

# AUDIOVOX

## TX-160C

### Digital CDMA2000 1X Handheld Portable Telephone

Thank you for choosing the up-to-date TX-160C, our new model, developed by top researchers to support the CDMA2000 1X system through Qualcomm-manufactured MSM6100 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing, data & fax services, and a GUI animation menu.

Among its many advanced features, the T9 input mode makes it much easier to enter letters. In addition, the VR (Voice Recognition) makes it more user friendly, with proven technologies including:

- Full graphic display of 9 text input line and 1 icon line with variable font size.
- Easy to dial through the VR feature.
- Easy to enter letters through the T9 text input mode.
- Enhanced for web browsing & data services (i.e.; wireless internet Downloads, wireless fax send/receive, Openwave, UP browser)
- GUI & Animation display compliant with CDMA2000 1X.
- Full graphic main display - 260K color TFT LCD.
- Mobile Camera.(SXGA 1.3 Mega Pixel)
- Navigation key and 25 keys aligned for more convenience.
- Sophisticated features of speaker phone, and voice recognition.
- Additional services of text messaging and Web browsing on top of authentication, call forwarding, call transfer, call waiting.

#### Important information

This TX-160C user guide contains very important information about how to handle and use the product. So please read this manual thoroughly, pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are related with the unauthorized use of components.

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 5,101,501 U.S. Patent No. 5,103,459 U.S. Patent No. 5,107,225 U.S.Patent No. 5,109,390."

# Chapter 1

## **BEFORE USING YOUR PHONE**

Please read and fully understand this manual before using your phone.

This chapter addresses your phone, its keys and display icons, and covers the charging and proper use of the battery.

- Inside the Package
- Handset Description
- Function Keys
- Display Indicators
- Using the Battery
- Charging the Battery
- Battery Information

## INSIDE THE PACKAGE

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



Handset



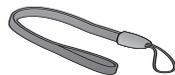
Standard Battery



Travel Charger



User Manual

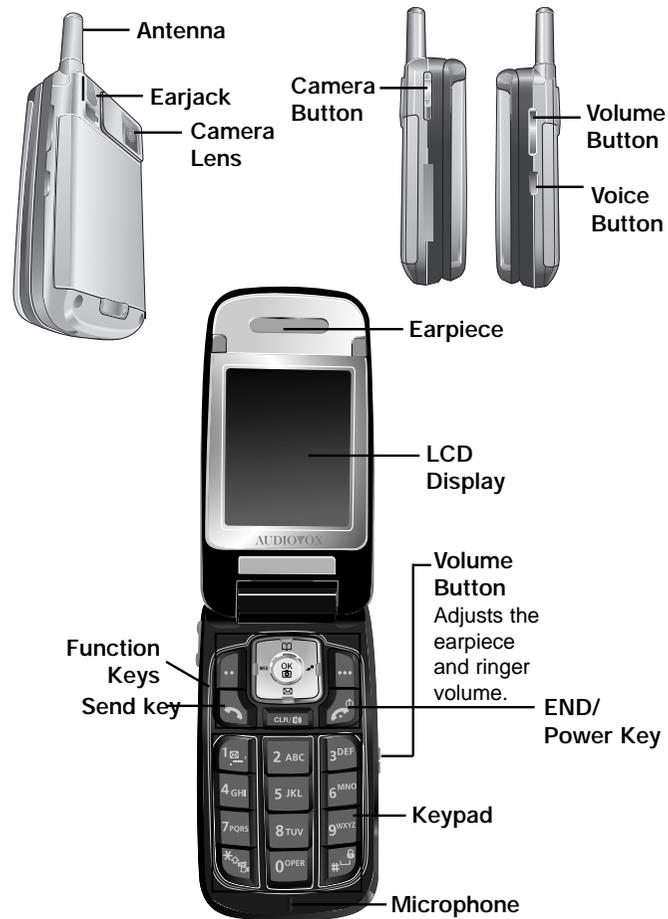


Hand strap

**NOTE:** Immediately report any product defects or missing items to the place of purchase.

## HANDSET DESCRIPTION

This phone is a tri mode CDMA2000 1X digital phone with Camera capabilities. The TX-160C weighs 3.89 oz. and the dimensions are 1.82" x 3.56" x 0.92".



## FUNCTION KEYS



**SEND KEY:** Press to make or receive a call. Press and hold to turn on VR mode.



**END KEY:** Press to turn the phone on, to terminate a call or to return to the initial page. Press and hold to turn the phone off.



**NAVIGATION KEY:**

**In Idle Mode** -Press up to access the Phone Book, down to access the Message Menu, right to access the for Get It Now and left access the for Mobile Web.

**Inside the menu** -Within a menu, use to scroll through menu options. Press  to select an option.



**SOFT KEYS:** (MENU Key) Press to access the main menu or function displayed on the bottom line. (Right Key) Press to access your contacts. Press to access the function displayed on the bottom line.



**LOCK KEY:** Press and hold to enter etiquette mode.



**ETIQUETTE MODE:** Press and hold to enter Etiquette (vibrate) Mode.



**CLR KEYS:** Press to clear a digit from the display, to return to the previous page, or to enable speakerphone mode.



**CAMERA KEYS:** Press to access your Camera 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,  indicates the phone cannot receive a signal from the system.



### Message

Text, Voice, Web Alerts messages.



### 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.



### Ring Mode

Appears when a ringer is set as a ringer mode.



### Emergency call

Blinks when an emergency call is in progress.



### Scratch Pad

Displays when scratchpad is in use during a call.



### Auto Answer

Phone is in answering machine mode.



### Etiquette

Phone will vibrate when call is received.

## DISPLAY INDICATORS

- 
**Alarm to Schedule**  
 Appears when either an event or an alarm is set.
- 
**Dormant**  
 Indicates the phone is in disconnection condition while on "Server Connection".
- 
**Fax Only**  
 Receives a fax call as a voice call.
- 
**Data Only**  
 Receives an async. call as a voice call.
- 
**GPS Icon**  
 Indicates the Location Service of your phone is disabled/enabled.
- 
**1X**  
 Phone is in the 1x service area.
- 
**Analog Mode**  
 Phone is operating in analog mode.
- 
**Network**  
 Phone is in the progress of "UP Browser".
- 
**TTY**  
 Indicates TTY mode is active.
- 
 Indicates TTY mode is deactive.
- 
**Voice Privacy**  
 Indicates "Voice Privacy" mode.
- 
**Phone Lock**  
 Indicates your phone is locked.
- 
**Ear Jack**  
 Indicates that a headset is connected.
- 
**Secure**  
 Indicates "Secure" mode.

## USING THE BATTERY

### INSTALLING THE BATTERY

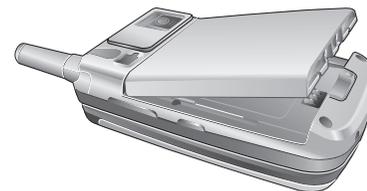
1. **1** Place the battery on the back of the handset and slide into place. **2** Push the battery down until it locks into place.



**NOTE:** Make sure the battery is securely placed to avoid slipping off during a call.

### REMOVING THE BATTERY

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

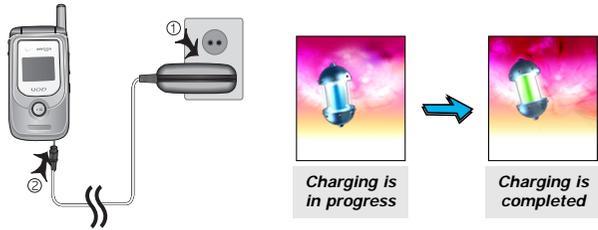


**NOTE:** If the battery is not correctly placed in the battery compartment, the handset will not turn on and/or the battery may detach during use.

## CHARGING THE BATTERY

### POWER CONNECTION

1. Plug the AC charger into a standard outlet.



**NOTE:**

1. These times are for a new battery. Talking and Standby times may decrease over time.
2. Fully charge the battery before using - it is not charged when purchased.
3. It is more efficient to charge the battery with the phone turned off.

## CHARGING THE BATTERY

### BATTERY STANDBY TIMES

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

	AMPS	CDMA
STD 1100 mAh	30 hour	190 hour
EXT 1700 mAh	40 hour	290 hour

### BATTERY TALK TIMES

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

	DCS	PCS	AMPS
STD 1100 mAh	210 min	220 min	103 min
EXT 1700 mAh	310 min	350 min	130 min

**NOTE:** These times are for a new battery. Talk and standby time may decrease over times.

## **BATTERY INFORMATION**

### **Dos**

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F (5°C ) and 95°F (35°C).
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

### **Don'ts**

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

## **Chapter 2**

### **BASIC OPERATION**

This chapter addresses the phone's basic functions including menus, volume levels, and call features.

- Using the Phone
- Using the Main Menu
- Menu Summary
- Basic Functions
- Functions During a Call
- Making an Emergency Call

## USING THE PHONE

### TURNING THE PHONE ON

1. Press and hold , until your "Power On" logo appears and the melody begins to play.

- If "Password" appears on the display enter your 4-digits 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" animation appears.

- NOTE:**
1. Immediately change or recharge the battery when "Low Battery Warning Power Off" appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
  2. Turn the phone off before removing or replacing the battery.  
If the phone is on, unsaved data may be lost.

## USING THE MAIN MENU

### ACCESSING THE MENU

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

1. To access the menu from the idle screen, press  [MENU].
2. Press the Navigation Key up and down to scroll through the menu.
3. To return to the previous page, press  [CLR]. To exit the current menu and return to the idle mode, press .
4. Press  [OK] to enter a function when its main page is displayed.

#### ● Hotkey

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

- Upward movement: Phone Book
- Downward movement: Messaging
- Rightward movement: Get It Now
- Leftward movement: Mobile Web

If you are in a second-level menu, you may also navigate to the next or previous second-level menu by pressing the navigation key right or left.

