"** Logo and animation appears and the tone sounds.



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

- **Upward movement:** Phone Book
- **Downward movement:** Messaging
- **Rightward movement:** BREW
- **Leftward movement:** Mobile Web Browser

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
1. Phone Book	1. Find 2. Add New 3. Group 4. Speed Dial 5. Msg. Group 6. My Phone #	1. By Name 2. By Number	
2. Recent Calls	1. All Calls 2. Missed Calls 3. Received Calls 4. Dialed Calls 5. Call Timers	1. Last Call 2. All Calls 3. Home Calls 4. Roam Calls 5. Cumulative Calls	
3. Messaging	1. New Text Msg 2. New Photo Msg 3. Voice Mail 4. Inbox 5. Outbox 6. Web Alerts 7. Saved 8. Quick Text 9. Erase All 10. Settings	1. Inbox 2. Outbox 3. Saved 1. Auto Save 2. Auto Erase 3. Default Callback 4. Edit Voice C.B 5. Remind 6. Edit Signature 7. Direct View 8. Entry Mode 9. Block or Unblock	1. Old Inbox 2. Entire Inbox 1. Save sent MSG 2. Photo receive mode 1. Inbox 2. Outbox 1. Block 2. Unblock 3. View List of Blocked Address
4. BREW	1. BREW	BREW	

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
5. Mobile Web	1. Connect web		
6. Media Gallery	1. Images 2. PHOTO 3. Tones	1. Graphics 2. Animations	
7. Settings	1. Sounds 2. Display 3. Data Svc. 4. Security	1. Ringer Type 2. Volume 3. Alert 4. Roam Ringer 5. Tone Length 6. Etiquette 1. Menu Style 2. Graphics 3. Sub Screen 4. Greeting Message 5. Contrast 6. Backlight 1. Connection 1. Phone Lock 2. Restrict	1. Ringer 2. Messages 3. Voice Mail 1. Ringer 2. Key Tone 3. Voice Call 4. Speaker Phone 1. Minute 2. Roam 3. Connect 4. Fade 1. Wallpaper 2. Power On 3. Power Off 4. Received 5. Dialed 6. Screen Saver 1. Dialed 2. Recent Calls 3. Camera 4. Data Call 5. 900#s 6. Long Distance 1. Special #1 2. Special #2 3. Special #3

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
	5. Others	5. Erase All 6. Reset Phone 1. Answer Options	1. Call Answer 2. Active Flip 3. Auto Answer
	6. System	2. Auto Retry 3. Language 4. Voice Privacy 5. TTY Mode 6. Location 1. Set Mode 2. Nam Setting	1. Auto NAM 2. Change NAM
	7. Phone Info	3. PRL ID 1. S/W Version 2. H/W Version 3. BREW Version	
8. Tools	1. Voice Tools	1. Voice Memo	1. Record 2. Play 3. Play Speaker 4. Erase All
		2. Voice Dial	1. Record 2. Play 3. Play Speaker 4. Erase All
		3. Train Words	1. Yes 2. No 3. Wake-Up 4. Undo Train All
		4. Voice Setting	Set Active HFK Mode
	2. Schedule	1. Add New Plan 2. View Plan	
	3. Alarm	1. Alarm 1 2. Alarm 2 3. Alarm 3	
	4. Memo Pad	1. Add Memo 2. View Memo 3. Settings	
	5. Calculator		
	6. World Clock		
	7. Stop Watch		

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
9. Camera	1. Take a Photo 2. Photo Gallery 3. Photo Message	1. New Photo 2. Saved Photo	
	4. Help		



■ MAKING A CALL




- 1 Enter a phone number.



To modify the phone number you have entered:

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



To send a Text or Photo message to the phone number:


- Enter a part of the phone number, then press  [MENU], select "Send Text Msg or Send Photo Msg".
- Please refer to page 59 or page 61 for more details on "Create New Text Message or Create New Photo Message".

- 2 Press .


The indicator, , appears on the display.




- If "CALL FAILED" appears on the display or the line is busy, press  or .
- If you activate the "AUTO RETRY" function, the phone will automatically retry for the number of times you have selected. (refer to page 107).
- When you place or receive a call from stored phone numbers, both the name and phone number will be displayed.
- You may also place calls using Voice Activated Dialing (VAD) in the VR mode. Please refer to page 114 (Voice Services) for more details.
- If "Enter Lock Code" appears on the display enter your 4-digit password to unlock your phone. The default password is the last 4 digits of your phone number.


- 3 To end a call, press .

■ ANSWERING A CALL

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




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

- 2 To end the call, press .

■ SPEAKER PHONE

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

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





■ CALLER ID

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



The caller ID information is stored in Recent Calls.




■ ENTER LOCK MODE


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

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


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

■ 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 . This places the first call on hold. To switch back to the first caller, press  again.


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

■ WAIT/PAUSE

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



- 1 To insert a pause, enter a phone number then press  [MENU]. Select either a Hard Pause ("P" appears) or a Timed Pause ("T" appears).
- 2 Press  to dial or  [SAVE] to store.

 Please refer to page 34 for more details about storing a phone number.

■ ADJUSTING VOLUME

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



1 Select one of the following.

- **Ringer:** Controls the ringer volume.
- **Key Tone:** Controls the key pad tone.
- **Voice Call:** Controls the earpiece volume.
- **Speaker Phone:** Controls the speaker volume.

2 Adjust volume and press to save it.



Move the to adjust Earpiece volume during a call.

■ AVAILABLE OPTIONS DURING A CALL

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

MESSAGING

Enables you to send a message during a call.

Press [MENU] .

MUTE (UNMUTE)

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

Press [MENU] .

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

SCRATCH PAD

Stores a new phone number during a call without the calling party hearing the key pad tones.

Press [MENU] .

- Press [MENU] to deactivate it.

SEND MY PHONE

Automatically transmits your phone number to a pager during a call. (Dependent on pager service)

Press [MENU] .

MY PHONE

Displays your phone number.

Press  [MENU] .

VOICE PRIVACY

Increases security during a call.

Press  [MENU] .

LOCATION

Enables the network to locate your current location using Global Positioning System (GPS). (Refer to page 109 for more details.)


Press  [MENU] .

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



■ 911 IN LOCK MODE


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

- 1 Enter "911" and press .
- 2 The call connects.
- 3 The phone exits the Lock Mode for 5 minutes.

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

■ 911 USING ANY AVAILABLE SYSTEM

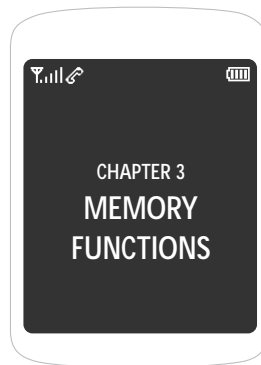
The 911 call service is available even in the lock mode.

- 1 Enter "911" and press .
- 2 The call connects.
- 3 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't make a call.



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 THROUGH THE PHONE BOOK

The phone book stores up to 300 entries.

- 1 Enter phone # then press [SAVE] then choose "New Contact" or "Existing Contact". Press to select.
- 2 If "New Contact" is selected, the phone number will appear above a list. Press to choose the type of number you're adding, as indicated by the icon. Press to select. If "Existing Contact" is selected, your contact list is displayed. Choose the entry to add the phone number to, then press . You will then see the phone number listed. Press to select.

- 3 Enter a name.
Please refer to page 35 for more details on entering letters, numbers & symbols.
To change the input mode, press [Abc].
Press to select other options.
If you entered a phone number, press [MENU] to select one of the following options:

- Send Text Msg
- Send Photo Msg
- Prefix
- Hard Pause
- Timed Pause

- 4 To store the entry, press [SAVE].
"New contact added!" will be displayed.

