



CDM8625



CDM8625

COLOR DISPLAY CDMA PHONE

USER'S MANUAL



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User Guide



CDM-8625

CHAPTER 1. BEFORE USING YOUR PHONE	7
INSIDE THE PACKAGE.....	8
HANDSET DESCRIPTION	9
PHONE VIEW	9
THE FUNCTION KEYS.....	10
DISPLAY INDICATORS.....	11
DISPLAY INDICATORS.....	11
BATTERY USAGE	13
BATTERY INSTALLATION.....	13
BATTERY REMOVAL.....	13
BATTERY CHARGING.....	14
BATTERY HANDLING INFORMATION.....	15
DO'S.....	15
DON'Ts.....	15
CHAPTER 2. BASIC OPERATION.....	17
TURNING THE PHONE ON / OFF.....	18
TURNING THE PHONE ON	18
TURNING THE PHONE OFF	18
ACCESSING THE MENU.....	19
MENU SUMMARY	20
BASIC FUNCTIONS	23
MAKING A CALL	23
ANSWERING A CALL.....	24
SPEAKER PHONE	24
CALLER ID FUNCTION	24
ENTER LOCK MODE	25
3-WAY CALLING	25
CALL WAITING FUNCTION.....	26
WAIT/PAUSE FEATURE	26
ADJUSTING VOLUME.....	27
DURING A CALL.....	28
MAKING AN EMERGENCY CALL	30
911 IN LOCK MODE	30
911 USING ANY AVAILABLE SYSTEM	30

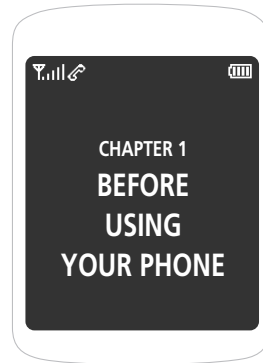
CHAPTER 3. MEMORY FUNCTION	31
STORING A PHONE NUMBER.....	32
ENTERING LETTERS, NUMBERS & SYMBOLS	33
STANDARD INPUT MODE	34
T9WORD INPUT MODE.....	35
NUMERIC MODE	36
SYMBOL MODE.....	36
MAKING A CALL THROUGH THE PHONE BOOK	37
ONE-TOUCH/TWO-TOUCH DIALING	37
CHAPTER 4. MENU FUNCTION.....	39
PHONE BOOK	40
FIND	40
ADD NEW	41
GROUP	42
SPEED DIAL.....	44
MSG. GROUP	45
MY PHONE #	47
RECENT CALLS	48
ALL CALLS.....	48
MISSED CALLS	49
RECEIVED CALLS	50
DIALED CALLS	51
CALL TIMERS	52
MESSAGING.....	55
WHEN A NEW MESSAGE ARRIVES.....	55
VOICE MAIL.....	55
NEW TEXT MSG.....	56
INBOX	58
OUTBOX	61
SAVED	63
QUICK TEXT.....	64
ERASE ALL	65
SETTINGS	66

TABLE OF CONTENTS

BREW	70
START BREW.....	70
DOWNLOADING APPLICATIONS.....	70
DOWNLOADING MELODIES/WALLPAPERS.....	71
APPLYING MELODIES/WALLPAPERS.....	71
CHECKING DATA FOLDER MEMORY.....	71
ERASING AN APPLICATION.....	72
MEDIA GALLERY	73
IMAGES.....	73
TONES.....	75
SETTINGS	76
SOUNDS.....	76
DISPLAY.....	82
DATA SVC.....	86
SECURITY.....	87
OTHERS.....	93
SYSTEM.....	97
PHONE INFO.....	99
TOOLS	100
SCHEDULE.....	100
ALARM.....	102
MEMO PAD.....	104
CALCULATOR.....	106
WORLD CLOCK.....	107
STOP WATCH.....	108
VOICE SVC	109
VOICE MEMO.....	109
VOICE DIAL.....	110
TRAIN WORDS.....	111
VOICE SETTING.....	113
VOICE RECOGNITION MODE.....	114

TABLE OF CONTENTS

CHAPTER 5. SAFETY AND WARRANTY	115
SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES	116
SAFETY INFORMATION FOR FCC RF EXPOSURE	121
SAR INFORMATION	122
FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES	124
FDA CONSUMER UPDATE	126
12 MONTH LIMITED WARRANTY	133



This chapter provides important information about using the CDM-8625 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. The CDM-8625 weighs 3.7oz. The dimensions are 1.83" x 4.48" x 0.97".