## MENU SUMMARY

### PHONE BOOK

- 1 : Find
- 2 : Add New
- 3 : Group
- 4 : Speed Dial
- 5 : Msg. Group
- 6 : My Phone #

### 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
- 6 : 1xPacket Counter
  - 1 : Received
  - 2 : Transmitted
  - 3 : Total

### MESSAGING

- 1 : New Text Msg
- 2 : New Pix Msg
- 3 : New Flix Msg
- 4 : Voice Mail
- 5 : Inbox
- 6 : Outbox
- 7 : Web Alerts
- 8 : Saved
- 9 : Quick Text
- 10 : Erase All
  - 1 : All Folder
  - 2 : Inbox
  - 3 : Outbox
  - 4 : Saved
  - 5 : Web Alerts
- 11 : Settings
  - 1 : Auto Save
  - 2 : Auto Erase
  - 3 : Default CB#
  - 4 : Voice CB#
  - 5 : Remind
  - 6 : Signature
  - 7 : Direct View
  - 8 : Entry Mode
  - 9 : Block or Unblock
  - 10 : Push Settings

## MENU SUMMARY

### GET IT NOW

- 1 : Get It Now
  - 1 : Get It Now
  - 2 : Settings
  - 3 : Help

### MOBILE WEB

- 1 : Connect Web

### MEDIA GALLERY

- 1 : Images
- 2 : Pix
- 3 : Flix
- 4 : Animations
- 5 : Tones

### SETTINGS

- 1 : Sounds
  - 1 : Ringer Type
  - 2 : Volume
  - 3 : Alerts
  - 4 : Roam Ringer
  - 5 : Tone Type
  - 6 : Tone Length
  - 7 : Etiquette
- 2 : Display
  - 1 : Menu Style
  - 2 : Graphics
  - 3 : Sub Screen
  - 4 : Greeting Message
  - 5 : Contrast
  - 6 : Backlight
- 3 : Data Svc.
  - 1 : Connection
- 4 : Security
  - 1 : Phone Lock
  - 2 : Restrict
  - 3 : Change Code
  - 4 : Special # s
  - 5 : Erase All
  - 6 : Reset Phone
- 5 : Others
  - 1 : Answer Options
  - 2 : Auto Retry
  - 3 : Language
  - 4 : Voice Privacy
  - 5 : TTY Mode
  - 6 : Location

## MENU SUMMARY

- |                |   |
|----------------|---|
| 6 : System     | 1 : Set Mode<br>2 : Nam Setting<br>3 : PRL ID<br>4 : ERI Banner |
| 7 : Phone Info | 1 : S/W Version<br>2 : H/W Version<br>3 : Get it now Version    |

### UTILITIES

- |                   |  |
|-------------------|--|
| ▶ 1 : Voice Tools | 1 : Voice Memo<br>2 : Voice Dial<br>3 : Train Words<br>4 : Voice Setting |
| 2 : Schedule      | 1 : Add New Plan<br>2 : View Plan List                                   |
| 3 : Alarm         | 1 : Alarm 1<br>2 : Alarm 2<br>3 : Alarm 3                                |
| 4 : Memo Pad      | 1 : Add Memo<br>2 : View Memo<br>3 : Settings                            |
| 5 : Calculator    |  |
| 6 : World Clock   |  |
| 7 : Stop Watch    |  |

### CAMERA

- |                  |
|------------------|
| ▶ 1 : Take Pix   |
| 2 : Take Flix    |
| 3 : Pix Gallery  |
| 4 : Flix Gallery |
| 5 : Help         |

## BASIC FUNCTIONS

### MAKING A CALL

1. Enter a phone number.

- **To modify the phone number you have entered:**

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

2. Press .

The indicator , appears on the display.

- **If "CALL FAILED" appears on the display or the line is busy, press  or .**
- **If you activate the "AUTO RETRY" function, the phone will automatically retry for the number of times you have selected. (refer to page 73)**
- **If the number you're calling is stored in the phone book, the name and number will appear when the call is placed.**
- **There is another way to make a call through the VR mode, which is called "VAD (Voice Activated Dialing)". Please refer to page 86 (Voice Service) for details on making calls using VAD.**

3. To end a call, press .

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

## BASIC FUNCTIONS

### PAUSE FEATURE

You can dial or save a phone number with pauses for use in the automated systems where you need to enter a credit card number, a social security number, and so on. This feature will be convenient when you are linked to ARS (Advanced Record System).

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.

- **Hard Pause:** When connecting to the ARS, it enables to go to the next number, by either pressing  or .
- **Time Pause:** When connecting to the ARS, it allows to go to the next number after 3 seconds.

### SPEAKER PHONE

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

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

## BASIC FUNCTIONS

### ANSWERING A CALL

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

- **In the Settings menu, you can select either "Any Key" or "Send Key" to answer a call. If "Send Key" is selected, the phone can only be answered by pressing . See page 72 for more information.**

2. To end the call, press .

- NOTE:** In Auto Answer Mode, a call is automatically answered after a preset time of ring tones. See page 73 for more details.

### 3 WAY CALL FUNCTION

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

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

- NOTE:** 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.

## BASIC FUNCTIONS

### CALL WAITING FUNCTION

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

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

*Since Call Waiting is system dependant, the displayed Caller ID may be different from real communicator.*

### ADJUSTING VOLUME

Adjusts the volume in two ways: by using the volume control keys on the side of the handset, or by using the menu.

1. Press  [MENU]    and select one of the following. To increase the volume press the Navigation Key upwards or to the right. To lower the volume, press it downwards or to the left.

- **Ringer:** Controls the ringer volume.
- **Key Tone:** Controls the keypad tone volume.
- **Voice Call:** Controls the earpiece volume.
- **Speaker Phone:** Controls the speaker volume in speaker Phone mode.

2. Adjust volume and press  [OK] to save it.

**NOTE:** Press the volume keys on the side of the phone or navigation key (left or right) to adjust volume of microphone during a call.

## BASIC FUNCTIONS

### ETIQUETTE

Mutes key tones and activates the vibration mode to alert you of an incoming call or message.

1. To turn etiquette mode on/off, press and hold .

### LOCK

Locks your phone and prevents unauthorized use. Phone can only be used after inputting the password.

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

- **Lock feature will deactivate when the phone is powered off. Upon next powered up, you will need to press  to lock phone again.**

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

### 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. This feature is system dependent. Please contact your service provider for details.

**NOTE:** The caller ID is stored in the call history.

## FUNCTIONS DURING A CALL

To display menu options during a call, press  [MENU]. These menu items are available while you are on a call.

### MESSAGING

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

1. Press  [MENU]  .

### MUTE (UNMUTE)

Mutes the microphone while you are on a call so the other party cannot hear you if you speak.

1. Press  [MENU]  .

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

### SCRATCHPAD

Allows you to enter a phone number during a call so it can be dialed later. The other party cannot hear the key presses.

1. Press  [MENU]  .

- **To deactivate it, press  [MENU]  .**

## FUNCTIONS DURING A CALL

### SEND MY PHONE #

Automatically transmits your phone number to a pager during a call without manually entering the number.

1. To transmit your phone number during a call, press  [MENU]  .

### MY PHONE #

Enables you to see your phone number while on a call. Please see page 46 for more details.

1. Press  [MENU]  .

### VOICE PRIVACY

Enhances voice privacy during a call.

1. Press  [MENU]  .
2. Select "Enhance" or "Standard" and press  [OK] to save it.

**NOTE:** *Enhanced voice privacy is a network dependent feature. Standard voice privacy is the default setting.*

## FUNCTIONS DURING A CALL

### LOCATION

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

1. Press  [MENU]  .

2. Select “911 Only” or “Location On” and press  [OK] to save it.

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

### PHONE INFO.

Enables you to view handset information while on a call. Please see page 78 for more details.

1. Press  [MENU]  .

## MAKING AN EMERGENCY CALL

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

### 911 IN LOCK MODE

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

1. Enter “911” and press  .

2. The call connects.

3. The phone exits the Lock Mode for 5 minutes.

4. To end a emergency mode, press  .

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

### 911 USING ANY AVAILABLE SYSTEM

1. Enter “911” and press  .

2. The call connects.

3. The phone maintains the Emergency Mode for 5 minutes.

4. To end a emergency mode, press  .

- **The phone continuously attempts to receive service from any available system.**

**NOTE:** *The 911 call is not recorded in the Call History.*

## MEMO

# Chapter 3

## MEMORY FUNCTION

This chapter addresses numerous functions including saving phone numbers to the internal phone book, entering text and accessing call logs.

- Storing Phone Numbers
- Text Input Methods
- Speed Dialing
- Phone Book
- Recent Calls

## STORING PHONE NUMBERS

The phone book stores up to 300 entries.

1. Enter phone # and press  [SAVE].
2. Choose "New Contact" or "Existing Contact".  
Press  [OK] to select.
3. The Phone # will appear above a list of icons.  
The name of the icon is displayed below the list.  
Use the Navigation key to choose the type of # you're adding, as indicated by the icon.  
Press  [OK] to select.
4. Enter a name and press  [OK].  
Follow instructions for entering text on page 35.  
To change the input mode, press  [Abc].
5. Use the Navigation key to scroll through more options for the entry (group, other numbers, ringer).

-  **Mobile**
-  **Home**
-  **Office**
-  **Pager**
-  **FAX**
-  **E-Mail: Enter E-Mail address.**
-  **Wireless Addr.: Enter Wireless address.**
-  **Group: Personal, Business, Etc.**
-  **Ringer: Select Ringer Type.**
-  **Msg. Ringer: Select Msg. Ringer Type.**
-  **Graphic: Select take a picture Image.**
-  **Memo: Enter memo.**
-  **Set Secret: Lock, Unlock.**

6. To store the entry, press  [SAVE].  
"New contact added!" or "Contact edited!" will be displayed.

## TEXT INPUT METHODS

### ENTERING CHARACTERS

For convenient entry of memory location names and text messages, your phone offers several text input methods:

**Abc mode:** Enters words by repeatedly tapping the corresponding key until the desired character is displayed.

**T9WORD:** Tap each corresponding key only once and the phone predicts the word you are entering.

**Numeric mode:** Only enters numbers.

**Symbol mode:** Enters symbols like @, #, %.

### ALPHA MODE [ABC]

Use the digit keys to enter letters, numbers and characters.  
Enter letters using the keypad as follows:

Key Pad	1 Repetition	2 Repetitions	3 Repetitions	4 Repetitions	5 Repetitions
1	1	.	@	-	'
2ABC	A	B	C	2	...
3DEF	D	E	F	3	...
4GHI	G	H	I	4	...
5JKL	J	K	L	5	...
6MNO	M	N	O	6	...
7PQRS	P	Q	R	S	7
8TUV	T	U	V	8	...
9WXYZ	W	X	Y	Z	9

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. There is a 16-letter limit.**
- **To delete one digit, press  [CLR].**
- **To delete the entire entry, press and hold  [CLR].**
- **To change from lowercase to uppercase, press  located on the side of the phone.**

## TEXT INPUT METHODS

### T9™ PREDICTIVE TEXT MODE [T9™ABC]

To choose T9™ mode from the Editor screen press  [Abc], then choose [T9WORD]. This mode predicts the words you are entering using a built-in dictionary. With T9™ predictive text input, you press each key only once for each letter. The chart below outlines how to use T9™ text input.