The input mode (Alpha editor) will automatically be activated when necessary to enter letters and numbers. As shown below, there are 4 available modes ; Standard input mode (Abc), T9Word input mode (T9Word), Numeric mode (NUM), 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 4 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. [T9Word][Abc][NUM][Symbols]
	Next Press to view the next matching word if the highlighted word is not the word you intended in T9Word 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. [T9Word], [T9WORD] and [T9word] indicate the predictive text input. Press and hold to change mode.
	Clear Press to delete a character to the left of the cursor.
	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  repeatedly, until the desired symbol appears (. @ ? ! - , & ; _ / ; ').

To change the input mode, press  [Abc].

- 2 To enter a space, press . The cursor will automatically move to the next column.
- 3 Repeat until letters are entered.
- 4 To delete one digit, press . Press and hold  to delete the entire entry.
- 5 To change from lowercase to uppercase, press .



■ T9WORD INPUT MODE

The T9Word input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A T9Word can be entered more quickly by pressing a key once per character.

- 1 Select the T9Word mode by pressing  [Abc].
- 2 Press a digit key once to enter the character you want then enter all the characters to input the word you want.
- 3 To view the next matching word, press .
- 4 To accept the matching word and enter a space, press .





To enter a compound word:

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






■ NUMERIC MODE




Allows you to enter numbers.

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

■ SYMBOL MODE

Allows you to enter symbols.

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

- Use the WEB, , ,  to view a different line of symbols.

■ ONE-TOUCH/TWO-TOUCH DIALING

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

ONE-TOUCH DIALING:

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

TWO-TOUCH DIALING:

10-20: 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, "There is no number" will appear on the screen.



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

PHONE BOOK
RECENT CALLS
MESSAGING
BREW
MOBILE WEB BROWSER
MEDIA GALLERY
SETTINGS
TOOLS
CAMERA

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

FIND

Retrieves an entry by name and number, and calls the number by simply pressing . You can review all the entries stored in your phone book list or find an entry quickly by entering all or part of a name.



BY NAME

Lists contacts alphabetically so you can quickly find a name.

- 1 Press [MENU] .
- 2 The list of names in your phone book is displayed alphabetically.
- 3 Enter a name or part of a name or scroll through the list with the **WEB**, , , . Please refer to page 35 for more details on entering letters, numbers & symbols.
- 4 All matching entries will be displayed. Highlight an entry. Press to edit the entry. Select the mobile number, then press [MENU] to 1. Send Text Msg, 2. Send Photo Msg, 3. Prefix or 4. Erase.

- If the entry is set to secret, you will be asked for your password.

- 5 To call the selected number, press .

BY NUMBER

Lists contacts numerically so you can quickly find a number.

- 1 Press [MENU] .
- 2 The list of phone numbers saved in your phone book will be displayed in numerical order.
- 3 Enter a part of the phone number or scroll through the list with the **WEB**, , , . The name associated with that number will be displayed at the bottom of the screen.
- 4 All matching entries will be displayed. Highlight an entry. Press to edit the entry. Press [MENU] to 1. Send Text Msg, 2. Send Photo Msg, 3. Prefix or 4. Erase.
 - If the entry is set to secret, you will be asked for your password.
- 5 To call the selected number, press .

■ ADD NEW

Adds a new entry.



- 1 To add a new entry to the phone book, press [MENU] .
- 2 To enter a name or number, use the **WEB**, , , to select the phone book field.

- **Phone Book Field:** Name/Mobile/Home/Office/Pager/Fax/E-Mail/Wireless Addr./Group/Ringer/Msg.Ringer/Graphic/Memo/Set Secret.



Please refer to page 35 for more details on entering letters, numbers & symbols.

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

■ GROUP

Allows you to classify phone entries into groups. Existing groups include Personal, Business, Etc. and All. A maximum of seven groups is allowed.



ADD NEW GROUP

- 1 To add a new group, press [MENU] .
- A maximum of seven groups is allowed.
- 2 Press [MENU] to select "Add Group".
- 3 Input a new group name.
- 4 Press to save it.

CHANGE GROUP NAME

- 1 Press [MENU] . Select an existing group name that you have added with the **WEB**, , , .
- 2 Press [MENU] to select "Rename".
- 3 Input a new group name.
- 4 Press to save it.



The default group names (All, Personal, Business, Etc.) cannot be changed.

ERASE GROUP

- 1 Press [MENU] . Use the WEB, , , to select, then delete the group.
- 2 Press [ERASE] to delete it.
- 3 Press to erase it.



- The default group names (All, Personal, Business, Etc.) cannot be erased.
- When using Erase Group, the saved entries are moved to the Etc. group.

SPEED DIAL

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



- 1 Press [MENU] .
- 2 To assign a phone number to a location, select the location and press [SET].

- If a phone number is already assigned to the location, press [ERASE] and to delete.

- 3 Select the entry with the WEB, , , and press .

- If the entry is set to secret, you will be asked for your password.



- "Unassigned" appears if the location is available.
- If a phone number is set as Secret, you will have to enter the password.
- To call an assigned number, press & hold the last digit of the speed dial #.

- 4 "Speed Dial # X edited!" will be displayed.

■ MSG. GROUPS

Allows the user to group up to 10 phone numbers. The user can add, change, and delete Msg.Groups.



ADD NEW MSG. GROUP

- 1 To add a new group, press [MENU] .
A maximum of five groups is allowed.
- 2 Press [MENU] to select "Add Group".
- 3 Input a new group name.
- 4 Press to save it.

CHANGE MSG. GROUP NAME

- 1 Press [MENU] . Select an existing group name with the , , , .
- 2 Press [MENU] to select "Rename".
- 3 Input a new group name.
- 4 Press to save it.

SEND TEXT MSG. GROUP

- 1 Press [MENU] . Select an existing group name with the , , , .
- 2 Press [MENU] to select "Send Text Msg".
- 3 Input a "Message", "Default CB#", "Priority", and "Insert Signature".
- 4 To send the text message, press [MENU] and select "Send" then press .
- 5 To save the text message, press [MENU] and select "Save to Outbox" then press .



Please refer to page 59 for more details on "Create New Text Message".

SEND PHOTO MSG. GROUP

- 1 Press [MENU] . Select an existing group name with the , , , .
- 2 Press [MENU] to select "Send Photo Msg".
- 3 Input a "Message", "Subject", "CC" and "BCC".
- 4 To send the photo message, press [MENU] and select "Send" then press .



Please refer to page 61 for more details on "Create New Photo Message".

ERASE MSG. GROUP

- 1 Press [MENU] . Select an existing group name with the , , , .
- 2 Press [ERASE] to delete it.
- 3 Press to erase it.

MY PHONE

To display your phone number and service provider:



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

ALL CALLS

Displays information about the most recent incoming, outgoing and missed calls.



- 1 To see a list of the 60 most recent received, dialed and missed calls, press [MENU] . 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 .



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

- 3 To save a selected number, press [MENU] then select "Save;" to delete the number, press [ERASE]]. Other menu options include:

- **Save:** To store the phone number in your phone book.
- **Prefix:** The user may add the desired number before the existing number. It is useful when you add *1* during a long distance call. You may save it in the phone book after Prefix.
- **Send Text Msg:** To send a Text Message, insert the phone number.
- **Send Photo Msg:** To send a photo message, insert the phone number.
- **Erase All:** To erase all recent calls.







After 20 received, dialed or missed calls, the oldest call will automatically be erased from the history when a new call is added.

■ MISSED CALLS

Displays information about the 20 most recently missed calls.



Place a call to a missed call number by simply pressing .



- 1 To see a list of the 20 most recently missed calls, press  [MENU]  . If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.
- 2 To view missed call details, press .



Call details include date, time and phone number.

- 3 To save a selected number, press  [MENU] then select "Save;" to delete the number, press  [ERASE]]. Other menu options include:


- **Save:** To store the phone number in your phone book.
- **Prefix:** The user may add the desired number before the existing number. It is useful when you add "1" during a long distance call. You may save it in the phone book after Prefix.
- **Send Text Msg:** To send a Text Message, insert the phone number.
- **Send Photo Msg:** To send a photo message, insert the phone number.
- **Erase All:** To erase all missed calls.







