* Some contents of this manual may differ from your phone depending upon the software of the phone or your service provider.

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User Manual

Hutch

Samsung SCH-X619

Dual speaker with virtual 3D sound
Song-ringtone download
64-Polyphonic ringtone
65K color TFD display
Built-in digital camera (320K pixels)
Video recording
Photo mail
Karaoke
Java™ game & animation download
Hutch Simple Thai Input

HutchReal Multimedia.

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Important Safety Precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

Road Safety at All Times
Do not use a hand-held phone while driving; park the vehicle first.

Switching Off When Refueling
Do not use the phone at a refueling point (service station) or near fuels or chemicals.

Switching Off in an Aircraft
Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

Switching Off in Hospitals
Switch your phone off near medical equipment. Follow any regulations or rules in force.

Interference
All wireless phones may be subject to interference, which could affect their performance.

Special Regulations
Follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger (in a hospital for example).

Sensible Use
Use only in the normal position (held to the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Emergency Call
Ensure the phone is switched on and in service. Key in the emergency number for your present location, then press the key. You must deactivate any unnecessary features before you can make an emergency call. Give all the necessary information as accurately as possible. Do not cut off the call until given permission to do so.

Water Resistance
Your phone is not water-resistant. Keep it dry.

Accessories and Batteries
Use only Samsung-approved accessories and batteries. Use of unauthorized accessories could damage your phone and may be dangerous.

Qualified Service
Only qualified service personnel may install or repair your phone.

For more detailed safety information, see "Health and Safety Information" on page 145.

CAUTION

RISK OF EXPLOSION IF A BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Unpacking

Your package contains the following items:

Handset

Batteries

Travel Adapter

Battery Charger

Finger Strap

Thai & English User's Manuals

Headset

In addition, you can obtain the following accessories for your phone from your local Samsung dealer:

- Headset
- Travel adapter
- Car charger
- Standard/Extended battery
- Winding travel adapter
- Finger strap
- LCD cleaner
- PC data cable
- Battery charger

Your Phone

Phone Layout

The following illustrations show the main elements of your phone:

Open View

Closed View

Key(s)	Functions
(soft keys)	Performs the functions indicated by the text above them, on the bottom line of the display.
	In Menu mode, scrolls through the menus and Phone Book memory. In Standby mode, quickly enters the appropriate menu as listed below: • Up: **Scheduler** • Down: **Voice Dial** • Left: **Messages** • Right: **Find** in the **Phone Book** menu
	Enters the Hutch services menu. Also, quickly launches the web browser when held down.
	Makes or answers a call. In Standby mode, recalls the last numbers dialed, and dials the last outgoing number when pressed twice.

Key(s) **Functions** (continued)

Ends a call. Also switches the phone on and off when held down.
In Menu mode, cancels your input and returns to Standby mode.

CLR

Deletes characters from the display.
In Menu mode, returns to the previous menu level.

Enters numbers, letters and some special characters.

In Standby mode, initiates the voice dialing feature when held down.
While entering text, allows you to change the case. Also, use this key for the special star calling feature.

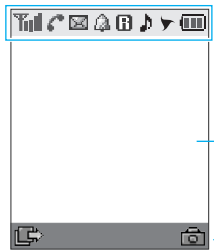
In Standby mode, enters or exits Silent mode when held down.
While entering text, allows you to quickly change the text input mode. Also, use this key when you make a call to an automated system, especially when using teleservices.

(on the right side of the phone)
In Standby mode, enters the **Camera** menu. Allows you to take a photo using the external display when pressed and held with the phone closed.
In Capture mode, works as a camera shutter.

Display

Layout

The display has three areas; an upper area of various icons, the main text and graphic area and the last area containing the soft key indicators.



Icons

Signal Strength: Shows the received signal strength. The greater the number of bars, the stronger the signal.

Service: Appears when a call is in progress.

No Service: Appears when you are outside a service area. When it displays, you cannot make or receive calls.

New Message: Appears when a new message is received.

Alarm: Appears when you set an alarm to ring at a specified time.

Roaming: Appears when you are out of your home area and have registered onto a different network; when traveling in other countries, for example.

Bell: Appears when the ringer volume is set from **Level 1** to **Level 8** or to **1-Beep**.

Ringer Off: Appears when the ringer volume is turned off.

Vibration: Appears when you set the ringer volume to **Vibrate** or **High+Vib** or when the phone is in Silent mode.

Internet Connection: Appears when you access Hutch services.

Java Indicator: Appears when you are using Java applications.

Battery Status: Shows the level of your battery. The more bars you see, the more power you have remaining.

External Display

Your phone has an external display on front of it. It indicates when you have an incoming call or message. It also alerts you at a specified time when you set an alarm.

When you press and hold one of the Volume keys with the phone closed, the backlight of the external display illuminates.

With the phone closed, you can take photos using the external display by pressing the Camera key on the right side of the phone. For further details, see page 123.

Backlight

The display and the keypad are illuminated by the backlight. When you press any key or open the phone, the backlight illuminates. It turns off if no key is pressed within a given period of time, depending on the **Backlight** menu (**8-4**).

To specify the length of time for which the backlight is active, set the **Backlight** menu (**8-4**); see page 108 for further details.

Note: In Standby mode or Talk mode, the display automatically turns off after some time, depending on your setting in the **Backlight** menu, to conserve your battery power. Press any key to turn the display on.

Service Light

The service light is located near the bottom of the phone. It flashes to indicate incoming calls or messages. The light also flashes for a few seconds when you turn the phone on or off and is used for indicating the charging progress.

Getting Started

Using a R-UIM

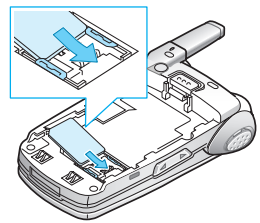
The R-UIM (Removable - User Identification Module) contains a chip with all the information required to operate your phone. Note the following:

- Keep all miniature R-UIM out of the reach of small children.
- The R-UIM and its contacts can easily be damaged by scratching or bending, so be careful when handling, inserting or removing the card.

Installing the R-UIM

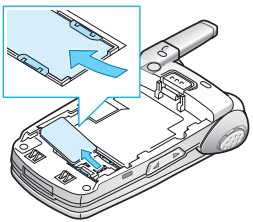
1. If necessary, remove the battery. Refer to page 19.

2. Slide the R-UIM into the slot, as shown, ensuring that the metal contacts of the card face into the phone.



Removing the R-UIM

Slide the R-UIM out of the slot.



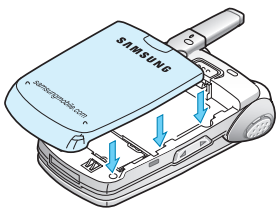
Using a Battery

Your phone is powered by a rechargeable Li-ion battery. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery is fully recharged in approximately 200 minutes for a standard battery.

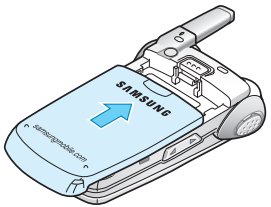
Installing the Battery

1. Place the battery back on the phone so that its tabs match the grooves on the phone.



2. Slide the battery towards the top of the phone until it snaps into place.

   Make sure that the battery is properly installed before switching the phone on.



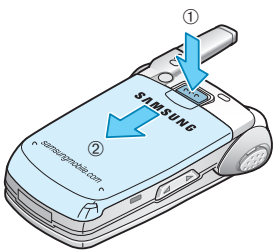
Removing the Battery

1. If necessary, switch the phone off by pressing and holding the ⏻ key until the closing image displays.

2. To remove the battery:

   ① Press the catch above the battery and hold it in that position.

   ② Slide the battery and lift it away, as shown.



Charging the Battery

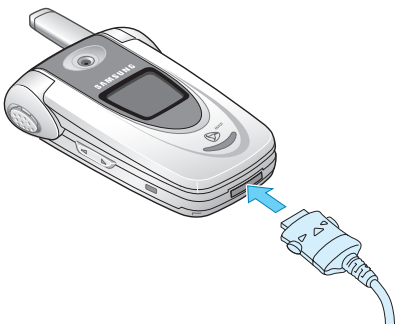
A travel adapter comes with your phone for charging the battery. Use only approved batteries and chargers. Ask your Samsung dealer for further details.

The travel adapter allows you to use the phone while the battery is charging, but this causes the phone to charge more slowly.

To charge the battery:

1. With the battery installed, plug the connector of the travel adapter into the jack at the bottom of the phone.

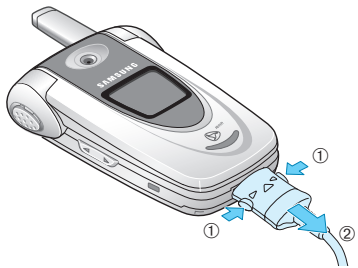
   Make sure that the arrow on the connector is facing towards the front of the phone.



2. Plug the adapter into a standard AC wall outlet.

   When the power is connected properly, the service light turns on and remains red. Also, the Battery Status icon blinks while the battery is charging.

3. When charging is finished and the service light changes to green, unplug the adapter from the power outlet and phone by pressing the buttons on both sides of the connector (see ①) and pulling the connector out (see ②).



Note: You must unplug the adapter before removing the battery from the phone while charging; otherwise, the phone may be damaged.

Low Battery Indicator

When the battery charge level gets low, the battery sensor blinks an empty Battery Status icon ( ) at the top right corner of the display and sounds a warning tone.

When the battery level gets too low, the phone automatically turns off. If this happens, you lose whatever you are doing and your phone call cuts off. Watch the Battery Status icon and make sure that your battery is adequately charged.

Switching the Phone On or Off

1. Open the phone.
2. Press and hold the key until the phone turns on.
3. If the phone asks for a Personal Identification Number (PIN), enter the PIN code supplied with the R-UIM. For further details about the code, see page 24.

   The service light flashes and an alert sounds. When the system locates services, you can see the idle screens on both displays.

   If the phone is out of the service area, the No Service icon ( ) appears on the display. In this case, you cannot place and receive calls. You can try again later when service is available.

   Note: To change the language, use the ภาษา menu (**0-3**). For further details, see page 113.

4. When you wish to switch the phone off, hold the key down until the phone turns off.

WARNING!
Do not switch the phone on when mobile phone use is prohibited or when it may cause interference or danger.

Note: As with any other radio-transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects the call quality and may cause the phone to operate at a higher power level than otherwise needed.

Using the PIN Code

The PIN code supplied with the R-UIM helps you protect the R-UIM against unauthorised use. When the phone asks you to enter the code, enter the appropriate code, displayed as asterisks for security. If you enter an incorrect PIN code three times in succession, your R-UIM is blocked. To unblock the card, contact your service provider.

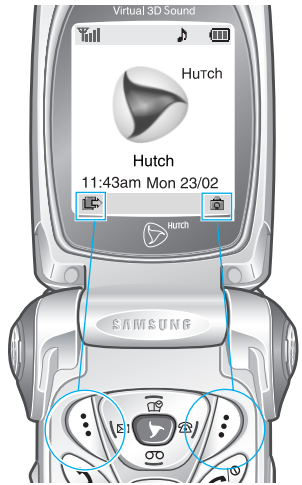
You can enable or disable the code using the **R-UIM Setup** menu (**0-5-7**). For further details, see page 117.

Using the Soft Keys

Your phone offers a set of functions that allow you to customize it. These functions are arranged in menus and sub-menus, accessed via the two soft keys marked and . Each menu and sub-menu allows you to view and alter the settings of a particular function.

The roles of the soft keys vary according to the function you are currently using; the labels on the bottom line of the display just above each key indicate its current role.

Example:



Press the left soft key to access Main Menu mode.

Press the right soft key to access the **Camera** menu.

Your Phone's Modes

Standby Mode

Standby is the most basic state of your phone. The phone goes into Standby mode after you turn it on or whenever you briefly press the key. When your phone is in Standby mode, you will typically see the greeting message and current time and date. If you enter a phone number, you can press the key to dial it or press the **Save** soft key to save it in Phone Book.

Press the key at any time to return to Standby mode. Be careful; if you are on a call when you press the key, the call disconnects and the phone returns to Standby mode.

Talk Mode

You can place and answer calls only when your phone is turned on. During a call, the phone is in Talk mode. In this mode, pressing the **MENU** soft key gives you a list of options. See page 40 for further details.

Power Save Mode

Your phone comes with a Power Save feature that is automatically activated if your phone is unable to find a signal after a few minutes of searching. While this feature is active, the phone's battery charge is conserved. The phone automatically rechecks for a signal periodically. To manually force the phone to recheck for a signal, press any key.

