



User Guide



at&t

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invision™ by LG

User Guide

MMBB0294601(1.0)



Bluetooth QD ID B013856

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LIMITED WARRANTY STATEMENT

1. WHAT THIS WARRANTY COVERS :

LG offers you a limited warranty that the enclosed subscriber unit and its enclosed accessories will be free from defects in material and workmanship, according to the following terms and conditions:

1. The limited warranty for the product extends for TWELVE (12) MONTHS beginning on the date of purchase of the product with valid proof of purchase, or absent valid proof of purchase, FIFTEEN (15) MONTHS from date of manufacture as determined by the unit's manufacture date code.
2. The limited warranty extends only to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser/end user.
3. This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the U.S, including Alaska, Hawaii, U.S. Territories and Canada.
4. The external housing and cosmetic parts shall be free of defects at the time of shipment and, therefore, shall not be covered under these limited warranty terms.
5. Upon request from LG, the consumer must provide information to reasonably prove the date of purchase.
6. The customer shall bear the cost of shipping the product to the Customer Service Department of LG. LG shall bear the cost of shipping the product back to the consumer after the completion of service under this limited warranty.

2. WHAT THIS WARRANTY DOES NOT COVER :

1. Defects or damages resulting from use of the product in other than its normal and customary manner.
2. Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage caused by shipping, blown fuses, spills of food or liquid.
3. Breakage or damage to antennas unless caused directly by defects in material or workmanship.
4. That the Customer Service Department at LG was not notified by consumer of the alleged defect or malfunction of the product during the applicable limited warranty period.
5. Products which have had the serial number removed or made illegible.
6. This limited warranty is in lieu of all other warranties, express or implied either in fact or by operations of law, statutory or otherwise, including, but not limited to any implied warranty of marketability or fitness for a particular use.
7. Damage resulting from use of non-LG approved accessories.

8. All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
9. Products operated outside published maximum ratings.
10. Products used or obtained in a rental program.
11. Consumables (such as fuses).

3. WHAT LG WILL DO:

LG will, at its sole option, either repair, replace or refund the purchase price of any unit that does not conform to this limited warranty. LG may choose at its option to use functionally equivalent reconditioned, refurbished or new units or parts or any units. In addition, LG will not re-install or back-up any data, applications or software that you have added to your phone. It is therefore recommended that you back-up any such data or information prior to sending the unit to LG to avoid the permanent loss of such information.

4. STATE LAW RIGHTS :

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG INFOCOMM INC. SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF

ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusive of limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

5. HOW TO GET WARRANTY SERVICE :

To obtain warranty service, please call or fax to the following telephone numbers from anywhere in the continental United States:

Tel. 1-800-793-8896 or Fax. 1-800-448-4026

Or visit www.lgeservice.com.

Correspondence may also be mailed to:

LG Electronics MobileComm U.S.A., Inc.

201 James Record Road Huntsville, AL 35824

DO NOT RETURN YOUR PRODUCT TO THE ABOVE

ADDRESS. Please call or write for the location of the LG authorized service center nearest you and for the procedures for obtaining warranty claims.



CB630

User Guide

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For Your Safety

Important Information

This user guide contains important information on the use and operation of this phone. Please read all the information carefully for optimal performance and to prevent any damage to or misuse of the phone. Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment.

Before You Start

Safety Instructions

WARNING! To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as the bathroom, swimming pool, etc.

Always store your phone away from heat. Never store your phone in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during extreme weather conditions or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

Be careful when using your phone near other electronic devices. RF emissions from your mobile phone may affect nearby in adequately shielded electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone. Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

IMPORTANT! Please read the TIA SAFETY INFORMATION on page 105 before using your phone.

Safety Information

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this user guide.

- ▶ Never use an unapproved battery since this could damage the phone and/or battery and could cause the battery to explode.

For Your Safety

- ▶ Never place your phone in a microwave oven as it will cause the battery to explode.
- ▶ Do not dispose of your battery by fire or with hazardous or flammable materials.
- ▶ Make sure that no sharp-edged items come into contact with the battery. There is a risk of this causing a fire.
- ▶ Store the battery in a place out of reach of children.
- ▶ Be careful that children do not swallow any parts such as rubber plugs (earphone, connection parts of the phone, etc.). This could cause asphyxiation or suffocation.
- ▶ Unplug the power cord and charger during lightning storms to avoid electric shock or fire.
- ▶ When riding in a car, do not leave your phone or set up the hands-free kit near to the air bag. If wireless equipment is improperly installed and the air bag is activated, you may be seriously injured.
- ▶ Do not use a hand-held phone while driving.
- ▶ Do not use the phone in areas where its use is prohibited. (For example: aircraft).
- ▶ Do not expose the battery charger or adapter to direct sunlight or use it in places with high humidity, such as a bathroom.
- ▶ Never store your phone in temperatures less than -4°F or greater than 122°F.
- ▶ Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. There is a risk of this causing a fire.
- ▶ Do not drop, strike, or shake your phone severely. Such actions may harm the internal circuit boards of the phone.
- ▶ Do not use your phone in high explosive areas as the phone may generate sparks.
- ▶ Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause a fire or electric shock.
- ▶ Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.

- ▶ Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.
- ▶ Do not disassemble the phone.
- ▶ Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- ▶ Only use the batteries, antennas, and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- ▶ Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.
- ▶ Do not hold or let the antenna come in contact with your body during a call.
- ▶ An emergency call can be made only within a service area. For an emergency call, make sure that you are within a service area and that the phone is turned on.

- ▶ Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

Memory card information and care

- ▶ Always insert/ remove the memory card while the handset power is off. If you remove it while the power is on, it may be damaged.
- ▶ If the damage cannot be fixed, format the memory card.
- ▶ The memory card cannot be used for recording copyright- protected data.
- ▶ Do not write forcefully on the memo area.
- ▶ Carry and store the memory card in its case.
- ▶ Do not allow the memory card to get wet.
- ▶ Do not leave the memory card in extremely hot location.
- ▶ Do not disassemble or modify the memory card.

For Your Safety

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

In August 1996, the Federal Communications Commission (FCC) of the United States, with its action in Report and Order FCC 96-326, adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies.

The design of this phone complies with the FCC guidelines and these international standards.

CAUTION

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, void your warranty and/or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn may result. Contact your local dealer for a replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.79 inches (2.0cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.79 inches(2.0cm) must be maintained between the user s body and the back of the phone. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain 0.79 inches(2.0cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

Vehicle Mounted External Antenna (optional, if available)

A minimum separation distance of 8 inches (20cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements. For more information about RF exposure, visit the FCC website at www.fcc.gov



FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions:

(1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that may cause undesired operation.

Cautions for Battery

- ▶ Do not disassemble.
- ▶ Do not short-circuit.
- ▶ Do not expose to high temperature: 60°C (140°F).]
- ▶ Do not incinerate.

Battery Disposal

- ▶ Please dispose of your battery properly or bring to your local wireless carrier for recycling.
- ▶ Do not dispose in fire or with hazardous or flammable materials.

Adapter (Charger) Cautions

- ▶ Using the wrong battery charger could damage your phone and void your warranty.
- ▶ The adapter or battery charger is intended for indoor use only.

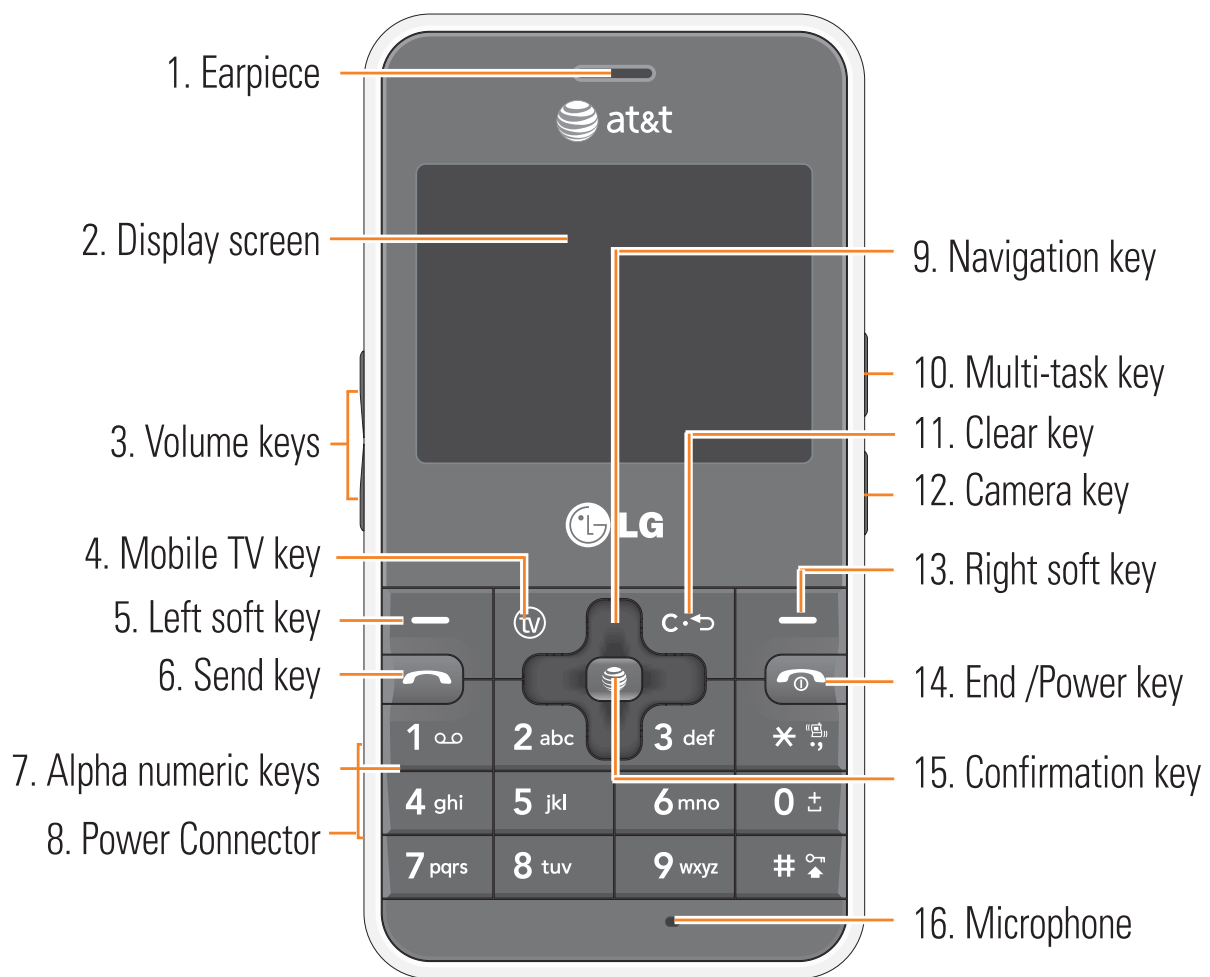
Do not expose the adapter or battery charger to direct sunlight or use it in places with high humidity, such as the bathroom.

Avoid damage to your hearing

- ▶ Damage to your hearing can occur if you are exposed to loud sound for long periods of time. We therefore recommend that you do not turn on or off the handset close to your ear. We also recommend that music and call volumes are set to a reasonable level.
- ▶ If you are listening to music whilst out and about, please ensure that the volume is at a reasonable level so that you are aware of your surroundings. This is particularly imperative when attempting to cross the street.