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 Sounds and
Right for BREW

Inside the menu

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

Volume Up/Down key

Press to make or receive a call.

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

Short press in Text edit :
Caps lock.

Long press in Idle :
Etiquette Mode On/Off.



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.

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

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

Clear/Speaker Phone
Press to clear a digit from the display or to return to the previous page. Speaker Phone On/Off in idle.

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



Mute

Phone is mute 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**

Appears when either an event or an alarm is set.

**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 no activity on a page for some time - your connection is still active and now 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.

**Scratch Pad**

Displays when scratch pad is in use during a call.

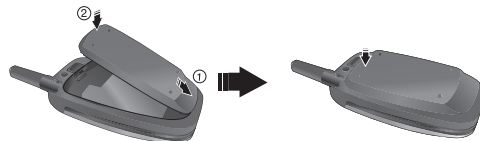
**1X Service**

Indicates the phone is in the 1x service area.

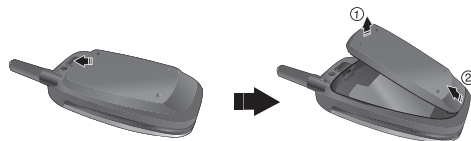
BATTERY INSTALLATION

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

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

**BATTERY REMOVAL**

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

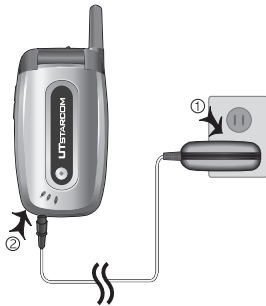


If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

■ 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.



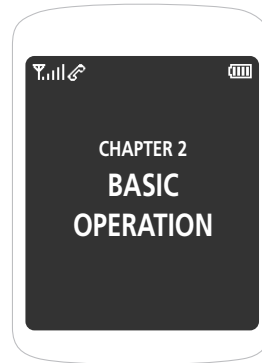
- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.
- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset 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 its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

■ DON'TS

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




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 tone sounds.







- To select a logo, refer to page 82 for more details. (Settings>Display>Graphics) for more detail.
- 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 "Very Low Battery!" 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 the 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 the 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:** Sounds

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 #		
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. Voice Mail 3. Inbox 4. Outbox 5. Saved 6. Quick Text 7. Erase All 8. Settings	1. Inbox 2. Outbox 3. Saved 1. Save Sent MSG 2. Remind 3. Edit Voice C.B 4. Auto Erase 5. Entry Mode 6. Block or Unblock 7. Edit Signature 8. Direct View	1. Old Inbox 2. Entire Inbox 1. Inbox 2. Outbox 1. Block 2. Unblock 3. View List of Blocked Addresses
4. BREW	1. BREW	BREW	

MAIN MENU	2ND DEPTH	3RD DEPTH	4TH DEPTH
5. Media Gallery	1. Images 2. Tones	1. Graphics 2. Animations	
6. 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. Graphics 2. Greeting Message 3. Contrast 4. Backlight 1. Connection 1. Phone Lock 2. Restrict 3. Change Code 4. Special #'s 5. Erase All 6. Reset Phone	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 5. On/Off Tones 1. Wallpaper 2. Power On 3. Power Off 4. Screen Saver 1. Dialed 2. Recent Calls 3. Data Call 4. 900# 5. Long Distance 1. Special #1 2. Special #2 3. Special #3

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

■ MAKING A CALL



① Enter a phone number.



To modify the phone number you have entered:

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

To send a Text message with phone number:

- Enter a part of the phone number, then press **[M]** [MENU], select "Send Text Msg".
Please refer to page 56 for more details on "New Text Msg".

② Press **[V]**.


The indicator, **[V]**, appears on the display.






- If "CALL FAILED" appears on the display or the line is busy, press **[R]** or **[V]**.
- If you activate the "AUTO RETRY" function, the phone will automatically retry for the number of times you have selected. (Refer to page 94).
- When you place or receive a call from stored phone numbers, both the name and phone number will be displayed.
- There is another way to make a call through the VR mode, which is called "Voice Dial".
Please refer to page 110 (Voice Service) for more details.
- If "Enter Lock Code" appears on the display enter your 4-digit password to unlock your phone.

③ To end a call, press **[E]**.