Lock Mode

When you lock your phone using the **Lock Phone** menu (**0-5-1**), you cannot use the phone. In Lock mode, you can receive messages and calls, but you cannot place an outgoing call until you unlock the phone. To unlock the phone temporarily, you need to enter the lock code.

For details about locking and unlocking your phone, see page 114.

Call Functions

Making a Call

In Standby mode, enter the area code and phone number and press the key.

Note: When the **Auto Retry** menu (**0-2**) has been enabled, the phone automatically redials when the person does not answer the call or is already on the phone. See page 112 for further details.

While entering a number, press the **MENU** soft key to use the following options:

Call: places a call to the number.

Save: allows you to save the number in Phone Book.

Find: allows you to find a number from Phone Book.

Hard Pause: enters a hard pause.

2sec Pause: enters a two second pause.

Note: When you enter a number to a Phone Book location, the **Speed dial** option is available. For details about speed dialing, see page 32.

Correcting the Number

To clear the	Press the
last digit displayed	**CLR** key.
whole display	**CLR** key for more than one second.

Ending a Call

When you want to end your call, briefly press the key or close the phone.

If you end the call by pressing the key, the call time, or the length of the call, displays briefly and the phone returns to Standby mode.

Emergency Dialing

You can place emergency calls from your emergency number list even if your phone is locked or all of the outgoing calls are restricted. For further details about emergency numbers, see page 115.

Using the Call List

The phone stores up to 60 of the calls dialed, received or missed chronologically. The last call is saved in the first position.

To recall any of these numbers:

1. If there are characters on the display, return to Standby mode by pressing the key.
2. Press the key. The list of recent calls displays.
   - : Dialed calls
   - : Received calls
   - : Missed calls
3. Press the Navigation keys to scan through the list until you find the number you want.
4. Press the key to dial the displayed number.

You can also view the details of the call by pressing the **Select** soft key. The phone displays the other person's name, if available, the phone number, the time and date when the call was made.

Press the **MENU** soft key to use the following options:

Call: dials the number.

Save: (available when the number is not stored in your Phone Book) allows you to save the number in your Phone Book.

Show Entry: (available when the number is stored in your Phone Book) displays the detailed information stored in the Phone Book entry, such as the name, number and memory location.

Delete: deletes the number.

Prepend: allows you to add an area code or feature code to the number before calling the number.

Making a Call from Phone Book

You can store the phone numbers you call regularly in the phone's memory, called Phone Book. You then simply recall the number to dial. For further details about the Phone Book feature, see page 65.

Prepend Dialing

The Prepend option lets you add digits, such as area codes and network feature activation codes, to a phone number that is in your call logs or Phone Book.

To prepend a phone number stored in your phone:

1. Access the Recent Calls list by pressing the key or the Phone Book entries by pressing the Right key.
2. When the phone number you want to dial displays, press the **Select** soft key.
3. Press the **MENU** soft key to access the Menu pop-up list.
4. Press the **4** key to select the **Prepend** option.

4. Enter the area code or feature code.

5. Press the key to dial the number.

Speed Dialing

Once you have assigned phone numbers to speed dial numbers, you can dial them easily with a few presses of the keys.

Note: When several numbers are saved under one name, the first number entered is automatically specified as a speed dial number. To change the speed dial number, use **Speed dial** of the Phone Book options; see page 69.

From the R-UIM Memory

You can dial the phone numbers stored in the R-UIM memory. The capacity of the card memory may vary depending on the card.

Enter the memory location of the number and press and hold the final digit to dial.

For example: Location no. 023
Press the **2** key briefly and hold down the **3** key.

From the Phone's Memory

Press the digits of the phone memory location containing the number to be dialled, then press and hold the # key.

For example: Location no. 029
Press the **2** key and the **9** key briefly, and then hold the # key.

The number (and name) stored displays, and then dials.

Pause Dialing

When you call an automated system, like a banking service, you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your Phone Book, separated by special characters which are called pauses.

There are two kinds of pauses that can be entered on your phone:

- **Hard Pause**: A hard pause stops the dialing sequence until you press the key.
- **2sec Pause**: A two second pause stops the dialing sequence for two seconds and then automatically sends the remaining digits.

Note: Multiple two-second pauses can be entered to extend the length of a pause. Keep in mind that pauses count as digits towards the 32 digit dialing maximum.

Storing Pauses in a Phone Book Entry

To store a number in your Phone Book that contains pauses:

1. Enter the phone number you want to store, such as the bank's teleservice phone number.
2. Press the **MENU** soft key to access the options.
3. Select a pause from the options.
   - **Hard Pause**: the letter "P" displays in the number, meaning that a hard pause will occur at that point in the dialing sequence.
   - **2sec Pause**: the letter "T" displays in the number, meaning that a "Timed" pause will occur at that point in the dialing sequence.
4. Enter the digits that need to follow the pause, such as your account number.
5. Store the number in your Phone Book as you normally would by pressing the **Save** soft key and following the screen prompts.

Pause Dialing from a Stored Phone Book Entry

1. Dial the number from Phone Book.
2. If you stored the number using a hard pause(s), wait for the appropriate prompt from the number you are calling. When prompted, press the key to send the DTMF (Dual Tone Multi-Frequency) number that follows your pause.

   If you stored the number using a two-second pause(s), your phone transmits the number that follows the "T" pause after two seconds.
3. "SENDING DTMF" flashes on the display and the transmitted tone sounds.
4. Repeat from step 2, if necessary.

Manual Pause Dialing

You can enter pauses manually using the options during the dialing process.

1. Enter the phone number of the service you want to call, such as a bank's teleservice phone number.
2. Press the **MENU** soft key to display the options.

3. Select the required pause type and press the **OK** key.

   - Press the **4** key for **Hard Pause**. The letter "P" displays, meaning that a hard pause will occur at that point in the dialing sequence.
   - Press the **5** key for **2sec Pause**. The letter "T" displays, meaning that a "Timed" pause will occur at that point dialing sequence.

4. Enter the number to be sent after the pause and then press the key to dial the first number.

5. For a hard pause, press the key again at the prompt to send the additional number after connecting.

   If you enter the number using a two-second pause, the phone sends the number that follows the pause two seconds after the connection.

Voice Dialing

Before using the voice dialing feature, you must record names and numbers in your phone using the **Voice Dial** menu (**6-1**). For further details, see page 95.

1. To place a call, press and hold the * key or open the phone, depending on the **Set Active** menu (**6-1-4**). See page 97.

2. At the voice prompt, say the name into the microphone.

   - If the phone recognizes the name, the phone dials the corresponding number.
   - If the phone does not recognize the name, the screen prompts for the name again.

   The phone dials the corresponding number.

Adjusting the Volume

During a call, if you want to adjust the voice volume, use the Volume keys on the left side of the phone.

Press the ▲ key to increase the volume level and the ▼ key to decrease the level.

In Standby mode with the phone open, you can also adjust the key tone volume using these keys.

Answering a Call

When somebody calls you, the phone alerts you by ringing and blinking the service light on the phone.

If the caller can be identified, the caller's phone number or name, if stored in your Phone Book, displays.

There are two ways to answer a call depending on your setting in the **Call Answer** menu (**0-1**):

If you select	**To answer the call**,
Any Key	press any key, except the and the Volume keys.
Folder Open	open the phone. If it is already open, press the key.
SEND Key	open the phone, if necessary, and press the key.

To end the call, close the phone or press the key.

Notes:

- You can answer a call while using Phone Book or menu functions. The current operation stops.
- If you cannot answer incoming calls, you can set the phone to answer the calls by playing a greeting message and then recording the callers' messages. For further details, see page 100.

Options During a Call

Your phone provides you with a number of functions that you can use during a call.

Press the **Menu** soft key during a call to access the following options:

Call Logs: allows you to access the **Call Logs** menu. See page 61.

Phone Book: allows you to access the **Phone Book** menu. See page 65.

Mute/Quit: allows you to switch your phone's microphone off, so that the other person cannot hear you.

Example: You wish to say something to another person in the room but do not want the other person to hear you.

Silent/Quit: does not transmit the key tones. It allows you to press keys without hearing annoying key tones during a call.

Tone Length: enables you to select **Normal** or **Long** DTMF tones. The system used by the bank or other service determines if you need short or long DTMF tones. If the service is digital, as most are, short DTMF tones will almost always work.

You can use the **Messages** menu by pressing the **SMS** soft key during a call.

Using Caller ID

This feature shows you who is calling by displaying the caller's number when the phone rings. If the name and number are stored in your Phone Book, the corresponding name also displays. If you call someone who has this feature, your phone number displays on her/his phone.

Contact your service provider to set up the Caller Line Identification service.

Viewing Missed Calls

If you fail to answer a call for any reason, the phone indicates the missed call by displaying a text notification on the screen. Additionally, if caller information is available, a Missed Entry is created.

Press the key to place a call to the number, or the key to clear the message and return to Standby mode.

To view missed calls, access the **Missed** menu (**1-3**). For further details, see page 63 .

Quickly Switching to Silent Mode

Silent mode disables all sounds on the phone. This feature is best used in situations where the phone might disturb others, such as in a meeting, at a library or in a theater. You can switch your phone to Silent mode with only one touch.

In Standby mode, press and hold the # key until "Enter! Silent Mode" and the Vibration indicator ( ) display.

To exit and reactivate the previous sound settings, press and hold the # key again until "Exit! Silent Mode" appears. The Vibration indicator no longer displays.

Note: Activating Silent mode will not turn off the camera shutter sound.

Call Forwarding

When the **Call Forwarding** menu (**0-6-1**) is enabled, your phone forwards incoming calls to another phone number, even if your phone is turned off.

Activating the call forwarding feature does not affect outgoing calls made from this phone. For further details about activating this feature, see page 118.

Call Waiting

When the **Call Waiting** menu (**0-6-2**) is enabled, you can answer an incoming call while you have a call in progress. See page 119 for further details.

When another incoming call is detected, the incoming call alert sounds, depending on your network, and a text notification displays.

To answer a waiting call:

1. To answer, press the key. The phone connects and places the current call on hold.
2. Press the key again to switch between the two calls.
3. To end the call, press the key or close the phone. All of the calls are disconnected.

Three-way Calling

This feature enables you to conduct conference calls with two separate people at the same time. The phone records each participant into the Recent Calls list and you are billed air time for each of the outgoing calls.

Contact your service provider to activate Three-way Calling.

To make a Three-way call:

1. During a conversation, enter the phone number for the third person and press the key. The phone places the other person on hold.
2. When the third person answers, press the key again to begin your three-way call.

If one of the callers hangs up, you and remaining caller stay connected. If you initiated the call and you hang up first, all three participants are disconnected.

Entering Text

At many times when using your phone, you will need to enter text; such as when storing a name in Phone Book, creating your personal greeting or scheduling events on your calendar. You can enter alphanumeric characters into your phone using your phone's keypad.

Your phone has the following text input modes:

- **Thai Matrix mode**: This mode allows you to enter Thai characters using the different keys. Each time you press a key, a pop-up window appears on the display so that you can easily select the character you want to enter.
- **Thai/English T9 mode**: These modes allow you to enter words with only one key press per letter. Each key on the keypad has more than one letter - a single press of the **5** key could be a J, K or L. T9 mode automatically compares your key presses to an internal linguistic database to determine the correct word. T9 mode requires far fewer keystrokes than the traditional multi-tap method, Thai MT or Abc mode.
- **Thai MT/Abc mode**: These modes allow you to enter letters by pressing the key labeled with the letter you want to enter. You will have to press the key one, two or three times until the character you want appears on the display.
- **Symbol**: This mode allows you to enter special characters.
- **Number**: This mode allows you to enter numbers.

Changing the Text Input Mode

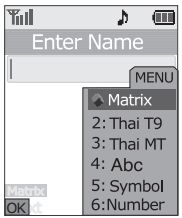
When you are in a field that allows you to enter characters, you should notice the text input mode indicator on the display.

Example: Entering a name for a Phone Book entry

Text input mode indicator

To change to another text input mode:

1. Press the **MENU** soft key.



2. Scroll to a mode by pressing the Navigation keys.

3. To select the highlighted mode, press the **OK** soft key. The indicator of the mode appears on the display.

   If you want to exit the menu without changing to a new mode, press the **CLR** key.

Note: You can quickly change the text input mode by pressing the # key. Press the key until the input mode indicator you want appears.

Thai Matrix Mode

In this input mode, a list showing the characters assigned to the number keypad displays each time you press a key, so that you can easily select the character you want to enter.

1. Press a key on the number keypad. A pop-up window appears showing the characters assigned to the keypad.

   Pressing the **1** key shows the punctuation mark list.