Your Phone

Phone Components



Your Phone's Features

- 1. Earpiece:** Lets you hear the caller and automated prompts.
- 2. Display screen:** Displays phone status icons, menu items, web information, pictures and more in full color.
- 3. Volume keys:** These keys are used to control the volume of ringtone in standby mode and speaker volume during a call.
- 4. Mobile TV key:** For further details, see page 36 (Menu 1.1).
- 5,13. Left soft key/Right soft key:** Each of these keys perform the functions indicated by the text on the display immediately above them.
- 6. Send key:** You can dial a phone number and answer incoming calls. Press this key in standby mode to quickly access the most recent incoming, outgoing and missed calls.
- 7. Alpha numeric keys:** These keys are used to dial a number in standby mode and to enter numbers or characters in edit mode.
- 8. Power Connector:** Insert charger.
- 9. Navigation key:** Use for quick access to phone functions.
- 10. Multi-task key:** Multitask simultaneously with voice and data - browse the web, make calls, play games, send and receive messages, and listen to MP3s. All at once.
- 11. Clear key:** Allows you to delete the characters entered or return to the previous screen.
- 12. Camera key:** Press this key to use the camera feature or to go directly to camera mode.
- 14. End/Power key:** Allows you to power the phone on or off, end calls, or return to Standby Mode.
- 15. Confirmation key:** Short press will launch the WAP browser. Allows you to select and confirm menu options.
- 16. Microphone:** Can be muted during a call for privacy.

Your Phone

Side view

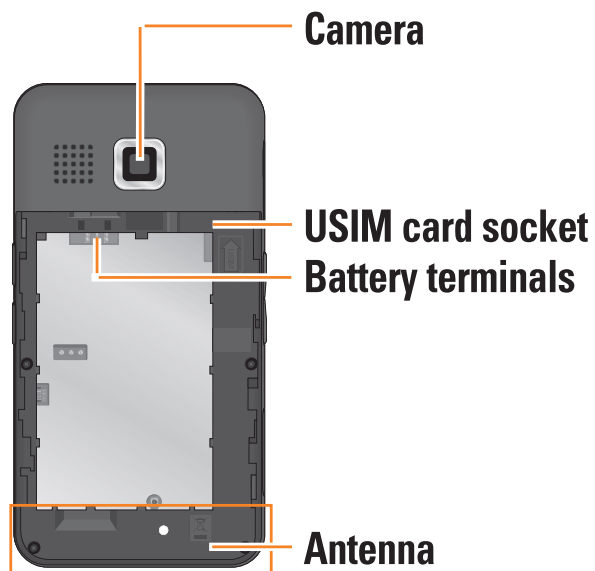


Multi-task key

Camera key

Press this key to use the camera feature or to go directly to camera mode.

Rear view



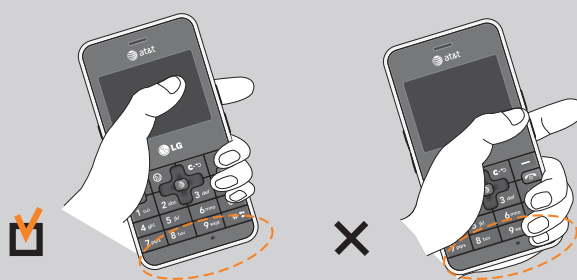
Camera

USIM card socket
Battery terminals

Antenna

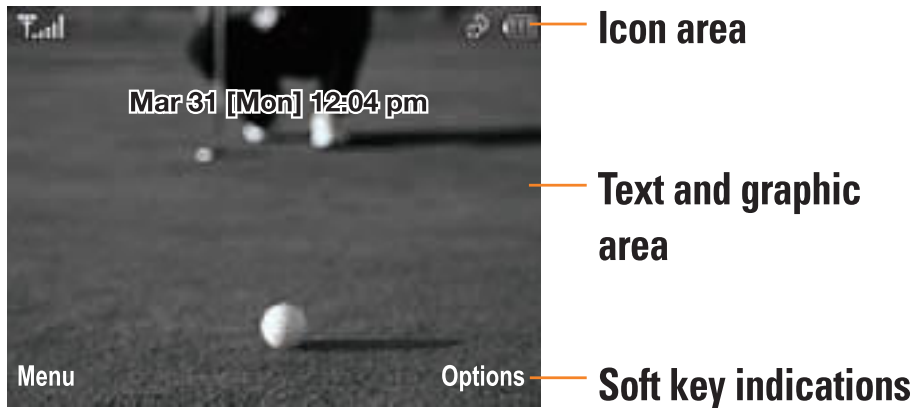
Advice to the customer

In order to allow better antenna sensitivity LG suggests that you hold the handset as depicted in the figure below.



Please do not cover the antenna area with your hand during a call and using a bluetooth connection. It may degrade speech quality.

Display Information



Area	Description
First line	Displays various icons.
Middle lines	Displays messages, instructions and any information that you enter, such as number to be dialed.
Last line	Shows the functions currently assigned to the two soft keys.

Your Phone

On-Screen Icons

The table below describes various display indicators or icons that appear on the phone's display screen.

Icon	Description
	Indicates the strength of the 3G network signal.
	Indicates the strength of the network signal.
	Indicates that GPRS service is available. Indicates that the EDGE service is available. Connection to the EDGE service allows you to transfer data at a speed of 200Kb/s(depending on network availability). Check with your operator for network coverage and service availability.
	Indicates that GPRS service is available.
	Indicates that Flight mode has been activated.

Icon	Description
	Indicates the status of the battery charge.
	Indicates that a call is in progress.
	Indicates that the alarm has been set and is on.
	Indicates the receipt of a message.
	Indicates the receipt of a Voicemail.
	Indicates that Ring has been set for alert.
	Indicates that Ring and vibration has been set for alert.
	Indicates that Ring after Vibration has been set for alert.
	Indicates that Silent has been set for alert.
	Indicates that the speakerphone has been activated.

* The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by LG Electronics is under license. Other trademarks and trade names are those of their respective owners. Bluetooth QD ID B013856

Icon	Description
	Indicates that the Bluetooth® function has been activated.
	Indicates that you can see TV.
	Indicates that the connection to a hands-free with Bluetooth has been activated.
	Indicates that the connection to a stereo Bluetooth device has been activated.
	Indicates that the connection to a hand-free & stereo with Bluetooth has been activated.
	Indicates that the Multitasking function has been activated.
	Indicates that the TTY has been set and is on.
	Indicates that the phone is accessing the WAP or data service.
	Indicates that data communication is being initiated with connection to Packet Switching.

Getting Started

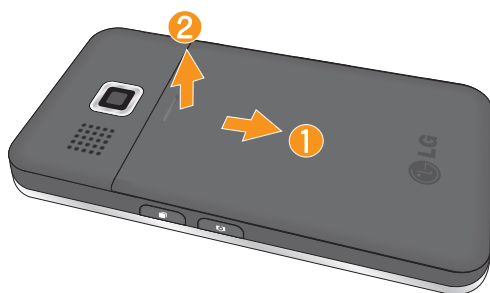
Installing the SmartChip

When you subscribe to a cellular network, you are provided with a plug-in SmartChip loaded with your subscription details, such as your PIN, any optional services available and many others.

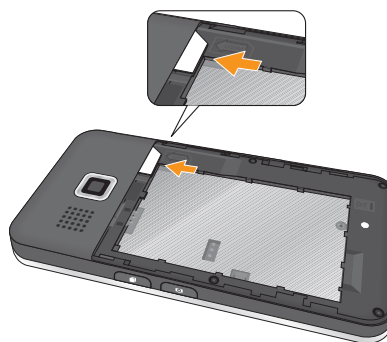
! Important!

The plug-in SmartChip and its contacts can be easily damaged by scratches or bending, so be careful when handling, inserting or removing the card. Keep all SmartChips out of the reach of small children.

1. If necessary, switch off the phone by holding down the  [END] key until the power-off image appears.
2. Remove the battery. To do so:

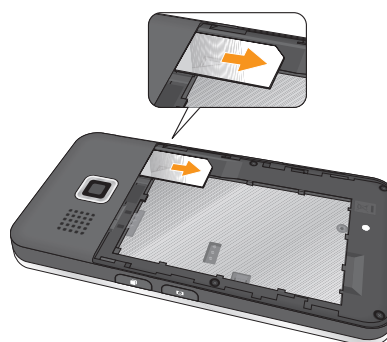


3. Slide the SmartChip into the SmartChip socket so that it locks the card into place. Make sure that the notched corner is at the bottom right and the gold contacts of the card face into the phone.

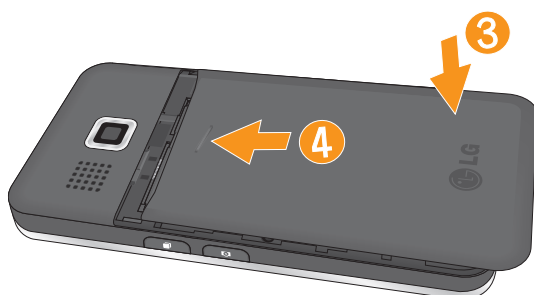
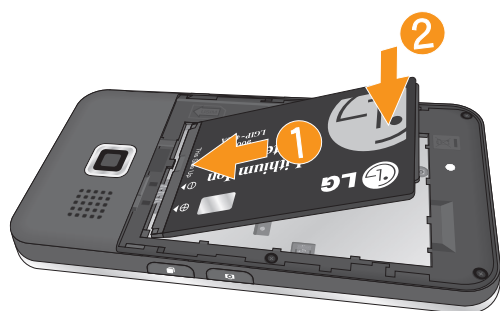


! Note

When you need to remove the SmartChip, slide it, as shown, and take it out of the socket.



4. Insert the the battery into the battery compartment as metal contacts meet in the phone. Push down the top of the battery until it snaps into place. Place the battery cover to the phone as shown.

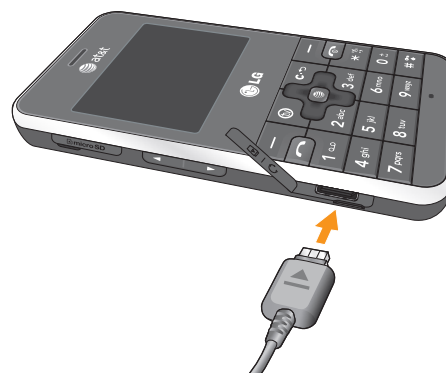


Charging the Battery

Use of unauthorized accessories could damage your phone and void your warranty.

To use the travel charger provided with your phone:

1. With the battery in position in the phone, connect the lead from the travel charger to the bottom left of the phone. Check that the arrow on the lead connector is facing towards the front of the phone.
2. Connect the travel charger to a standard AC wall outlet. Only use the travel charger that comes with the package.



! Warning

The travel charger must be unplugged before you remove the battery, otherwise, the phone could be damaged.

Getting Started

3. When the phone has been charged fully, disconnect the travel charger from the phone by pulling the connector out.



! Note

- ▶ If your phone is powered on while charging, you'll see the bars on the battery indicator icon cycle. When the battery is fully charged, the bars on the battery indicator icon will flash on and off.

If the battery fails to charge completely:

- ▶ After turning the phone on and off, please attempt to recharge the battery.
- ▶ After detaching and reattaching the battery, please attempt to recharge the battery.

Memory card slot

The INVISION supports the microSD™ memory card. The memory card can be inserted into the side of the INVISION device. You can use this card to save data files such as MP3 songs.

! Note

Only use memory cards that have been approved by the manufacturer. Some memory cards might not be compliant with the handset.

Inserting the memory card

Insert the memory card into the slot until the memory card is fully inserted into the slot, as shown in the figure below:

! Note

The gold connectors must be face down and inserted first into the memory card slot.



Removing the memory card

1. Push the memory card down into the slot with the tip of your finger to engage the spring mechanism.
2. Carefully pull the memory card out of the slot.



Turning Your Phone On and Off

1. Hold down the  [END] key until the phone switches on.
2. If the phone asks for a PIN, enter the PIN and press the  key.

The phone searches for your network and after finding it goes to the idle screen. From the idle screen, you can make or receive a call.

Note

The display language is preset to Automatic at the factory. To change the language, use the Languages menu option (Menu 9.2.6).

3. When you wish to switch the phone off, hold down the  [END] key until the power-off image displays.

Access Codes

You can use the access codes described in this section to avoid unauthorized use of your phone. The access codes can be changed by using the **Change Codes** feature (Menu 9.6.5).

Security code (4 digits)

The security code protects your phone from unauthorized use. The default security code is set to '0000' and the security code is required to delete all phone entries and to activate the Restore Factory Settings menu. The security code default setting can be modified from the Security menu.