KEY	FUNCTION
 Mode	Press to change mode. [T9Word][Abc][123][Symbol mode].
 Next	Press to view the next matching word if the highlighted word is not the word you intended.
 Space	Press to accept a word and add a space.
 Shift	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.
 Clear	Press to delete a character to the left of the cursor.
 Save	Store the letters and numbers you enter.

## TEXT INPUT METHODS

1. Press each key once for each letter of the word you are writing.

- To write **John** with the English dictionary selected:

1. Press 5 once - (for - k)
2. Press 6 once - (for - km)
3. Press 4 once - (for - log)
4. Press 6 once - (for - john)

**NOTE:** *The display shows for each key pressed.*

2. Press  until the correct word is displayed.

3. To select the correct word, press  .  
If the T9 mode does not recognize or suggest the word you want to enter, re-enter the name in the Alpha ABC mode.

**NOTE:** *In case of inputting sentence at once in T9WORD Mode, press  to move the cursor to the right after inputting a word then input next word you want.*

## TEXT INPUT METHODS

### NUMERIC MODE [NUM]

Numeric mode allows you to add a number to your entry/message. To select numeric mode from the Editor screen press  [Abc], then select [NUM].

### SYMBOL MODE [SYM]

Symbol mode allows you to add various symbols to your entry. Whether you are adding an e-mail address to your phone book or sending an expressive message, symbols make these entries easier.

To select symbol mode from the Editor screen press  [MODE] then choose [Symbols].

The symbols will appear on the display.

The corresponding key number for that symbol will appear as well. You can press the key to select the symbol .

To move to the next screen of symbols press .

## SPEED DIALING

### SPEED DIAL

Dials a number simply by pressing and holding its Speed Dial location number. For a 2-digit location number, press the first number then press and hold the second number. To store a number in Speed Dial:

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 the navigation key to delete.*

3. The phone book list will be displayed alphabetically. Select a name and press  [OK].

4. "Speed dial # X edited!" will be displayed.

● *A phone number that is set as secret will ask a password.*  
● *Possible to phone with press & hold the last digit of speed dial #.*

### 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 the corresponding memory number and hold 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.*  
● *If a phone number is stored in secret, you must enter the password to make a call.*  
● *"1" key is used for One-Touch voicemail (\*86) feature.*

## PHONE BOOK

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 or number, and calls the number by simply pressing . On Standby Screen, you may press as well.

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. Use navigation key to select the name.
3. Enter a name or its character string or scroll through the list with the Navigation Key. Please refer to page 35 for instructions on entering letters, numbers and symbols.
4. Display shows the list beginning with the letter you entered. Highlight an entry.  
Press [OK] to edit the entry. Press [MENU] to
  1. Send Text Msg, 2. Send Pix Msg, 3. Send Flix Msg,
  4. Erase or 5. Prefix.

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

5. To call the selected number, press .

## PHONE BOOK

### ADD NEW

Adds a new entry to the phone book. Please refer to page 34 for alternate way to add an entry to the phone book.

1. To add a new entry to the phone book, press [MENU] .
2. The first field highlighted is Name. Enter the name for the entry, then press [OK].
 

● **PHONE BOOK FIELD:** Name/Mobile/Home/Office/Pager/Fax/E-Mail/Wireless Addr./Group/Ringer/Msg.Ringer/Graphic/Memo/Set Secret.
3. Press the Navigation Key down to enter all the other information (group, phone number, etc.).
4. When all information for the entry is entered, press [SAVE] to save the entry.

## PHONE BOOK

### GROUP

Allows you to classify phone entries into groups. Existing groups include Personal, Business, Etc. and All.

#### ADD NEW GROUP

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

#### CHANGE GROUP NAME

1. Press [MENU] .  
Select an existing group name.

**NOTE:** *Default group name(All, Personal, Business, Etc.) cannot be changed.*

2. Press [MENU] then select "Rename".
3. Input a new group name.
4. Press [OK] to save it.

## PHONE BOOK

### ERASE GROUP

1. Press [MENU] .  
Select an existing group name.
2. Press [ERASE] to delete it.  
"Erase this group?" will be displayed.
4. Press [OK] again to confirm it.

### SPEED DIAL

Calls can be placed to numbers stored in speed dial by pressing & holding the last digit of speed dial # on the keypad.

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 [OK] to delete.*
3. The phone book list will be displayed alphabetically. Select a name and press [OK].
4. "Speed dial # X edited!" will be displayed.

## PHONE BOOK

### MSG. GROUP

Allows the user to group up to 10 phone number.  
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] then select "Add Group".
3. Input a new group name.
4. Press [OK] to save it.

#### CHANGE MSG. GROUP NAME

1. Press [MENU] .  
Select an existing group name.
2. Press [MENU] then select "Rename".
3. Input a new group name.
4. Press [OK] to save it.

## PHONE BOOK

### SEND TEXT MSG.

1. Press [MENU] .  
Select an existing group name.
2. Press [MENU] then select "Send Text Msg.".
3. Input a "Messages", "Default CB#", "Priority", and "Insert".
4. Press [MENU] then select "Send" or "Save Msg". Press .  
Please refer to page 111 for more details on "New Text Msg".

### SEND PIX MSG.

1. Press [MENU] .  
Select an existing group name.
2. Press [MENU] then select "Send Pix Msg.".
3. Input a "Messages", "Subject", "CC", "BCC", "Priority" and "Expiration".
4. Press [MENU] then select "Send", "Preview" or "Save Msg". Press .  
Please refer to page 113 for more details on "New Pix Msg".

## PHONE BOOK

### SEND FLIX MSG

1. Press [MENU] .  
Select an existing group name.
2. Press [MENU] then select "Send Flix Msg".
3. Input a "Messages", "Subject", "CC", "BCC", "Priority" and "Expiration".
4. Press [MENU] then select "Send", "Preview" or "Save Msg". Press .  
Please refer to page 115 for more details on "New Flix Msg".

### ERASE MSG. GROUP

1. Press [MENU] .  
Select the group name to be deleted.
2. Press [ERASE] to delete it.  
"Erase this message group?" will be displayed.
3. Press [OK]. "This message group erased" will be displayed.

### MY PHONE #

To display your phone number and service provider:

1. Press [MENU] .
2. To display your phone number and service provider.  
To return to the previous page, press [OK].

## RECENT CALLS

To access Recent Calls from the idle mode, press [MENU] .

### ALL CALLS

Displays information about the 60 most recent numbers dialed, missed and received. Places a call to a selected number by simply pressing .

1. To see a list of the 60 most recent 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 call details, press [OK].

**NOTE:**

- Call details include date, time, and phone number.
- When the Phone# is in contact and the entry is set in secret, the name is not displayed.

3. Press [MENU], [SAVE] to save the number or press [ERASE] to delete it.

- **Save:** To store the phone number in your phone book.
- **Prefix:** The user may add the desired number before the number. It is useful when you add "1" during long distance call. You may save it in the phone book after Prefix.
- **Send Text Msg:** To send a message the phone number.
- **Send Pix Msg:** To send a photo message the phone number.
- **Send Flix Msg:** To send a video mail the phone number.
- **Erase all:** To erase recent calls list.

**NOTE:** After 20 received, dialed or missed calls, the oldest call will automatically be erased from the history.

## RECENT CALLS

### MISSED CALLS

Displays information of the 20 most recently missed calls. Place a call to a missed call number by simply pressing .

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

**NOTE:** Call details include date, time and phone number.

- Press  [MENU],  [SAVE] to save the number or press  [ERASE] to delete it.

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

**NOTE:** After the 20<sup>th</sup> missed call, the oldest call will automatically be erased from the history.

## RECENT CALLS

### RECEIVED CALLS

Displays information of the 20 most recently answered calls. Place a call to a received number by simply pressing .

- To see a list of the 20 most recently received 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.
- To view received call details, press  [OK].

**NOTE:** Call details include date, time and phone number.

- Press  [MENU],  [SAVE] to save the number or press  [ERASE] to delete it.

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

**NOTE:** After the 20<sup>th</sup> received call, the oldest call will automatically be erased from the history.

## RECENT CALLS

### DIALED CALLS

Displays information of the 20 most recently dialed calls. Place a call to a received number by simply pressing .

- To see a list of the 20 most recently dialed 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.
- To view dialed call details, press  [OK].

**NOTE:** Call details include date, time and phone number.

- Press  [MENU],  [SAVE] to save the number or press  [ERASE] to delete it.

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

**NOTE:** After the 20<sup>th</sup> dialed call, the oldest call will automatically be erased from the history.

## RECENT CALLS

### CALL TIMERS

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

#### LAST CALL

Displays talk time of last call.

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

#### ALL CALLS

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

- Press  [MENU]   .
- The time of the following items is displayed:
  - **Voice Calls, Data/Fax Calls**
- To return to the previous page, press  [OK].

**NOTE:** You cannot reset this timer.

**NOTE:** You may also navigate to the next or previous second-level menu (Last Calls, All Calls, Home Calls, Roam Calls, Cumulative Calls) by pressing the navigation key right or left.

## RECENT CALLS

### HOME CALLS

Displays talk time of all calls made within Home area.

1. Press [MENU] .
2. The time of the following items is displayed:
  - **Voice Calls, Data/Fax Calls**
3. To reset the timer, press [RESET].  
To return to the previous page, press [OK].

### ROAM CALLS

Displays talk time of roaming calls.

1. Press [MENU] .
2. The time of the following items is displayed:
  - **Voice Calls, Data/Fax Calls**
3. To reset the timer, press [RESET].  
To return to the previous page, press [OK].

**NOTE:** You may also navigate to the next or previous second-level menu (Last Calls, All Calls, Home Calls, Roam Calls, Cumulative Calls) by pressing the navigation key right or left.