2. To display another character set, press the Up or Down key.

3. Press the number key corresponding to the character you want.

For example, to enter the letter "ส," press the **7** key. The following pop-up window appears.

ค	ง	ส
ห	ฟ	อ
ฮ		7

Press the **3** key to enter the letter "ส."

Other Usages

- You can quickly change to Symbol mode by pressing the * key. See page 53 for further details.
- To move the cursor to the left or right through your text, press the Left or Right key.
- Press the **CLR** key one or more times to delete the letters one by one to the left. Press and hold the **CLR** key to clear the display.

Thai T9 Mode

In this input mode, you can enter Thai characters using the T9 input mode, which allows you to enter words with one key press per letter.

1. Press the keys you want to enter just once per letter.

   The word you are typing appears on the display. It may change with each key press.

2. Type to the end of the word before editing or deleting any keystrokes.

   If the word that appears on the display is not the word that you want, press the Down key one or more times to display alternative word choices for the keys you have typed. The phone displays the most commonly used word first.

   For example, " สนาม " uses the **7**, **5**, **9** and **6** keys. The phone displays the most commonly used word first.

Other Usages

- You can quickly include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to Symbol mode by pressing the * key. See page 53 for details.
- To move the cursor to the left or right through your text, press the Left or Right key.
- Press the **CLR** key one or more times to delete the letters one by one to the left. Press and hold the **CLR** key to clear the display.

Thai MT Mode

In this input mode, you need to press the keys labeled with the required Thai letter:
- once for the first letter
- twice for the second letter
and so on.

For example, press the **7** key three times to display the letter " ส " and the **5** key three times to display the letter " ม."

The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then enter the next letter.

Other Usages

- You can quickly include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to Symbol mode by pressing the * key. See page 53 for details.
- To move the cursor to the left or right through your text, press the Left or Right key.
- Press the **CLR** key one or more times to delete the letters one by one to the left. Press and hold the **CLR** key to clear the display.

English (Abc) Mode

In this input mode, you can enter English letters using:

- Alphabet mode, in which you need to press the key labeled with the letter you want to enter until it displays.
- English T9 mode, in which you can enter words with only one key press per letter.

To change the input method or lettercase in English mode, press the * key one or more times to display the appropriate lettercase indicator.

- **abc**: Alphabet mode in Small case
- **Abc**: Alphabet mode in Initial Lock
- **ABC**: Alphabet mode in Capital case
- **T9 Eng**: English T9 mode

Using Alphabet Mode

When typing in the mode, you need to press the keys labeled with the required English letter:

- once for the first letter
- twice for the second letter
and so on.
This method is called multi-tap typing.

For example, you press the **2** key three times to display the letter "C" and the **5** key two times to display the letter "K."

The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then enter the next letter.

Other Usages

- You can quickly include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to Symbol mode by pressing and holding the * key. See page 53 for details.
- To move the cursor to the left or right through your text, press the Left or Right key.
- Press the **CLR** key one or more times to delete the letters one by one to the left. Press and hold the **CLR** key to clear the display.

Using English T9 Mode

To type a word, press keys corresponding to the letters you need. Remember the following as you are typing:

1. Press the keys you want to enter just once per letter.

   The word you are typing appears on the display. It may change with each key press.

2. Type to the end of the word before editing or deleting any keystrokes.

   If the word that appears on the display is not the word that you want, press the Up or Down key one or more times to display alternative word choices for the keys you have typed. The phone displays the most commonly used word first.

   For example, both "Of" and "Me" have the sequence of **6** and **3**. The phone displays the most commonly used word first.

3. Put a space between words by pressing the **1** key.

4. Continue entering the next word.

Other Usages

- You can insert only spaces by pressing the **1** key.
- You can insert periods, commas, hyphens, brackets, colons, semi-colons and number 1 by pressing the **0**, Up or Down key after pressing the **1** key.
- You can include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to Symbol mode by pressing and holding the * key. See page 53 for further details.
- To move the cursor to the left or right through your text, press the Left or Right key.
- Press the **CLR** key one or more times to delete the letters one by one to the left. Press and hold the **CLR** key to clear the display.

Symbol Mode

Symbol mode enables you to enter symbols.

Scroll to the symbol you want to enter by pressing the Navigation keys.

Press the ➤ key or **Next** soft key to insert the symbol into the text. The phone automatically switches back to the text entry mode used just prior to selecting Symbol mode.

Number Mode

Number mode enables you to enter numbers into your text. Press the keys corresponding to the digits you want to enter, and manually switch back to the text entry mode of your choice. See page 46 for changing the text input mode.

Using the Menus

This phone offers a range of functions that allows you to tailor it to your needs. These functions are arranged in menus and sub-menus.

The menus and sub-menus can be accessed by scrolling or by using the shortcuts.

Accessing a Menu Function by Scrolling

1. In Standby mode, press the soft key to access Menu mode.
2. Scroll using the Navigation keys to reach the main menu; for example, **Setup**. Press the **Select** soft key to enter the menu.
3. If the menu contains any sub-menus; for example, ภาษา, find the one you want by scrolling using the Up or Down key. Press the **Select** soft key to enter the sub-menu.

   If the menu you have selected contains sub-menus, repeat this step.
4. Scroll using the Navigation keys to find the setting of your choice.
5. Press the **Select** soft key to confirm the chosen setting.

Notes:
- You can return to the previous menu level by pressing the **CLR** key or the **Back** soft key.
- You can exit the menu without changing the menu settings by pressing the key.

Using Shortcuts

Menu, sub-menus and setting options are numbered and can be quickly accessed by using their shortcut numbers.

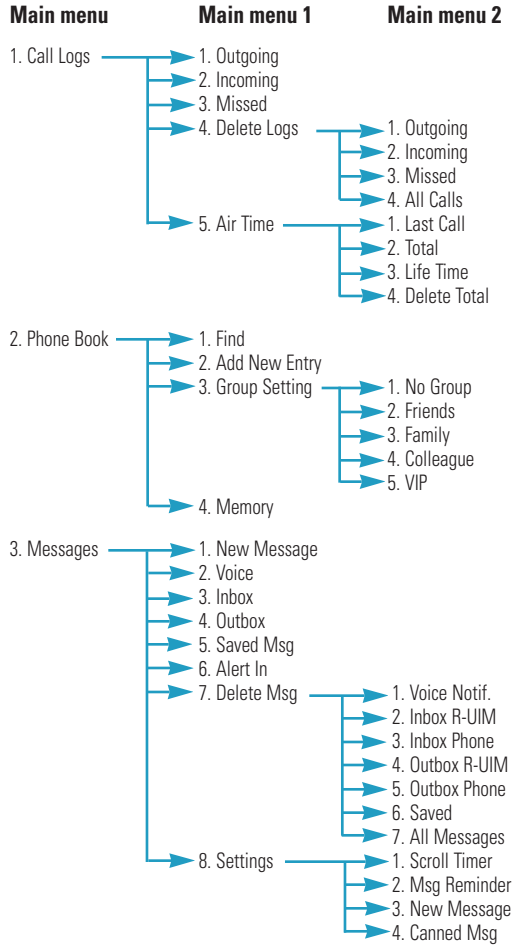
Note: The numbers assigned to each menu function are indicated on the list on the next page.

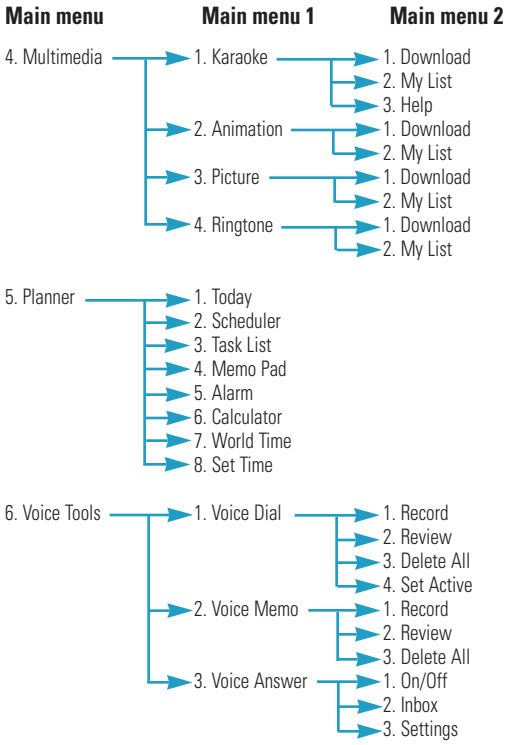
1. In Standby mode, press the soft key to access Menu mode.
2. Enter the first digit of the shortcut number. Repeat this for each digit of the shortcut number.

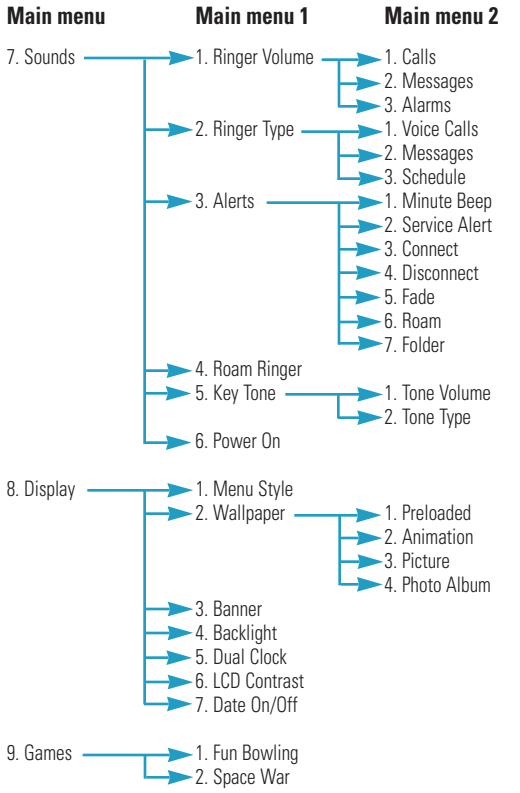
   Example: Accessing the ภาษา menu.

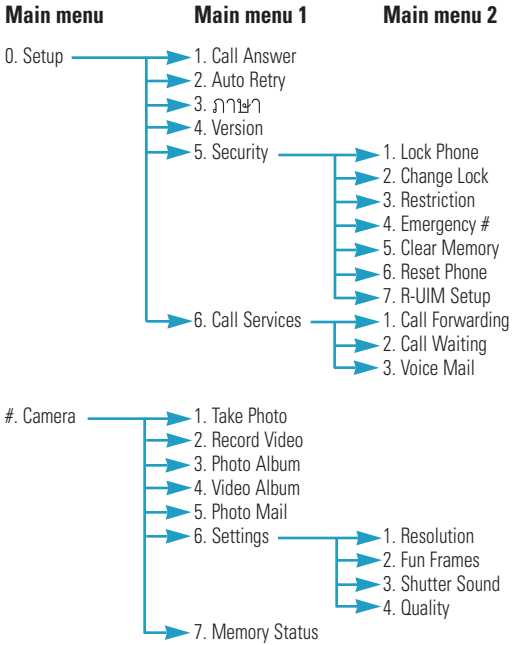
   Press the **0** and **3** keys. The **0** key selects **Setup** and the **3** key selects ภาษา.
3. Find the setting of your choice by pressing the Navigation keys.
4. Press the **Select** soft key to confirm the chosen setting.

List of Menu Functions




Main menu
Main menu 1
Main menu 2
4. Multimedia
1. Karaoke
1. Download
2. My List
3. Help
2. Animation
1. Download
2. My List
3. Picture
1. Download
2. My List
4. Ringtone
1. Download
2. My List
5. Planner
1. Today
2. Scheduler
3. Task List
4. Memo Pad
5. Alarm
6. Calculator
7. World Time
8. Set Time
6. Voice Tools
1. Voice Dial
1. Record
2. Review
3. Delete All
4. Set Active
2. Voice Memo
1. Record
2. Review
3. Delete All
3. Voice Answer
1. On/Off
2. Inbox
3. Settings


Main menu
Main menu 1
Main menu 2
7. Sounds
1. Ringer Volume
1. Calls
2. Messages
3. Alarms
2. Ringer Type
1. Voice Calls
2. Messages
3. Schedule
3. Alerts
1. Minute Beep
2. Service Alert
3. Connect
4. Disconnect
5. Fade
6. Roam
7. Folder
4. Roam Ringer
5. Key Tone
1. Tone Volume
2. Tone Type
6. Power On
8. Display
1. Menu Style
2. Wallpaper
1. Preloaded
2. Animation
3. Picture
4. Photo Album
3. Banner
4. Backlight
5. Dual Clock
6. LCD Contrast
7. Date On/Off
9. Games
1. Fun Bowling
2. Space War



Call Logs

The **Call Logs** menu allows you to:

- view and dial the calls dialed, received or missed.
- delete the numbers in the call log memory.
- view the length of calls.