ANSWERING A CALL


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

 To ignore incoming calls, press  [IGNORE].

- To end the call, press .


SPEAKER PHONE

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





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

CALLER ID FUNCTION

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

 The caller ID is stored in the call history.




ENTER LOCK MODE


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

3-WAY CALLING

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



- Enter a number you wish to call and press .
- Once you have established the connection, enter the second number you wish to call and press .
- 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 FUNCTION

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



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 FEATURE

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



- 1 To insert a 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 32 for more details about storing a phone number.

■ ADJUSTING VOLUME

To adjust 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 volume of earpiece during a call.
- To adjust the master volume, press the up or down Side Volume keys.

■ MENU ON CALLING

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 through Global Positioning System (GPS). (Refer to page 96 for more details.)

Press  [MENU] .

PHONE INFO.

Displays the software and hardware version of your phone.

Press  [MENU] .

BASIC OPERATION


MAKING AN
EMERGENCY CALL

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

- ❶ Enter "911" and press .
- ❷ The call connects.
- ❸ 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

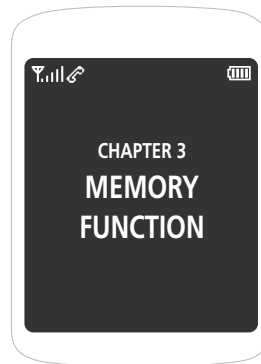
The 911 call service is available even in the lock mode.

- ❶ Enter "911" and press .
- ❷ The call connects.
- ❸ The phone maintains the Emergency Mode for 5 minutes.

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



The 911 call does not appear 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 #, 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 above a list of phone number types. Press to select.

- 3 Enter a name. Please refer to page 33 for more details on entering letters, numbers & symbols. To change the input mode, press [Abc]. Press to select other options (Mobile1.2, E-mail1.2, etc...). If you have entered a phone number, you can press [MENU] to select one of the following additional options:

- **Send Text Msg:** To send a Text Message to the number.
- **Prefix:** To add a prefix to the beginning of the number.
- **Hard Pause:** To add a hard pause in the dialing sequence.
- **Timed Pause:** To add a short pause in the dialing sequence.

- 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 lower 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 In T9Word input mode, press to view the next matching word if the highlighted word is not the word you intended.
	Space In T9Word input mode, 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 Press to confirm the letters and numbers you enter.

STANDARD INPUT MODE

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

- Enter letters using the key pad as follows:

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

Press repeatedly, until the desired symbol appears (. @ ? - , & : _ / ; 1).

To change the input mode, press [Abc].

- To enter a space, press . The cursor will automatically move to the next column.
- Repeat until letters are entered.
- To delete one digit, press . If you press and hold , it will delete letters word by word, and numbers in whole.
- 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. T9Word mode allows words to be entered more quickly by pressing a key once per character.

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





To enter numbers:

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

■ SYMBOL MODE

To enter symbols:

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

- Use the , , ,  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.
- For more information on programming a number to Speed Dial, refer to page 44.



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

PHONE BOOK
RECENT CALLS
MESSAGING
BREW
MEDIA GALLERY
SETTINGS
TOOLS
VOICE SVC

Stores up to 300 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 by simply pressing . You can review all the entries stored in your phone book list or find an entry quickly by using enter a name or its character string.



- 1 Press [MENU] .
- 2 The list of names in your phone book is displayed alphabetically.
- 3 Enter a name or its character string or scroll through the list with the , , , . Please refer to page 33 for more details on entering letters, numbers & symbols.
- 4 All matching entries will be displayed. Highlight an entry. Press to edit the entry. Press [MENU] to 1. Send Text Msg, 2. Prefix or 3. 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 , , , 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 33 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 , , , .
- 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 , , , 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 executing 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 , , , 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 #.
- Press is used for One-Touch voicemail dial feature.
- The #1 Speed Dial location is automatically programmed for your voicemail.

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

■ MSG. GROUP

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



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

- ❶ Press [MENU] . Select an existing group name with the , , , .
- ❷ Press [MENU] to select "Send Text Msg."
- ❸ Input a "Message", "Default CB#", "Priority", and "Insert Signature".
- ❹ To send the message, press [MENU], select "Send," then press .
- ❺ To save the message, press [MENU], select "Save to Outbox," then press .



Please refer to page 56 for more details on "New Text Msg".

ERASE MSG. GROUP

- ❶ Press [MENU] . Select an existing group name with the , , , .
- ❷ Press [ERASE] to delete it.
- ❸ Press to erase it.