After 20 missed calls, the oldest call will automatically be erased from the history.

■ RECEIVED CALLS

Displays information about the 20 most recently answered calls.



Place a call to a received call by simply pressing .



- 1 To see a list of the 20 most recently answered calls, press  [MENU]  . 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 .



Call details include date, time and phone number.


- 3 To save a selected number, press  [MENU] then select "Save;" to delete the number, press  [ERASE]]. Other menu options include:

- **Save:** To store the phone number in your phone book.
- **Prefix:** The user may add the desired number before the existing number. It is useful when you add "1" during a long distance call. You may save it in the phone book after Prefix.
- **Send Text Msg:** To send a Text Message, insert the phone number.
- **Send Photo Msg:** To send a photo message, insert the phone number.
- **Erase All:** To erase all received calls.







After 20 received calls, the oldest call will automatically be erased from the history.

■ DIALED CALLS



Displays information about the 20 most recently dialed numbers. Place a call to a dialed call by simply pressing .



- 1 To see a list of the 20 most recently dialed numbers, press  [MENU]  . 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 .



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

- 3 To save a selected number, press  [MENU] then select "Save;" to delete the number, press  [ERASE]]. Other menu options include:

- **Save:** To store the phone number in your phone book.
- **Prefix:** The user may add the desired number before the existing number. It is useful when you add "1" during a long distance call. You may save it in the phone book after Prefix.
- **Send Text Msg:** To send a Text Message, insert the phone number.
- **Send Photo Msg:** To send a photo message, insert the phone number.
- **Erase All:** To erase all dialed calls.



After 20 dialed calls, the oldest call will automatically be erased from the history.

■ CALL TIMERS

Checks the usage time and manages your calls within the limit you set. The five timers include:







LAST CALL

Displays usage time of last call.

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

ALL CALLS

Displays usage time of all incoming and outgoing calls, excluding web access calls.

- 1 Press  [MENU]   .
- 2 View the time of the following items:

- Voice Call
- Data Call

- 3 To return to the previous page, press .

HOME CALLS

Displays usage time of all calls made within Home area.

1 Press [MENU] .

2 View the time of the following items:

- Voice Call
- Data Call

3 To reset the timer, press [RESET].
To return to the previous page, press .

ROAM CALLS

Displays usage time of roaming calls.

1 Press [MENU] .

2 View the time of the following items:

- Voice Call
- Data Call

3 To reset the timer, press [RESET].
To return to the previous page, press .

CUMULATIVE CALLS

Displays usage time of all incoming and outgoing calls, excluding web access calls.

1 Press [MENU] .

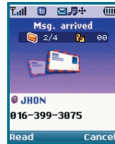
2 View the time of the following items:

- Voice Call
- Data Call

3 To reset the timer, press [RESET].
To return to the previous page, press .

■ WHEN A NEW MESSAGE ARRIVES

- 1 The following display appears when a new message arrives.
- 2 To display the message, press [READ].



■ VOICE MAIL

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



- 1 To access your voice mail, press [MENU] or .

FIRST TIME USER (Voice mail set-up may vary by carrier)

- 1 Dial Voice mail access number and press .
- 2 At the recording, press .
- 3 Follow the voice tutorial to set up your account.

EXISTING USER

- 1 Dial Voice mail access number and press .
- 2 At the recording, enter your 4 digit password, then press .
- 3 To listen to new messages, press .

■ CREATE NEW TEXT MESSAGE

To send a new message:









- 1 Press [MENU] or .
- 2 Under "Send To", input the phone number and press .

- By pressing [MENU], you can choose from the following:
 1. **Find:** Search for a phone number stored in the phone book.
 2. **Save:** Stores the phone number the message was sent to.
 3. **Msg. Group:** Select all the phone numbers in a group.

- 3 Under "Message", input a new text message and press .








- By pressing [MENU], in the message input screen you can choose from the following:
 1. **Insert Quick Text:** Inserts previously saved sentences.
 2. **Insert Sound:** Inserts sound in a Text Msg.
 3. **Insert Picture:** Inserts a photo in a Text Msg.
 4. **Insert Animation:** Inserts Animation in a Text Msg.
 5. **Save to Quick Text:** Save to Quick Text function saves the written sentences to the Quick Text list.


- 4 The default call back number is automatically inputted into the Default CB# field. You can scroll to the number and edit it or simply press  [EDIT].
- 5 Press  for more fields. Under "Priority", select "Normal" or "Urgent".
- 6 Under "Insert Signature", select "On" or "Off" to insert a preset signature.
- 7 To send the Text message, press  [MENU], select "Send" then press .
- 8 To save the Text message, press  [MENU], select "Save to Outbox" then press .


■ CREATE NEW PHOTO MESSAGE

To send a new photo message:




- 1 Press  [MENU]   or  .
- 2 Phone goes into camera mode automatically. Take a photo and press .
- 3 Under "Send To", input the phone number and press .

- By pressing  [MENU], you can choose from the following:
 1. **Find:** Allows the user to search the phone numbers stored in the phone book.
 2. **Save:** Stores the phone number the message was sent to.
 3. **Msg. Group:** Allows you to select all the phone numbers in a group.
 4. **Online Album:** To send pictures using the online Address Book.


- 4 Under "Message", input a new text message and press .


- By pressing  [MENU], in the message input screen you can choose from the following:
 1. **Take Photo:** To take a new photo.
 2. **Voice Record:** To record a voice memo.
 3. **Insert Q.Text:** To insert a previously saved sentence.
 4. **Insert/Delete Photo:** To insert/delete a photo from your photo gallery.
 5. **Insert/Delete Sound:** To insert/delete a sound in a Photo Msg.
 6. **Insert/Delete Slide:** To insert/delete a slide in a Photo Msg.
 7. **Slide Duration:** To select a slide duration time.





- 5 Under "Subject", input a message subject and press .




Please refer to page 35 for more details on entering letters, numbers and symbols.

- 6 To send a message to another person, select "CC" or "BCC" and input the phone numbers, then press .

- By pressing  [MENU], you can choose from the following:
 1. **Find:** Allows the user to search the phone numbers stored in the phone book.
 2. **Save:** Stores the phone number the message was sent to.
 3. **Msg. Group:** Allows you to select all the phone numbers in a group.

- 7 To send the photo message, press  [MENU], select "Send", then press .
- 8 To save the photo message, press  [MENU], select "Save to Outbox", then press .

- By pressing  [MENU], you can choose from the following:
 1. **Send:** To send a photo message.
 2. **Preview:** To preview a written photo message.
 3. **Send to Outbox:** To save a message to "Outbox" folder.
 4. **Priority:** To select priority "Normal" or "High".
 5. **Expiration:** To select expiration time "Off", "1 day", "2 days", "3 days", "4 days" or "5 days".

■ INBOX

The Inbox manages received Text or Photo messages. To access:



- ❶ Press [MENU] or .
- ❷ Select a message and press .
The message is displayed. To delete a message, press [ERASE].
- ❸ By pressing [MENU], the user can choose from the following:

PHOTO INFO

To show photo message information.



"Photo Info" menus appear only when you receive a photo message.

PLAY SLIDE SHOW

- ❶ One photo message is comprised of 3 slides, each of which can contain photo, sound and texts.
- ❷ The Slide Show displays each slide every 5 seconds and ends after repeating once.



"Play Slide Show" menus appear only when you receive a photo message.

REPLY

Type your reply and then press .

REPLY WITH COPY

- ❶ To reply to a received message and include the received message into the message:
- ❷ The default call back number is automatically inputted into the Default CB# field. You can scroll to the number and edit it.
- ❸ Under "Insert Signature", select "On" or "Off".
- ❹ To send the Text message, press [SEND].
- ❺ To save the Text message, press [MENU], select "Save to Outbox", then press .

FORWARD

- ❶ To forward the Text message:
- ❷ Input the phone number of the person you are sending the message to, then press .
- ❸ Input any Text message to go along with the forwarded message, then press .