General Functions

Making a Call

1. Make sure your phone is powered on.
2. Enter a phone number including the area code. To edit a number on the display screen, simply press the  key to erase one digit at a time.
 - ▶ Press and hold the  key to erase the entire number.
3. Press the  [SEND] key to call the number.
4. When finished, press the  [END] key.

Making a Call by Send Key

1. Press the  [SEND] key, and the most recent incoming, outgoing and missed phone numbers will be displayed.
2. Select the desired number by using the navigation key.
3. Press the  [SEND] key.

Making International Calls

1. Press and hold the  key and the international access character '+' will appear.
2. Enter the country code, area code, and the phone number.
3. Press the  [SEND] key.

Ending a Call

When you have finished a call, press the  [END] key.

Making a Call From the Contacts

You can store names and phone numbers dialed frequently in the SmartChip as well as in the phone memory known as the Contacts.

You can dial a number by simply selecting a name in the contacts and pressing the  [SEND] key.

Adjusting the Volume

During a call, if you want to adjust the earpiece volume, use the side keys of the phone.

In idle mode, you can adjust the ring volume using the side keys.

Answering a Call

When you receive a call, the phone rings and the phone icon appears on the screen. If the caller can be identified, the caller's phone number (or name if stored in your Address Book) is displayed.

1. Press the  [SEND] key or the left soft key to answer an incoming call. If **Any Key** has been set as the Answer Mode (Menu 9.5.4), any key press will answer a call except for the  [END] key or the right soft key.
2. End the call by pressing the  [END] key.

! Notice

You can answer a call while using the Address Book or other menu features.

Vibrate Mode (Quick)

Vibrate Mode can be activated by pressing and holding down the  [Star] key.

Signal Strength

If you are inside a building, being near a window may give you better reception. You can see the strength of your signal by the signal indicator on your phone's display screen.

Entering Text

You can enter alphanumeric characters by using the phone's keypad. For example, storing names in the Address Book, writing a message, or creating scheduling events in the calendar all require entering text.

The following text input modes are available on the phone.

General Functions

T9 Mode

This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter. The T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional ABC mode.

ABC Mode

This mode allows you to enter letters by pressing the key labeled with the required letter once, twice, three or four times until the letter is displayed.

123 Mode (Numbers Mode)

Type numbers using one keystroke per number. To change to 123 mode in a text entry field, press  key until 123 mode is displayed.

A long press toggles between Abc and T9 modes.

Symbol Mode

This mode allows you to enter special characters.

Note

You can select a different T9 language from the Options menu. The default setting on the phone is T9 disabled mode.

Changing the Text Input Mode

Change the text input mode by pressing .

You can check the current text input mode in the upper right corner of the screen.

Using the T9 Mode

The T9 predictive text input mode allows you to enter words easily with a minimum number of key presses. As you press each key, the phone begins to display the characters that it thinks you are typing based on a built-in dictionary. As new letters are added, the word changes to reflect the most likely candidate from the dictionary.

1. When you are in the T9 predictive text input mode, start entering a word by

pressing keys **2_{abc}** to **9_{wxyz}**. Press one key per letter.

- ▶ The word changes as letters are typed - ignore what's on the screen until the word is typed completely.
 - ▶ If the word is still incorrect after typing completely, press the ***_{"/}** [Star] key once or more to cycle through the other word options.
 - ▶ If the desired word is missing from the word choices list, add it by using the ABC mode.
2. Enter the whole word before editing or deleting any keystrokes.
 3. Complete each word with a space by pressing the **0_±** key or the right navigation key.

To delete letters, press **C↵**. Press and hold down **C↵** to erase the letters continuously.

! Notice

To exit the text input mode without saving your input, press the **⏏** [END] key.

Using the ABC Mode

Use the keypad keys to enter your text.

1. Press the key labeled with the required letter:
 - ▶ Once for the first letter
 - ▶ Twice for the second letter
 - ▶ And so on
2. To insert a space, press the **0_±** key once. To delete letters, press the **C↵** key. Press and hold down the **C↵** key to erase the letters continuously.

! Note

Refer to the table below for more information on the characters available using the keys.

General Functions

Key	Characters in the Order Display	
	Upper Case	Lower Case
1	. , ' @ ? ! - : / 1	. , ' @ ? ! - : / 1
2	A B C 2	a b c 2
3	D E F 3	d e f 3
4	G H I 4	g h i 4
5	J K L 5	j k l 5
6	M N O 6	m n o 6
7	P Q R S 7	p q r s 7
8	T U V 8	t u v 8
9	W X Y Z 9	w x y z 9
0	Space Key, 0 (Long press)	Space Key, 0 (Long press)

Using the 123 (Numbers) Mode

The 123 Mode enables you to enter numbers in a text message (a telephone number, for example) more quickly.

Press the keys corresponding to the required digits before manually switching back to the appropriate text entry mode.

Using the Symbol Mode

The Symbol Mode enables you to enter various symbols or special characters.

To enter a symbol, press the  [Star] key. Use the navigation keys to select the desired symbol and press the [OK] key.

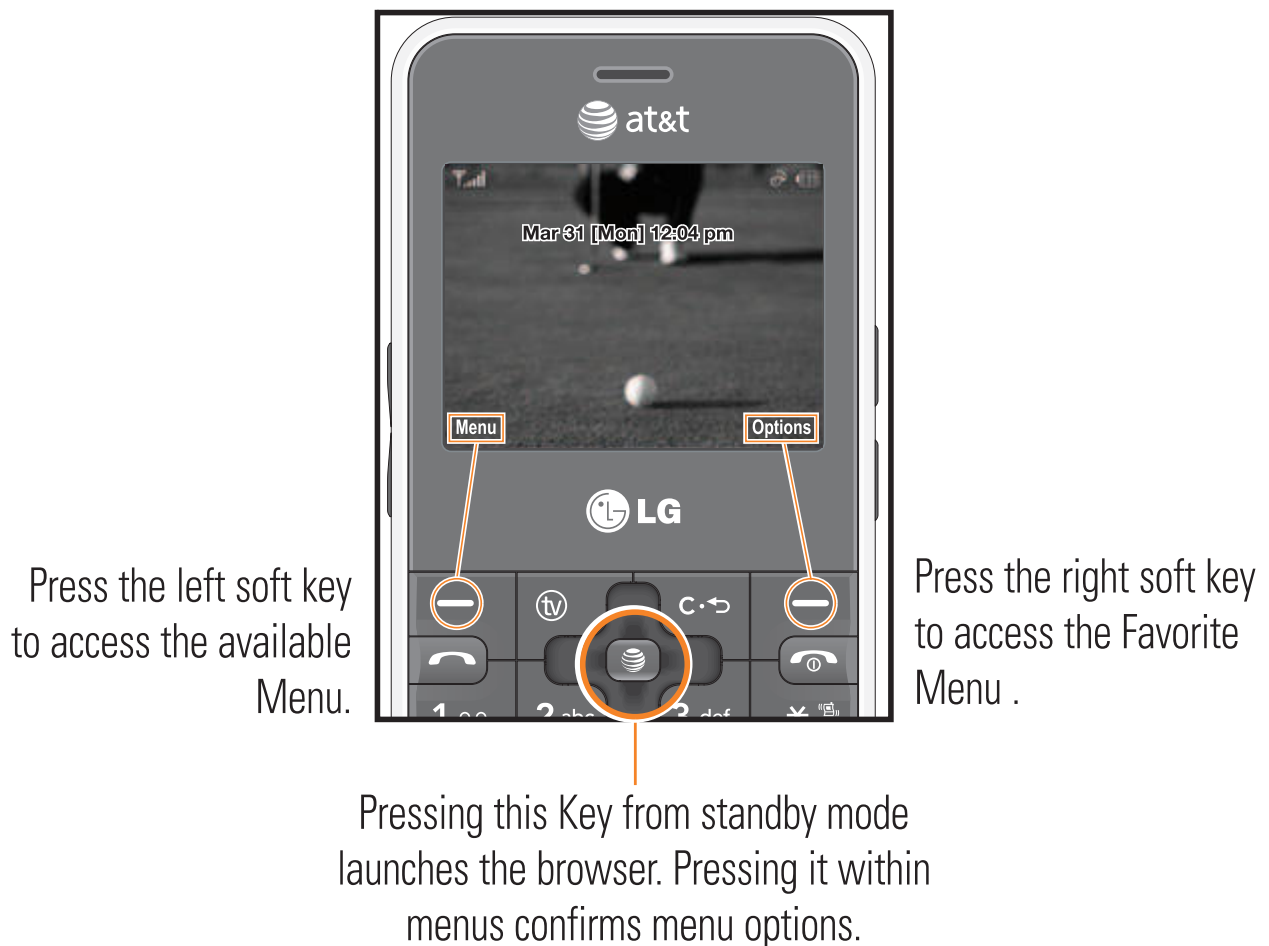
T9 dictionary

The T9 dictionary is a feature that allows the user to add any unique or personal words to the T9 standard language database. The T9 dictionary function can be selected from the Text Entry Settings sub menu under the Options soft key menu. Within the T9 dictionary function, the user can add, modify, delete or reset personal words.

Selecting Functions and Options

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

Soft key functions vary depending on the model of the phone. The label on the bottom of the display screen immediately above the soft keys indicates the current function.



Menu Tree

The following illustration shows the available menu structure and indicates the:

- ▶ Number assigned to each menu option.
- ▶ Page where you can find the feature description.

1. TV & Video (see page 36)

- 1.1 Mobile TV**
- 1.2 CV-Video**
- 1.3 Music Videos**
- 1.4 Entertainment Videos**
- 1.5 Sports Videos**
- 1.6 Shop Videos**
- 1.7 Video Applications**

2. Messaging (see page 43)

- 2.1 New Message**
- 2.2 Inbox**
- 2.3 IM**
- 2.4 Mobile Email**
- 2.5 Drafts**
- 2.6 Outbox**
- 2.7 Sent**
- 2.8 Voicemail**
- 2.9 Templates**
 - 2.9.1 Text Templates
 - 2.9.2 Multimedia Templates
 - 2.9.3 Signature

2.0 Message Settings

- 2.0.1 Text Message
- 2.0.2 Multimedia Message
- 2.0.3 Voicemail
- 2.0.4 Service Messages

3. Recent Calls (see page 56)

- 3.1 Missed Calls**
- 3.2 Dialed Calls**
- 3.3 Received Calls**
- 3.4 All Calls**
- 3.5 Call Duration**
- 3.6 Data Counter**

4. MEdia Net (see page 58)

- 4.1 MEdia Net Home**
- 4.2 Bookmarks**
- 4.3 Saved Pages**
- 4.4 Enter URL**
- 4.5 Recent Pages**
- 4.6 Security**

4.7 Browser Settings

- 4.7.1 Accounts
- 4.7.2 Primary Storage
- 4.7.3 Java Script
- 4.7.4 Cache Settings
- 4.7.5 Cookie Settings
- 4.7.6 Character Encoding
- 4.7.7 Scrolling Control
- 4.7.8 Show Image
- 4.7.9 AuthWallet

5. AT&T Mall (see page 63)

- 5.1 Shop Tones**
- 5.2 Shop Games**
- 5.3 Shop Graphics**
- 5.4 Shop Multimedia**
- 5.5 Shop Applications**
- 5.6 Shop Videos**
- 5.7 MEdia Net Home**

6. AT&T Music (see page 64)

- 6.1 Music Player**
- 6.2 Shop Music**
- 6.3 MusicID**
- 6.4 XM Radio**
- 6.5 Music Videos**
- 6.6 The Buzz**
- 6.7 Community**
- 6.8 Music Apps**

7. My Stuff (see page 73)**7.1 Games****7.2 Applications****7.3 Audio & Ringtones****7.4 Pictures****7.5 Video****7.6 Tools**