## RECENT CALLS

### CUMULATIVE CALLS

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

1. Press [MENU] .
2. The time of the following items is displayed:
  - **Voice Calls, Data/Fax Calls**
3. To reset the timer, press [RESET].  
To return to the previous page, press [OK].

**NOTE:** You may also navigate to the next or previous second-level menu (Last Calls, All Calls, Home Calls, Roam Calls, Cumulative Calls) by pressing the navigation key right or left.

## RECENT CALLS

### 1X PACKET COUNTER

Checks the log of all kilobyte data transmissions.

#### RECEIVED

To show the received kilobyte usage on a user definable interval.

1. Press  [MENU]    .
2. To reset the counter, press  [RESET].  
To return to the previous page, press  [OK].

#### TRANSMITTED

To show the transmitted kilobyte usage on a user definable interval.

1. Press  [MENU]    .
2. To reset the counter, press  [RESET].  
To return to the previous page, press  [OK].

#### TOTAL

To show the received or transmitted kilobyte usage on a user definable interval.

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

# Chapter 4

## SETTINGS

This chapter addresses customizing your phone by adjusting backlighting, volume, ring tones and other user-friendly features.

- Settings
- Media Gallery

## SETTINGS

### SOUNDS

Sets Ringer Type, Volume, Alerts, Roam Ringer, Tone Length and Key Tone.

#### RINGER TYPE

To select a ringer type for incoming calls:

#### RINGER

1. Press [MENU] .

2. Select one of the pre-installed 20 music bells and 5 ring tones.

3. To confirm, press [OK].

#### MESSAGES

To select a ringer type for receiving messages:

1. Press [MENU] .

2. Select a tone (1-5).

3. To confirm, press [OK].

#### VOICE MAIL

To select a ringer type for receiving voice mail:

1. Press [MENU] .

2. Select a tone (1-5).

3. To confirm, press [OK].

**NOTE:** To stop playing a ringer, press [PAUSE].

## SETTINGS

### VOLUME

Controls the Ringer, Key and Voice Call volume and alerts you to incoming calls in a variety of modes.

#### RINGER

Controls the Ringer volume and alerts you to incoming calls in the following modes.

1. Press [MENU] .

2. Select one of the following options:

- **Silent: Mute the ringer, press [Min].**
- **Ringer Off**
- **Vibrate On**
- **Ringer Mode: Volume Levels 1-5.**
- **High & Vib: The ringer sounds after vibration,**
- **Vib to High: The vibration after ringer sounds, press [Max].**

3. To confirm, press [OK].

#### KEY TONE

To adjust keypad tone:

1. Press [MENU] .

2. Adjust the keypad tone.

- **Off/Level1-5 (Min- , Max- )**

3. To save, press [OK].

## SETTINGS

### VOICE CALL

To adjust earpiece volume:

1. Press **[MENU]** **[7]** **[1]** **[2]** **[3]** .

2. Adjust the earpiece volume.

● **Level1-5 (Min- [ ] , Max- [ ] )**

3. To save, press **[OK]** [OK].

### SPEAKER PHONE

To adjust speaker volume:

1. Press **[MENU]** **[7]** **[1]** **[2]** **[4]** .

2. Adjust the speaker phone volume.

● **Level1-5 (Min- [ ] , Max- [ ] )**

3. To save, press **[OK]** [OK].

### ALERTS

Allows you to set an alert that sounds when the following handset changes occur.

#### MINUTE

Sounds an alert every minute of a phone call.

1. Press **[MENU]** **[7]** **[1]** **[3]** **[1]** .

2. Select "Off" or "On" then press **[OK]** [OK] to save it.

## SETTINGS

### ROAM

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

1. Press **[MENU]** **[7]** **[1]** **[3]** **[2]** .

2. Select "Off" or "On" then press **[OK]** [OK] to save it.

### CONNECT

Notifies you that a call has been successfully placed.

1. Press **[MENU]** **[7]** **[1]** **[3]** **[3]** .

2. Select "Off" or "On" then press **[OK]** [OK] to save it.

### FADE

Sounds an alert every minute of a phone call.

1. Press **[MENU]** **[7]** **[1]** **[3]** **[4]** .

2. Select "Off" or "On" then press **[OK]** [OK] to save it.

### ON/OFF TONES

Sounds an alert power on/off tone.

1. Press **[MENU]** **[7]** **[1]** **[3]** **[5]** .

2. Select "Off" or "On" then press **[OK]** [OK] to save it.

### FLIP SOUND

Sounds an alert flip open/close sound.

1. Press **[MENU]** **[7]** **[1]** **[3]** **[6]** .

2. Select "Off" or "On" then press **[OK]** [OK] to save it.

## SETTINGS

### ROAM RINGER

Sounds a different ringer when you are in a roaming service area.

1. Press [MENU] .
2. Select “Distinctive” or “Normal” then press [OK] to save it.

### -tone type

To adjust key tone type:

1. Press [MENU] .
2. Select “Normal” or “Voice” then press [OK] to save it.

### tone length

To adjust key tone length:

1. Press [MENU] .
2. Select “Normal” or “Long” then press [OK] to save it.

### ETIQUETTE

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

1. Press [MENU] .
2. Select “On” or “Off” then press [OK] to save it.

## SETTINGS

### DISPLAY

This feature allows you to customize and personalize your phone display.

### MENU STYLE

To select an display menu style:

1. Press [MENU] .
2. Select “Graphic”, “Grid” or “List” and press [OK] to save it.

### GRAPHICS

To select an LCD display:

### WALLPAPER

1. Press [MENU] .
2. Select “Tree”, “Digital Clock1,2”, “Analog Clock 1,2” or Downloaded picture through Network or received picture by Picture Msg.
3. To save it, press [OK].

### POWER ON

1. Press [MENU] .
2. Select “Verizon Wireless” with the Navigation key.

## SETTINGS

### POWER OFF

1. Press [MENU] .
2. Select "Verizon Wireless" with the Navigation key.

### RECEIVED

1. Press [MENU] .
2. Select "Default" or "Pix #" with the Navigation key.
3. To save it, press [OK].

### DIALED

1. Press [MENU] .
2. Select "Default" with the Navigation key.
3. To save it, press [OK].

### SCREEN SAVER

Set the time of Screen Saver and select Image, then the Image will be displayed on LCD. Input Key to repeat Image disappearing.

1. Press [MENU] .
2. Select "Time Setting" to set the amount of time the screensaver is displayed (Off, 5 secs, 10 secs, 20 secs, 30 secs).
3. Select a "Screen Saver" from the list.  
(Received image/Download image/Pix).
4. Press [OK] to save it.

## SETTINGS

### SUB SCREEN

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

### GREETING MESSAGE

To input a personal greeting:

1. Press [MENU] .
2. Select "MSG", "Font Color", "Bg" or "Entry Message" to personalize your greeting.  
Press [OK].

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

3. To save, press [OK].

## SETTINGS

### CONTRAST

To adjust the display contrast:

1. Press  [MENU]   .
2. Select "Main LCD" or "Sub LCD" then select one of the following options with the Navigation Key.

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

3. To save, press  [OK].

### BACKLIGHT

Backlights the display and keypad for easy viewing in dark places.

1. Press  [MENU]   .
2. Select "LCD" or "Keypad" and select one of the following options.

- **LCD: 5 Secs/15 Secs/30 Secs/60 Secs/Always On.**
- **Keypad: 5 Secs/15 Secs/30 Secs/60 Secs/Always On/Always Off.**

3. To save, press  [OK].

## SETTINGS

### DATA SVC.

Allows you to transfer data when your phone is connected to a PC.

### CONNECTION

Select a connection mode based on the handset usage.

1. Press  [MENU]   .

2. Select one of the following connection modes:

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

3. To save, press  [OK].

## SETTINGS

### SECURITY

Prevents others from using the phone without permission and allows access to security features only after inputting a password.

#### PHONE LOCK

Prevents others from using your phone without permission. When locked, calls cannot be made and the menu cannot be accessed without a password.

1. Press [MENU] and enter "Password".

**NOTE:** *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 lock the phone now, but it is automatically locked when power recycled.*
- **Unlock:** *Do not lock the phone.*

3. To save, press [OK].

## SETTINGS

### RESTRICT

When you attempt to make a restricted call, "This phone is restricted" appears on the screen.

#### DIALED

Blocks all dialed calls – except emergency calls – but allows incoming calls to be answered.

1. Press [MENU] and enter "Password".
2. Press and select "Allow" or "Restrict".

- **Allow:** *Allows dialed calls.*
- **Restrict:** *Restricts dialed calls.*

3. To save, press [OK].

#### RECENT CALLS

Blocks access to Recent Call List.

1. Press [MENU] and enter "Password".
2. Press and select "Allow" or "Restrict".

- **Allow:** *Allows access to the recent calls menu.*
- **Restrict:** *Restricts access to the recent calls menu.*

3. To save, press [OK].

## SETTINGS

### CAMERA

Restricts access to camera mode.

1. Press [MENU] and enter "Password".

2. Press and select "Allow" or "Restrict".

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

3. To save, press [OK].

### DATA CALL

Restricts data calls from being placed.

1. Press [MENU] and enter "Password".

2. Press and select "Allow" or "Restrict".

- **Allow:** Allows data calls.
- **Restrict:** Restricts data calls.

3. To save, press [OK].

### 900 #'S

Restricts calling 900 dial service numbers.

1. Press [MENU] and enter "Password".

2. Press and select "Allow" or "Restrict".

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

3. To save, press [OK].

## SETTINGS

### LONG DISTANCE

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

1. Press [MENU] and enter "Password".

2. Press and select "Allow" or "Restrict".

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

3. To save, press [OK].

### CHANGE CODE

Changes your 4-digits password.

1. Press [MENU] and enter "Password".

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

2. Press .

3. Enter a new password and press [OK].

4. Enter the new password again and press [OK].

## SETTINGS

### SPECIAL #'S

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

1. Press [MENU] and enter "Password".

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

2. Press and select a location.

3. Press ~ then input a phone number, press [OK] again to save.

**NOTE:** *You can delete a special number by selecting it, pressing [ERASE], then [Ok].*

### ERASE ALL

Clears all phone book, downloads, pix gallery, flix gallery and memory stick entries.

1. Press [MENU] and enter "Password".

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

2. Press .

3. Select "Phone Book", "Downloads", "Pix Gallery", "Flix Gallery" with the [CHECK] and press [OK] to erase all the items in those categories.