Outgoing

1-1

This menu lets you view the last 20 numbers dialed. When you access this menu, a list of the outgoing calls display.

1. Press the Navigation keys to find the number or name you want, if it is saved in Phone Book.
2. Press the **Select** soft key to confirm the highlighted number.

   The dialed number, or name if it is saved in Phone Book, displays together with the time and date when the call was made.

3.

To	Press the
place a call to the number	key.
use the options	**MENU** soft key. For details, see page 62.
exit the call log	key.
scroll through the numbers	Navigation keys.

When you are viewing the number, press the **MENU** soft key to use the following options:

Call: dials the number.

Save: (available when the number is not stored in your Phone Book) allows you to save the number in your Phone Book.

Show Entry: (available when the number is stored in your Phone Book) displays the detailed information stored in the Phone Book entry, such as the name, number and memory location.

Delete: deletes the number.

Prepend: allows you to add an area code or feature code to the number before calling the number.

Incoming

1-2

This menu lets you view the last 20 numbers of the calls received if you are subscribed to the Caller Line Identification service. Contact your service provider for further details about this service.

When you access this menu, a list of the incoming calls displays.

For further details about scrolling through the list and accessing the call log, see "Outgoing" on page 61.

Missed

1-3

If Caller Line Identification service is available, your phone keeps a list of the last 20 incoming calls that you failed to answer. Contact your service provider for further details.

For further details about scrolling through the list and accessing the call log, see "Outgoing" on page 61.

Delete Logs

1-4

This menu allows you to delete the call records in each call type. You can also delete all of your call records at one time.

1. Select a call type to clear by pressing the Navigation keys.

   To delete all of your call records, select **All Calls**.

2. Press the **Select** soft key.

3. When a confirming message displays, select **Yes** to delete the log or all logs.

   If you want to cancel, select **No**.

4. Press the **Select** soft key to confirm the selection.

Air Time

1-5

Your phone keeps track of the amount of air time, or call time, used. Using this menu, you can view the air time for the last call or all calls made to or from your phone. You can also easily reset the air time measurement. This menu is convenient for estimating your usage.

Note: This feature is not intended to be used for billing purposes.

The following options are available:

Last Call: shows the air time of the last call.

Total: shows the number of all calls made to or from your phone and the total duration of the calls since the time counter was last set to zero by using the **Delete Total** option.

Life Time: shows the number and total duration of all calls made to or from your phone since the phone was shipped from the factory.

Delete Total: deletes the "Total" time measurement and resets the air time counter.

Phone Book

You can store frequently used phone numbers and the corresponding names in the memory of your phone and R-UIM. Although, they are physically separate, used as if they were a single entity, called Phone Book. Phone Book makes it easy for you to make a call without having to remember or entering the phone number.

Find

2-1

This option allows you to find an entry in Phone Book.

Note: You can access this menu by pressing the Right key in Standby mode.

1. Press the Left or Right key to scroll to the method you want.
   - **By Name**: enter the first few letters of the name you want to find. You can change the input language by using the right soft key. The Phone Book entries are listed starting with the first entry matching your input.
   - **By Entry**: enter the location number of the number your want to find by using the numeric keys.
   - **By Group**: press the Down key and select the group containing the entry you want to find by pressing the Left or Right key. The phone lists all the entries in the selected group.

- **By Storage**: press the Down key and select the memory location containing the entry you want to find by pressing the Left or Right key.

2. If necessary, press the Up or Down key to scroll to the entry you want.

3. When the entry you want highlights, press the **Select** soft key to access the entry.

   The phone shows details about the name.

4.

To	Press the
place a call to the number	key.
use the options	**MENU** soft key. For further details about the options, see below.

When you press the **MENU** soft key while viewing the number, the following options are available:

Call: allows you to place a call.

Edit: allows you to edit information about the entry.

Copy: allows you to copy a number to the phone's memory or R-UIM memory.

Prepend: allows you to add digits, such as area codes, to the number before dialing.

Delete: deletes the selected entry.

Add New Entry

2-2

This menu allows you to store a number with a name in your Phone Book. You can save all the person's numbers, such as the workplace number, mobile number and fax number, into one entry. In the phone's memory, a name can contain up to five numbers in each category. You can save only one number with a name in the R-UIM memory.

Creating a New Entry in the R-UIM

1. Enter a phone number and press the **Save** soft key.

2. Press the **Select** soft key when **Add New Name** is highlighted.

   If you are creating an entry for the first time, skip to the step 3.

3. Press the **Select** soft key when **R-UIM** is selected.

4. Enter a name and press the **Next** soft key.

   For further details about entering characters, see page 45.

   The memory location and the number display.

5. Press the **Save** soft key to save the entry.

6. When a confirming message displays, select **Yes** and press the **Select** soft key.

After storing, the phone displays the memory status of the Phone Book entry number for a few seconds.

Creating a New Entry in the Phone's Memory

1. Enter a phone number and press the **Save** soft key.
2. Press the **Select** soft key when **Add New Name** is highlighted.

   If you are creating an entry for the first time, skip to the step 3.
3. Select **Phone** and press the **Select** soft key.
4. Select an icon to identify the category of the number using the Navigation keys and press the **Select** soft key.
5. Enter a name and press the **Next** soft key. For further details about entering characters, see page 45.
6. Scroll to an option by pressing the Up or Down key. Press the **Edit** soft key to enter information or use the Left or Right key to change the setting.

   The following options are available:

   - **Enter Name**: allows you to enter a name of up to 12 characters. If you have already entered the name, you can edit the number by pressing the **Edit** soft key. For further details about entering text, see page 45.
   - **Entry**: the first available location displays. If necessary, enter the location number using the numeric keys or Left and Right keys.
   - **Home/Work/Mobile/Pager/Fax/No label**: allows you to store multiple numbers for each category.
   - **Speed dial**: allows you to select the number for speed dialing.
   - **E-mail**: allows you to store an e-mail address.
   - **URL**: allows you to store a URL address.
   - **Group**: allows you to select a caller group by pressing the Left or Right key. To remove the entry from a group, select **No Group**.
   - **Name Ringer**: allows you to select the unique ringer to be used for alerting you to an incoming call from the person.
   - **Birthday**: allows you to save the date of the person's birthday.
   - **Secret**: allows you to prevent a number from being displayed when it is accessed or dialed by unauthorized users. When this option is set to **ON**, only people with your phone's lock code can view the secret number.
   - **Image**: allows you to select an image to be displayed for alerting you to an incoming call from the person.
7. When you finish setting the options, press the **Save** soft key to store the entry.
8. When a confirming message displays, select **Yes** and press the **Select** soft key.

After storing, the phone displays the memory status of the Phone Book entry number for a few seconds.

Storing Phone Numbers at Call's End

To store a phone number at the end of your call:

1. Press the key to end the call. The call time and the phone number display.
2. To store the phone number, press the **Save** soft key.
3. To complete storing the number, follow from the step 2 on page 67 or page 68 depending on the memory location you want.

Adding a Number into an Existing Entry

You can store up to six numbers in an entry in the phone's memory.

1. Enter a number and press the **Save** soft key.
2. Scroll to the entry you want to add the number by pressing the Up or Down key and press the **Select** soft key.
3. To complete storing the number, follow from the step 4 in "Creating a New Entry in the Phone's Memory" on page 68.

Group Setting

2-3

This menu allows you to edit the settings for the caller groups.

1. Scroll to the group you want to edit by pressing the Navigation keys.
2. Press the **MENU** soft key to use the following options:
   - **Rename**: allows you to change the group name.
   - **Color LED**: allows you to select the color of the service light to indicate when a call comes in from one of the group members.
   - **Sounds**: allows you to select a ringer melody to indicate when a call comes in from one of the group members.
3. Select an option and press the **OK** soft key.
4. Enter a name or select the setting you want and press the **Save** or **Select** soft key.
5. Repeat the steps 2 though 4, if necessary.

Memory

2-4

This menu shows you how many Phone Book locations are empty.

Press the **Back** soft key to go back to the previous menu level.

Messages

Your phone can receive voicemail notification, text messages and web messages. You can also send text messages.

When the phone receives a new message, an alert sounds and a text notification displays along with the name and the phone number of the caller, if available. The New Message icon ( ) remains on the screen until the new messages have been read or the new voicemail messages have been listened to.

It is possible to receive a new message in Lock mode, but you need to unlock the phone to view the message. If you receive an incoming message during a call, your phone automatically mutes the ringer. This is to avoid the phone ringing in your ear while you are trying to converse.

Note: You can quickly access this menu by pressing the Left key in Standby mode.

New Message

3-1

You can create short text messages and send it to other mobile phones.

1. Enter a destination number by using the numeric keys.

   Pressing the **MENU** soft key allows you to search your Phone Book for a number.

2. To send your message to multiple destinations, insert a space by pressing the # key and add another phone number.

3. When you are finished entering the destinations, press the **Next** soft key.

4. Enter the message contents. For further details about entering text, see page 45.

   When you press the **MENU** soft key, the **Canned** option is available to allow you to use the 44 canned messages preset in the **Canned Msg** menu (**3-8-4**); for further details, see page 81.

5. When you have finished entering, press the **Next** soft key. The following options display. To select an option, press the Up or Down key and press the **Select** soft key.

   - **Send To**: allows you to edit the destination number.
   - **Msg**: allows you to edit the message contents entered.
   - **Call Back #**: allows you to edit the callback number.
   - **Options**: displays the following setting options. Scroll to an option by pressing the Up or Down key and change the setting by pressing the Left key.
     - **Priority**: allows you to select the message's priority.
     - **Privacy**: allows you to keep your message from being accessed by unauthorized people. The recipient needs to enter her/his password to read your message.

- **Validity**: allows you to set the length of time your text messages are stored for at the message center while attempts are made to deliver them.
- **Send Later**: allows you to select how long the delivery of the message will be delayed for at the message center, if you do not want to send it immediately.
- **Delivery Ack**: turns the delivery acknowledgement feature on or off. When this option is activated, the network informs you whether or not your message has been read by the recipient.
- **Save Message**: allows you to set the phone to save messages in your Outbox after the transmission. When you select **Prompt Save**, the phone asks if you want to save the message.

Note: **Delivery Ack**, **Message Save** options can be preset via the **New Message** menu (**3-8-3**); for details, see page 80.

- **Save Msg**: stores the message contents in the **Saved Msg** menu (**3-5**) for future use. Press the **Save** soft key.

Note: Pressing the key at any time sends the message.

6. Repeat step 5 to set the message options, if necessary.

7. After changing the setting options, press the key to send the message.

Note: Closing the phone or pressing the key before the message is sent terminates the transmission.

Voice

3-2

When you access this menu, the display shows how many new voice messages you have received.

Press the **Call** soft key to dial your voicemail center and listen to the messages. Follow the instructions from the system.

You can access the following options by pressing the **MENU** soft key:

Call: allows you to listen to the voice messages. The phone automatically dials your voicemail center. Follow the instructions from the system.

Clear Icon: clears the New Message icon and resets the counter for a new voice message, if necessary. The system resets the counter automatically after you listen to all of the new messages.

Inbox

3-3

Your phone can store up to 99 messages all together in the Inbox, Outbox and Saved Msg box. If the memory is full, a warning message displays and the phone deletes the old messages to receive new ones.

When you access the **R-UIM** menu (**3-3-1**) or **Phone** menu (**3-3-2**), the list of received message displays.

1. Highlight a message from the list and press the **Select** soft key.

   The time and date when the message was received, the sender's number or name if stored in your Phone Book and message text appear on the display.

2. To scroll through the contents, press the Up or Down key.

   When you press the **Next** soft key, you can view the callback number. To scroll to the previous screen, press the **Prev** soft key.

3. To scroll to the previous or next message, press the Left or Right key.

While viewing a message, press the **MENU** soft key to use the following options:

Reply: allows you to send a reply message to the sender.

Forward: allows you to forward the message to another person.

Delete: deletes the message from the Inbox.

Call: places a call to the displayed number.

Save: allows you to save the callback number of the message.

Outbox

3-4

This message box is used to store the messages that you have already sent or will send.

When you access the **R-UIM** menu (**3-4-1**) or **Phone** menu (**3-4-2**), the list of sent messages displays.

1. Select a message from the list and press the **Select** soft key.

2. To scroll through the contents, press the Up or Down key.

3. To scroll to the previous or next message, press the Left or Right key.

While reading a message, you can choose the following options by pressing the **MENU** soft key:

Resend: allows you to resend the message. For further details about sending a message, see page 72.