- 7.6.1 Voice Command
- 7.6.2 Alarm Clock
- 7.6.3 Calendar
- 7.6.4 Notepad
- 7.6.5 Calculator
- 7.6.6 Tip Calculator
- 7.6.7 World Clock
- 7.6.8 Tasks
- 7.6.9 Stop Watch
- 7.6.0 Unit Converter
- 7.6.* D-Day Counter

7.7 Camera & Recordings

- 7.7.1 Take Photo
- 7.7.2 Record Video
- 7.7.3 Record Voice

7.8 Other Files**7.9 Memory Card**



Menu Tree

8. Address Book (see page 85)

8.1 Contact List

8.2 New Contact

8.3 Caller Groups

8.4 Speed Dial List

8.5 Copy All Contacts

8.6 Delete All Contacts

8.7 Service Dial Numbers

8.8 My Business Card

8.9 View Options

8.0 My Numbers

9. Settings (see page 87)

9.1 Audio & Ringtones

9.1.1 Shop Tones

9.1.2 Ringtones

9.1.3 Volume

9.1.4 Message Alert Tones

9.1.5 Alert Type

9.1.6 Key Tones

9.1.7 Increasing Ringtone

9.1.8 Power On/Off Tones

9.2 Display

9.2.1 Shop Graphics

9.2.2 Wallpapers

9.2.3 Backlight Timer

9.2.4 Brightness

9.2.5 Menu Styles

9.2.6 Languages

9.2.7 Dialing Fonts

9.2.8 Clocks & Calendar

9.2.9 Color Schemes

9.3 Bluetooth

9.3.1 Turn On/Off

9.3.2 My Visibility On/Off

9.3.3 Search New Device

9.3.4 My Devices

9.3.5 My Bluetooth Info

9.4 Date & Time

9.4.1 Set Date

9.4.2 Date Format

9.4.3 Set Time

9.4.4 Time Format

9.4.5 Auto Update

9. Settings (continued)

9.5 Call

- 9.5.1 Call Forwarding
- 9.5.2 Send My Number
- 9.5.3 Auto Redial
- 9.5.4 Answer Mode
- 9.5.5 Minute Minder
- 9.5.6 Call Waiting
- 9.5.7 Call Reject
- 9.5.8 TTY
- 9.5.9 Send DTMF Tones
- 9.5.0 Video Share

9.6 Security

- 9.6.1 Auto Key Lock
- 9.6.2 Lock Handset
- 9.6.3 PIN Code Request
- 9.6.4 Fixed Dial Number
- 9.6.5 Change Codes

9. Settings (continued)

9.7 Connection

- 9.7.1 Network Profiles
- 9.7.2 Internet Profiles
- 9.7.3 USB Connection Mode

9.8 Flight Mode

9.9 Software Update

9.0 Check Memory

- 9.0.1 Common
- 9.0.2 Reserved
- 9.0.3 SmartChip
- 9.0.4 Memory Card

9.* Handset Information

9.# Reset Settings

- 9.#.1 Master Reset
- 9.#.2 Master Clear

In-Call Menu

Your phone provides a number of control functions that you can use during a call. To access these functions during a call, press the right soft key [**Options**].

During a Call

The menu displayed on the handset screen during a call is different from the default main menu displayed when in idle screen, and the options are described below.

Making a Second Call

You can select a number you wish to dial from the Address Book to make a second call. Press the right soft key then select Address Book.

Swapping Between Two Calls

By using two methods, you can switch between two calls.

1. Press the [send] key.
2. Press the right soft key and then select "Swap Calls".

Answering an Incoming Call

To answer an incoming call when the handset is ringing, simply press the  [SEND] key. The handset is also able to warn you of an incoming call while you are already on a call. A tone sounds in the earpiece, and the display will show that a second call is waiting. This feature, known as **Call Waiting**, is only available if your network supports it.

If Call Waiting is on, you can put the first call on hold and answer the second call, by pressing the  [SEND] key.

Rejecting an Incoming Call

You can reject an incoming call without answering by simply pressing the  [END] key.

During a call, you can reject an incoming call by pressing the  [END] key.

Muting the Microphone

You can mute the microphone during a call by pressing the left soft key [**Mute**]. The handset can be unmuted by pressing the left soft key [**Unmute**]. When the handset is muted, the caller cannot hear you, but you can still hear the caller.

Using the Speakerphone

You can use the integrated Speakerphone during a call by pressing the  key. The loudspeaker is automatically deactivated when you end the call.

Warning

Due to higher volume levels, don't place the phone near your ear while the speakerphone is enabled.

Video Share Calling

Making and Answering a Video Share Call

You can make and answer a Video Share Call with other 3G video phones. The other party must have a 3G Video-Share capable phone and be in a video service 3G coverage area.

Note

Before you start a Video Share Call you must check the following:

- Phone must be in a AT&T 3G service area.
- Phone needs the presence of 'GLOBE' (you can see the  on the left hand of the icon bar on the screen.)
- Select the service via the Video Share menu (see Menu 9.5.0).

To use Video Share follow these steps:

1. Make a phone call by dialing the number, selecting the number from your contact list or selecting the number from the list of calls you have made or received.

In-Call Menu

2. Once the connection has been established, after a few seconds the 'Video Share Ready' prompt will be displayed on the screen provided the other party is also Video Share enabled and in a 3G coverage area. Then, you are ready to begin sharing your video with the other party (or have video shared with you). (If you set Initial Notification to On from the Video Share (Menu 9.5.8), a notification pop-up window will be displayed. Select Yes and you will be connected directly to live Video Share Calling).
3. To send video to the other party, simply press the camera button OR the right soft key  [Options] - [Video Sharing] and select a Video Share type (Live or Recorded). Simply, press the Camera button and the live Video Share Call will start.

Note

The Speakerphone will be automatically activated when a Video Share session begins, unless a hands-free device (Bluetooth or stereo headset) is connected.

- **Live:** You can share a real-time video stream with the other party while having a conversation.
- **Recorded:** You can share a pre-recorded video clip with the other party while having a conversation.
(Note that you can share only H.263 QCIF sized video files)

4. If the other party accepts your request, a video share session begins.
(It takes several seconds for the other party to accept your invitation and start the Video Share Call.)

During the Video Share session with the other party, you can select a menu item using the navigation keys by pressing the left soft key .

-  **Stop:** stops video sharing and proceeds with voice call only.
-  **Brightness:** adjusts the brightness of the screen.

-  **Mute/Unmute:** mute/unmute the microphone.
-  **Spk. Off/Spk. On:** when Spk. On is selected, you can have a conversation using the speakerphone. When Spk Off is selected, you can have a conversation using the headset.

You can record a current video clip via Options menu, and the recorded video will be saved in [My stuff] – [Video].

5. Select the STOP menu item to stop sending video, or press the End key [End Call] to finish the call, or turn off the handset.

Note

1. The Video Share Call will be terminated in the following cases:
 - When trying to make a conference call / second call during a Video Share Call.
 - When the voice call is placed on hold.
 - When the voice call is disconnected.
 - When moving out of a AT&T 3G service area.
 - When the network connection is poor.

2. The Video Share Call will be unavailable in the following cases (“Video Share Ready” message will be greyed out).

- When trying to make a conference call / second call during a Video Share Call.
- When holding or being held in a call.
- When moving out of a AT&T 3G service area.

“To receive a Video Share session:”

1. If you receive a Video Share request during a call, select  [Accept] to accept the request. If you don't want to accept the request, press  [Decline]. When you're a recipient of a Video Share session, the following menu items are available:

-  **Stop:** stops video sharing and proceeds with voice call only.
-  **Mute/Unmute:** mute/unmute the microphone.
-  **Spk. Off/Spk. On:** when Spk. On is selected, you can have a conversation using the speakerphone. When Spk. Off is selected, you can have a conversation using a headset When the voice call is placed on hold.

In-Call Menu

! Note

- The speakerphone will be automatically turned on when a Video Share Call begins, and automatically back to the previous mode when a Video Share Call ends.

Making a Video Share Call in Camera & Recording mode

When you are in Camera & Recording mode, you can easily make a Video Share Call to a person in your Contact List.

1. Press the right soft key  [Options] in Take Photo/Record Video mode and select [Video Share]. (This menu item is displayed only in 3G coverage. If it is unavailable, you will not be able to select from this menu item.)
2. This screen provides you with three options to make a Video Share Call:
 - a. Enter a number directly.
 - b. Select a number from the list of recent video sharers (last five numbers).
 - c. Select a number from the contact list.

! Note

- If the other party is not available for a Video Share Call, then the call will remain as a normal voice call.

Saving your Video Share

Sender can record video clip during the Video Share session. There will be a prompt asking if you would like to save or discard the video at the end of a recording session. If you choose to save the video, it will be saved in the "My Stuff," folder in your phone.

Conference Calls

The conference service provides you with the ability to have a simultaneous conversation with more than one caller. The conference call feature can be used only if your network service provider supports this feature.

A conference call can only be set up when you have one call active and one call on hold, meaning both calls must have been answered. Once a conference call is set up, calls may be

added, disconnected or separated (that is, removed from the conference call but still connected to you) by the person who set up the conference call. These options are all available from the In-Call menu. The maximum number of callers in a conference call is five. Once started, you are in control of the conference call, and only you can add calls to the conference call.

Making a Second Call

You can make a second call while currently on a call simply by entering the second number and pressing the  [SEND] key. When the second call is connected, the first call is automatically placed on hold. You can swap between calls, by pressing the  [SEND] key.

Setting Up a Conference Call

To set up a conference call, place one call on hold, conference in the second active call by pressing the right soft key and select the Join Calls sub menu option from the Conference Call menu.

Activate the Conference Call on Hold

To activate a conference call on hold, press the  [SEND] key.

Adding Calls to the Conference Call

To add a call to an existing conference call, press the right soft key, and then select the Join Calls sub menu from the Conference Call option.

Private Call in a Conference Call

To have a private call with one caller from a conference call, press the right soft key and select Private Call from the Conference Call option. When the numbers of the callers are displayed, select the one you wish to speak in private.

Ending a Conference Call

Currently active conference call can be disconnected by pressing the  [END] key.

TV & Video

Mobile TV

Menu 1.1

This section describes how to subscribe to AT&T Mobile TV *with FLO*[™] service, use the Mobile TV Player, use the Program Guide, use the Subscription Manager and set up Parental Controls.

AT&T Mobile TV *with FLO*[™] service for INVISION

Welcome to AT&T Mobile TV *with FLO* service

Congratulations! You are one step closer to experiencing the next telecommunications revolution: AT&T Mobile TV *with FLO* service.

The AT&T Mobile TV *with FLO* service allows you to watch an exciting lineup of live entertainment, news, sports and kids' programming from some of the most popular networks, including CBS, Comedy Central, ESPN, FOX, MTV, NBC and Nickelodeon.

In addition to offering compelling programming and the highest quality video and audio, the Mobile TV service is easy to use. After you subscribe to your service, you can start watching your favorite programs in the palm of your hand. The Program Guide is simple to use and navigate, allowing you to see what's on. The LG handset lets you change from one channel to the next quickly and easily without progress bars and download delays.

What's more, watching television won't compromise the quality of the voice service you've come to expect. AT&T Mobile TV *with FLO* service was designed to give you a mobile TV experience unlike any other.

Get Started!

Using your new INVISION to enjoy the AT&T Mobile TV *with FLO* service is simple.

1 with FLO and FLO are trademarks of Qualcomm Incorporated.

2 Programming and available networks are subject to change. Mobile TV *with FLO* services may require separate subscription and activation fees. Contact AT&T for details.

1. Turn on your INVISION.
2. Press the  key.

! Note

The first time you start AT&T Mobile TV *with FLO* service it may take up to several minutes. A short video will play for you while the service sets up in the background.

The Welcome to AT&T Mobile TV *with FLO* service screen appears. On this screen you can choose to subscribe to a base package now or later.



IMPORTANT: You need to be in an AT&T Mobile TV coverage area to subscribe.

To subscribe to AT&T Mobile TV offered packages

1. Choose **Subscribe Now** and press the  key; the **Review Base Package** screen appears.

If you choose **Subscribe Later**, you will have the opportunity to do so anytime you launch AT&T Mobile TV.