**NOTE:** *As the data cannot be retrieved, the warning shall be marked.*

## SETTINGS

### RESET PHONE

Resets phone to default settings.

1. Press [MENU] and enter "Password".

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

2. Press .

3. Select "Yes" or "No", then press [OK].

● *When you select "yes" you will see "Phone will restore default settings and power cycle" appear on the display. Press to begin Reset process.*

**NOTE:** *As the data cannot be retrieved, the warning shall be marked.*

## SETTINGS

### OTHERS

#### ANSWER OPTIONS

##### CALL ANSWER

To select an answer mode:

1. Press [MENU] .

2. Select “Any Key” or “Send Key”.

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

3. To save, press [OK].

##### ACTIVE FLIP

Selects an Active Flip Answer mode as follows.

1. Press [MENU] .

2. Select “On” or “Off”.

3. To save, press [OK].

- **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.**

## SETTINGS

### AUTO ANSWER

Automatically answers a call after a preset number of rings. An ideal setting for the hands-free car kit.

Auto Answer only works when the Headset, Car kit is connected to the phone.

1. Press [MENU] .

2. Select “Handset”, “Headset”, or “Hands Free Kit”, then select one of the following options:

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

**NOTE:** This function will not be active when you select Vibrate, Silent, Etiquette, Ringer after Vib or Vib after Ringer as a ringer mode.

3. To save, press [OK].

### AUTO RETRY

Automatically redial a call up to 5 times after a set time interval. Available where signal is weak or where phone hardly comes on.

1. Press [MENU] .

2. Under Retry Time, select a time interval option (Off, 3 Secs, 5 Secs, 7 Secs, 10 Secs). The Repeat Category will appear when a time frame is chosen.

3. Under Repeat, select a time interval option (1 Time, 3 Times, 5 Times).

4. To save, press [OK].

## SETTINGS

### LANGUAGE

Selects the language in which letters are displayed on screen.

1. Press [MENU] .
2. Select either “English” or “Spanish”.
3. To save, press [OK].

### VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

1. Press [MENU] .
2. Select “Standard” or “Enhanced”.
3. To save, press [OK].

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

## SETTINGS

### TTY MODE

Your phone is able to operate with a TTY (Teletypewriter) device in both analog and digital modes. 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**
3. To save, press [OK].

### LOCATION

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

1. Press [MENU] .
2. Select “911 Only” or “Location On”.
  - **911 Only:** *Your location will be hidden from network & application except 911.*
  - **Location On:** *Your location is now available to the network.*
3. To save, press [OK].

## SETTINGS

### SYSTEM

#### SET MODE

Selects the Preferred System.

1. Press [MENU] .

2. Select one of the following options:  
Automatic B, Automatic A, Home only.

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

3. To save, press [OK].

#### 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 "Yes" or "No".

3. To save, press [OK].

## SETTINGS

### CHANGE NAM

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

1. Press [MENU] .

2. Select "NAM1-VERIZON" or "NAM2-VERIZON".

3. To save, press [OK].

#### PRL ID

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

1. Press [MENU] .

2. To return to the previous page, press [OK].

#### ERI BANNER

1. Press [MENU] .

2. Select "Off" or "On".

3. To save, press [OK].

## SETTINGS

### PHONE INFO

To display the version of your phone:

#### S/W VERSION

1. Press [MENU] .
2. The software version appears.
3. Press [OK].

#### H/W VERSION

1. Press [MENU] .
2. The hardware version appears.
3. Press [OK].

#### GET IT NOW VERSION

1. Press [MENU] .
2. The get it now version appears.
3. To return to the previous page, press [OK].

## MEDIA GALLERY

### IMAGES

This menu shows the list of download still image.

1. Press [MENU] .

● Press [MENU] to select 1.Edit Title, 2.Assign, 3.Erase, 4.Erase All, 5.Information.

2. Scroll through the captured pictures to display the picture you want to send and press [SEND].
3. To send "MMS" message, press [SEND].  
To save "MMS" message, press [MENU] then select "Save to Outbox" and press [OK].

### PIX

This menu shows the list of photo which takes with Camera.

1. Press [MENU] .

● Press [MENU] to select 1.Edit Title, 2.Assign, 3.Erase, 4.Erase All, 5.Information.

2. Scroll through the captured pictures to display the picture you want to send and press [SEND].
3. To send "MMS" message, press [SEND].  
To save "MMS" message, press [MENU] then select "Save to Outbox" and press [OK].

## MEDIA GALLERY

### FLIX

This menu shows the list of video which takes with Camera.

1. Press [MENU] .

● Press [MENU] to select 1.Edit Title, 2.Erase, 3.Erase All, 4.Information.

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

3. To send "MMS" message, press [SEND].  
To save "MMS" message, press [MENU] then select "Save to Outbox" and press [OK].

### ANIMATIONS

This menu shows the list of download animations.

1. Press [MENU] .

● Press [MENU] to select 1.Edit Title, 2.Erase, 3.Erase All, 4.Information.

2. Scroll through the download animation to display the picture you want to send and press [SEND].

3. To send "MMS" message, press [SEND].  
To save "MMS" message, press [MENU] then select "Save to Outbox" and press [OK].

## MEDIA GALLERY

### TONES

This menu shows the list of download ringtones.

1. Press [MENU] .

● Press [MENU] to select 1.Edit Title, 2.Erase, 3.Erase All, 4.Information.

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

3. To send "MMS" message, press [SEND].  
To save "MMS" message, press [MENU] then select "Save to Outbox" and press [OK].

# MEMO

## Chapter 5 SUPPLEMENTARY FUNCTIONS

This chapter addresses supplemental functions including the voice tools, schedule, calculator, clock and stopwatch features.

- Voice Tools
- Schedule
- Alarm
- Memo Pad
- Calculator
- World Clock
- Stop Watch
- Camera

## VOICE TOOLS

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

1. Press and hold  until your phone turns to Voice Recognition mode.
2. "Please say the name after the prompt tone" will be displayed and you will hear "Name please".

### NAME

1. Press and hold  until your phone turns to Voice Recognition mode.
2. Say a name or tag that is It's saved without any relationship with Phone Book. The saved items on Voice Dial System may be possible to send. The number and name will appear on the display and you will hear "Calling (name)".

## VOICE TOOLS

### VOICE MEMO

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

1. Press  [MENU]   to start Tools menu.
2. To enter a voice memo, press  .
3. 1.1.To record a voice memo, press  .  
Instructions will be displayed and you will hear "Please record at the tone".
  - 1.2.To stop recording a memo, press  [STOP] or  [PAUSE/RESUME].
  - 1.3.Press  [MENU] after recording a voice memo to "Rerecord" or "Review".
  - 1.4.Press  [SAVE] and input a "Voice Memo" title, then press  [OK] or press  [SEND] to access the "New Pix Msg" see "New Pix Msg" on page 113.
- 2.To play voice memo, press  .  
Select the message you want to play then press  [PLAY] or press  [MENU] to 1. Edit Title 2. Send, press  [ERASE].
- 3.To play speaker mode, press  .  
Select the message you want to play then press  [PLAY] or press  [MENU] to 1. Edit Title 2. Send, press  [ERASE].
- 4.To erase all voice memos, press  .  
"Erase all voice memos?" will be displayed.  
press  [OK] to erase all voice memos.

## VOICE TOOLS

### VOICE DIAL

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

1. Press [MENU] to start Tools menu.
2. To enter a voice dial, press .
3. 1.1. To record a voice dial, press .  
The phone book list will be displayed alphabetically. Select a name and press [OK].  
Instructions will be displayed and you will hear "Name Please".
- 1.2. Say the name for the voice tag and repeat the name when prompted. You will hear "Added".
2. To play voice dial, press .  
Select the message you want to play then press [PLAY] or press [ERASE].
3. To play speaker mode, press .  
Select the message you want to play then press [PLAY] or press [ERASE].
4. To erase all voice dials, press .  
"Removing all voice tags Proceed?" will be displayed.  
Press [OK] to erase all voice dials.

## VOICE TOOLS

### 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 words, "Yes".

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

#### NO

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

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

## VOICE TOOLS

### WAKE-UP

Use to train or untrain the Voice Recognition with the control words, "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  [OK] to undo all trained words.

## VOICE TOOLS

### VOICE SETTING

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

1. Press  [MENU]   .
2. Under "Set Active", select a option "Active Flip" or "Send Key".
3. Under "HFK Mode", select a option "On" or "Off".
4. To save, press  [OK].

## SCHEDULE

Sets an shedule and reminds you of that event.

### ADD NEW PLAN

1. Press [MENU] .
2. Move the Navigation Key left, right, up or down to choose a date in the calendar and press [OK]
3. To select alarm options press the Navigation key downwards.

### DATE SETTING

Use the keypad to change or enter the date then press [OK].

### TIME SETTING

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

### PLAN SETTING

Use the keypad to input a plan message then press [OK].

### SETTING

Select an alert time interval option (On Time, 10 Min Before, 30 Min Before, 1 Hour Before, No Alarm) using the Navigation Key.

### RINGER SETTING

To set a Ringer, press [MENU], then select "Default" or "Change" using the Navigation key. To save it press [OK].

- **Default:** To set default ringer type.
- **Change:** To set custom ringer type.

## SCHEDULE

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

### VIEW PLAN LIST

1. Press [MENU] .
2. Move the Navigation Key to choose an event and press [OK] or [ERASE]. Press [MENU], then select "Erase All" using the Navigation Key.

## ALARM

You can set up to 3 alarms.

1. To display alarm entries, press  [MENU]  .
2. Select one of the entries using the Navigation Key.  
To set a new alarm, choose alarm 1, 2 or 3.  
To edit an existing alarm, select that alarm.  
Press  [OK].
3. Press the Navigation Key down to select alarm options.

### SETTING

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

### DATE SETTING

Use the keypad to change or enter the date for the alarm then press  [OK].

- **Once:** To enter the date filed.
- **Daily:** Don't editing filed
- **Weekly:** To select "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday".
- **Monthly:** To select 1-31.
- **Off**

### TIME SETTING

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

### SNOOZE SETTING

Use the Navigation key to select a Snooze setting (No Use, 1 time after 5 min, 1 time after 10 min, 3 times by 5 min).

## ALARM

### RINGER SETTING

To set a "Ringer" press  [MENU], then select "Default" or "Change" using the Navigation key. To save it press  [OK].