Delete: deletes the message.

Saved Msg

3-5

Your phone can store draft messages in the Saved Msg folder. If you saved message contents using the **Save Msg** option before sending it (see page 74), you can access them using this menu.

1. Highlight a message from the list and press the **Select** soft key.
2. To scroll through the contents, press the Up or Down key.
3. To scroll to the previous or next message, press the Left or Right key.

While reading a message, press the **MENU** soft key to use the following options:

Resend: allows you to edit the message and send it to another destination. For further details about sending a message, see page 72.

Delete: deletes the message.

Alert In

3-6

When you receive a new Web message from the web server, your phone alerts you and the following options display:

View: allows you to access the Alert Inbox to display the web message.

Skip: select this option if you do not wish to read the message at this time. You can press the **CLR** key.

When you access the **Alert In** menu (**3-6**), a list of the received web messages displays. Press the Up or Down key to scroll to the message you want to view and press the √ soft key. The phone launches the web browser and displays the message contents. If necessary, press the Up or Down key to scan through the contents.

Erase: erase the Alert Inbox message.

Delete Msg

3-7

Using this menu, you can delete all of the messages in each message box; Voice, Inbox, Outbox and Saved Msg box. You can also delete all of the messages at one time by selecting **All Messages**.

When a confirming message appears, select **Yes** and press the **Select** soft key.

Settings

3-8

Using this menu, you can set up various options for using the messaging feature.

Scroll Timer (3-8-1)

If an incoming message is too long for the display, the phone displays it by scrolling the screen automatically. You can set how fast the phone scrolls the message to the next screen.

If you select **Off**, you need to scroll to the next screen manually by using the Up or Down key.

Msg Reminder (3-8-2)

When a message is received, the phone alerts you by sounding the specified ringer. You can set how often this happens.

When you select **Off**, the phone alerts you just once when you receive an incoming message and displays the New Message icon ( ).

New Message (3-8-3)

You can change the default settings for creating a new message.

The following options are available:

Callback #: allows you to change the callback number.

Save Message: allows you to set whether or not you want the transmitted message to be saved in your Outbox.

- **Do Not Save**: the phone does not save the message.
- **Prompt Save**: the phone asks whether or not you want to save the message.
- **Auto Save**: the phone automatically saves the message.

Entry Method: allows you to select the text input mode from **Thai Matrix**, **Thai Multitab**, **Thai T9**, **English T9** and **Abc**.

Delivery Ack: allows you to activate or deactivate the delivery acknowledgement feature.

Canned Msg (3-8-4)

This menu allows you to change 44 canned messages.

1. Scroll to a message on the list and press the **Edit** soft key.
2. Change the message, as needed.

   For further details about entering characters, see page 45.
3. When you are finished, press the **Save** soft key.

Multimedia

The **Multimedia** menu allows you to:
- download various media items from the Internet, such as karaoke, animations, pictures and ring tones.
- view the downloaded media items and play them.

Karaoke

4-1

You can download karaoke files from the wireless web and play and sing along with your files.

The following options are available:

Download: allows you to download karaoke files from the web server given by your service provider.

My List: shows the list of downloaded songs from the web server.

To play a song:

1. Scroll to the song you want to play by pressing the Up or Down key.
2. Press the **Select** soft key to play the file.
3.

To	Press the
pause and resume the playing	left soft key.
adjust the volume	Volume keys.
stop	right soft key.

4. To return to Standby mode, press the key.

To erase a file from the phone's memory:

1. Scroll to the file you want to play by pressing the Up or Down key and press the **MENU** soft key.
2. Select **Delete File** and press the **Select** soft key.

   To delete all of the karaoke files, select **Delete All**.
3. When a confirming message displays, select **Yes** and press the **Select** soft key.

To change the file name:

1. Scroll to the file you want to play by pressing the Up or Down key and press the **MENU** soft key.
2. Select **Rename** and press the **Select** soft key.
3. Enter a new name and press the **Save** soft key.

Help: shows the keys you can use when you play a song.

Animation

4-2

You can download animation files from the wireless web and view them.

You can use the downloaded animation files as background images in the **Wallpaper** menu (**8-2**). For further details, see page 107.

The following options are available:

Download: allows you to download animation files from the web server given by your service provider.

My List: shows the list of downloaded files from the web server.

Picture

4-3

You can download pictures from the wireless web and view them.

You can use the downloaded pictures as background images in the **Wallpaper** menu (**8-2**). For further details, see page 107.

The following options are available:

Download: allows you to download images from the web server given by your service provider.

My List: shows the list of downloaded files from the web server.

Ringtone

4-4

You can download tones and melodies from the wireless web and play them.

You can use the downloaded melodies as a call ringer in the **Ringer Type** menu (**7-2**). For further details, see page 104.

The following options are available:

Download: allows you to download tones and melodies from the web server given by your service provider.

My List: shows the list of downloaded files from the web server.

Planner

The Planner feature enables you to:

- keep track of important dates and events.
- create a list of things to do.
- set the phone to ring at a specified time.
- use the phone as a calculator.
- check the time in another part of the world.

Today

5-1

You can schedule up to 9 events for the current day and up to 70 events on the calendar, indicating each event's start and end time. You can even have your phone's calendar alert you before an event commences. Events scheduled for future dates automatically appear on your Today schedule on that day.

Scheduling a New Event

1. Enter your event contents and press the **Next** soft key.

   For further details about entering characters, see page 45.

2. Enter the start time and date using the numeric keys and press the Down key.

   You need to enter the time in 12-hour format. Press the # key for toggle between **A** (AM) and **P** (PM).

   Note: You can move through the input fields using the Navigation keys.

3. Enter the end time and date using the numeric keys and press the Down key.

4. Select when an alarm informs you of the event by pressing the Left or Right key. When you select **No Alarm**, the phone does not sound the alarm.

5. Press the **Save** soft key to store your event.

Viewing Your Today's Schedule

The list of the events stored on the current day displays when you select the **Today** menu (**5-1**).

While viewing the schedule list, press the Navigation keys to scroll to an event and:

- Press the **View** soft key to view details. To view the start time and end time, use the Up or Down key.

  While viewing the event, press the **MENU** soft key to use the following options:

  Edit: allows you to edit the event.

  Delete: allows you to delete the event.

  Delete All: allows you to delete all of the events.

- Press the **MENU** soft key to use the following options:

  Add New: allows you to add a new event.

  Delete: allows you to delete the selected event.

  Delete All: allows you to delete all of the events.

Scheduler

5-2

This menu allows you to view the current month as well as the past or future months, in calendar format. On the calendar, the current day is boldfaced and days with scheduled events are highlighted.

Note: You can quickly access this menu by pressing the Up key in Standby mode.

Scrolling Through the Calendar

- You can move to the previous or next day by pressing the Left or Right key.
- You can move up or down the calendar to the previous or next week by pressing the Up or Down key.
- To display the next or previous month, press the Volume keys on the left side of the phone.
- You can select today's date of the previous or following year by pressing the * or # key.

On the calendar, press the **MENU** soft key to use the following options:

View: allows you to view the scheduled events of the day.

Add New: allows you to add a new event for that day.

Delete All: allows you to delete all of the events.

Creating a New Schedule

You can store up to 70 events total in the scheduler, with up to 9 events for one day.

1. Select a day on the calendar, referring to "Scrolling Through the Calendar" on page 87 and press the **View** soft key.
2. Enter your event contents and press the **Next** soft key.

   For further details about entering characters, see page 45.
3. Enter the start time and date using the numeric keys and press the Down key.

   You need to enter the time in 12-hour format. Press the # key for toggle between **A** (AM) and **P** (PM).

   Note: You can move through the input fields using the Navigation keys.
4. Enter the end time and date by using the numeric keys and press the Down key.
5. Select when the alarm will inform you of the event, by pressing the Left or Right key. When you select **No Alarm**, the phone does not sound the alarm.
6. Press the **Save** soft key to store your event.

Viewing Your Schedule

Select a day with scheduled events on the calendar, referring to "Scrolling Through the Calendar" on page 87 and press the **View** soft key. The first event stored for that day displays.

Press the Left or Right key to view the previous or next event. To view the start time and end time, press the Up or Down key.

While viewing the event, press the **MENU** soft key to use the following options:

Edit: allows you to edit the event.

Delete: allows you to delete the event.

Delete All: allows you to delete all of the events.

Task List

5-3

This feature allows you to enter a list of tasks you need to do and assign both a deadline and a priority to them.

Creating a New Task

1. Enter a task and press the **Next** soft key to confirm.

   For further details about entering characters, see page 45.

2. Enter the time and date by which the task needs to be done by using the numeric keys and press the Down key.

   You need to enter the time in 12-hour format. Press the # key for toggle between **A** (AM) and **P** (PM).

   Note: You can move through the input fields using the Navigation keys.

3. Select a high or low priority using the Left or Right key and press the **Save** soft key to store the task.

Viewing a Task

The list of tasks displays when you access the **Task List** menu (**5-3**).

While viewing the task list, press the Navigation keys to scroll to a task and:

- Press the **View** soft key to view details. You can move to the previous or the next task by pressing the Navigation keys.

  While viewing the task, press the **MENU** soft key to use the following options:

  Edit: allows you to edit the task.

  Delete: allows you to delete the task.

  Delete All: allows you to delete all of the tasks.

- Press the **MENU** soft key to use the following options:

  Add New: allows you to add a new task.

  Delete: allows you to delete the selected task.

  Delete All: allows you to delete all of the tasks.

Memo Pad

5-4

This menu allows you to write down memos about anything that you need to remember.

Writing a New Memo

1. Enter the memo contents.

   For further details about entering characters, see page 45.

2. Press the **Save** soft key to store the memo.

Viewing a Memo

The list of your memos displays when you access the **Memo Pad** menu (**5-4**).

While viewing the memo list, press the Navigation keys to scroll to a memo and:

- Press the **View** soft key to view details. You can move to the previous or next memo by pressing the Navigation keys.

  While viewing the memo, press the **MENU** soft key to use the following options:

  Edit: allows you to edit the memo.

  Delete: allows you to delete the memo.

  Delete All: allows you to delete all of the memos.

- Press the **MENU** soft key to use the following options:

  Add New: allows you to add a new memo.

  Delete: allows you to delete the selected memo.

  Delete All: allows you to delete all of the memos.

Alarm

5-5

This option allows you to set an alarm to ring at a specific time.

To set an alarm:

1. Select an alarm, **Alarm #1** through **Alarm #3**, and press the **Set** soft key.
2. Select **On** by pressing the Left or Right key and press the Down key.
3. Enter the time for the alarm to ring by using the numeric keys and press the Down key.

   You need to enter the time in 12-hour format. Press the # key for toggle between **A** (AM) and **P** (PM).
4. Select an alarm melody by pressing the Left or Right key and press the Down key.
5. Select an alarm type from **Daily** and **Once** by pressing the Left or Right key.
6. Press the **Save** soft key to save the alarm setting.

To stop the alarm when it rings, press any key.

To deactivate an alarm setting, access it from the alarm list and select **Off** on the top line.

Calculator

5-6

Using this feature, you can use the phone as a calculator. The calculator provides the basic arithmetic functions; addition, subtraction, multiplication and division.

1. Enter a number on the first line using the numeric keys.

   Notes:
   - To erase mistakes or clear the display, press the **CLR** key.
   - Use the * key to enter a decimal point and the # key to change the number to a negative (-).
2. Enter the operation for your calculation on the second line by pressing the Navigation keys, according to the graphics on the display.
3. Enter the next second number.
4. Repeat steps 2 and 3 as many times as required.
5. To view the result, press the **=** soft key.

World Time

5-7

You can use this option to find out what time it is in another part of the world.

Select the city corresponding to your time zone by pressing the Navigation keys one or more times. The local time and date display.

To turn on or off the DST (Daylight Saving Time) setting:

1. After selecting the time zone you want to apply the DST, press the **MENU** soft key.
2. When **DST setting** highlights, press the **OK** soft key.
3. Select **On** or **Off** and press the **Select** soft key.

Set Time

5-8

To display the correct time and date on the idle screen or to use the Planner features, such as **Today**, **Scheduler**, **Task List**, **Alarm**, and **World Time**, you have to set the current time and date using this menu, if necessary.

Enter the time and date by using the numeric keys.

The minute, hour, month and day each must be entered using 2 digits and the year requires all 4 digits. You need to enter the hour in 12-hour format. Press the # key for toggle between **A** (AM) and **P** (PM).