■ MY PHONE

To display your phone number and service provider:



- ❶ Press [MENU] .
- ❷ 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 Press [MENU] and select "Save" to save it or press [ERASE] to delete it. Other Menu options include:

- **Save:** Select to store the phone number to the phone book.
- **Prefix:** Select to add a number(s) to the beginning of a phone number such as an area code or a "1" for a long distance call.
- **Send Text Msg:** Select to send a Text Message to the number.
- **Erase All:** Select to erase all the numbers in the list.

After the 60 received, dialed or missed calls, the oldest call will automatically be erased from the history.

■ 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 Press [MENU] and select "Save" to save it or press [ERASE] to delete it. Other Menu options include:





- **Save:** Select to store the phone number to the phone book.
- **Prefix:** Select to add a number(s) to the beginning of a phone number such as an area code or a "1" for a long distance call.
- **Send Text Msg:** Select to send a Text Message to the number.
- **Erase All:** Select to erase all the numbers in the missed calls list.

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 Press  [MENU] and select "Save" to save it or press  [ERASE] to delete it. Other Menu options include:

- **Save:** Select to store the phone number to the phone book.
- **Prefix:** Select to add a number(s) to the beginning of a phone number such as an area code or a "1" for a long distance call.
- **Send Text Msg:** Select to send a Text Message to the number.
- **Erase All:** Select to erase all the numbers in the received calls list.







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 Press  [MENU] and select "Save" to save it or press  [ERASE] to delete it. Other Menu options include:

- **Save:** Select to store the phone number to the phone book.
- **Prefix:** Select to add a number(s) to the beginning of a phone number such as an area code or a "1" for a long distance call.
- **Send Text Msg:** Select to send a Text Message to the number.
- **Erase All:** Select to erase all the numbers in the dialed calls list.



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.



LAST CALL

Displays usage time of last call.

- 1 Press [MENU] [2 ABC] [5 JKL] [1 OK] .
- 2 To return to the previous page, press .

ALL CALLS

Displays usage time of all incoming and outgoing calls.

- 1 Press [MENU] [2 ABC] [5 JKL] [2 OK] .
- 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 ABC] [5 JKL] [3 OK] .
- 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 ABC] [5 JKL] [4 OK] .
- 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.

- 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 A display icon appears when a new message arrives.
- 2 To view the message, press [READ].

■ VOICE MAIL



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

FIRST TIME USER

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

■ NEW TEXT MSG

To send a new message:



- 1 Press [MENU] [3 DEF] [MSG] or [MSG] [DOWN] [MSG].
- 2 Under "Send To", input the phone number and press [OK].

- By pressing [MENU], you can choose from the following:

1. **Contacts:** Search the phone numbers stored in the phone book.
2. **Save to Contact:** Stores the phone number the message was sent to.
3. **Msg. Group:** Selects a preset Group of numbers to send the text message to.

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

- By pressing [MENU], in the message input screen you can choose from the following:

1. **Quick Text:** Insert a phrase from a list of previously saved messages.
2. **Sound:** Insert a sound into a Text Msg.
3. **Graphics:** Insert graphics into a Text Msg.
4. **Animation:** Insert animations into a Text Msg.
5. **Save Quick Text:** Saves the written sentences into the list of previously saved Quick Text messages.

- 4 Press [DOWN] for more fields. Under "Priority", select "Normal" or "Urgent".
- 5 Under "Insert Signature", select "On" or "Off".
- 6 To send the Text message, press [MENU] then select "Send" then press [OK].
- 7 To save the Text message, press [MENU] then select "Save to Outbox" then press [OK].

INBOX

The Inbox manages received Text messages. To access:



- ① Press [MENU] 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:

REPLY

To reply to a received message.

REPLY WITH COPY

- ① To reply to a received message and include the received message within the message:
- ② The default call back number is automatically inputted into the Default CB# field. You can scroll to the number and edit it.
- ③ Under "Insert Signature", select "On" or "Off".
- ④ To send the Text message, press or press [MENU] then select "Send" then press .
- ⑤ To save the Text message, press [MENU] then select "Save to Outbox" then press .

FORWARD

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

SAVE MEDIA

To save a picture, sound or animation to the media gallery folder.



"Save Media" menu appears only when you receive an 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 Pressing  [MENU], the user can choose from the following:

RESEND

To resend a Text message.