- **Default:** To set default ringer type.
- **Change:** To set custom ringer type.

### PLAN SETTING

Using the keypad input an alarm message then press  [OK].

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

## MEMO PAD

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

### ADD MEMO

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

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

### VIEW MEMO

To view a saved memo:

1. 1.1. Press [MENU] .
  - 1.2. To erase a memo, press [ERASE].
  - 1.3. To add a new memo, press [MENU] "New Memo".
  - 1.4. To erase all memo, press [MENU] "Erase All".
2. The list of all memos, in saved order, is displayed.  
Select a memo and press [OK].
3. The selected memo will appear. To edit it, press [MENU], select "Edit" and input a new text memo.

## MEMO PAD

### SETTINGS

To select memo pad background image:

1. Press [MENU] .
2. Select "Drop", "Sky", "Snow", "Candy", or "Pattern", then press [OK].

## CALCULATOR

To access the calculator:

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

**Input 8.**

*Move the Navigation key to the right.*

*Input 6 and press the Navigation key to the left.*

*Input 4 and press the Navigation key down.*

*Input 2 and press the to input (.).*

*Press 5, .*

3. To reset, press [RESET].

**NOTE:** : ×, : −, : ÷, : +, : .,  
 : Reset, : =.

## WORLD CLOCK

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

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

● *Use the Navigation key to select another city.*

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

## STOP WATCH

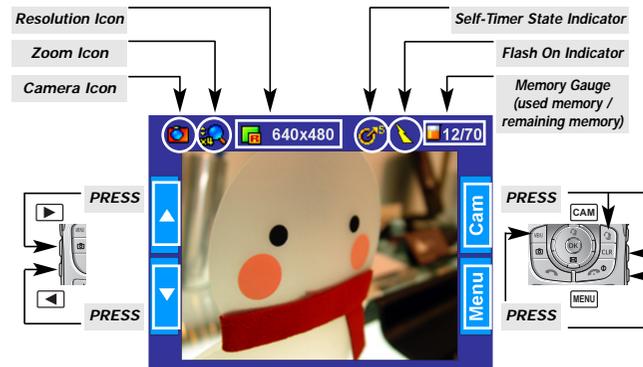
Simultaneously times up to six different events. To operate the stop watch:

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

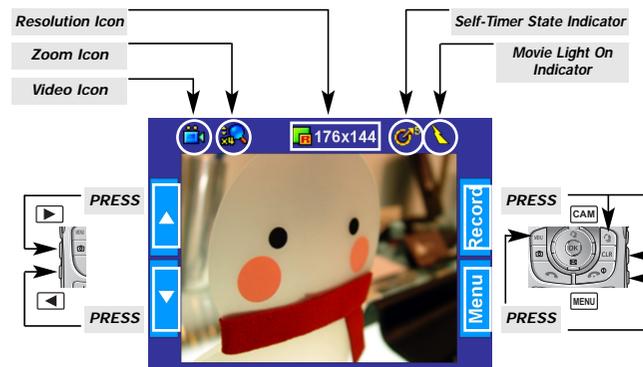
## CAMERA (USE CAMERA)

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

### DISPLAY INDICATORS (PICTURE)

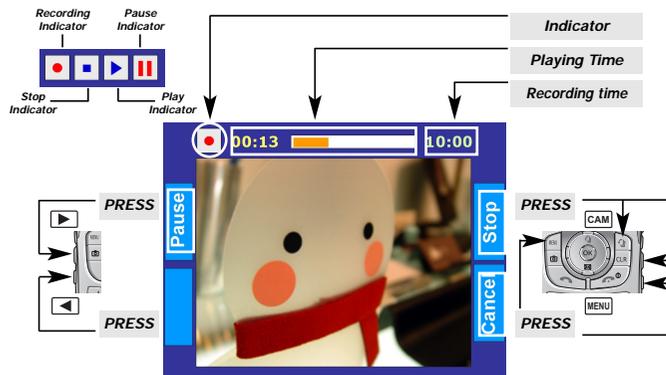


### DISPLAY INDICATORS (VIDEO)

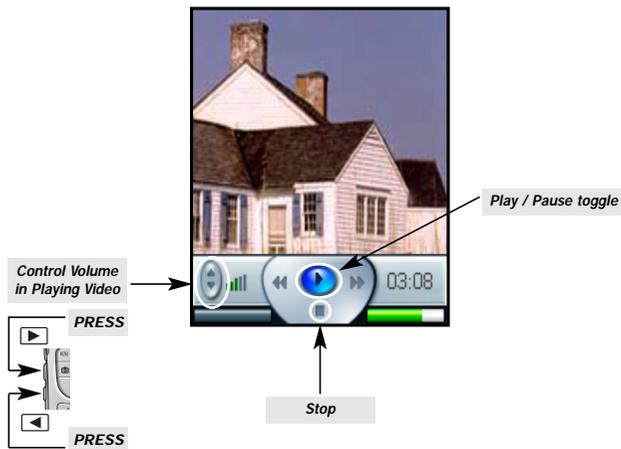


## CAMERA (USE CAMERA)

### DISPLAY INDICATORS (RECORDING VIDEO)



### DISPLAY INDICATORS (VIDEO PLAYER)



## CAMERA (USE CAMERA)

### TO TAKE A PICTURE FROM THE MENU

1. Press **[MENU]** **[SH]** **[1/2]**.  
(Please Rotate LCD 90 Degrees)
2. Point the camera lens at your subject. You can check the picture framing through the main display screen.
3. Press **[CAM/REC]** or **[CAM]** to take the picture.
4. To save the picture, press **[SAVE]**.  
To go back to idle mode without saving the picture, press **[END]**. To send the picture to someone, press **[SEND]** or **[CAM]**. Please refer to page 113 for more details on "New Pix Msg".

● You may receive a call anytime. If an inbound call is coming into, View finder mode is quitted and takes the call. However, SMS or Picture Msg may not inform you the receiving status of a call before the camera mode quits.

### TO TAKE A PICTURE IN IDLE MODE

1. Press **[OK]** or **[CAM]** then **[1/2]**.  
(Please Rotate LCD 90 Degrees)
2. Point the camera lens at your subject. You can check the picture framing through the main display screen.
3. Press **[CAM/REC]** or **[CAM]** to take the picture.
4. To save the picture, press **[SAVE]**.  
To go back to idle mode without saving the picture, press **[END]**. To send the picture to someone, press **[SEND]** or **[CAM]**. Please refer to page 113 for more details on "New Pix Msg".

## CAMERA (TAKE PIX)

1. Press [MENU] or or or [CAM].  
(Please Rotate LCD 90 Degrees)
2. Point the camera lens at your subject. You can check the picture framing through the main display screen.
3. Press [CAM] or to take the picture.
- 4.1 To save take the picture, press [SAVE].
- 4.2 To send pix message, press [SEND] or .  
Please refer to page 113 for more details on "New Pix Msg".
- 4.3 To return take picture mode, press [CANCEL] or [CANCEL].

- **ZOOM (preview):** or zoom in/ or zoom out
- **POPUP MENU:** Press / in current popup menu.

## CAMERA (TAKE PIX)

### CAMERA MODE OPTIONS

Press [MENU] or to access the camera mode options.

- **Flash:** To activate the flash function.  
(Off/Auto Flash/Always On/On This Shot)
- **Self Timer:** To activate the camera's timer function.  
(Off/5 Secs/10 Secs)
- **Self Portrait:** To rotate 180° the viewfinder to the LCD.  
Take a picture of yourself by checking the view on the LCD. (Off/On)
- **Add/No Frames:** Select your favorite fun picture frame to decorate your picture.  
(Flower/Mask/Sweet Heart/Fist-Punch/Sports/Stars/Candle/Event/Roses/Lips/Sea/Sky/Snowman/Tropics/Window)
- **Brightness:** Press (0~+2) or press (0~-2) to select brightness control.
- **Quality:** To select a picture quality. (High/Medium/Low)
- **Contrast:** Press (0~+2) or press (0~-2) to select contrast control.
- **Resolution:** To select a resolution for a picture.  
(1280X960/1024X768/640X480/320X240/176X144/160X120)
- **Shutter Sound:** To select a shutter sound. (Off/Default)

## CAMERA (TAKE FLIX)

1. Press [MENU] .  
(Please Rotate LCD 90 Degrees)
2. Point the camera lens at your subject. You can check the picture framing through the main display screen.
- 3.1 Press [REC] or to take the video.
- 3.2 Press [PAUSE] to pause the video record.
- 3.3 Press [STOP] or to stop the video record.
- 4.1 To save take the video, press [SAVE].
- 4.2 To replay take video, press [REPLAY].
- 4.3 To send flix message, press [SEND] or .  
Please refer to page 115 for more details on "New Flix Msg".
- 4.4 To return take picture mode, press [CANCEL] or .

- **POPUP MENU:** Press / in current popup menu.

## CAMERA (TAKE FLIX)

### CAMERA MODE OPTIONS

Press [MENU] or to access the camera mode options.

- **Movie Light:** To activate the movie flash function. (Off/Always On)
- **Self Timer:** To activate the camera's timer function. (Off/5 Secs/10 Secs)
- **Self Portrait:** To rotate 180° the viewfinder to the LCD. Take a picture of yourself by checking the view on the LCD. (Off/On)
- **Brightness:** Press (0~+2) or press (0~-2) to select brightness control.
- **Contrast:** Press (0~+2) or press (0~-2) to select contrast control.
- **Mute:** Phone is mute during recoding video. (Off/On)

## CAMERA (PIX GALLERY)

1. Press  [MENU]   or   .
2. In Review Mode you can view all the pictures you have taken, store selected images in your phone.
3. Select photo image with the Navigation key.
4. To send pix message, press  [SEND].  
Please refer to page 113 for more details on "New Pix Msg".

### PIX GALLERY OPTIONS

Press  [MENU] to access the in pix options.

- **Edit Title:** To edit the picture's title.
- **Assign:** To assign the picture image.  
(Wallpaper/Picture Caller ID/Screen Saver/Incoming Call)
- **Take New Pix:** To return to Camera mode to take another picture.
- **Erase:** To erase selected pictures.
- **Erase All:** To erase all the pictures in your phone.
- **View List:** To view saved pictures list.
- **Information:** To display pictures information such as resolution, picture quality, file size, etc.