SAVE MEDIA

To save a photo to the media gallery folder.



"Save Media" menu appears only when you receive a photo message or EMS message.

SAVE TO CONTACT

To save number to contact.

SAVE TO SAVED

To save the Text message in your phone.


SAVE TO QUICK TEXT

To save received Text message to "Quick Text".

BLOCK SENDER

To block all incoming messages from addresses on block list.

LOCK & UNLOCK

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

■ OUTBOX

Manages sent TEXT messages or messages waiting to be sent.











- ① Press  [MENU]   or  .
- ② Select a message and press  .
The message is displayed. To delete a message, press  [ERASE].
- ③ By pressing  [MENU], the user can choose from the following:

PHOTO INFO

To show photo message information.





"Photo Info" menus appear only when you receive a photo message.

RESEND

To resend a Text message.

EDIT MESSAGE

- ① To send a message to another person:
- ② Input a Text message and press .
- ③ Input the phone number and press .


SAVE TO CONTACT

To save number to contact.

SAVE TO SAVED

To save the Text message in your phone.

LOCK & UNLOCK

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








STATE




To display the status of an outbox message:



"State" menu appears only when you send a text message.

■ WEB ALERTS

- ① Press  [MENU]   or  .
- ② To select GoTo, press  .
To select Erase Message, press .
- ③ The Web Alerts message will be displayed.

- []: Read Message.
- []: Unread Message.
- []: Displays the remaining text.
- **GoTo**: Connecting Selected Site.
- **Erase**: Erase Selected Message.

■ SAVED MESSAGES

Manages saved messages from the Inbox/Outbox.



- 1 Press [MENU] or or .
- 2 Select a message and press .
The message is displayed. To delete a message, press [ERASE].
- 3 Pressing [MENU], the user can choose from the following:
- 4 If the Text message is saved from the "Inbox" menu, this screen will be displayed.

*Photo Info, *Play Slide Show, Reply, Reply With Copy, Forward, Save to Quick Text, *Save Media, Block Sender, Save to Contact, Lock & Unlock

- 5 If the Text message is saved from the "Outbox" menu, this screen will be displayed.

*Photo Info, Resend, Edit Message, Save to Contact, Lock & Unlock, *State



- **Photo Info** or **Play Slide Show** menu only appears when you receive a photo message.
- **Save Media** menu appears only when you receive a photo message or EMS message.
- **State** menu appears only when you send a text message.

■ QUICK TEXT

To edit the Quick Text message you have saved:



- 1 Press [MENU] or or .
- 2 Select a message from the list. Press [MENU].
To add a new Quick Text message, select "Add New". To edit the Quick Text message you have selected, select "Edit".
- 3 To erase the saved Quick Text message, press [ERASE].

■ ERASE ALL MESSAGES



- 1 Press [MENU] or or .
- 2 To erase all the inbox messages, press .

- **Old Inbox:** To erase all messages already read.
- **Entire Inbox:** To erase all messages.

- 3 To erase all the outbox messages, press .
- 4 To erase the saved messages, press .
- 5 Select "OK" or "Cancel" with or [CANCEL].

■ SETTINGS

Manages messaging features through various features.



AUTO SAVE

SAVE SENT MSG

- 1 Press [MENU] or .
- 2 Select either "Off", "On" or "Prompt" with the then press .

PHOTO RECEIVE MODE

Controls whether photos are received automatically or if you are prompted to accept them.

- 1 Press [MENU] or .
- 2 Select "Automatic" or "Prompt" with then press .

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

INBOX

- 1 Press [MENU] or .
- 2 Select "Disable" or "Enable" with then press .

OUTBOX

- 1 Press [MENU] or .
- 2 Select "Disable" or "Enable" with then press .

DEFAULT CALLBACK

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

- 1 Press [MENU] or .
- 2 Input a callback number, then press .

- You can look it up from the phone book by pressing [FIND].

EDIT VOICE CALLBACK

- 1 Press [MENU] or .
- 2 Input a new voice callback number or edit voice callback number, then press .

- You can look it up from the phone book by pressing [FIND].

REMIND

To send yourself a message to remember important notes or events:

- 1 Press [MENU] or .
- 2 Select "Off" or "On" with the **WEB**, , , , then press .

EDIT SIGNATURE

To create a signature that can be automatically inserted at the end of a message:

- 1 Press [MENU] or .
- 2 To input "Signature", put the cursor on Edit Signature and enter Signature Edit window by using **WEB**, .
- 3 To activate Signature function, put the cursor on Insert Signature and select "On" by using **WEB**, .
To deactivate Signature function, select "Off".
- 4 Press .

DIRECT VIEW

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

- 1 Press [MENU] or .
- 2 Select "Off" or "On" with the **WEB**, , , , then press .

- **On:** Set to read msg without entering inbox in SMS menu.
- **Off:** Set to read msg after entering inbox in SMS menu.

ENTRY MODE

Sets an Entry Mode as a default. For example, the T9 mode indicator will appear when T9 mode is set as the default.

- 1 Press [MENU] or .
- 2 Select "Alpha Mode" or "T9 Mode" with the **WEB**, , , , then press .

BLOCK OR UNBLOCK

- 1 Press [MENU] or .
- 2 Select "Block", "Unblock" or "View List of Blocked Addresses" with the **WEB**, , , , then press .

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

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



■ START BREW

- 1 To launch "BREW" from the standby mode, press [MENU] [4 call] [1 r] or [1 r] [arrow].
- 2 When three or more icons appear on the screen, select an application with the WEB, [game], [book], [envelope].
- 3 To start the application, press [OK].
- 4 To end the application, press [END].
The phone will return to the standby mode.

■ DOWNLOADING APPLICATIONS

- 1 Press [MENU] [4 call] [1 r] or [1 r] [arrow].
- 2 Select "BREW" with WEB, [game], [book], [envelope] and press [OK].
- 3 Select "Catalog" with WEB, [game], [book], [envelope] and press [OK].
- 4 The phone will access your service provider's server. Follow the prompt to download applications.

- To select an option, press [OK] then press [OK].
- When a prompt appears, press [OK] to proceed or [END] to cancel.

■ DOWNLOADING MELODIES/WALLPAPERS

Before downloading melody ringers and wallpapers, you need to download the dedicated downloader. Please contact your service provider for details.

■ APPLYING MELODIES/WALLPAPERS

Downloaded melody ringers apply to several functions including the incoming call alert, new text message alert, alarm clock and scheduler alarm. Downloaded wallpapers apply to the standby mode.

■ CHECKING DATA FOLDER MEMORY

Downloaded melody ringers, wallpapers and applications are saved to the data folder in your phone.

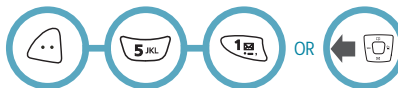
- 1 Press [MENU] [4 call] [1 r] or [1 r] [arrow].
- 2 Select "Settings" with WEB, [game], [book], [envelope] and press [OK].
- 3 Select "Manage Apps -> System Info" with WEB, [game], [book], [envelope] and press [OK].
The memory status will be displayed.
- 4 To exit, press [END].

■ ERASING AN APPLICATION

- 1 Press [MENU] or .
- 2 Select "Settings -> Manage Apps" with **WEB**, , , and press .
- 3 Select the application to be erased with **WEB**, , , and press .
- 4 Press to remove it.

■ ACCESS THE INTERNET

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



To launch the Mobile Web Browser and access websites through your wireless handset.

Press [MENU] or .



Using the Mobile Web Browser requires digital service and is not available everywhere. Mobile Web text messages/alert fees apply for messages/alerts both sent and received. Airtime charges apply.

■ BROWSER MENU

The browser menu has various options. To access the browser menu, press [MENU] or press .

HOME

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

To display the homepage:

Press [MENU] or .

BACK

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

To return to the previous page:

Press [MENU] or .

FORWARD

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

To forward to the next page:

Press [MENU] or .