Voice Tools

In this menu, you can use the phone's voice features, allowing you to:

- dial a number by saying an associated name.
- record a voice memo.
- set the phone to answer a call and record the caller's message.

Voice Dial

6-1

You can call up to 20 stored entries by speaking the name into the microphone. Using the voice dialing option requires that you first program the phone to recognize the name of the person you are calling.

Note: You can quickly enter this menu by pressing the Down key in Standby mode.

Record (6-1-1)

This option allows you to record names and register numbers for subsequent voice dialing. The phone provides voice prompts and the screen display guides you through the recording process.

1. Say the name you want to program at the prompt.

   The phone stores the name as the first sample.

2. Respond to the prompt by repeating the name after the beep.

   The phone stores the name as the second sample, and then prompts you to enter the phone number.

3. Enter the phone number by pressing the numeric keys and press the **OK** soft key.

Tips for Recording a Name

- Avoid recording names that sound similar phonetically. If you record a name similar to one already in the memory, the phone requests another name.
- Speak clearly and naturally.
- The person who will use the phone should record the name. The phone does not recognize the name if the voice is different.
- Avoid too long or too short names. Names with two to five syllables are recommended.
- If this feature does not work properly, erase the name and try again with another name.
- Practice several times to obtain the best result.
- You can record up to 20 names. If you try to record more than that, the phone announces "Out of space to store voice dial!"

Review (*6-1-2*)

When a list of voice dial numbers you stored displays, scroll to the entry you want and press the **Play** soft key. The recorded name plays audibly.

On the list, press the **MENU** soft key to use the following options:

Delete: deletes the number.

Send: places a call to the number.

Delete All (*6-1-3*)

This menu deletes all of the entries on the Voice Dial list.

When a confirming message displays, select **Yes** and press the **Select** soft key.

Set Active (*6-1-4*)

The voice dialing feature is always active once you have programmed the phone to accept voice dialing tags and the associated phone numbers.

Using the **Set Active** menu, you can set how to initiate a voice dialing call. The following options are available:

[*] Only: enables voice dialing only by pressing and holding the * key.

[*] / Folder: enables voice dialing by pressing and holding the * key or by opening the phone.

[*] / Headset: enables voice dialing by pressing and holding the * key or by pressing and holding the button on your headset.

Voice Memo

6-2

You can record voice memos of up to 4 minutes total. This feature shares the memory with the Voice Answer feature and the amount of time for memos are dependent on the available memory minus any voice messages; for example, if your phone has voice messages of 4 minutes total, you cannot record any voice memos.

Record (6-2-1)

1. Record a memo by speaking into the microphone.

   When you are recording, a timer displays to show you the elapsed time.

   You can pause the recording by pressing the Left key and then resume by pressing the Right key.

2. Press the **Stop** soft key to end your recording.

   The following options are available:

   - **Review**: allows you to review the voice memo. The screen displays the length of time along with the time and date of your memo.
   - **Rerecord**: allows you to discard the memo and record another one.
   - **Save**: allows you to save the voice memo.
   - **Quit**: allows you to exit the voice memo recording without saving.

3. When you are satisfied, select the **Save** option and press the **Select** soft key.

4. Enter a title for the memo and press the **Save** soft key.

   For further details about entering text, see page 45.

Review (6-2-2)

When a list of your voice memos displays, scroll to the memo you want to review by pressing the Up or Down key and press the **Play** soft key. The phone plays the memo.

On the memo list, press the **MENU** soft key to use the following options:

Delete: deletes the memo.

Info: shows detailed information about the memo, such as the title, length, memory size and the time and the date when the memo was recorded.

Delete All (6-2-3)

This menu allows you to delete all of the voice memos.

When a confirming message displays, select **Yes** and press the **Select** soft key.

Voice Answer

6-3

If you are unable to answer incoming calls, your phone answers the calls by playing the preset greeting message that comes with the phone or with your own message. The phone will then record the caller's message if the caller chooses to do so.

On/Off (6-3-1)

This menu allows you to enable or disable Voice Answer mode.

Inbox (6-3-2)

You can listen to callers' messages recorded in your phone. When you access this option, a list of recorded messages displays.

Note: If the phone has the callers' messages waiting to be checked, it displays the total number of the messages and the time and date when the last message was recorded. Pressing the **Select** soft key allows you to access the Inbox.

Press the Left or Right key to scroll to a message and press the **Play** soft key to play it.

You can pause the playback by pressing the Left key and then resume by pressing the Right key.

On the message list, press the **MENU** soft key to the following options:

Play: plays the message.

Delete: deletes the message.

Info: shows detailed information on the message, such as the caller's number, if identified, length, memory size and the time and date when the message was recorded.

Send: places a call to the caller's number, if identified.

Settings (6-3-3)

You can change the settings for Voice Answer mode. The following options are available:

Greeting: Your phone provides you with a preset greeting message to be played when a call comes in. You can also record your own greeting message.

To record a greeting message:

1. Select **Record** and press the **Select** soft key.
2. Wait until a prompt sounds and record a greeting message by speaking into the microphone.

   You can pause the playback by pressing the Left key and then resume by pressing the Right key.
3. When recording is complete, press the **Save** soft key.

To play the currently selected message, highlight **Play** and press the **Select** soft key.

To enable or disable your own greeting message:

1. Highlight **Select** and press the **Select** soft key.
2. Select **My message** to use your message or **Default** to use the default message.
3. Press the **Select** soft key to save your selection.

Note: Once you have recorded your own message and then changed back to the default greeting message, your recorded message will then be deleted.

Screening: allows you to enable or disable the screening speaker which allows you to listen to a caller's message while the caller is leaving it.

Wait Time: allows you to set how long the phone waits before answering a call with the greeting message. You can select from **After 3 Sec**, **After 5 Sec** and **After 10 Sec**. When you select **Off**, the phone answers a call as soon as it comes in.

Sounds

You can use the **Sounds** menu to customize various sound settings, such as the:

- ringer volume, type, and tone.
- key tone and alert sounds.
- alert sounds and a ringer for roaming calls.
- melody which is played when the phone is switched on.

Ringer Volume

7-1

This menu allows you to adjust the ringer volume for the following items:

Calls: allows you to adjust the ringer volume for incoming calls.

Messages: allows you to adjust the ringer volume for incoming messages.

Alarms: allows you to adjust the ringer volume for an alarm.

Press the Navigation keys to adjust the volume level or select the type. The following options are available:

- **Silent**: the phone does not sound a ring.
- **Vibrate**: the phone switches to Vibration mode. An incoming call vibrates the phone.
- **1-Beep**: the phone sounds a beep.
- **Level 1** ~ **8**: you can adjust the volume level. The graphic shows the volume level; the more bars, the louder.

- **High+Vib**: the phone rings in the highest volume level and then vibrates.

Note: The options available may be different depending on the selected ringer item.

Ringer Type

7-2

This menu allows you to set unique ringer melodies for three items.

1. Select an item you want to set unique ringer by pressing the Navigation keys and press the **Select** soft key.
2. For **Voice Calls** and **Schedule**, select ringer category by pressing the Left or Right key.

   For **Messages**, select ringer type and press the **Select** soft key.
3. Press the Down key and select a ringer by pressing the Left or Right key.
4. Press the **Select** soft key to save the setting.

Alerts

7-3

Your phone gives audible alerts (beeps) at specified times to inform you that certain things have happened. The alerts only occurs in your earpiece so the other person does not hear them.

The following alerts are available:

Minute Beep: When this option is set to **On**, the phone sounds an alert 50 seconds before each elapsed minute to remind you of the length of the current call.

Service Alert: When this option is set to **On**, the phone sounds an alert when you exit or enter a service area.

Connect: When this option is set to **On**, the phone sounds a connect tone when your call is connected to the system.

Disconnect: When this option is set to **On**, the phone sounds a disconnect tone when a call is disconnected.

Fade: When this option is set to **On**, the phone sounds an alert when a dropped call occurs during conversation in response to a signal fade.

Roam: When this option is set to **On**, the phone sounds an alert when your phone starts roaming.

Folder: When this option is set to **On**, the phone sounds an alert when you open or close the phone.

Roam Ringer

7-4

In this menu, you can set the phone to use a distinctive ring for incoming roaming calls.

Choose **Distinctive** to use a distinctive ringer or **Normal** to use a normal ringer.

Key Tone

7-5

In this menu, you can set up the sound your phone sounds when you press a key.

The following options are available:

Tone Volume: adjusts the volume using the Navigation keys or the Volume keys on the left side of the phone.

Tone Type: allows you to select the type of key tones.

Power On

7-6

In this menu, you can activate or deactivate the melody that the phone plays when it is switched on.

Choose **On** to use a power on sound, otherwise **Off**.

Display

The Display feature enables you to:

- change the style of the menu display.
- set an image to be displayed in Standby mode or create your own greeting.
- set the length of time for the backlight.
- select a time zone for the dual clock.
- adjust the brightness of the main and external LCD screens.
- set the time and date to be displayed in Standby mode.

Menu Style

8-1

This menu allows you to select the menu display style. You can chose from **Camera**, **Nature** and **Hutch**.

Wallpaper

8-2

You can change the background image to be displayed in Standby mode.

Select one of the default images in the **Preloaded** menu or a downloaded images in the **Animation** and **Picture** menus. You can also select the photos you have taken by using the phone in the **Photo Album** menu.

When you select **Dual Clock** in the **Preloaded** menu, the phone displays analogue clocks for the two time zones selected in the **Dual Clock** menu (**8-5**). See the next page.

Note: When you set a downloaded image as the wallpaper, the time and date may not be shown on the idle screen.

Banner

8-3

This menu allows you to set a banner message to be displayed at the bottom of the display in Standby mode.

1. If necessary, press the **CLR** key repeatedly to clear the old message letter by letter or press and hold the **CLR** key to clear the entire display.
2. Enter your banner message.

   For further details about entering characters, see page 45.
3. When you finish entering the message, press the **Save** soft key.

Backlight

8-4

In this menu, you can set the length of time the backlight is on. Remember that backlight use drains your battery faster.

7 Seconds, **15 Seconds**, **30 Seconds** and **40 Seconds** are available.

Dual Clock

8-5

In this menu, you can choose two time zones to be displayed when you select **Dual Clock** for the wall paper image; for further details, see page 107.

To select time zones for the dual clock:

1. When **Location** is highlighted, press the Down key.
2. Select the time zone for the first clock by pressing the Left or Right key and press the Down key.
3. Select the time zone for the second clock by pressing the Left or Right key.
4. Press the **Select** soft key to save the selection.

To apply the daylight savings time:

1. Press the Left or Right key to display **DST** and press the Down key.
2. Select **Yes** to use the daylight savings time for the first clock. Otherwise, select **No**.
3. Press the Down key and repeat the step 2 for the second clock.
4. Press the **Select** soft key to confirm the selection.

LCD Contrast

8-6

This menu allows you to adjust the brightness of the main and external LCD screens to see them better in different lighting conditions.

To adjust the contrast:

1. Select **Main** or **Sub** by pressing the Navigation keys and press the **Select** soft key.
2. Adjust the contrast value by pressing the Navigation keys.
3. Press the **Save** soft key to save the setting.

Date On/Off

8-7

This menu allows you to set whether or not the current time and date display on the idle screen.

Select **On** to display the current time and date, otherwise **Off**.

Games

You can enjoy two fun games, **Fun Bowling** (**9-1**) and **Space War** (**9-2**), on your phone.

1. Select a game by pressing the Up or Down key and press the **Select** soft key.

   The phone displays the following options:

   - **Newgame**: allows you to start a new game.
   - **HighScore**: shows you the high score list.
   - **Key Info.**: gives you the key helper screen to play the game.
   - **Continue**: allows you to continue the last game you played. This option is activated only when you have already played a game.
2. Select **Newgame** or **Continue** by using the numeric keys.
3. For **Fun Bowling**, you can select the game type, frame type and ball type. Press the Up or Down key to scroll to an option and then press the left or right soft key.

   For **Space War**, press the left or right soft key to start the game.
4. While playing a game:

To	Press the
adjust the game volume	Volume keys on the left side of your phone.
stop the game	**CLR** or ⏻ key.

Setup

Many different features of your phone can be customized to suit your preferences.

Call Answer

0-1

This menu allows you to select how to answer an incoming call.

The following options are available:

Any Key: the phone answers when you press any key except for the key and Volume keys.

Folder Open: the phone answers when you open the phone. If it is already open, press the key.

SEND Key: the phone answers only when you press the key.

Auto Retry

0-2

When this menu is activated, your phone automatically redials the call up to 10 times when a connection fails.

To activate this feature, select how often the phone automatically redials; **60 Seconds**, **30 Seconds**, and **10 Seconds** are available.