SEND TO

- 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.

■ SAVED

Manages saved messages from the Inbox/Outbox.



- ① Press  [MENU]  or  .
- ② Select a message and press  .
The message appears. 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 appear.

Reply, Reply With Copy, Forward, Save Media, Save to Contact, Save Quick Text, Block Sender, Lock & Unlock

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

Resend, Send To, Save to Contact, Lock & Unlock, *State



- **Save Media" menu appears only when you receive an 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 .
- 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



- 1 Press [MENU] or .
- 2 To erase all the inbox messages, press .
 - **Old Inbox:** Erase messages already read.
 - **Entire Inbox:** 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.



SAVE SENT MSG

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

REMIND

To send yourself a reminder message:

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

EDIT VOICE CALL BACK

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

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

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

INBOX

- 1 Press [MENU] or .
- 2 Select "Disable" or "Old inbox" with , , , then press .

OUTBOX

- 1 Press [MENU] or .
- 2 Select "Disable" or "Old outbox" with , , , then press .

ENTRY MODE

Sets the default entry mode for messaging.

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

BLOCK OR UNBLOCK

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

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

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", move the cursor to Edit Signature and enter Signature Edit window by using the right or left direction keys.
- 3 To activate Signature function, move the cursor to Insert Signature and select "On" by using right or left direction keys. To deactivate Signature function, select "Off".
- 4 Press .

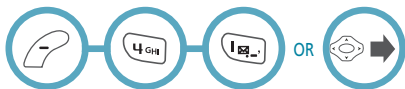
DIRECT VIEW

When you receive a text message, and 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 , , , , then press .

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

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] or .
- 2 When three or more icons appear on the screen, select an application with the <, >, ▲, ▼ .
- 3 To start the application, press OK .
- 4 To end the application, press . The phone will return to the standby mode.

■ DOWNLOADING APPLICATIONS

- 1 Press [MENU] or .
- 2 Select "BREW" with <, >, ▲, ▼ and press OK .
- 3 Select "Catalog" with <, >, ▲, ▼ and press OK .
- 4 The phone will access your service provider's server. Follow the prompt to download applications.

- To select an option, press then press OK .
- When a prompt appears, press OK to proceed or 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] or .
- 2 Select "Settings" with <, >, ▲, ▼ and press OK .
- 3 Select "Manage Apps -> System Info" with <, >, ▲, ▼ and press OK . The memory status will be displayed.
- 4 To exit, press .

■ ERASING AN APPLICATION

To erase an application:

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


■ IMAGES



GRAPHICS

To view the list of downloaded still images:


- 1 Press  [MENU]   .

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

ANIMATIONS

To view the list of downloaded or saved images:

1 Press  [MENU]    .

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

TONES

To view the list of downloaded ringtones:



1 Press  [MENU]   .

Settings allows you to customize your phone and optimizes its performance.

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."

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

MESSAGES

To select a ringer type for incoming messages:

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

- **Left or Right key:** Select "Tones" or "Downloads."

- 3 To confirm, press [SELECT].

VOICE MAIL

To select a ringer type for new voice mail:

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

- **Left or Right key:** Select "Tones" or "Downloads."

- 3 To confirm, press [SELECT].

VOLUME

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

RINGER

Controls the Ringer volume and alerts you to incoming calls in the modes listed in the gray box below. You can adjust the ringer volume from standby mode by pressing the side volume keys.

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

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

- 3 To confirm, press .

KEY TONE

To adjust key pad tone:

- 1 Press [MENU] .
- 2 Adjust the key pad tone with the , , , .

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

- 3 To save, press .

VOICE CALL

To adjust earpiece volume:

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

- 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 , , , .

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

- 3 To save, press .

ALERT

When selected, 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 .

ON/OFF TONES

To activate/deactivate the power on/off tones.

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

ROAM RINGER

- 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 .

STONE 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.

**GRAPHICS**

To select an LCD display:

WALLPAPER

- ① Press [MENU] .
- ② Select Default to choose a pre-installed display or Downloads 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.

POWER ON

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

SCREEN SAVER

Set the amount of time of inactivity required for the screen saver to activate and select the screen saver image.

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

- **Time Setting:** Off, 5 Secs, 10 Secs, 20 Secs, 30 Secs.
- **Screen Saver:** Select Downloads image. (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 picture file.

- ③ Press [SELECT] to save it.