REFRESH

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

To select "Refresh":

Press [MENU] or .

HISTORY

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

To select "History":

Press [MENU] or .

ADDRESS

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

To select "Address":

Press [MENU] or .

CLEAR MEMORY

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

To clear the browser memory:

Press [MENU] or .

SETTINGS

To select "Settings":

Press [MENU] or .

- **Downloads:** Selecting "Downloads" allows the user to enable/disable the ability to download images, background sounds, and objects when a URL is accessed.
- **Restart Browser:** Selecting "Restart Browser" causes the history and cache to be cleared and returns the user to the homepage.
- **Scroll Mode:** Selecting "Scroll Mode" allows the user to select between time-square scrolling (referred to as block scrolling) and smooth scrolling as well as selecting the speed of the smooth scrolling. Scrolling speed choices are medium, fast, and slow.
- **Send Referrer:** When "Send Referrer" is selected from the Settings menu, the browser allows the user to turn on or off sending the referring URL.

- **Key Press Timeout:** When the "Key Press Timeout" item is selected from the Settings menu, the browser allows the user to set the key press timeout as fast, medium or slow. Medium is 1.5 seconds, slow is 2 seconds and fast is 1 second. The key press timeout is the period of time after which the cursor auto-advances to the next entry position. In most cases, a single key can be used to enter more than one character. Each time the key is pressed, the last character of the line is replaced by the next choice for that key. As long as the same key is re-pressed within key press timeout, the last character cycles between all the choices for the key.
- **Connection Timeout:** When the Connection Timeout item is selected from the Settings menu, the browser allows the user to set the connection timeout. The connection timeout determines how long the browser will wait for a response from the network for a network request.

ADVANCED

Selecting "Advanced" in the Browser Menu displays the advanced menu items.

To select "Advanced":

Press  [MENU]     or   .

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

EXIT

When "Exit" is selected from the Browser Menu, the user exits out of the browser and the phone returns to idle mode.

To exit the browser:

Press  [MENU]     or   .

OR

Press .

IMAGES



GRAPHICS

This menu shows the list of downloaded still images.

- 1 Press [MENU] .

- Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.

- 2 Scroll through the captured pictures to display the photo you want to send and press [SEND].

3 Write your photo message.

- 4 To send the photo message, press [MENU] select "Send", then press .
- 5 To save the photo message, press [MENU] select "Save to Outbox", then press .

ANIMATIONS

This menu shows the list of downloaded or saved images.

- 1 Press [MENU] .

- Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.

- 2 Scroll through the captured pictures to display the photo you want to send and press [SEND].

3 Write your photo message.

- 4 To send the photo message, press [MENU] select "Send", then press .
- 5 To save the photo message, press [MENU] select "Save to Outbox", then press .

PHOTO

This menu shows the list of photos that have been taken with the camera.



1 Press [MENU] .

- Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.

2 Scroll through the captured pictures to display the photo you want to send and press [SEND].

3 Write your photo message.

4 To send the photo message, press [MENU] select "Send", then press .

5 To save the photo message, press [MENU] select "Save to Outbox", then press .

TONES

This menu shows the list of downloaded ringtones.



1 Press [MENU] .

2 Scroll to the saved voice memo you want to send then press [SEND].

3 Write your message.

4 To send the message, press [MENU] select "Send", then press .

5 To save the message, press [MENU] select "Save to Outbox", then press .

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

SOUNDS

Sets Ringer Type, Volume, Alert, Roam Ringer, Tone Length and Etiquette.



RINGER TYPE

To select a ringer type for incoming calls:

RINGER

- 1 Press [MENU] .
- 2 Select your desired ringer type.

- **Left or Right key:** Select "Ring Tones", "Music Bells" or "Downloads."
- **Up or Down key:** Select "Ringer."
- **Downloads:** Downloaded ringer types and familiar music.

- 3 Select one of the available ring types.
To confirm, press [SELECT].

MESSAGES

To select a ringer type for receiving messages:

- 1 Press [MENU] .
- 2 Press , to select "Tone 1, 2, 3, 4, 5".
- 3 To confirm, press [SELECT].

VOICE MAIL

To select a ringer type for receiving voice mail:

- 1 Press [MENU] .
- 2 Press , to select "Tone 1, 2, 3, 4, 5".
- 3 To confirm, press [SELECT].

VOLUME

Controls the Ringer, Key tone, Voice Call and Speaker Phone volume.

RINGER

Controls the Ringer volume and alerts you to incoming calls in the modes listed in the gray box below (You can also adjust the ringer volume in standby mode with the side volume key):

- 1 Press [MENU] .
- 2 Select one of the following options by pressing .

- **Silent:** Mute the ringer, press [MIN].
- **Ringer Off**
- **Vibrate On**
- **Ringer Mode:** Up & Down (Level 1-5)
- **High & Vib:** The ringer sounds after vibration, press [MAX].

- 3 To confirm, press .

KEY TONE

To adjust the keypad tone:

- 1 Press [MENU] .
- 2 Adjust the keypad tone with the WEB, .

- Off (MIN-)
- Level 1 - 5 (level 5, MAX-)

- 3 To save, press .

VOICE CALL

To adjust the earpiece volume:

- 1 Press [MENU] .
- 2 Adjust the earpiece volume with the WEB, .

- Level 1 - 5 (MIN- , MAX-)

- 3 To save, press .

SPEAKER PHONE

To adjust speaker phone volume:

- 1 Press [MENU] .
- 2 Adjusts the speaker phone volume using the WEB, .

- Level 1 - 5 (MIN- , MAX-)

- 3 To save, press .

ALERT

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

MINUTE

Sounds an alert every minute during a call.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the , .
- 3 To save, press .

ROAM

Sounds an alert when leaving a service area and entering a roaming service area.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the , .
- 3 To save, press .

CONNECT

Notifies you that a call has been successfully placed.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the , .
- 3 To save, press .

FADE

Sounds an alert when entering an area where calls cannot be made due to weak signal strength.

① Press [MENU] .

② Select "Off" or "On" with the , .

③ To save, press .

ROAM RINGER

To select a different ringer to sound in a Roaming area:

① Press [MENU] .

② Select "Normal" or "Distinctive" with the , .

- **Normal:** Sounds the same ringer type as used in Home area.
- **Distinctive:** Sounds a different ringer type.

③ To save, press .

tone length

To adjust tone length:

① Press [MENU] .

② Select "Normal" or "Long" with the , .

③ To save, press .

ETIQUETTE

To place the phone in Etiquette Mode so all phone sounds are muted:

① Press [MENU] .

② Select "Off" or "On" with the , .

- **Off:** Etiquette Mode off.
- **On:** Etiquette Mode on.

③ To save, press .



From standby mode, press and hold to turn Etiquette Mode On/Off.

■ DISPLAY

Allows you to customize the display.

**MENU STYLE**

To select a display menu style:

- ① Press [MENU] .
- ② Select "Grid" or "List" with the , .
- ③ To save, press .

GRAPHICS

Allows you to set Wallpaper, Power On/Off image, Received/Dialed image and Screen Saver.

WALLPAPER

- ① Press [MENU] .
- ② Select Default to choose a pre-installed display, Downloads or Photo # to choose a display you have downloaded to your phone.
- ③ Select a display from the Animation or the Graphic list using the , .
- ④ Press [SELECT] to save it.

POWER ON

- ① Press [MENU] .
- ② Select "UTStarcom" with the , .
- ③ Select a display from the Animation list using the , .
- ④ Press [SELECT] to save it.

POWER OFF

- ① Press [MENU] .
- ② Select "UTStarcom" with the , .
- ③ Select a display from the Animation list using the , .
- ④ Press [SELECT] to save it.

RECEIVED

- ① Press [MENU] .
- ② Select Default to choose a pre-installed display, Downloads or Photo # to choose a display you have downloaded to your phone.
- ③ Select a display from the Animation and the Graphic list using the , .
- ④ Press [SELECT] to save it.