Select **Off** to deactivate the feature.

ภาษา

0-3

This menu allows you to change the language of voice prompts, menus and key input.

Choose from either **English** or ไทย.

Version

0-4

This menu allows you to view the software and hardware versions of your phone. This feature is helpful if you need to call customer care.

Security

0-5

Your phone provides you with many security options, including a user-programmable lock code and call restriction features.

To access the **Security** menu, you must enter the lock code. The lock code is preset to "0000" at the factory.

Lock Phone (*0-5-1*)

When the phone is locked, you cannot operate the phone until you enter the lock code.

The following options are available:

Unlocked: the phone remains unlocked.

On Power-Up: the phone is automatically locked the next time you turn the phone on.

Lock Now: the phone is immediately locked.

To place an emergency call, enter the number and then press the key. The phone recognizes three emergency numbers stored in the **Emergency #** menu (**0-5-4**).

To unlock the phone, press one of the soft keys and the Navigation keys, and enter the lock code. The phone is immediately unlocked.

Change Lock (*0-5-2*)

This feature allows you to change your current lock code to a new one. The lock code is preset to "0000" at the factory.

Enter a new, four-digit lock code and then press the **Save** soft key.

Restriction (*0-5-3*)

This feature allows you to restrict all of your outgoing calls from your phone, except for emergency calls using the standard emergency numbers or the three numbers programmed in the **Emergency #** menu (**0-5-4**).

Select **On** to restrict the calls, or **Off** to cancel the restriction.

Emergency # (*0-5-4*)

Your phone provides one default emergency number, 191. You can also store another emergency number. This number can be manually dialed at any time, even when your phone is locked or when all of the outgoing calls are restricted.

IMPORTANT NOTICE!
A connection cannot always be guaranteed, due to various transmission methods, network parameters and user settings used to complete a call from your wireless phone. Therefore, emergency calling may not be available on all wireless networks at all times.

DO NOT depend on this phone as the primary method of dialing 191 or for any other essential or emergency communication.

Remember to always turn your phone on and check for the adequate signal strength before placing a call.

To store an emergency number:

1. Select the location and press the **Select** soft key.
2. Enter the number you want to store.

   Each emergency number can be up to 32 digits long.
3. Press the **Save** soft key to store the number.

To make an emergency call in Lock mode, simply enter the programmed number, and then press the key.

Clear Memory (*0-5-5*)

This menu allows you to delete all of the numbers in the R-UIM or phone's memory. You can delete all of the numbers by selecting **All**.

When a confirming message displays, select **Yes** and press the **Select** soft key.

Reset Phone (*0-5-6*)

Resetting the phone erases all of your saved selections in the user-selectable setting options and returns them to the factory default settings.

When a confirming message appears, select **Yes** and press the **Select** soft key. The phone turns off and on itself and then returns to Standby mode.

R-UIM Setup (*0-5-7*)

In this menu, you can use the options for the R-UIM.

PIN Check

When this feature is enabled, you must enter the PIN assigned to your R-UIM each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval. But emergency calls are available by pressing the key without the PIN code.

Note: After enabling or disabling the PIN Check feature, you must enter your PIN.

Change PIN

This feature allows you to change the PIN of the R-UIM to a new one, provided that the PIN Check feature (**0-5-7-1**) is enabled. You must enter the current PIN before you can specify a new one.

R-UIM Lock

When this feature is enabled, your phone only works with the current R-UIM. To use a different card, you need to enter the R-UIM lock code.

Once you have entered the lock code, you are asked to confirm it by entering it again.

To unlock the R-UIM, you must enter the R-UIM lock code.

Call Services 0-6

This menu contains network services which allow you to forward incoming calls when you can't answer a call, to receive a second call and to access the voice mail server. Please contact your service provider to check their availability and details.

Call Forwarding (0-6-1)

This menu enables incoming calls to be rerouted to a number that you specify.

Example: You may wish to forward your business calls to a colleague while you are on holiday.

The following options are available:

All Calls: all calls are forwarded.

No Answer: calls are forwarded only when you do not answer them.

Busy: calls are forwarded when you are already on another call.

Set Destination: you can set or change the phone number to which the calls are to be forwarded.

Note: You need to set the destination before activating one of the Call Forwarding options.

Call Waiting (0-6-2)

When you set this feature on, the phone informs you when someone is trying to reach you during another call.

Select **Activate** to turn this feature on; otherwise select **Deactivate**.

Voice Mail (0-6-3)

This menu provides you with a way of accessing your voice mailbox.

The following options are available:

Connect: before using this feature, you must enter the voice server number obtained from your service provider. You can then connect to the voice server and listen to your messages.

Voice Mail #: allows you to change the voice server number, if necessary.

Camera

Using the camera module built into your phone, you can take photos of people or events while on the move. You can send photos to other people using a message or set a photo as a wallpaper image.

You can also record a video using the camera.

Note: You can quickly enter this menu by pressing the soft key or Camera key ( ) on the right side of the phone in Standby mode.

CAUTION:
- Do not take photos of people without their permission.
- Do no take photos in a place where cameras are not allowed.
- Do not take photos in a place where you may interfere with another person's privacy.

Taking a Photo

The camera produces JPEG photos. You can take photos with the phone open or closed. When the phone is closed, you can use the external display.

Note: When you take a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

Taking a Photo with the Phone Open

1. In Standby mode, press and hold the Camera key on the right side of the phone.

   The image to be captured appears on the display.

2. Adjust the image by aiming the camera module at the subject.

3.

To	**Press the**
flip the image vertically	▲ key.
flip the image horizontally	▼ key.
adjust the brightness of the image	Up or Down key.
zoom in or out	Left or Right key.
use the options	**Option** soft key. See page 122.

4. Press the **Capture** soft key or the Camera key to take the photo.

5. Press the **Save** soft key.

   To discard the photo and go back to Capture mode, press the **Cancel** soft key.

6. Clear the default name using the **CLR** key, if necessary, and enter a photo name.

   For further details about entering characters, see page 45.

7. Press the **Save** soft key.

   The phone saves the photo in the **Photo Album** menu (**#-3**) and returns to Capture mode.

8. When you are finished, press the key to return to Standby mode.

Using the Camera Options in Capture Mode

When you press the **Option** soft key in Capture mode, the following options are available for the current shot:

Video
Selecting this option switches the phone to Record mode. See page 124.

Self Timer
You can set the phone to take a photo at a predefined time. When you set this option, the timer icon appears on the top line of the display.

Multi Shot
This option allows you to take successive action stills of up to seven shots. Select the interval between the shots, **Off**, **Short**, **Normal** or **Long**. After taking the photos, the phone automatically saves them.

Fun Frames
This option allows you to use a decorated frame with the photo. Press the Left and Right keys to find the frame format you want to use.

Resolution
You can change the image resolution, **High:640x480**, **Med:320x240**, **Full:128x160**, or **Low:128x96**.

Taking a Photo with the Phone Closed

1. When the phone is closed, press and hold the Camera key on the right side of the phone.

   The image to be captured displays on the external display.

2. Adjust the image by aiming the camera module.

   To use the options, press the ▼ key until the option icon is selected. You can change the settings by pressing the ▲ key. The following options are available:

   - : allows you to flip the image vertically.
   - auto : allows you to adjust the brightness of the image.
   - : allows you to zoom in or out.

3. Press the Camera key to take the photo.

   The phone saves the photo in the **Photo Album** menu (**#-3**) and returns to Capture mode.

Take Photo

#-1

This menu allows you to take a photo.

Accessing this menu turns the camera on and the display switches to Capture mode. For further details about taking a photo, see page 120.

Record Video

#-2

In this menu, you can record a video that is currently displayed on the camera screen and save it as a JPEG file.

To record a video:

1. Accessing the **Record Video** (**#-2**) menu turns the camera on.

   The image to be recorded appears on the display.

2. Adjust the image by aiming the camera at the subject.

3.

To	**Press the**
flip the image vertically	▲ key.
flip the image horizontally	▼ key.
adjust the brightness of the image	Up or Down key.
use the options	**Option** soft key. See page 126.

4. Press the **Record** soft key or the Camera key to start recording.

5. When you are finished, press the **Stop** soft key.

   Or, the phone automatically stops when the recording time expires.

6. Press the **Save** soft key.

   To discard the video and go back to Record mode, press the **Cancel** soft key.

7. Clear the default name by using the **CLR** key, if necessary, and enter a video name.

   For further details about entering characters, see page 45.

8. Press the **Save** soft key.

   The phone saves the video in the **Video Album** menu (**#-4**) and returns to Record mode.

9. When you are finished, press the key to return to Standby mode.

Using the Video Options in Record Mode

When you press the **Option** soft key in Record mode, the following options are available:

Photo
Selecting this option switches the phone to Capture mode. See page 121.

Voice Rec.
You can set the phone to record audio with the video.

Self Timer
You can set the phone to start recording at a predefined time. The timer appears on the bottom line of the display and starts counting down.

Photo Album

#-3

In this menu, you can review the photos you have taken. By default, your phone displays the first photo you took on the full screen, Expand mode. Use the Left and Right keys to scroll through the photos.

To view the photos as a small images, press the **Thumb** soft key. To go back to Expand mode, press the **Expand** soft key.

Using the Photo Options

Press the **Option** soft key to use the following options:

Note: The available options are different depending on the current view mode, Thumbnail or Expand mode.

Send To
This option allows you to send the photo as a photo message. For further details, see page 132.

Wallpaper
This option allows you to set the photo as your wallpaper for the idle screen.

Rename
This option allows you to change the name of the photo.

Lock
This option allows you to lock the photo so that other people cannot access the photo without your lock code.

Delete
This option allows you to delete the photo.

Delete All
This option allows you to delete all of the photos.

Photo Info
This option shows you information about the current photo, such as the title, time and date when it was taken, image size and file format.

Slide Show
This option shows you all the photos as a slide show.

Video Album

#-4

In this menu, you can play the video files you have recorded. When you access this menu, the list of the videos displays.

To play a video:

1. Press the Up or Down key to select the video you want to view and press the **Select** soft key.
2. Press the **Play** soft key to start playing the video.

To	Press the
scroll through the videos	Left or Right key.
use the options	**Option** soft key. See the next page.

3. To stop, press the **Stop** soft key.
4. To return to Standby mode, press the key.

Using the Video Options

Press the **Option** soft key on the Video Album screen to use the following options:

Rename
This option allows you to change the name of the video.

Lock
This option allows you to lock the video so that other people cannot access the video without your lock code.

Delete
This option allows you to delete the video.

Delete All
This option allows you to delete all of the videos.

Video Info
This option shows you information about the current video, such as the title, time and date when it was recorded, video size and file format.

Photo Mail

#-5

This menu allows you to take a photo and send it as a photo message to other destinations. You can also send photos stored in **My Album** and upload photos to your own web page provided by your service provider, if you subscribed to the associated service.

Capture (#-5-1)

This menu allows you to take a new photo.

1. Take a photo by referring to page 120.
2. When the list of folders appears, select a folder where you want to save the photo and press the **SELECT** soft key.
3. Clear the default name by using the **CLR** key, if necessary, and enter a photo name.

   For further details about entering characters, see page 45.
4. Press the **Save** soft key.

   The phone saves the photo in the folder you selected and returns to the Photo Service screen.

My Album (#-5-2)

This menu allows you to view the photos stored and use them in various ways.

1. Scroll to a folder you want to open and press the **SELECT** soft key.

   When a folder you want highlights, you can use the following options by pressing the **MENU** soft key:

   - **Select Folder**: allows you to open the folder.
   - **Folder Sync**: allows you to upload the photos in the folder to your own web page provided by your service provider.
   - **Slide Show**: allows you to view the photos in the folder as a slide show.
2. Select a photo you want by pressing the Left or Right key.

   You can use the following options by pressing the **Option** soft key:

   - **Send To**: allows you to send the photo as a photo message. For further details see page 132.
   - **Wallpaper**: allows you to set the photo as the background image.
   - **Rename**: allows you to change the name of the photo.
   - **Lock**: allows you to lock the photo so that other people cannot access the photo without your lock code.

- **Delete**: allows you to delete the photo.
- **Delete All**: allows you to delete all of the photos in the folder.
- **Photo Info**: allows you to view information about the current photo, such as the title, time and date when it was created, image size and file format.
- **Slide Show**: allows you to view the photos in the folder as a slide show.
- **Photo Sync**: allows you to upload the photo to your own web page provided by your service provider. For further details, see page 135.

Mail Center (*#-5-3*)

In this menu, you can:
- send a photo mail or a text mail.
- view the mails you received.
- manage mail account.