2. Read the base package information and press the **Continue** soft key. If any premium packages are available, the **Select Premium Package** screen appears.
3. Scroll to the premium package(s) you want to add to your base package and press the  key. You can choose more than one premium package at a time.
4. Press the **Continue** soft key when you are finished.
5. Press the **More Info** soft key if you need more information about a premium package.

! Note

If you do not wish to select a premium package, press the Continue soft key after selecting the base package.

6. Read the Terms of Service and if you agree, press the **Agree** soft key. Press the **Disagree** soft key if you do not

TV & Video

agree and you will be prompted to exit the subscription process.

7. Press the **Submit** soft key to accept the subscription. You are now subscribed to the package(s) you selected.
8. Press the **Close** soft key to return to the Player. You can start viewing content immediately.
9. Edit or cancel your subscription package(s) through the **Subscription manager** screen, accessed in the **Program Guide Options** menu.

IMPORTANT: The costs of the package(s) are added automatically to your monthly bill.

Using the Mobile TV Player

The Mobile TV Player displays scheduled programming content according to the mobile TV package you are subscribed to.

IMPORTANT: You must be subscribed to AT&T Mobile TV *with FLO* service to use the Mobile TV Player.

If you are not currently subscribed to a package that includes the selected program, press the  key to start the subscription process.

To change channels in the Mobile TV Player, use the up and down navigation keys.



When you select a highlighted, current program in the Program Guide to which you are subscribed, the Mobile TV Player launches, showing the program.

The Mobile TV Player displays the channel logo or call letters, title of the program, duration of the program, and, if available, rating information. The following are options you can perform from the Player:

- Press Guide—displays the Program Guide
- Press the up navigation key—cycles up through channels
- Press the down navigation key—cycles down through channels

! Note

While in the Mobile TV application, the phone will vibrate for all incoming alerts other than an incoming call. In the case of an incoming call, you will receive a visual notification

Using the Program Guide

Using the program guide is simple. You can view show times and program descriptions by pressing the left soft key [Options] and choose "View Description". To view information about programs playing at a later time, press the right and left navigation keys.

To view a current program in the Program Guide, highlight the program and press the  key.

The Program Guide includes all scheduled programming currently available with

their respective channels, program titles, descriptions, and show times.

If you select a channel that is not currently included in your subscription package, you can add that programming package immediately by following the prompts on your phone.



You can perform tasks from the Program Guide by displaying an options menu. Press the **Options** soft key to display the menu.



TV & Video

From the Options menu, scroll to the desired option and press the  key.

View description

From the Options menu, choose this option to view a description of a program you highlighted in the Program Guide.

Subscription manager

From the Options menu, choose this option to manage your subscription. While in the subscription screen, press **Options** soft key to display additional options.

Parental Controls

From the Options menu, choose this option if you wish to limit access to certain rated programs. To set Parental Controls:

- Turn Parental Controls on.
- Set up a PIN for the service.
- Select the rating levels for the service.

After you have performed these tasks, the service assesses a program's rating before it allows it to be viewed. Programs

with restricted ratings will require that you enter the previously selected PIN to view the program. If you do not enter the correct PIN, the program cannot be viewed or listened to. However, if you want to allow the viewing of this program only, you can enter your PIN and the program can be viewed.

Note

You must turn parental controls on before the ratings criteria can take effect.

When a program is chosen that exceeds the rating you set, you will be prompted to enter the PIN you selected. After you set up the PIN, you must enter the PIN to delete, modify, or add programming packages to your subscription.

IMPORTANT: Keep the PIN in a safe place. Do not share your PIN with unauthorized third parties. If you forget your PIN, call AT&T customer service for assistance.

Check for updates

From the Options menu, choose this option to check if there is a more current version of AT&T Mobile TV *with FLO* service available for your phone.

Refresh subscription

From the Options menu, choose this option if you believe your subscription is out of sync.

You can sync your subscription if you have more than one AT&T Mobile TV-enabled phone, and you want to swap the SIM card. When you refresh your subscription, AT&T Mobile TV *with FLO* service checks your records to verify that you are receiving the correct package.

About

From the Options menu, choose this option to display the current version of AT&T Mobile TV *with FLO* service operating on your phone.

Want more?

For more information about AT&T

Mobile TV *with FLO* service and for current programming, go to www.att.com/mobiletv.

Cellular Video**Menu 1.2**

Cellular Video (CV) brings you quick, on-demand access to crystal clear news, sports, weather and entertainment video clips. Catch up on TV's hottest shows, funniest comedians, biggest headlines and latest sports scores. You can even personalize your homepage for quick access to your favorites. In addition, the CV service automatically streams localized weather information to your personalized "News & Weather" page each and every day.

To access CV:

1. From standby mode, press the Left Soft Key to access the Menu.
2. Select TV & Video and then Select Cellular Video(CV-Video).
3. Select a category and play a clip.

TV & Video

Music Videos

Menu 1.3

Selecting Music Videos from the AT&T Music sub menu launches a browser which takes you directly into the Music Video section of Cellular Video. From this menu, you will have access to music videos from the latest artist as well as programming from AT&T, MTV, VHI, and CMT among others. Simply click on a video and begin watching!

Note

Additional charges may incur when downloading music video contents. Contact AT&T for further information.

Entertainment Videos

Menu 1.4

Selecting Entertainment Videos from the TV & Video sub menu launches a browser which takes you directly into the Entertainment Video section of Cellular Video. From this menu, you will have access to programming from AT&T, MTV, VHI, and CMT among others. Simply click on a video and begin watching!

Sports Videos

Menu 1.5

Selecting Sports Videos from the TV & Video sub menu launches a browser which takes you directly into the Sports Video section of Cellular Video. From this menu, you will have access to the most popular sports clips and programming from AT&T, ESPN, Fox Sports, and NBC Sports among others. Simply click on a video and begin watching!

Shop Videos

Menu 1.6

This menu option connects to AT&T's video download site.

Video Applications

Menu 1.7

Selecting Video Applications from the TV & Video sub menu launches the browser to an area where the user can purchase video related applications for download.

Messaging

This menu includes functions related to SMS (Short Message Service), MMS (Multimedia Message Service), voice mail, as well as the network's service messages.

New Message

Menu 2.1

! Note

If you select a graphic or an audio file while writing a multimedia message, the file loading time will take about 5 seconds. You will not be able to activate any key during the file loading time. When the file loading is complete, you will be able to write a multimedia message.

Editing a message

The following options are available for Editing a Message. (Press the left soft key [Insert])

- ▶ **Symbol:** You can insert symbols ranging from sentence notes to emoticons. Pressing the left and right soft keys scrolls through pages. Using the navigation key highlights symbols.

- ▶ **Picture:** You can select a graphic image by using the left/right navigation keys. You can preview the selected picture by pressing the left soft key [View].
- ▶ **Audio:** You can insert various ringtones.

! Note

vCard, vCalendar, vNote and vTask are created by Address Book, Calendar, Notepad and Tasks respectively. Go to the Tools and Address Book sections for more detailed information.

- ▶ **Video:** You can insert a video clip.
- ▶ **New Picture:** You can insert a new image taken from the camera by pressing **[Capture]**. The following camera options are available when you press **[Options]**:
 - **Resolution:** The resolution of the image can be captured in **1280*960/ 640*480/ 320*240/160*120**.
 - **Quality:** The quality of the captured image can be **Super Fine/Fine/Normal**.
 - **Primary Storage:** You can assign the primary storage to **Handset** or **Memory Card**.

Messaging

- **Self Timer:** Camera timer can be set to **Off/ 3 Seconds/5 Seconds/10 Seconds**.
- **Advanced Settings:** Set the **White Balance** as **Auto/Daylight/ Incandescent/Cloudy/Fluorescent/ Night mode**. **Color Effects** includes options such as **Color/ Sepia/ Mono/ Negative**. **Shutter Tones** can be set to **Tone 1/ Tone 2/ Tone 3/ Off**.
- **Default Settings:** Allows you to set to the default settings.
- ▶ **New Audio:** You can record a new audio clip by pressing the center key [Record]. After recording a new audio clip, you can cancel it by pressing the right key [Cancel]. Press the right soft key [Options] before you begin recording to access the following options:
 - **Quality:** Set the audio's quality to **Fine, Normal** or **Economy**.
 - **Primary Storage:** You can assign the primary storage to **Handset Memory** or **Memory Card**.
- ▶ **New Video:** You can record new video by pressing the center key [Record].
- ▶ **Subject:** Type a subject into the message.
- ▶ **Others:** Allows you to insert vCard, vCalendar, vNote or vTask.
- ▶ **Template**
 - **Text:** You can easily insert the frequently used sentences in the text message.
 - **Multimedia:** The preset multimedia templates are available.
 - **Signature:** Input your own signature created in (Menu 2.9.3). For further details, see page 54.
- ▶ **Contact:** You can browse one of your contacts and insert it.
- ▶ **Slide:** You can insert a slide and place it to **Insert Slide Before** or **Insert Slide After**.

Using Options

Press right soft key [Options].

- **Preview:** Shows the created multimedia message before sending it.(Only for Multimedia Message)
- **View Attachment:** Shows the attached file.
- **Save to Drafts:** Saves the selected message to Drafts.
- **Remove:** Removes the selected multimedia or vObject.(Only for Multimedia Message)
- **Select Slide:** If the message has more than one slide, you can select and move to the desired slide.(Only for Multimedia Message)
- **Set Slide:** Sets the Duration, Text Color and Background Color of the selected slide. (Only for Multimedia Message)
- **Settings**
 - **Priority:** You can set the priority of the message you choose.
 - **Delivery Receipt:** If it is set to "On" in this menu, you can check whether your message is sent successfully.
 - **Request Read Receipt:** Allows you to determine whether or not you will receive a read confirmation when a recipient has read a sent message.
- **Text Entry Mode:** Sets the text input mode. For more details, refer to Entering Text (page 21).
- **Text Entry Settings:** Text Entry Language allows you to set the text entry language to English, Spanish or French. T9 Next Word Prediction is available when it is set to On. Use T9 Dictionary to add words or delete/reset/modify words.
- **Cancel:** Allows you to exit the text input mode without saving your input message.

Messaging

Sending a Message

After completing a message using the Insert/Options, select **Send To** to send a message.

- Enter the recipient(s) as To, Cc and Bcc. You can use the Contacts option to choose a recipient.
- Press the right soft key [Options].

You can insert symbols, refer to recent messages, recent calls and caller groups to set as a recipient, and edit your message. For the **Save to Drafts**, **Text Entry Mode**, **Text Entry Settings** and **Cancel** options, see the descriptions above.

Inbox

Menu 2.2

You will be alerted when you receive a message. They will be stored in the Inbox. In the Inbox, you can identify each message by icons. If you are notified that you have received a multimedia message, you can download the whole multimedia message by selecting it in the Inbox menu.

The following [Options] are available in the Inbox list.

- ▶ **Save Contact Info:** You can save the sender's phone number in the Contact List.
- ▶ **Delete:** You can delete the current message.
- ▶ **Forward:** You can forward the selected message to another party.
- ▶ **Reply All:** Allows you to reply to all recipients on the selected message (Only for Multimedia messages).
- ▶ **Information:** You can view information about received messages; Message type, Subject, Sender's address,

Message date & time, Priority, Message size, Attached Files (Only for Multimedia messages).

- ▶ **Multi Delete:** Deletes a number of messages you have selected from the folder.
- ▶ **Delete All Read Messages:** You can delete all read messages.
- ▶ **Delete All:** You can delete all messages.

IM

Menu 2.3

The Instant Messaging feature can only be used with the support of the network operator or communities such as AIM, Windows Live and Y! Messenger. For Instant Messaging users, a valid User ID and Password will be required in order to login and exchange messages as well as checking the online status.