DIALED

- ① Press [MENU] .
- ② Select "Default" with the **WEB**, .
- ③ Select a display from the Animation list using the **WEB**, .
- ④ Press [SELECT] to save it.

SCREEN SAVER

Set the number of seconds of inactivity before the Screen Saver activates and select the Image that will be displayed on the LCD.

- ① Press [MENU] .
- ② Select "Time Setting" or "Screen Saver" with the **WEB**, .

- **Time Setting:** Off, 5 Secs, 10 Secs, 20 Secs, 30 Secs.
- **Screen Saver:** Select photo image.
(Photos/Multimedia/Images).
- By pressing [MENU], the user can choose from the following:
 1. **Erase:** To erase pictures saved in the current album.
 2. **Erase All:** To erase all pictures saved in the current album.
 3. **Change Title:** To edit the title of a photo file.

- ③ Press [SELECT] to save it.

SUB SCREEN

- ① Press [MENU] .
- ② Select "Digital" or "Analog" with the , .
- ③ To save, press .

GREETING MESSAGE

To input a personal greeting:

- ① Press [MENU] .
- ② The message field will be highlighted. Press **WEB**, to choose between on and off. Press to move to the next field, font. Press **WEB**, to choose a font color. Press to move to the next field, BG. Press **WEB**, to choose a BG color. Repeat for both fields. Press to enter the message. Enter your greeting.

- **Message:** On/Off.
- **Font:** White, Blue, Dark blue, Magenta, Gray, Black.
- **Bg:** Transparent, White, Blue, Yellow, Gray, Black.
- **Entry Message:** Enter message (Default-UTStarcom).

- ③ To save, press [SAVE].

CONTRAST

To adjust the display contrast:

- 1 Press [MENU] .
- 2 Select "Main LCD" or "Sub LCD" and select one of the following options with the **WEB**, .

- **Main LCD:** Level 1-5.
- **Sub LCD:** Level 1-5.

- 3 To save, press .

BACKLIGHT

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

- 1 Press [MENU] .
- 2 Select "LCD", "Key Pad" or "Dimming" and select one of the following options with the **WEB**, .

- **LCD:** 5 Secs/15 Secs/30 Secs/60 Secs/Always On.
- **Key Pad:** 5 Secs/15 Secs/30 Secs/60 Secs/ Always On/ Always Off.
- **Dimming:** On/Off.

- 3 To save, press .

DATA SVC.



CONNECTION

Choose the connection mode for the usage of your phone.

- 1 Press [MENU] .
- 2 Select one of the following connection modes with the , .

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

- 3 To save, press .



This function is available only when the phone is connected by data cable to a PC.

SECURITY

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



PHONE LOCK

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

- 1 Press [MENU] and enter your password.

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

- 2 Press and select "Lock Now", "Lock on Power Up" or "Unlock".

- **Lock Now:** Lock the phone now.
- **Lock on Power Up:** Not locked, but it is automatically locked when power is recycled.
- **Unlock:** Do not lock the phone.

- 3 To save, press .

RESTRICT

When you attempt to make a restricted call, "Please Enter your code" appears on the screen.

DIALED

Blocks all dialed calls – except emergency calls – but allows an incoming call to be placed.

- 1 Press [MENU] and enter your password.

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

- 2 Press and select "Allow" or "Restrict" with the , .

- **Allow:** Allows a dialed call.
- **Restrict:** Restricts a dialed call.

- 3 To save, press .

RECENT CALLS

Blocks access to the Recent Calls List.

- 1 Press [MENU] and enter your password.

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

- 2 Press and select "Allow" or "Restrict" with the , .

- **Allow:** Allows a recent call.
- **Restrict:** Restricts a recent call.

- 3 To save, press .

CAMERA

Restricts access to the camera mode.

- ① Press [MENU] and enter your password.

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

- ② Press and select "Allow" or "Restrict" with the , .

- **Allow:** Allows access to the camera.
- **Restrict:** Restricts access to the camera.

- ③ To save, press .

DATA CALL

Restricts a data call from being placed.

- ① Press [MENU] and enter your password.

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

- ② Press and select "Allow" or "Restrict" with the , .

- **Allow:** Allows a data call.
- **Restrict:** Restricts a data call.

- ③ To save, press .

900#S

Restricts calling 900 dial service numbers.

- ① Press [MENU] and enter your password.

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

- ② Press and select "Allow" or "Restrict" with the , .

- **Allow:** Allows calls to a 900-dial service.
- **Restrict:** Restricts calls to a 900-dial service.

- ③ To save, press .

LONG DISTANCE

Restricts calling long distance numbers – the phone is limited to calling numbers within the area.

- ① Press [MENU] and enter your password.

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

- ② Press and select "Allow" or "Restrict" with the , .

- **Allow:** Allows a long distance call.
- **Restrict:** Restricts a long distance call.

- ③ To save, press .

CHANGE CODE

Changes your 4-digit password.

- 1 Press [MENU] and enter your password.



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

- 2 Press .
- 3 Enter a new password and press .
- 4 Enter the new password again and press .

SPECIAL #'S

Stores 3 phone numbers that can be called even in the lock mode.

- 1 Press [MENU] and enter your password.



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

- 2 Press .
- 3 Select a location with the , .
- 4 Press and input a phone number, press again to save.

ERASE ALL

Clears all phone book, downloads, and photo gallery entries from your phone.

- 1 Press [MENU] and enter your password.



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

- 2 Press .
- 3 Press to check "Phone Book", "Downloads" or "Photo Gallery" and press to erase all the items in those categories.

RESET PHONE

Resets phone to default settings.

- 1 Press [MENU] and enter your password.



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

- 2 Press .
- 3 Select "Yes" or "No" with the , .
Press .

When you select "Yes" and , you will see "Reset Phone! this will reset to default settings" on the display.

- 4 To reset the phone, press .

■ OTHERS



ANSWER OPTIONS

CALL ANSWER

To select an answer mode:

- 1 Press [MENU] .
- 2 Select "Any Key" or "Send Key" with the , .

- **Any Key:** Press any key to answer an incoming call except , , , , and .
- **Send Key:** Press the only to answer a call.

- 3 To save, press .

ACTIVE FLIP

To select active flip answer mode.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the , .
- 3 To save, press .

- When Active Flip On is selected, an incoming phone call can be answered simply by opening the phone.
- When Active Flip Off is selected, you will need to open the phone and follow the Answer mode you have selected.

AUTO ANSWER

Automatically answers a call after a preset amount of time. Auto Answer only works when the phone is open.

- 1 Press [MENU] .
- 2 Select one of the following with the , .

- Off/5 Secs/10 Secs/18 Secs.



This function will not be active when you select Vibrate, Silent, Etiquette or Ringer Off as a ringer mode.

- 3 To save, press .

AUTO RETRY

Automatically redials a call up to 1-5 times after a set time interval.

- 1 Press [MENU] .
- 2 Retry time to field is shown. Press , to choose the amount of time. (Off, 3 Secs, 5 Secs, 7 Secs, 10 Secs.)
- 3 When a time is chosen for retry time, the repeat field is shown. Press to highlight the repeat field. Press , to choose the amount of repeats. (1 Time, 3 Times, 5 times).
- 4 To save, press .

LANGUAGE

Selects the language in which letters are displayed on screen.

- 1 Press [MENU] .
- 2 Select either "English" or "Spanish" with the , .
- 3 To save, press .

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

- 1 Press [MENU] .
- 2 Select "Standard" or "Enhanced" with the , .
- 3 To save, press .

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

TTY MODE

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

- 1 Press [MENU] .
- 2 Select one of the following options "TTY Off", "TTY + TALK", "TTY + HEAR", "TTY Full" with the , .
- 3 To save, press .

LOCATION

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

- 1 Press [MENU] .
- 2 Select "911 Only" or "Location On" with the , .

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

- 3 To save, press .

SYSTEM



SET MODE

Selects the Preferred System.

- 1 Press [MENU] .
- 2 Select one of the following options "Automatic B", "Automatic A", "Home Only" with the , .