## CAMERA (FLIX GALLERY)

1. Press  [MENU]   or   .
2. In Review Mode you can view all the videos you have record, store selected images in your phone.
3. Select record video with the Navigation key.
4. To send flix message, press  [SEND].  
Please refer to page 115 for more details on "New Flix Msg".

### FLIX GALLERY OPTIONS

Press  [MENU] to access the in video options.

- **Edit Title:** To edit the video's title.
- **Playback:** To play back the video you just took.
- **Take New Video:** To return to Video mode to take another video.
- **Erase:** To erase the video you just took.
- **Erase All:** To erase all the video you just took.
- **Information:** To display video information such as resolution, time/date,size,etc.

# Chapter 6

## **VOICE MAIL AND TEXT, PIX, FLIX MESSAGES**

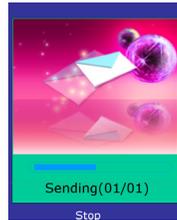
This chapter addresses checking voice mail messages, as well as sending and receiving text, pix or flix messages.

- When a New Message Arrives
- New Text MSG
- New Pix MSG
- New Flix MSG
- Inbox
- Outbox
- Web Alerts
- Saved
- Quick Text
- Erase All
- Settings

## WHEN A NEW MESSAGE ARRIVES

### TEXT, PIX, FLIX MESSAGE

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



### VOICE MAIL

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

1. To access your voice mail, press [MENU] [SEND] [4CH] or press [READ] [4CH].



## NEW TEXT MSG

To send a new message:

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

● **By pressing [MENU], the user can choose from the following:**

1. **Find:** Allows the user to search the phone number which is stored in the phone book.
2. **Save to Contact:** Stores the phone number the message was sent to.
3. **Msg Group:** Allows to select all the phone numbers in a group.

3. Under "Message", input a new text message and press [OK].  
(Please refer to page 35 for more details on entering letters, numbers and symbols.)

● **By pressing [MENU], the user can choose from the following:**

1. **Insert Quick Text:** Insert Quick Text function brings the saved already sentences.
2. **Insert Sound:** Insert simple sound function brings the downloads or saved already sound.
3. **Insert Picture:** Insert simple graphic icon function brings the downloads or saved already icon.
4. **Insert Animation:** Insert simple emoticon animation function brings the downloads or saved already animation.
5. **Save to Quick Text:** Save to Quick Text function saves the written sentences on text message.

4. The default call back number is automatically inputted into the Default CB# field. You can scroll to the number and edit it or simply press [SEND] [OK].

## NEW TEXT MSG

5. Press the Navigation Key down for more fields.  
Under "Priority", select "Normal" or "Urgent".
6. Under "Insert", select "On" or "Off".
7. To send the text message, press  [MENU] and select the "Send" then press  [OK].

To save the text message, press  [MENU] and select the "Save Msg" then press  [OK].

## NEW PIX MSG

To send a new picture message:

1. Press  [MENU]   or press  .
2. Phone goes into camera mode automatically.  
Take a picture and press  [SEND] or  [CAM].  
(Please refer to page 101 for more details on taking a photo.)

3. Under "Send To", input the phone number and press  [OK].

● **By pressing  [MENU], the user can choose from the following:**

1. **Find:** Allows the user to search the phone number which is stored in the phone book.
2. **Save to Contact:** Stores the phone number the message was sent to.
3. **Msg Group:** Allows to select all the phone numbers in a group.
4. **Online Album:** To send pictures by using online Address Book.

4. Under "Message", input a message text and press  [OK].

● **By pressing  [MENU], the user can choose from the following:**

1. **Take Pix:** To take a new photo.
2. **Voice Record:** To record a voice memo.
3. **Insert Q.Text:** Insert Quick Text function brings the saved already sentences.
4. **Insert/Delete Pix:** Insert picture function brings the downloads or already saved taking a picture.
5. **Insert/Delete Sound:** Insert voice memo function brings the downloads or already saved voice memo.
6. **Insert/Delete Slide:** Insert other pix message function.
7. **Slide Duration:** To select a slide duration time.

## NEW PIX MSG

5. Under "Subject", input a subject text and press  [OK].  
(Please refer to page 35 for more details on entering letters, numbers and symbols.)
6. To send a message to another person, select the "CC" or "BCC" and input the phone numbers, then press  [OK].
7. Press the Navigation Key down for more fields. Under "Priority", select "Normal" or "High".
8. Press the Navigation Key down for more fields. Under "Expiration", select "Off", "1 day", "2 days", "3 days", "4 days" or "5 days".
9. To send the pix message, press  [MENU] and select the "Send" then press  [OK].

To preview a written pix message, press  [MENU] and select the "Preview" then press  [OK].

To save the pix message, press  [MENU] and select the "Save Msg" then press  [OK].

## NEW FLIX MSG

To send a new video message:

1. Press  [MENU]   or press   .
2. Phone goes into camera mode automatically. Take a video and press  [SEND] or  .  
(Please refer to page 104 for more details on taking a video.)
3. Under "Send To", input the phone number and press  [OK].
  - **By pressing  [MENU], the user can choose from the following:**
    1. **Find:** Allows the user to search the phone number which is stored in the phone book.
    2. **Save to Contact:** Stores the phone number the message was sent to.
    3. **Msg Group:** Allows to select all the phone numbers in a group.
    4. **Online Album:** To send pictures by using online Address Book.
4. Under "Message", input a message text and press  [OK].

- **By pressing  [MENU], the user can choose from the following:**
  1. **Take Flix:** To take a new video.
  2. **Insert Q.Text:** Insert Quick Text function brings the saved already sentences.
  3. **Insert/Delete Flix:** Insert video function brings the downloads or already saved taking a video.

## NEW FLIX MSG

5. Under "Subject", input a subject text and press  [OK].  
(Please refer to page 35 for more details on entering letters, numbers and symbols.)
6. To send a message to another person, select the "CC" or "BCC" and input the phone numbers, then press  [OK].
7. Press the Navigation Key down for more fields. Under "Priority", select "Normal" or "High".
8. Press the Navigation Key down for more fields. Under "Expiration", select "Off", "1 day", "2 days", "3 days", "4 days" or "5 days".
9. To send the flix message, press  [MENU] and select the "Send" then press  [OK].

To preview a written flix message. press  [MENU] and select the "Preview" then press  [OK].

To save the flix message, press  [MENU] and select the "Save Msg" then press  [OK].

## INBOX

The Inbox manages received text messages. To access:

1. Press  [MENU]   or press  .
2. Select a message and press  [OK]. The message is displayed. To delete a message, press  [ERASE].
3. Press  [MENU].

### FORWARD

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

### SAVE TO CONTACT

1. To save number to contact.

### SAVE TO SAVED

1. To save the text message in your phone.  
And press .

### SAVE TO QUICK TEXT

1. To save received text msg to "Quick text".

## INBOX

### BLOCK SENDER

To register the phone number or e-mail that needs to be blocked or unblocked enter either the phone number or e-mail then pressing .

1. To block all incoming messages from addresses on block list.

- **BLOCK:** Enter the address to block.
- **UNBLOCK:** Enter the address to remove from block.
- **VIEW LIST OF BLOCKED ADDRESS:** Displays the blocked list on LCD.

### 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 .

### EDIT

1. To edit received message and resend a message to another person.

### INFORMATION

1. To show received message information.

### REPLY

1. To reply to the received message.

### SAVE MEDIA

1. To object saved to media gallery folder

## OUTBOX

Manages sent text messages or messages waiting to be sent.

1. Press  [MENU]   or press  .
- 2.1. Select a message, then press  [OK].  
The text message is displayed.
- 2.2. To Erase Message, press  [ERASE].
3. Press  [MENU].

### RESEND

1. To resend a text message,

### EDIT MESSAGE

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

### SAVE TO CONTACT

1. To save number to contact, press .

### SAVE TO SAVED

1. To save the text message in your phone.

## OUTBOX

### 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

1. To display the status of an sent message.

### PIX INFO

1. To show pix or flix message information.

### PLAY SLIDE SHOW

1. To play include slide pix or flix message.

## WEB ALERTS

### WEB ALERTS

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

 : *Read Message.*

 : *Unread Message.*

 : *Displays the remaining text.*

*GoTo : Connecting Selected Site.*

*Erase : Erase Selected Message.*

## SAVED

### SAVED

Manages saved messages from the Inbox/Outbox.

1. Press [MENU] or press .
- 2.1. Select a text message then press [OK].  
The text message is displayed.
- 2.2. To erase message, press [ERASE].
3. Press [MENU].
4. If the text message is saved from the "Inbox" menu, this screen will be displayed.

● *To select inbox menu: Forward, Edit, Information, Reply, Save Media, Save to Quick Text, Save to Contact, Block Sender, Lock & Unlock*

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

● *To select outbox menu: Resend, Edit Message, Save to Contact, Lock & Unlock, State, Pix Info, Play Slide Show*

5. Select one by pressing [OK].

## QUICK TEXT

### QUICK TEXT

To view/edit the quick text messages:

1. Press [MENU] or press .
- 2.1. Select a quick text message from the list.  
Press [MENU].
- 2.2. To add a new quick text message, press [ADD NEW]. To edit the quick text message you have selected, press [EDIT].
3. To erase the saved quick text message, press [ERASE].

## ERASE ALL

### ERASE MESSAGES

1. Press [MENU] or press .

2.1. To erase all folder messages, press .

2.2. To erase all the inbox messages, press .

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

2.3. To erase all the outbox messages, press .

2.4. To erase the saved messages, press .

2.5. To erase the web alerts messages, press .

3. Select “Ok” or “Cancel” with [OK] or [CANCEL].

- *Old: Deletes read Message(s).*
- *Entire: Deletes all the message(s) in the Inbox (However, the locked Message(s) will not be deleted).*

## SETTINGS

Manages messaging features through various features.

### AUTO SAVE

#### SAVE SENT MSG

1. Press [MENU] or press .

Then press for “Auto Save”.

2. Press . Select “Off”, “On”, or “Prompt” with the Navigation key.

3. Press [OK].

#### PIX/FLIX RECEIVING

1. Press [MENU] or press .

Then press for “Auto Save”.

2. Press . Select “Automatic” or “Prompt” with the Navigation key.

3. Press [OK].

## SETTINGS

### AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

#### AUTO ERASE INBOX

1. Press [MENU] or press . Then press for "Auto Erase".
2. Press . Select "Disable" or "Enable" with the Navigation key.
3. Press [OK].