You can access the IM feature

1. Through the Main Menu.
2. Through the IM hotkey (the right navigation key). Short pressing the

hotkey will bring up the available IM clients. The menu items below might not appear since not all IM communities support the various options. Also the menu strings may appear differently based on the selected IM communities. The keywords such as User ID, Login and Contact will be used as general terms in IM menus according to the currently selected communities such as AIM, Windows Live and Y! Messenger.

Offline Menu

Sign In

This allows users to login by filling in the User ID and Password.

! Note

Once the User ID and Password are saved, you will not be required to type them in again during Login process. This feature is optional.

Saved Conversations

This is where a user can view saved conversations.

Messaging

Settings

- ▶ **Set Sound:** Allows you to set on/off an alert for the Contact when they have activity on their session.
- ▶ **Network:** You may check your IM Network Profiles or Server Address information.

IM Information

This displays the Instant Messaging Client Information such as Client Name and Version Number.

Online Menu / 1 to 1 conversation

After a successful Login, a list of contacts with Screen Names will appear on screen. Depending on the cursor location in the contacts, the following menu options will be available.

When cursor is located on a Conversations List

! Note

The Conversations List contains both the active contact where a conversation has taken place as well as an unknown contact.

When cursor is located on a Conversation

- ▶ **End Conversation:** This closes the selected conversation. If an unknown contact was selected, that contact is deleted.
- ▶ **Block/Unblock Contact:** This allows you to block/unblock the selected Conversations Contact.
- ▶ **Contact Info:** This allows you to view the User ID and Status Text information.
- ▶ **Settings:**
 - **My Status:** Allows you to set your status to Available, Busy or Invisible.
 - **Set Sound:** Allows you to set on/off an alert for the Contact when they have activity on their session.

- ▶ **Sign Out:** This begins the Logout process.

When cursor is located on a Contact List

- ▶ **Add a Contact:** This adds a new contact to the selected contacts' list; contacts are searched on the basis of E-mail Address, First Name, or Last Name.
- ▶ **Send Message to:** Allows you to send a message to someone by inputting an e-mail address.
- ▶ **Refresh Contact List:** This refreshes the present information on the contacts within the list.
- ▶ **Block List:** Displays the list off all blocked Contacts.
- ▶ **Saved Conversations:** This is where a user can view saved conversations.
- ▶ **Settings:**
 - **My Status:** Allows you to set your status to Available, Busy or Invisible.
 - **Set Sound:** Allows you to set on/off an alert for the Contact when they have activity on their session.

- ▶ **Sign Out:** This begins the Logout process.

When cursor is located on a Contact

- ▶ **Add Contact:** This adds a new contact to the selected contacts list; contacts are searched on the basis of E-mail Address, First Name, or Last Name.
- ▶ **Delete Contact:** This deletes the selected Contact.
- ▶ **Move Contact:** Allows you to move a Contact to another Contact List.
- ▶ **Block/Unblock Contact:** This allows you to block/unblock conversation with the selected Contact.
- ▶ **Contact Info:** This allows you to view information. It provides User ID, Status Text.
- ▶ **Settings:**
 - **My Status:** Allows you to set your status to Available, Busy or Invisible.
 - **Set Sound:** Allows you to set on/off an alert for the Contact when they have activity on their session.

Messaging

- ▶ **Sign Out:** This begins the Logout process.

Menu options available in the Conversation screen

- ▶ **Insert:** You can insert Symbol, Template and emoticons in the conversation screen. This feature is accessed by pressing the left soft key.
- ▶ **Back to Contacts:** This brings the screen back to the contacts.
- ▶ **My Communities:** Displays the list of E-mail providers.
- ▶ **Block/Unblock Contact:** This allows you to block/unblock conversation with the selected Contact.
- ▶ **Add to Contact List:** Allows you to add the person you are currently having a conversation with to a Contact List.
- ▶ **Save Conversation:** Stores the currently active conversation.
- ▶ **End Conversation:** This ends the active conversation and clears the conversation buffer.

▶ Settings:

- **My Status:** Allows you to set your status to Available, Busy or Invisible.
 - **Set Sound:** Allows you to set on/off an alert for the Contact when they have activity on their session.
- ▶ **Text Entry Mode:** Sets the text input mode such as abc, Abc, ABC, T9 abc, T9 Abc, T9 ABC and 123.
 - ▶ **Text Entry Mode Settings:** This selects the T9 predictive mode Language. This feature also allows you to turn T9 mode on or off, and access the T9 Dictionary.
 - ▶ **Minimize:** Minimizes the IM window and returns to standby mode.
 - ▶ **Sign Out:** This begins the logout process.

! Note

- In the conversation window, you can use the up/down navigation key for scrolling through the conversation.
- Maximum number of characters supported by a message is 800 characters for receiving and 127 characters for sending.

- The present information might not update in real time so the “Refresh List”/“Refresh Contact” option can be used for the most up to date status.

Mobile Email

Menu 2.4

Mobile Email allows you to access your Yahoo! Mail, AOL Mail, AIM Mail, Windows Live Mail, AT&T Yahoo!, BellSouth Mail and Other providers accounts on your phone. So, now you can quickly and easily check your email while you’re away from your computer.

To Set Up Mobile Email

- ▶ **Open Mobile Email:** Highlight **Mobile Email** and press **OK**.
- ▶ **Select an Email Provider:** Use the navigation key to highlight the email provider you wish to use and press **OK**.
- ▶ **Log In**
 1. Highlight the ID entry field, press down on the navigation key, and then type in your existing email ID.

2. Scroll down and highlight the Password field, press down on the navigation key, and enter your password. Quick Tip: Your password is case sensitive. Press the  on the keypad to change to lower case or upper case.
 3. To save your password scroll down to Remember Me and press down on the navigation key to check the box.
 4. Select **Sign In**.
- ▶ **Opening an Email:** Just scroll down and highlight the email subject line you want to open and press down on the navigation key. Once the email opens, just select Options to reply, forward, or delete.
 - ▶ **Deleting an Email:** Just scroll down to the email you want to delete, press Options, then Delete.

For additional details, visit www.att.com/email

Messaging

Drafts

Menu 2.5

You can view the messages saved as drafts.
The following [Options] are available.

- ▶ **Information:** Allows you to view the information on the message.
- ▶ **Multi Delete:** Allows you to delete multiple messages you select from the folder.
- ▶ **Delete All:** Deletes all messages in the folder.

Outbox

Menu 2.6

Outbox is a temporary storage place for messages waiting to be sent.

When you press the  [SEND] key, you can make a call to the number of the recipient number of the selected message.

If the message is not sent from the Outbox, you will receive a sound alert along with a Message Sending Fail notice on the screen. Another attempt will be made to send the failed message and after two unsuccessful

attempts, the message will no longer be sent automatically. In order to send the message that has failed, you must press the left soft key **Resend** to resend the message.

After the maximum number of **Send** attempts has been reached the Send function has failed.

If you were trying to send a text message, open the message and check that the Sending options are correct.

When the message Send has failed, the following [Options] are available.

- ▶ **Delete:** Deletes the selected message which has failed.
- ▶ **Edit:** Allows you to edit the selected message.
- ▶ **Error Status:** Allows you to see the error status of the failed message (Only for Multimedia message).
- ▶ **Information:** Allows you to view the information on the message.
- ▶ **Delete All:** Deletes all messages in the folder.

Sent

Menu 2.7

This is where you can view the list and contents of sent messages and also verify if transmission was successful.

The following [Options] are available.

- ▶ **Delete:** Deletes the selected message from the Sent list.
- ▶ **Information:** Allows you to view information on the message.
- ▶ **Delete All:** Deletes all messages in the folder.

Voicemail

Menu 2.8

This menu provides you with a quick way of accessing your voice mailbox (if provided by your network).

Before using this feature, you must enter the voice server number obtained from your service provider.

This may already be available; to check the voicemail, press and hold the  key.

When new voicemail is received, the symbol  will be displayed on the screen.

! Note

Please check with your network service provider for details of their service in order to configure the handset accordingly.

Templates

Menu 2.9

Text Templates (Menu 2.9.1)

There are 6 predefined messages in the list. You can view and edit the template messages or create new messages.

The following [Options] are available.

- ▶ **Send:** Allows you to send the selected template via Message.
- ▶ **Delete:** Allows you to delete the selected template message.
- ▶ **Edit:** Allows you to edit the selected template message.
- ▶ **Delete All:** Deletes all messages in the folder.

Messaging

Multimedia Templates (Menu 2.9.2)

1. You can add new multimedia templates by pressing the left soft key [New].
2. The following choices are available under Options.
 - ▶ **Edit Message:** You can edit multimedia messages you have created.
 - ▶ **Preview:** You can preview multimedia messages you have created.
 - ▶ **Remove:** You can remove a multimedia object you have inserted.
 - ▶ **Text Entry Mode:** Sets the text input mode as abc, Abc, ABC, T9 abc, T9 Abc, T9 ABC and 123.
 - ▶ **Text Entry Settings: Text Entry Language** allows you to set the text entry language to English, Spanish or French. **T9 Next Word Prediction** is available when it is set to **On**. Use **T9 Dictionary** to add words or delete/reset/modify words.
 - ▶ **Cancel:** Allows you to exit the text input mode without saving your message.

Signature (Menu 2.9.3)

This feature allows you to create your Text signature. You can use symbols, text templates and contacts as part of the signature.

Message Settings

Menu 2.0

Text Message (Menu 2.0.1)

- ▶ **Message Center Number:** If you want to send a text message, you can get the address of the SMS center by using this menu.
- ▶ **Email Gateway:** You can send the text message to an Email Address via this gateway.
- ▶ **Message Subject:** You can enter a subject for Text Messages when this feature is turned on.
- ▶ **Insert Signature:** You can turn the Signature (Menu 2.9.3) feature on or off.

Multimedia Message (Menu 2.0.2)

- ▶ **Priority:** You can set the default priority level for Multimedia Messages.
- ▶ **Message Subject:** You can enter a subject for Multimedia Messages when this feature is turned on.
- ▶ **Validity Period:** This network service allows you to set how long your multimedia messages will be stored at the message center.
- ▶ **Send Delivery Receipt:** If this feature is turned on, you can check if a Multimedia Message was successfully delivered to the recipient.
- ▶ **Send Read Receipt:** If this feature is turned on, you can check if a Multimedia Message has been read by the recipient.
- ▶ **Download Options**
 - **Download Without Ask:** Allows Multimedia Messages to be downloaded automatically.

- **Ask Always:** If this option is set, Multimedia Messages have to be downloaded manually.

- **Discard:** Allows Multimedia Message to be rejected without being downloaded.

- ▶ **Message Center:** The details for the Multimedia gateway are pre-loaded onto your handset and should not be changed.

Voicemail (Menu 2.0.3)

This menu allows you to set the voicemail center number if this feature is supported by the network service provider. Please check with your network service provider for details of their service in order to configure the handset accordingly.

Service Messages (Menu 2.0.4)

You can set the Service option to determine whether you will receive service messages or not.

Recent Calls

You can check the record of missed, received, and dialed calls only if the network supports Calling Line Identification (CLI) within the service area.

The number and name (if available) are displayed together with the date and time of the call. You can also view call times.

Missed Calls

Menu 3.1

- View the number, if available, and call it or save it in the Address Book.
- Enter a new name for the number and save both in the Address Book.
- Send a message using this number.
- Delete the call from the list.

Dialed Calls

Menu 3.2

- View the number, if available, and call it or save it in the Address Book.
- Enter a new name for the number and save both in the Address Book.
- Send a message using this number.
- Delete the call from the list.

Received Calls

Menu 3.3

- View the number, if available, and call it or save it in the Address Book.
- Enter a new name for the number and save both in the Address Book.
- Send a message using this number.
- Delete the call from the list.

All Calls

Menu 3.4

Allows you to view all of missed, received, and dialed call records.

Call Duration

Menu 3.5

This allows you to view the duration of incoming and outgoing calls. You can also reset the call times. The following timers are available:

Last Call

Length of the last call.

Received Calls

Length of the incoming calls.



Dialed Calls

Length of outgoing calls.

All Calls

Total length of all calls made and incoming calls received since the timer was last reset.