- **Automatic B:** Scans the radio channels based on the Automatic B setting.
- **Automatic A:** Scans the radio channels based on the Automatic A setting.
- **Home Only:** Only within your home area or home affiliated area.

- 3 To save, press .

NAM SETTING

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

AUTO NAM

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

- 1 Press [MENU] .
- 2 Select "No" or "Yes" with the , .
- 3 To save, press .

CHANGE NAM

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

- 1 Press [MENU] .
- 2 Select "NAM1" or "NAM2" with the , .
- 3 To save, press .

PRL ID

Displays the phone's PRL (Preferred Roaming List).

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

PHONE INFO.

Displays the software, hardware and BREW versions of your phone:



S/W VERSION

- 1 Press [MENU] .
- 2 The software version appears.
- 3 To return to the previous page, press .

H/W VERSION

- 1 Press [MENU] .
- 2 The hardware version appears.
- 3 To return to the previous page, press .

BREW VERSION

- 1 Press [MENU] .
- 2 The "BREW" software version appears.
- 3 To return to the previous page, press .

VOICE TOOLS



VOICE MEMO

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

- 1 Press [MENU] .
- 2 To record a voice memo, press . Instructions will be displayed and you will hear "Please record at the tone".
 - To stop recording a memo, press [STOP] or [PAUSE/RESUME].
 - Press [MENU] after recording a voice memo to "Re-record" or "Review".
 - Press [SAVE] to input a "Voice Memo" title, then press . (See page 35 for more information on entering letters, numbers and symbols.)
 - Press [SEND] to access the "New Photo Msg". See "Create New Photo Message" on page 61.
- 3 To play voice memo, press . Select the message you want to play then press [PLAY] or press [MENU] to 1. Edit Title or 2. Send. Press [ERASE] to erase the voice memo.
- 4 To play speaker mode, press . Select the message you want to play then press [PLAY] or press [MENU] to 1. Edit Title or 2. Send. Press [ERASE] to erase the voice memo.

- 5 To erase all voice memos, press . "Erase all voice memos?" will be displayed. Press to erase all voice memos.

VOICE DIAL

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

- 1 Press [MENU] .
- 2 To record a voice dial, press . The phone book list will be displayed alphabetically. Select a name and press . Instructions will be displayed and you will hear "Name Please".
 - Say the name for the voice tag and repeat the name when prompted. You will hear "Added".
- 3 To play a voice dial, press . Highlight the message you want to play then press [PLAY]. Press [ERASE] to erase the voice dial.
- 4 To play speaker mode, press . Highlight the message you want to play then press [PLAY]. Press [ERASE] to erase the voice dial.
- 5 To erase all voice dials, press . "Removing all voice tags Proceed?" will be displayed. Press to erase all voice dials.

TRAIN WORDS

Train allows you to use Control words to make a call without using the keypad.

YES

Use to train or untrain the Voice Recognition with the control word, "Yes".

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word yes".
- 3 Say "Yes". You will hear "Again". Say "Yes" again. You will hear "Training word successful".

NO

Use to train or untrain the Voice Recognition with the control word, "No".

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word no".
- 3 Say "No". You will hear "Again". Say "No" again. You will hear "Training word successful".

WAKE-UP

Use to train or untrain the Voice Recognition with the control word, "Wake-Up".

- ① Press [MENU] .
- ② "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word Wake-Up".
- ③ Say "Wake-Up". You will hear "Again". Say "Wake-Up" again. You will hear "Training word successful".

UNDO TRAIN ALL

Undo Train All erases all "trained" words.

- ① Press [MENU] .
- ② "Undo voice recognition for all procedures?" will be displayed. Press to undo all trained words.

VOICE SETTING**SET ACTIVE**

Allows the user to activate or deactivate voice dial service.

- ① Press [MENU] .
- ② Select "Active Flip" or "Send Key" by pressing the **WEB**, .
- ③ To save, press .


HFK MODE

While using the Hands Free Kit, activates or deactivates the voice recognition function.

- ① Press [MENU] .
- ② Scroll to HFK Mode. Select "On" or "Off" by pressing **WEB**, .
- ③ To save, press .

VOICE RECOGNITION MODE

Voice Recognition (VR) enables you to place calls using your voice and to record voice memos.


- 1 Press and hold  until your phone turns to Voice Recognition mode.



If there are no recorded voice dial entries, a "No entries recorded" message will be displayed.

- 2 "Please say the name after the prompt tone" will be displayed and you will hear "Name please".

NAME










- 1 Press and hold  until your phone turns to Voice Recognition mode.
- 2 Say a tag name when prompted. The number and name will appear on the display and you will hear "Calling (name)".

■ SCHEDULE


Sets an event reminder.





ADD NEW PLAN

- 1 Press  [MENU]   .
- 2 Move the WEB, , ,  to choose a date in the calendar and press .
- 3 The date field is highlighted. Press  to set the alarm options.


DATE

Use the keypad to change or enter the date then press .


TIME

Use the keypad to set a time and press  to select "AM" or "PM" then press .





PLAN


Use the keypad to input a plan message then press .

SETTING



Select an alert time interval option (On Time, 10 Min Before, 30 Min Before, 1 Hour Before, No Alarm) by pressing **WEB**, .

RINGER



To set a Ringer, press  [MENU], then select "Default" or "Change" using the **WEB**, , , .

To save it press  [SELECT].

- **Default:** To set default ringer type.
- **Change:** Choose a ringer type from the list.

- 4 Press  [SAVE] to save it or  [CLR] to return to the calendar.
- 5 The date of the event will be marked on your calendar.








VIEW PLAN

- 1 To view the Event List, press  [MENU]   .
- 2 Move the **WEB**,  to choose an event and press  or  [ERASE]. Press  [MENU], then select "Erase All" using the **WEB**, . "Erase all plans?" will be displayed. Press  to delete.


■ ALARM

You can set up to 3 alarms.




- 1 To display alarm entries, press  [MENU]  .
- 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 .
- 3 The setting field will be highlighted. Press  to select alarm options.

SETTING



Use the **WEB**,  to select a setting for the alarm (Once, Daily, Weekly, Monthly, Off).

DATE


Use the keypad to change or enter the date for the alarm then press . If Weekly is chosen for the setting, date field becomes a day of the week.

- **Once:** Select a single date for the alarm.
- **Daily:** Select alarm for same time each day.
- **Weekly:** Select "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday".
- **Monthly:** Select day 1 through 31.
- **Off**





TIME

Use the keypad to set a time for the event and press  to select "AM" or "PM" then press .

SNOOZE SETTING


Use the **WEB**  to select a Snooze setting. (Off, 1 time after 5 min, 1 time after 10 min, 3 times by 5 min)

RINGER

To set a "Ringer" press [MENU], then select "Default" or "Change" using the **WEB** , , . To save it press  [SELECT] to save it.

- **Default:** To set default ringer type.
- **Change:** Choose a ringer type from the list.

PLAN

Using the keypad, input an alarm message then press .

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






MEMO PAD

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















ADD MEMO

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

- 1 Press  [MENU]   .
- 2 Input a new text memo. (Please refer to page 35 for more details on entering letters, numbers & symbols.)
- 3 Press  to save memo.

VIEW MEMO

To view a saved memo:

- 1 Press  [MENU]   .
- 2 The list of all memos, in saved order, is displayed. Select a memo and press .
 - To erase a memo, press  [ERASE].
 - To add a new memo, press  [MENU]  "New Memo".
 - To erase all memos, press  [MENU]  "Erase All".
- 3 The selected memo will appear. To edit it, press  [MENU], select "Edit" and input a new text memo, then press  to save edit memo.

SETTINGS

To select memo pad background image:

- 1 Press [MENU] .
- 2 Select (Paper/Pattern/Sea/Sky/Flower) by pressing WEB, .
- 3 To save, press .