To send a photo mail:

1. Select the **Send New Mail** option.
2. To send the stored photos as a photo mail, select **My Album** and select a photo you want to send.

   To send a new photo as a photo mail, select **Capture** and take a photo by referring to page 120.

   Note: You can send a text mail by selecting **E-Mail** in this step.
3. When the Sender Name field highlights, press the **SELECT** soft key.

4. Enter the sender's name and press the **Save** soft key. For further details about entering characters, see page 45.
5. Press the Down key to highlight the Subject field and press the **SELECT** soft key.
6. Enter the subject of the mail and press the **Save** soft key.
7. Press the Down key to highlight the Message field and press the **SELECT** soft key.
8. Enter the contents of the mail and press the **Save** soft key.
9. Press the **NEXT** soft key. The following options are available:
   - **Access Phone Book**: allows you to find the number or e-mail address in your Phone Book.
   - **Input E-mail Address**: allows you to enter an e-mail address where you want to send the message.
   - **Input Phone Number**: allows you to enter a phone number where you want to send the message.
10. Select an option and press the **SELECT** soft key.
11. Press the **SELECT** soft key and enter the phone number or e-mail address.

    You can also find the phone number or e-mail address in your Phone Book.

12. Press the **SELECT** soft key.

13. When the phone number or the e-mail address you entered appears on the display, press the **OK** soft key to confirm.

14. To send the mail now, select **Send now !**. The photo mail is sent.

    To send the mail at a specified time, select **Set Date and Time** and set the date and time when you want to send it. The mail is saved.

To view the mails you received:

1. Select the **Mail Box** option.

2. When **Hutch** highlights, press the **SELECT** soft key.

   The phone is connected to your mail box server and shows the list of your mails.

To view received mail and manage account:

1. Select the **My Accounts** option.

2. When **Hutch** highlights, press the **SELECT** soft key.

   The phone is connected to your mail box server and shows the list of your mails.

3. Press the **MENU** soft key for the following options:

   - **Connect Account**: allows you to connect to your mail box server.
   - **Add Account**: allows you to add a new account.

   - **Edit Account**: allows you to change the settings of the current account.
   - **Delete Account**: allows you to delete the current account.

Note: Default account is **Hutch** and cannot be deleted. So, **Delete Account** menu is not displayed in this case.

Photo Sync (#-5-4)

This menu allows you to upload photos in **My Album** to your own web page provided by your service provider, if you are subscribed to the service.

1. Scroll to a folder you want to open and press the **SELECT** soft key.

2. When a folder you want highlights, you can use the following options by pressing the **MENU** soft key:

   - **Select Folder**: allows you to open the folder.
   - **Folder Sync**: allows you to upload the photos in the folder to your own web page provided by your service provider.

   To upload a photo, choose **Select Folder**.

   To upload all of the photos in the folder, select **Folder Sync**. Skip to step 5.

4. If you choose **Select Folder** in step 3, select a photo you want and press the **SELECT** soft key.

5. When the photo displays, press the **Select** soft key.

   Your phone is connected to the corresponding server and uploads the photo(s) to your own web server.

Photo Disk (#-5-5)

This menu allows you to check the memory status for photo mails. The display shows the total, used and free memory.

Settings #-6

This menu allows you to change the default settings of the options for using the camera.

The following options are available:

Resolution: allows you to adjust the resolution of the image. You can select either **High:640X480**, **Med:320X240**, **Full:128X160** or **Low:128X96**.

Fun Frames: allows you to use a frame with the photo. Press the Navigation keys to find the frame format you want to use.

Shutter Sound: allows you to select the tone that sounds when you press the **Capture** soft key or the Camera key.

Quality: allows you to change the image quality. You can select from **Fine**, **Normal** and **Economy**.

Memory Status #-7

You can check the amount of the memory being used and the memory remaining for the Camera feature.

The display shows the total, used and free space.

Wireless Web

About the Web Browser

Your phone comes equipped with a web browser which makes it possible for you to access the wireless web.

The web browser allows you to access up-to-the minute information through your phone. Browsing the wireless web through your phone is unlike using your computer; site providers have selected only critical aspects of their sites to present to wireless phone users and they have removed most of the graphics.

Each time you start the web browser, the phone will connect to the wireless web and the Service icon ( ) will appear on the display. Any time this icon is visible on the display, you are connected to the wireless web and will be billed accordingly. Rates vary according to your service option.

The web browser will end the connection after a certain period of network inactivity and will automatically reconnect as necessary. For this reason, you may find that you are billed for several network connections within a single session. This is normal and is designed to minimize your bill.

To enter the web browser menu, press the ➤ key in Standby mode.

HutchHome

Note: The first time you use the web browser, you will go through a security setup process that takes 3 to 5 minutes. Please follow the on-screen prompts to complete the security setup process. This initial setup process occurs only the first time you access the service.

1. Accessing the **HutchHome** menu connects your phone to the wireless web. You can quickly launch this menu by holding the ➤ key in Standby mode.

2. Once connected, the homepage or the last page visited displays.

   The opening page contents may be different according to your wireless web service provider.

3. To scroll through the screen, use the Up or Down key.

Exiting the Web Browser

To exit the web browser, simply press the ⏻ key at any time.

Navigating the Web Browser

When you use the web browser, some keys on your phone operate differently from that of a normal phone call. These keys are explained below. The web browser presents on-screen items in one of the following ways:

- text or numeric input
- links (embedded in content)
- numbered options (some options may not be numbered)
- simple text

Here's how the keys work in the Web Browser:

Navigation keys: Use these keys to scroll to and select browser options. You can also use them to move the cursor when editing text.

Left soft key: This is the left soft key used to execute the commands at the bottom left of the browser display.

Right soft key: This is the right soft key used to execute the commands at the bottom right of the browser display.

Cursor keys: Use these keys to move the cursor when entering text.

END key: This key ends the web browser connection and returns the phone to Standby mode.

Clear key: This key performs two important functions:

- Sends you back in the browser. Pressing it once sends you back one page. Pressing and holding this key sends you back to the homepage.
- Clears out entered text or numbers. When entering characters, press this key to clear the last number, letter or symbol. Press and hold this key to completely clear the input field.

Numbered keys 0 - 9: If the items on a page are numbered, you can use these keys to select them.

Volume keys: These keys allow you to scroll up or down by page or change the volume setting.

Using the Web Browser Menu

On the web browser, you can access the following options by pressing the ➤ key.

Home: takes you back at any time to the homepage of the wireless web service provider.

Forward: takes you one page forward in the sequence of pages or sites you've already visited.

Bookmarks: allows you to load a bookmarked web page directly.

Go To URL: allows you to manually enter a URL address to access a site.

History: shows you the list of the web pages you have visited.

Search: allows you to use a search engine.

Snapshots: allows you to take a "snap shot" of the current screen.

Save Items: allows you to save images of the current screen.

Reload: reloads the current web page with updated information.

Advanced...: gives you access to the following advanced features:

- Restart Browser: restarts the browser without exiting it.
- Delete Cookies: deletes the cookies containing user information in your phone.
- Homepage: allows you to change the startup homepage URL address.
- Multimedia: allows you to change the options related to multimedia contents on the page.
- View Title Region: allows you to view or hide the title bar.
- Scroll Mode: allows you to select the display's scroll mode and speed for long text.
- Send Referrer: allows you to set the browser to send the URL address of the current site when navigating to a new site.
- Connection Timeout: allows you to set the duration the browser will wait for acknowledgement after a request is sent. If there is no response within the specified time, the browser connection ends.

- Key Press Timeout: allows you to change the latency between key presses of a single key.
- Security: gives you access to the following security options:

  Secure Prompt: displays when you are about to leave a secure site and enter a non-secure site.

  Authentication: allows you to turn authentication caching on or off.

  Current Certificate: displays the current certificate, if one is used.

About...: displays information about the browser and the browser version.

Entering Text in the Web Browser

When prompted, you can enter letters, numbers or symbols. To change the input mode, press the right soft key. The following modes are available:

abc: allows you to enter English letters by pressing the corresponding keys until the letter you want display.

Sym: allows you to enter symbols.

123: allows you to enter numbers.

Word: allows you to enter English letters using T9 mode.

Thai: allows you to enter Thai characters.

For further details about each mode, see page 45.

MyHutch

This option allows you to send or receive an e-mail to a person using the web browser.

For further details, contact your service provider.

MyApps

In this menu, you can play games downloaded from the wireless web.

Scroll to the item you want by pressing the Navigation keys, and press the **Select** soft key or the ➤ key to launch it.

You can also use the following options by pressing the **MENU** soft key:

Play: launches the application.

Delete: deletes the downloaded file.

Properties: shows information about the application.

Exit: exits the **MyApps** menu.

For further details, contact your service provider.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) 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 the safety standards that were developed by independent scientific organizations through periodic and through 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 phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6W/kg*.

* In the U.S. 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.

SAR tests are con ducted using standard operating positions specified by the FCC 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 of the phone.

Before a new model phone 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. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

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 printed in the label on the phone. FCC certification information for this model phone is attached separation paper.

For Body Operation

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung-supplied or approved accessory designated for this product or when used with and accessory that contains no metal and that positions the handset a minimum from the body. The minimum distance for this model phone is written in the FCC certification information from the body. None compliance with the above conditions may violate FCC RF exposure guidelines.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)
http://www.fcc.gov

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

U.S.Food and Drug Administration (FDA)
http://www.fda.gov/cdrh/consumer

World Health Organization (WHO)
http://www.who.int/peh-emf/en

Precautions When Using Batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge, the type of battery and the charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.

- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, make sure that you are following the special regulations in a given area or country.

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize potential interference

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

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

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch 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.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include the areas below decks on boats, 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 engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:
1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location. Emergency numbers vary by location.
3. Press the key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phones in an aircraft may be dangerous to the operation of the aircraft, and is illegal.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.

- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Acknowledging Special Precautions and the FCC and Industry Canada Notice

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. FCC Compliance Information

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received. Including interference that may cause undesired operation.

Information to User

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

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

Glossary

Airtime - Actual time spent talking on the wireless phone. Most carriers bill customers based on how many minutes of airtime they use each month.

Antenna - A device for transmitting or receiving signals. The size and shape of antennas is determined, in part, by the frequency of the signal they receive. Wireless phones and the base station must have antennas.

Base Station - The fixed radio transmitter/receiver that maintains communications with mobile radio telephones within a given area. (Typically called a cell or cell site)

CDMA (Code Division Multiple Access) - A spread-spectrum approach to digital transmission. With CDMA, each conversion is digitized and then tagged with a code. The mobile phone deciphers only a particular code to pick the right conversation off the air. The transmitted signal is just above noise level across the available bandwidth.

Channel - Communications signals transmit along paths called channels.

Codec - Compression & Decompression.

Deactivation - The process of rendering a wireless phone inactive.

DTMF (Dual-tone Multi-Frequency) - You send DTMF signals when you enter numbers by pressing the digit keys.

EVRC (Enhanced Variable Rate Codec) - EVRC is a new global standard for compressing and decompressing voice signals. EVRC uses a lower bit rate (the number of bits sent per second) than existing CDMA vocoders, while providing significant improvements in voice quality. This technology enables your phone to provide superb voice quality while benefiting from the ability to process more cellular voice calls using less bandwidth than the voice codecs in CDMA networks today.

Frequency - A measure based on time, as one or more waves per second, in an electrical or light wave information signal. A signal's frequency is stated in cycles-per-second or Hertz (Hz).

Hands-Free - A feature that permits a driver to use a wireless phone without lifting or holding the handset - an important safety feature for automobiles, tractors and most other motorized vehicles.

LCD (Liquid Crystal Display) - Commonly used to refer to the screen display on the wireless phone.

LED (Light Emitting Diode) - Commonly used to refer to a small light on the wireless phone or on the Desktop Charger. The LED lights on the phone to indicate an incoming call. The lights on the charger indicate that battery charging is taking place.

Prepend - The addition of a prefix, such as an area code, to a phone number.

RF - Radio Frequency

Roaming - The ability to use a wireless phone to make and receive calls in places outside of the home service area.

Service Charge - The amount paid each month to receive wireless service.

Standby Time - The amount of time a fully charged wireless portable or transportable phone can be on and idle without being in use. (See Talk Time)

Talk Time - The length of time a person can talk on a portable or transportable wireless phone without recharging the battery.

Vocoder - Voice Coder. A device used to convert speech into digital signals.

Wireless - Radio-based Systems that allow transmission of telephone or data signals through the air without a physical connection, such as a metal wire (copper) or fiber optic cable.

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5,101,501 5,103,459 5,107,225
5,109,390