GREETING MESSAGE

To input a personal greeting:

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

- **Message:** On/Off.
- **Font:** Red, Orange, Green, Blue, Magenta, Black, White.
- **Entry Message:** Enter message.

- 3 To save, press [SAVE].

CONTRAST

To adjust the display contrast:

- 1 Press [MENU] .
- 2 Select one of the following options with the , , , .
 - Level 1 ~ Level 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" or "Key Pad" and select one of the following options with the , , , .
 - **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.
- 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 to a data cable.

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 received.

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

- ③ To save, press .

RECENT CALLS

Blocks access to Recent Call List.

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

- 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.

NOTE 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.

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

- 2 Press .
- 3 Select a location (#1:911, #2:*911 or #3:#911) with the , , , .
- 4 Press and input a phone number, press again to save.

ERASE ALL

Clears all phone book and download entries from your phone.

- 1 Press [MENU] and enter your password.

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

- 2 Press .
- 3 Press to check "Phone Book" or "Downloads" 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 only the send key 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 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 & applications 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" or "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 "NAM 1" or "NAM 2" 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 .

FORCE MODE

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

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

- Automatic
- Analog Only
- CDMA Only
- PCS Only
- Call. Only

- ③ To save, press .

PHONE INFO.

Displays the version 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 .

SCHEDULE

Sets an event and reminds you of that event.

**ADD NEW PLAN**

- 1 Press [MENU] .
- 2 Move the , , , 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, 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 , .

RINGER

To set a Ringer, press [MENU], then select "Default" or "Change" using the , , , . 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 , , , to choose an event and press or [ERASE]. Press [MENU], then select "Erase All" using the , , , . "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 , , , to select a setting for the alarm (Once, Daily, Weekly, Monthly, Off).

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

TIME

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

SNOOZE SETTING

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

RINGER

To set a "Ringer" press [MENU], then select "Default" or "Change" using the , , , . 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 33 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.
 - To erase a memo, press [ERASE].
 - To add a new memo, press [MENU] "New Memo".
 - To erase all memos, press [MENU] "Erase All".

- 3 Select a memo and press .
The selected memo will appear. To edit it, press [MENU], select "Edit" and input a new text memo, then press to save edit memo.
- To erase a memo, press [ERASE].

SETTINGS

To select memo pad background image:

- 1 Press [MENU] .
- 2 Select (Cloud/Dot/Pattern/Sea/Sky) by pressing , .
- 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 (/).
- Input 4.
- Press (-).
- Input 2 and press (.) to input (.).
- Press 5, (OK).
- Answer appears on the right side of the orange 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 , , , .

3 The world map appears with the city, its date and time.

- Use the , , , to select another city.



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

4 To return to the previous page, press (OK).

■ 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 press [START]. To reset the timer press the [RESET].
- 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].

■ 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 33 for more information on entering letters, numbers and symbols.)
- 3 To play voice memo, press . Select the message you want to play then press [PLAY] or press [MENU] to 1. Edit Title. Press [ERASE] to erase the voice memo.
- 4 To play the memo in speaker mode, press . Select the message you want to play then press [PLAY] or press [MENU] to 1. Edit Title. Press [ERASE] to erase the voice memo.

- 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:



- Press [MENU] .
- 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".
- To play a voice dial, press . Highlight the voice tag you want to play then press [PLAY]. Press [ERASE] to erase the voice dial.
- To play the voice dial in speaker mode, press . Highlight the voice tag you want to play then press [PLAY]. Press [ERASE] to erase the voice dial.
- 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".

- Press [MENU] .
- "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word yes".
- 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".

- Press [MENU] .
- "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word no".
- 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 , .
- 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 , .
- 3 To save, press .

■ VOICE RECOGNITION MODE

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

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




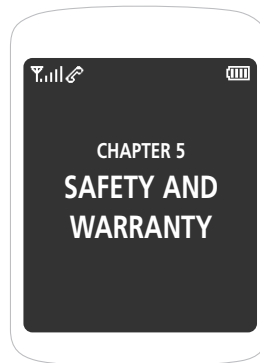
If there are no recorded voice dials, “No entries recorded” message will be displayed.

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

NAME

To call someone using a voice tag:

- 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)”.



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 1.28 W/Kg and when worn on the body, as described in this user guide, is 0.418W/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-210.

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-stantial 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.

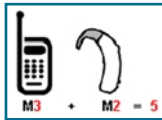
While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

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

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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- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
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