■ CALCULATOR

To access the calculator:



- 1 Press [MENU] .
- 2 Follow the instructions below to calculate $8 * 6 / 4 - 2.5$

- Input 8.
- Press (*).
- Input 6.
- Press WEB (/).
- Input 4.
- Press (-).
- Input 2 and press to the input (.)
- Press 5, .
- Answer appears on the right side of the grey box below calculation.

- 3 To reset, press [RESET].

■ WORLD CLOCK

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



- 1 Press [MENU] .
- 2 Select a city with the WEB, , , .
- 3 The world map appears with the city, its date and time.

- Use the WEB, , , to select another city.



Since daylight saving time is not applied, it may be different from the actual time during DST.

- 4 To return to the previous page, press .

■ STOP WATCH

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



- 1 Press [MENU] .
- 2 To measure a time period.
 - To start the stop watch, press [START].
 - To pause it, press [STOP].
 - To resume it, press or [RESET]. To return to the previous page, press [EXIT].
- 3 To time up to six events at once:
 - To start, press [START].
 - To stop a time period and continue measuring another one, press [CONT].
 - To stop the second and continue measuring a third one, press [CONT].
 - To measure up to six time periods, repeat the above steps.
 - To stop the stop watch, press [STOP].
 - To review the results, press [VIEW].
 - To return to the stop watch, press [OK].
 - To reset it, press [RESET].

■ TAKE A PHOTO

Taking pictures with your phone's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button. You can activate the Camera Mode and take pictures when the phone is open.



TAKING A PHOTO THROUGH THE MENU

- 1 Press [MENU] .
- 2 Point the camera lens at your subject.
You can check the photo framing through the main display screen.
- 3 Press , or the side camera button to take the photo.
- 4 To save the photo, press [SAVE] then input a photo title and press . To go back to idle mode without saving the photo, press . To send the photo to someone, press .

TAKING A PHOTO IN IDLE MODE

- 1 Press or to activate Camera Mode.
- 2 Point the camera lens at your subject.
You can check the photo framing through the main display screen.
- 3 Press the side camera button or press to take the photo.
- 4 To save the photo, press [SAVE] then input a photo title and press . To go back to idle mode without saving the photo, press . To send the photo to someone, press .

CAMERA MODE OPTIONS

When the phone is open and in Camera Mode, several user options are available.

GALLERY

Press [GALLERY] to enter Review Mode. From there you can view the captured pictures, view a running count of stored pictures and more.

RESOLUTION

Press , , to adjust the photo size from High (480x640 pixels) to Med (240x320 pixels) to Low (120x160 pixels). The current photo size appears at the top of the display screen.

ZOOM

Press to change the magnification. (Zoom to 1x, 2x or 4x magnification.)



4x magnification only occurs when you are in low resolution 120x160 pixels.

UNDER [MENU] - SUB LCD

The sub LCD will show a representation of the photo to be taken. Use the sub LCD to help frame yourself for a self portrait.

UNDER [MENU] - FLASH

To activate the flash function. (Off / On this shot / Always On / Auto Flash)

UNDER [MENU] - SELF TIMER

To activate the camera's timer function.
(Off / 5 Secs / 10 Secs)

UNDER [MENU] - ADD FRAMES

To select your favorite fun photo frame to decorate your photo.

UNDER [MENU] - IMAGE CONTROLS

To select an option from the following.

- **Brightness:** Auto/Manual
- **Image Effect:** Normal/Sepia/Gray/Negative/Emboss/Sketch
- **White Balance:** Auto/Sunny/Cloudy/Tungsten/Fluorescent
- **Quality:** High/Medium/Low

UNDER [MENU] - SHUTTER SOUND

To select a shutter sound. (Off / Shutter 1 / "Ready 123" / Say "Cheese")

PHOTO GALLERY

Your phone enters Review Mode after taking a photo.



- 1 Press [MENU] [9].
- 2 Press [OK] to select a photo.

- 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 photo options.
- Press [MENU] to display the following options :
 1. **Thumbnail:** To switch the display from full-screen to thumbnail view.
 2. **Edit Title:** Edit the photo's title.
 3. **Send Photo:** Upload the photo to a message.
 4. **Assign Picture:** Assigns the selected photo to display for specific tasks. (Wallpaper/Screen Saver/Picture Caller ID/Incoming Call).
 5. **Erase:** Erase the current photo from your phone.
 6. **View Lists:** Displays all photos.
 7. **Photo Info:** Displays information on the selected photo, such as title, date/time, size, etc.
- Press [CAM] to return to Camera mode to take another photo.

PHOTO MESSAGE



Once you've taken a photo, you can use the messaging capabilities of your phone to instantly share it with family and friends. To send a photo to a recipient's email address or to their wireless phone:



- 1 Press [MENU] [9] [3].
- 2 Press [1] for "New Photo" or [2] for a "Saved Photo". If you are looking for a saved photo, scroll through the captured photos to select the photo you want to send.
- 3 Highlight the photo and press [OK].
- 4 Under "Send To", enter the email address or mobile phone number and press [OK].
- 5 Under "Message", press [OK]. The photo will come up with the flashing cursor underneath. Enter the message and press [OK]. Press [MENU] to 1. Voice Record, 2. Insert Q.Text, 3. Delete Photo, 4. Insert Sound, 5. Insert Slide or 6. Slide Duration.
- 6 Under "Subject", enter a subject line for the message. Press [OK].
- 7 If you want to send the photo to any additional recipients, enter their information under "CC" or "BCC". Press [MENU] to 1. Find, 2. Save or 3. Msg. Group.

MENU FUNCTIONS

CAMERA

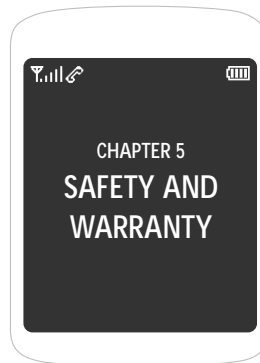
- 8 To send the photo, press  [MENU] then select "Send". Press  [MENU] to 1. Send, 2. Preview, 3. Save to Outbox, 4. Priority or 5. Expiration. Please refer to page 61 for more details on "Create New Photo Message".

HELP



- 1 Press  [MENU]  .

- Use up/down keys to change photo size, left/right keys to change zoom on preview mode.
- Camera menu provides more settings:
 1. **SUB LCD:** Enable previewing on external LCD.
 2. **FLASH:** Provides just enough light to allow pictures to be taken.
 3. **SELF TIMER:** Set timer to take a self portrait.
 4. **ADD FRAMES:** Choose from 20 different frames to make picture taking fun.
 5. **IMAGE CONTROLS**
 - 5.1 BRIGHTNESS
 - 5.2 IMAGE EFFECT
 - 5.3 WHITE BALANCE
 - 5.4 QUALITY
 6. **SHUTTER SOUND:** Select a sound to use for shutter.



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

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 CARE

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

1* : American National Standards Institute.

2* : National Council on Radiation protection and measurements.

3* : International Commission on Nonionizing Radiation Protection.

DRIVING SAFETY

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

Also, if using your phone while driving, please:

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

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

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



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

ELECTRONIC DEVICES

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

PACEMAKERS

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

Persons with pacemakers :

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

OTHER MEDICAL DEVICES

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

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

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

OTHER SAFETY GUIDELINES

AIRCRAFT

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

BLASTING AREAS

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

POTENTIALLY EXPLOSIVE ATMOSPHERES

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

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

PRECAUTIONS

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

- DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
- DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.
- DO NOT expose this equipment to rain or spilled beverages.
- DO NOT use unauthorized accessories.
- DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized 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.

WARNING! READ THIS INFORMATION BEFORE USING

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2.0 cm. from the body. 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 1.3 W/Kg and when worn on the body, as described in this user guide, is 0.6W/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 PP4TX-215A.

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 sub-stancial 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.

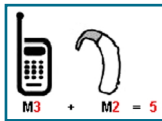
While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

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.



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

SAFETY AND WARRANTY

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 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

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.nrbp.org.uk/>)

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