Data Counter

Menu 3.6

You can check the Sent, Received or All data volumes and Reset data counter.

MEdia Net

This menu shows how to access the Internet by launching the WAP browser.

MEdia Net is one of the services provided by AT&T and it gives you access to all the cool things you can do with your wireless phone.

Note

Check the availability of WAP services, pricing and tariffs with your network operator and/or the service provider whose service you wish to use. Service providers will also give you instructions on how to use their services.

Please contact your service provider to open an Internet account.

To launch the browser in standby mode, press the  key.

Once connected, the homepage is displayed. The content depends on the service provider.

To exit the browser at any time, press the  key and select **Yes**. The idle screen is displayed.

Menus for the Browser

You can surf the Internet using either the phone keys or the WAP Browser menu.

Using the Navigation Keys

When surfing the Internet, the keys function differently from phone mode.

Key	Description
up/down navigation key	Scroll each line of the content area

Using the WAP Browser Menu

There are various menus available when surfing the Internet.

MEdia Net Home

Menu 4.1

This connects to the homepage which is defined in the activated account. The default account connects to AT&T's homepage.

Bookmarks

Menu 4.2

This function allows you to store and edit frequently accessed sites. The following [Options] are available.

! Note

Your phone may have some pre-installed bookmarks for sites not affiliated with LG. LG does not warrant or endorse these sites. If you choose to access them, you should take the same precautions for security or content as you would with any site.

- ▶ **View:** Display the bookmark title and URL. Press the left soft key for this function.
- ▶ **Connect:** Connect to the selected bookmark site. Press the center key for this function.
- ▶ **New Bookmark:** Add a new bookmark manually.
- ▶ **Edit:** Modify the existing bookmark item.
- ▶ **Delete:** Allows you to erase the selected bookmark.
- ▶ **Move:** Allows you to move the selected bookmark.

▶ **Send URL:** Allows the bookmark information to be sent via SMS to another person.

▶ **New Folder:** Add a new folder manually.

▶ **Delete All:** Allows you to erase all bookmarks.

! Note

Pre-installed bookmarks cannot be deleted or edited by users.
In order to change the text input mode for symbol input, please refer to the General Functions section.

Saved Pages

Menu 4.3

This saves the page on display as an off-line file. A maximum of 20 pages can be saved.

Enter URL

Menu 4.4

Input the URL manually to connect to the Internet site.

Recent Pages

Menu 4.5

You can manage the list of the Internet pages you visited.

Security

Menu 4.6

- ▶ **Certificates:** Display the list of the available certificate and show the details.
- ▶ **Clear Session:** Removes the information of the TLS/SSL session.

Browser Settings

Menu 4.7

Accounts (Menu 4.7.1)

This includes the network information used to connect the browser to the Internet.

Select the desired account by pressing the soft key, which is labeled as "Activate". This will activate the account that will be used for future connection.

MEdia Net is the predefined account that is set as default.

- ▶ **Activate:** Select the account among the list of accounts, so it can be used for future connection. Press the left soft key for this function.

- ▶ **View:** Allows you to see the specific account information. Press the center key for this function.
- ▶ **Edit:** Allows you to change the account information.
- ▶ **Delete:** Allows you to delete the account.
- ▶ **New:** Allows you to create a maximum of 10 new accounts.

! Note

You cannot edit or delete pre-installed accounts.

In order to create a new account, please fill in the network information.

- 1. Account Name:** Name associated with new account.
- 2. Homepage:** Homepage URL.
- 3. Internet Profile:** You can choose one from the internet profiles.

! Note

- 1.** The account information will be available from your operator.

2. Creating or editing an account requires care.
The browser cannot connect to the Internet if the account information is not correct.

Primary Storage (Menu 4.7.2)

You can assign the primary storage to **Handset** or **Memory Card**.

Java Script (Menu 4.7.3)

Select whether to turn Java script On or Off.

Cache Settings (Menu 4.7.4)

The web pages you have accessed are stored in the memory of the phone.

- ▶ **Clear Cache:** Remove all cached data in the memory.
- ▶ **Allow Cache:** Set to On or Off to determine whether a connection attempt is made through the cache or not.

! Note

A cache is a buffer memory, which is used to store data temporarily, especially when it is online.

Cookie Settings (Menu 4.7.5)

The information or services you have accessed are stored in the cookies.

- ▶ **Delete Cookies:** Remove all cookies.
- ▶ **Allow Cookies:** Set to On or Off to determine whether a connection attempt is made through the cookie or not.

Character Encoding (Menu 4.7.6)

Select a character set from the following list:

- 1 Automatic
- 2 English(ASCII)
- 3 English(ISO)
- 4 English(LATIN)
- 5 Unicode(UCS2 BE)
- 6 Unicode(UCS2 LE)
- 7 Unicode(UCS2 Auto)
- 8 Unicode(UTF-16 BE)
- 9 Unicode(UTF-16 LE)
- 0 Unicode(UTF-16 Auto)
- * Unicode(UTF-8)

Scrolling Control (Menu 4.7.7)

Select from **1 Line**, **2 Lines** or **3 Lines**.

Show Image (Menu 4.7.8)

This allows you to view pictures when browsing.

AuthWallet (Menu 4.7.9)

If set to On, the user's personal information such as ID and Password used to access the Internet site will be saved automatically for future use.

Online menu

Once you are connected to the Internet, the following menu options are available:

- ▶ **Back:** Moves to the previous page.
- ▶ **Forward:** Moves to the next page.
- ▶ **Refresh:** Loads the current page again.
- ▶ **Home:** Moves to the initial homepage.
- ▶ **Windows:** You can open a new window, switch to the next window and close the current window.

- ▶ **Enter URL:** Connects to the specific URL after editing.
- ▶ **Search Text:** You can find a specific text within the web page.
- ▶ **Recent Pages:** You can manage the list of the Internet pages you visited.
- ▶ **Bookmarks:** You can add or save the current page to Bookmarks or view the list of saved Bookmarks.
- ▶ **Page Overview:** You can see a full-screen overview of the web page.
- ▶ **Settings:** You can set browser related options such as Clear Cache, Delete Cookies, etc.



AT&T Mall

Shop Tones

Menu 5.1

This menu option connects to AT&T's ringtone download site.

Shop Games

Menu 5.2

This menu option connects to AT&T's game download site. This allows users to download the various games by connecting to the Internet.

Shop Graphics

Menu 5.3

This menu option connects to AT&T's graphic download site.

Shop Multimedia

Menu 5.4

This allows you to connect to AT&T's multimedia download site.

Shop Applications

Menu 5.5

This menu option connects to AT&T's application download site. This allows users to download the various applications by connecting to the Internet.

Shop Videos

Menu 5.6

This menu option connects to AT&T's video download site.

MEdia Net Home

Menu 5.7

This connects to the homepage. The homepage is the site which is defined in the activated account.

Note

Additional charges may incur when downloading contents. Contact your service provider for further information.

AT&T Music

Music Player

Menu 6.1

- ▶ **All Songs:** You can view the entire list of songs in the internal/external memory.
- ▶ **Playlists:** You can create your own playlists by choosing songs from the All Songs menu list.
- ▶ **Artists:** Shows the list of artists of all the songs in internal/external memory, and shows the songs of chosen artist.
- ▶ **Albums:** Shows the list of albums of all the songs in internal/external memory, and shows the songs of chosen album.
- ▶ **Genres:** Shows the list of genres of all the songs in internal/external memory, and shows the songs of chosen genre.

! Note

Copyrights of music files may be protected by copyright and intellectual property laws. Therefore, it may be required to obtain necessary permissions or licenses before you can reproduce or copy the materials. In some countries, national law prohibits copying of copyrighted materials for personal archive as well. Prior to downloading or copying the files, please ensure

that you adhere to the applicable laws and laws of corresponding countries or regions regarding the Terms of Use of materials.

Playing Music

To listen to music that you have transferred to your phone, follow these quick easy steps:

1. Press the left soft key [Menu], select **AT&T Music(6)**, **Music Player(1)**, then **All Songs(1)** or **Playlists(2)**.
Select a song or playlist.
2. Press  to play/pause. Press **up** or **down** on the Navigation Key to change the volume, and **left** or **right** to go to the previous or next song.
3. Press the **Left Soft Key** for **Minimize** to access other phone functionality while music is playing.
4. Press the  key to browse for a song or playlist again.

Adding Music To Your Handset

Before You Get Started

To transfer music from your PC to your device, you will need the following:

- Windows Media Player 10 or above
- Music on your PC in one of these formats: MP3, AAC, AAC+ or WMA
- A MicroSD card (supports up to **8GB** cards)
- USB data cable

*microSD card and USB data cable sold separately; go to att.com/wireless

Adding Music to your Handset

Music files can be added to your handset by using one or more of the following methods:

- Download music and ringtones over the AT&T network directly to your device by using the Shop Music feature.
- From your existing digital media collection thru Windows Media Player®.

- From music stores through the applicable music client.

Transferring music using Windows Media Player

1. Insert microSD memory card in phone.
2. Connect phone to the computer using USB cable.
3. Once the USB cable is connected, the handset displays "Connected as Music Sync Mode". The computer screen shows the phone.
4. On the computer, you will be prompted to launch your preferred music management software.

Note

Music stores may require other software to be downloaded and separately installed or see User Guide for use of Windows Explorer to drop and drag tracks from you computer to phone.

5. Once your music management software is launched, highlight the track(s) you wish to transfer to the handset and begin the transfer process.

AT&T Music

! Warning

Do not disconnect phone while the transfer is in progress.

! Note

Not compatible with iTunes and/or iTunes files.

Drag and Drop Music Using INVISION As A Mass Storage Device

1. Insert a MicroSD memory card.
2. Power on the phone.
3. Connect the device to a PC using a INVISION USB data cable.
4. A bubble may appear, "Found New Hardware LG USB Modem".
5. Access My Computer on the PC.
6. The phone's memory card will be listed under "Devices with Removable Storage" in the same location as an optical drive.

! Note

The PC will automatically assign a drive letter.

7. File explore in a new window for desired music files.

8. Drag and drop the desired music content from the PC window to the "Storage Card" window.

9. Disconnect the device from the cable.

10. Access the Music Player on the phone.

! Note

Sideloaded is not supported via Bluetooth.

Transferring Music from the Digital Music Stores

In order to download music from the computer to your handset, a microSD card and USB data cable are required. These items are sold separately; please visit att.com/wireless to purchase them.

1. Using your computer, open your preferred WMDRM PC music management client.
2. See steps 1-3 of Transferring music using Windows Media Player on page 65 for details.

Note

If the target computer does not detect the newly connected handset or show the Portable Device dialog box on the PC screen, please follow steps 3 - 4.

3. See page 97 (USB Connection Mode) for details.
4. Use the Up or Down Navigation key to highlight Music Sync and press the Select soft key or the [OK] key.
5. Highlight the song you wish to download to the handset.
6. Using your right mouse button, click on the highlighted song and select Transfer Track(s) to Portable Device from the drop-down menu. This step begins the download process.
7. From within the Windows Media Player application, click on the Sync tab. Previously downloaded songs are then listed on the left side of the application.
8. Choose the destination location for the media files. The INVISION Music Sync Player appears in a drop-down list on the right side of the screen.

Note

If there are no items present in the playlist, click the Edit Playlist button and begin adding the music files from among the various media categories.

9. Click on the checkmark boxes (to the left of the song entry) to select the song you want to synchronize to your handset.
10. Click the Start Sync button at the upper right corner of the application to download the selected songs to your handset. A "synchronization in progress" message appears on the application. Do not unplug the handset during this process. Once complete, a Music folder appears below the INVISION Music Sync Player on the right of the Sync tab.
11. It is now safe to unplug the USB connector from the handset.