#### AUTO ERASE OUTBOX

1. Press [MENU] or press . Then press for "Auto Erase".
2. Press . Select "Disable" or "Enable" with the Navigation key.
3. Press [OK].

## SETTINGS

### DEFAULT CB#

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

1. Press [MENU] or press . Then press for "Default CB#".
2. Input a call back number, then press [OK].

● Press [FIND] to find a number from the phone book.

### VOICE CB#

1. Press [MENU] or press . Then press for "Voice CB#".
2. Input a voice call back number, then press [OK].

### REMIND

Enables phone to alert you of an incoming message.

1. Press [MENU] or press . Then press for "Remind".
2. Select "On" or "Off" with the Navigation key.
3. Press [OK].

## SETTINGS

### SIGNATURE

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

1. Press [MENU] or press . Then press for "Signature".
2. To input "Edit", put the cursor on Edit Signature and enter Signature Edit window by using right or left direction keys.
3. To activate Signature function, put the cursor on "Insert" and select "On" by using right or left direction keys. To inactivate Signature function, select "Off".
4. Press [OK].

## SETTINGS

### DIRECT VIEW

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

1. Press [MENU] or press . Then press for "Direct View".
2. Select "Off" or "On" with the Navigation key.
  - **OFF: Set to read msg after entering inbox in SMS menu.**
  - **ON: Set to read msg without entering inbox in SMS menu.**
3. Press [OK].

### ENTRY MODE

Sets an Entry Mode as a default. The T9 mode indicator will appear whenever the input mode is activated if the T9 mode is the default.

1. Press [MENU] or press . Then press for "Entry Mode".
2. Select "Alpha Mode" or "T9 Mode" with the Navigation key.
3. Press [OK].

## SETTINGS

### BLOCK OR UNBLOCK

1. Press [MENU] or press . Then press for “Block or Unblock”.
2. Select “Block”, “Unblock”, or “View List of Blocked Addresses” with the Navigation key.
3. Press [OK].

### PUSH SETTINGS

1. Press [MENU] or press . Then press for “Push Settings”.
2. Select “Yes” or “No” with the Navigation key.
3. Press [OK].

## Chapter 7

### GET IT NOW & INTERNET

This chapter addresses using your handset to access the Wireless Internet.

- Get It Now
- Start Internet Browser
- Browser Menu

## GET IT NOW

Your phone provides a unique feature -Get It Now- 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 GET IT NOW

1. To launch "Get It Now" from the standby mode, press [MENU] or .
2. When three or more icons appear on the screen, select an application with Navigation key.
3. To start the application, press .
4. To end the application, press . The phone will return to the standby mode.

### DOWNLOADING APPLICATIONS

1. Press [MENU] or .
2. Select "Get It Now" with Navigation key and press .
3. Select "Start" with Navigation key and press .
4. The phone will access your service provider's server. Follow the prompt to download applications.

- **To select an option, press then press .**
- **When a prompt appears, press to proceed or to cancel.**

## GET IT NOW

### 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 "Get It Now" with Navigation key and press .
3. Select "Options" with Navigation key and press .
4. Select "Information" with Navigation key and press . The memory status will be displayed.
5. To exit, press .

## GET IT NOW

### ERASING AN APPLICATION

1. Press  [MENU]   or .
2. Select "Get It Now" with Navigation key and press .
3. Select "Options" with Navigation key and press .
4. Select the application to be erased with Navigation key and press .
5. Select "Remove" then press .

## START INTERNET BROWSER

### ACCESS THE INTERNET

Your CDM-8940 allows you to browse various Internet websites directly from your phone. This provides you with access to up-to-date information such as news, sports, weather and stock quotes when you subscribe to Internet service with your service provider. Please contact your service provider for a list of available websites and service details.

1. To start your Internet browser and access websites through your wireless handset press  [MENU]   or press .

## BROWSER MENU

### BROWSER MENU

The browser menu lists the actions necessary to operate the browser.

Press [MENU] or press to access the browser menu.

#### VzW HOME

When the home item is selected from the browser menu, the phone displays the home page.

- ◆ To display the homepage, press [MENU] or press , then press .

#### BACK

- ◆ To return to the previous page, press [MENU] or press , then press .

#### FORWARD

- ◆ To forward to the next page, press [MENU] or press , then press .

#### REFRESH

Selecting the refresh item from the browser menu refresh the current page.

- ◆ To select “Refresh”, press [MENU] or press , then press .

## BROWSER MENU

### HISTORY

When the history item is selected from the browser menu, the browser is displayed with the browser version and copyright information.

The device layer version is also displayed.

- ◆ To select “History”, press [MENU] or press , then press .

### ADDRESS

Selecting the “Address” action displays the URL of the current page.

- ◆ To select “Address”, press [MENU] or press , then press .

### CLEAR MEMORY

- ◆ To clear browser memory, press [MENU] or press , then press .

### SETTINGS

- ◆ To select “Address”, press [MENU] or press , then press .

- *Downloads*
- *Restart Browser*
- *Scroll Mode*
- *Send Referrer*
- *Key Press Timeout*
- *Connection Timeout*

## BROWSER MENU

### ADVANCED

Selecting the advanced item in the browser menu displays the advanced menu items.

- ◆ To select “Advanced”, press  [MENU]   or press  , then press .

- **About...**
- **Encryption:** 1. *Authentication*  
2. *Root Certificate*  
3. *Current Certificate*

### EXIT

- ◆ To exit browser, press  [MENU]   or press  , then press .

## Chapter 8

### SAFETY INFORMATION

- Safety Information for Wireless Handheld Phones
- Safety Information for FCC RF Exposure
- SAR Information
- FDA Consumer Update

## SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

Read This Information Before Using Your Handheld  
Portable Cellular Telephone

### EXPOSURE TO RADIO FREQUENCY SIGNALS

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

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

ANSI C95.1 (1992) \*  
NCRP Report 88 (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).

\*;  
American National Standards Institute;  
National Council on Radiation Protection and Measurements;  
International Commission on Nonionizing Radiation Protection.

## SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

### 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.

### PHONE OPERATION

Normal Position: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

#### Tips on efficient operation:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

### 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 require.

## **SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES**

### **ELECTRONIC DEVICES**

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

#### **Pacemakers**

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

If you have a pacemaker:

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

#### **Hearing Aids**

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

## **SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES**

### **ELECTRONIC DEVICES**

#### **Other Medical Devices**

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

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

#### **Vehicles**

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

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.

#### **Posted Facilities**

Turn your phone OFF where posted notices so require.

## **SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES**

### **OTHER SAFETY GUIDELINES**

#### **Aircraft**

FCC Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

#### **Blasting Areas**

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

#### **Potentially Explosive Atmospheres**

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

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

## **SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES**

### **PRECAUTIONS AND WARNINGS**

Please read and understand all of the Precautions and Warnings contained in this manual before attempting to operate your phone.

1. DO NOT use this equipment in an extreme environment where high temperature or high humidity exists, such as near a heater or in a closed car parked in the sun.
2. DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using the unit, lay down the unit to avoid possible damage due to instability.
3. DO NOT expose this equipment to liquids such as rain or spilled beverages.
4. DO NOT use unauthorized accessories. Use of unauthorized accessories may result in fire, electric shock or other bodily injury.
5. DO NOT disassemble the phone or its accessories. If service or repair is required, return the unit to an authorized Audiovox service center. If unit is disassembled, the risk of electric shock or fire may result.
6. DO NOT short-circuit the battery terminals with metal items etc.
7. DO NOT use harsh chemicals, cleaning solvents or strong detergents to clean this phone. Always clean it with a soft, damp cloth.
8. DO NOT paint this phone. This can clog moving parts.

## SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

### OPERATING PROCEDURES

Never violate any of the following Rules and Regulations of the FCC when using your phone. The following offenses are punishable by fine, imprisonment, or both:

- Using obscene, indecent, or profane language.
- Using the unit to give off false distress calls.
- Wiretapping or otherwise intercepting a telephone call, unless that person has first obtained the consent of the parties participating in the call.
- Making anonymous calls to annoy, harass, or molest other people.
- Charging to an account without authorization to avoid payment for service.
- Refusing to yield a party line when informed that it is needed for an emergency call (It is also unlawful to take over a party line by stating falsely that it is needed for an emergency).

## SAFETY INFORMATION FOR FCC RF EXPOSURE

**WARNING!** Read this information before using your phone

### CAUTION

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 operation with the back of the phone kept 2.5 cm from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.5 cm separation distance between the user's body and the back of the phone, including the antenna, whether extended or retracted. All belt-clips, holsters and similar accessories used by this device must not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure limits and should be avoided.

*Note: For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov).*

## SAR INFORMATION

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.33 W/kg and when worn on the body,

## SAR INFORMATION

as described in this user guide, is 0.536 W/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 FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID: PP4TX-160C.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at <http://phonefacts.net>.

\* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.



**U.S. Food and Drug Administration -  
Center for Devices and Radiological Health  
Consumer Update on Mobile 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 standby 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 interagency 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 handheld wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety

guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

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

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

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators.

The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

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

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test

methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

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

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

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

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

### **10. What about children using wireless phones?**

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and

increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

### 11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

### 12. Where can I find additional information?

For additional information, please refer to the following resources:

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

# MEMO

## Chapter 9 WARRANTY

- Protect Your Warranty
- 12 Month Limited Warranty

## **PROTECT YOUR WARRANTY**

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

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

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



### **AUDIOVOX COMMUNICATIONS CORP.**

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16808 Marquardt Avenue, Cerritos, California 90703, 562-802-5100

### **AUDIOVOX COMMUNICATIONS CANADA CO.**

5155 Spectrum Way, Unit #5, Mississauga, Ontario  
Canada L4W 5A1, 800-465-9672

## **12 MONTH LIMITED WARRANTY**

AUDIOVOX COMMUNICATIONS CORP. (the Company) warrants to the original retail purchaser of this Audiovox Handheld Portable Cellular Telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

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

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

This Warranty does not apply to:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;

## **12 MONTH LIMITED WARRANTY**

- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

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

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place or purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you can telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 905-712-9299).

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

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT

## **12 MONTH LIMITED WARRANTY**

WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

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

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

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