Importing a Playlist from a 3rd Party Application

1. Open Windows Media Player on your computer (version 10.0 or higher).
2. Use the USB adapter cable to connect the handset to the target PC. When you try to connect handset on your PC, the handset displays "Connecting as Music Sync...".
3. Once the USB connection has been established, the handset displays "Connected as Music Sync Mode" and the computer screen then shows the INVISION device.
4. From within the Windows Media Player application, click on the Library tab.
5. From the left side of the Library tab, click on All Music. The right side of the page is then populated with all of the songs which the player has previously found.
6. Right click on the song entry and select, Add to.. > Additional Playlists.
7. From the Add to Playlist dialog, click the New button and type in a unique playlist name.
8. Click OK when you are done entering the new playlist name. The new Windows Media playlist is then displayed within the My Playlist section of the Library tab (left side).
9. Drag and drop the newly created playlist from the My Playlist section to the phone Music Sync Player listed just above it. The phone Music Sync Player appears on the left side of the screen.
10. It is now safe to unplug the USB connector from the handset.

Note

If there are no items present in the playlist, click the Edit Playlist button and begin adding the music files from among the various media categories.

Note

1. If you connect your handset with a Specific USB Hub on your PC, the above music sync service may not work. So we recommend a direct USB Connection on your PC instead.

2. Once you connect your mobile phone to the PC, the phone's screen will display the "Connecting as Music Sync..." message. If the message does not change to "Connected as Music Sync Mode", check if your PC is running Windows XP and Windows Media Player 10 or later. If your PC is running Windows XP and Windows Media Player 9, please download WMP10 or WMP11 by visiting Microsoft site. If your PC is running XP and WMP10 or later but "Connecting as Music Sync..." message does not disappear from the screen after you have tried to establish connection three to four times, perform one of the following methods and try again.

(Please note that all of the existing data will be erased on microSD card if you use the below process.)

- A. Follow those steps: Menu -> Settings -> Reset Settings -> Master Clear -> Memory Card.
 - B. Format external memory using Mass Storage.
 - C. Remove external memory from the phone, and insert external memory to the phone and format.
3. If you have connected your handset to PC, and trying to send file using Music Sync, but the function is not working properly, please check the below lists.

- A. Check whether the file length you are transmitting is not too long.
- B. Check whether the license of the file you are transmitting is not expired.
- C. Check whether the file you are transmitting is a right format for your phone (MP3, WMA, AAC).

If you have checked the above three lists, and still the file is not transmitted, please try step 2.

4. If you transfer files as shown below, the transferred files will not show in a third party application or in Windows Media Player.
 - A. Transmitted a file using Mass Storage, but not using Music Sync function.
 - B. Transmitted a file by directly inserting external memory on PC.
5. When you have transferred files with Music Sync feature and you want to delete them from your phone, you should connect the phone to your PC again with Music Sync to delete them. Even if you have deleted files transferred with Music Sync feature as shown below, delete them again with Music Sync. Otherwise you will not be able to transfer files identical to the deleted files again.
 - A. Deleted a file using Mass Storage, but not using Music Sync function.
 - B. Deleted a file by directly inserting external memory on PC.

AT&T Music

C. Deleted a file using delete function on the phone.

Shop Music

Menu 6.2

Selecting Shop Music from the AT&T Music sub menu launches the browser to a music landing page from which you can purchase music from 3rd party stores and personalization content from AT&T. Some sites are data intensive (i.e. previews via streaming) so the user should have an unlimited MEdia bundle like the MEdia Max 200.

! Note

Additional charges may incur when downloading music.

Contact your service provider for further information.

MusicID

Menu 6.3

MusicID is an application which uses the onboard microphone to analyze a song sample and then compare it to a remote database of songs. Once the application completes the analysis of the song sample, it then provides you with the name of the song, artist and album art as well as opportunities to buy related content.

- ▶ **ID song!:** Allows you to find out information of unknown music by sending the sound of the unknown music to the web. If the web identifies the song, it returns with relevant information about the song.
- ▶ **manage IDs:** Once a song has been identified through the MusicID, you can see the list of songs in this folder.
- ▶ **help me out:** Information for how to use this java application.
- ▶ **exit:** Ends the application and exits.

XM Radio

Menu 6.4

Selecting XM Radio from the AT&T Music sub menu launches a preinstalled java application.

The application allows the user to listen to dozens of channels of digital radio on your mobile phone. Get unlimited access to commercial-free music, the latest Hip Hop, R&B, Rock, Jazz, Country anywhere you go.

Warning: This product will use a large amount of data and you are responsible for all data charges incurred. AT&T strongly recommends that you subscribe to a MEdia Max data bundle IN ADDITION to this purchase. Call AT&T at 611 to sign up for the MEdia Max package if needed.

Music Videos

Menu 6.5

Selecting Music Videos from the AT&T Music sub menu launches a browser which takes you directly into the Music Video section of Cellular Video. From this menu, you will have access to music videos from the latest artist as well as programming from AT&T, MTV, VHI, and CMT among others. Simply click on a video and begin watching!

! Note

Additional charges may incur when downloading music video contents.

Contact your service provider for further information.

The Buzz

Menu 6.6

Selecting The Buzz from the AT&T Music sub menu launches a preinstalled java application (e.g. Billboard). The application allows the user to obtain relevant music industry news and information including charts, news, and concert locations.



AT&T Music

Community

Menu 6.7

Selecting Community from the AT&T Music sub menu launches the browser to either one or more of the hot user communities. The application allows the user to interact with their friends and the community as well as review artist fan sites.

Music Apps

Menu 6.8

Selecting Music Apps from the AT&T Music sub menu launches the browser to an area where the user can purchase music related applications for download.

Games

Menu 7.1

Java is a technology developed by Sun Microsystems. Similar to the way you would download the Java Applet using the standard Netscape or MS Internet Explorer browsers, Java MIDlet can be downloaded using a WAP enabled phone. Depending on the service provider, Java based programs such as Java games can be downloaded and run on a phone. Once downloaded, the Java program can be viewed within the Games menu where you can select, execute or delete. Java program files saved in the phone or memory card are in .JAD and .JAR formats.

! Note

The JAR file is a compressed format of the Java program and the JAD file is a description file that includes all detailed information. From the network, prior to download, you can view all detailed file descriptions from the JAD file.

! Warning

Only J2ME (Java 2 Micro Edition) based programs will run in a phone environment.

J2SE (Java 2 Standard Edition) based programs will only run in a PC environment.

- ▶ **Shop Games:** This menu option connects to AT&T's game download site.
- ▶ **Games List:** You can see the default and downloaded games in the list.

Applications

Menu 7.2

This menu displays the list of Java programs downloaded using WAP. All previous downloaded programs can be selected, deleted, or viewed in detail within the Application menu.

- ▶ **Shop Applications:** This menu option connects to AT&T's application download site.
- ▶ **Applications List:** You can see the downloaded applications in the list.

My Stuff

Audio & Ringtones Menu 7.3

- ▶ **Answer Tones:** This menu option shows the list of the sites which is related with AT&T's answer tone.
- ▶ **Shop Ringtones:** This menu option connects to AT&T's ringtone download site.
- ▶ **Record Voice:** You can record your own audio by pressing the  [OK] key.
- ▶ **Files:** You can view the audio files in the list.

Pictures Menu 7.4

- ▶ **Shop Graphics:** This menu option connects to AT&T's graphic download site.

! Note

Additional charges may be incurred when downloading graphics. Contact your service provider for further information.

- ▶ **Take Photo:** You can take your own photo by pressing the  [OK] key.

- ▶ **Make Animated GIF:** You can make an animation file with the selected images in the list.
- ▶ **Files:** You can view the graphic files in the list.

Video Menu 7.5

- ▶ **Shop Videos:** This menu option connects to AT&T's video download site.
- ▶ **Record Video:** You can record your own video by pressing the  [OK] key.
- ▶ **Files:** You can view the video files in the list.

! Note

DRM (Digital Rights Management) Contents
Copyright protected contents.

DRM sometimes restricts some functions, such as send, and edit. The  indicates content controlled by DRM protection.

Tools

Menu 7.6

Voice Command (Menu 7.6.1)

! Note

Press and hold down  key on the idle screen to access the Voice Command menu.

Voice command is the function whereby your phone's voice recognition engine identifies the voice of the user and carries out the requested commands.

When the user operates the voice command function, there are six possible commands, Call <Name or Number>, Listen Voicemail, Missed Calls, Messages and Time & Date.

1. Call <Name or Number>: This command is activated when the user says "Call" and a name or number. Clearly state the name or number.

• Commands available to user

- **Next:** cursor moves to the next set of data.
- **Yes:** make phone call.
- **Cancel:** back to the call someone screen.
- **Exit:** terminate voice command.

2. Listen Voicemail: this command is activated when the user says the words "Listen Voicemail". You will be automatically connected to your voicemail.

3. Missed Calls: this command is activated when the user says the words "Missed Calls". The mobile phone displays your history of missed calls.

• Commands available to user

- **Yes:** make phone call

4. Messages: this command is activated when the user says the word "Messages". Mobile phone displays details of unread SMS or MMS messages.

My Stuff

- **Commands available to user**

- **Yes:** make phone call

5. Time & Date: this command is activated when the user says the words "Time & Date". The phone displays the current time and date.

The following [Options] are available in the Voice Commands menu:

- **Mode**

- **Speed:** Voice command is abbreviated.
- **Normal:** Voice command is played normally.

- **Train**

- **Answer:** Enables the user train for answers used via voice command.
- **Number:** Enables the user train for numbers used via voice command.

- **Best Match**

- **1 Match:** When the user tries to find a name from the address book via the Call <Name or Number> function, the most likely match will be displayed.

- **4 Matches:** When the user tries to find a name from the address book via the Call <Name or Number> function, the four most likely matched names will be displayed.

- **Speakerphone Mode**

- **Automatic On:** When this option is selected, sound is loud enough so you can hear the voice prompts without holding the phone to your ear.
- **Off:** When this option is selected, you will need to hold the phone to your ear to hear the voice prompts.

Alarm Clock (Menu 7.6.2)

The alarm function allows you to set up multiple separate alarms. You can also set the time, repetition interval and alarm sound.

Select your desired alarm setting to configure from the alarm list. If there is no alarm setting, press the left soft key [New] to add a new alarm.

- ▶ **Time:** Select the desired set time mode using the navigation key. Input your desired alarm time by specifying the hour and minute. If the time is in 12 hour clock format, you have to select either am' or pm' using the  key.
- ▶ **Repeat:** Select the desired repeat mode using the navigation key.
- ▶ **Alarm Tone:** Select the alarm sound to use for the alarm using the  key.
- ▶ **Memo:** Input alarm name.
Press the left soft key to save.

Calendar (Menu 7.6.3)

When you enter this menu a calendar will be displayed. The square cursor is used to locate a particular day. The bottom bar on the calendar indicates schedule(s) for that day. This function helps to remind you of the schedule. The phone will sound an alarm tone if it has been set for a specific schedule item.

Key	Description
up/down navigation key	Weekly
left/right navigation key	Daily
 key/  key	Annually
 key/  key	Monthly

The following [Options] are available when a Calendar event is selected from the Calendar menu.

- ▶ **Search:** Allows you to search the saved schedule(s).
- ▶ **Delete:** Allows you to delete the selected schedule.
- ▶ **Send Via:** Sends the selected schedule by Message or Bluetooth.
- ▶ **Set Holiday:** Allows you to set your personal holiday for the selected date.
- ▶ **View All:** Allows you to view all saved schedules.
- ▶ **Go to Date:** Allows you to jump to a specific date.

My Stuff

- ▶ **Delete Schedules:** Deletes the defined schedules such as Old Schedules or All Schedules.

Notepad (Menu 7.6.4)

You can create up to a maximum of 30 memos.

1. Select a memo pad you want to edit.
2. Press the left soft key [New] to create a new memo.
3. Input the memo and press the  [Save] key to save.

Calculator (Menu 7.6.5)

The calculator function allows you to add, subtract, multiply and divide. You can input numbers using the number keys, and input operators using the navigation keys: up key for "X", down key for "÷", left key for "+" and right key for "-". You can see the result by pressing the center key "=".

You can input a decimal point by pressing the  [Star] key.

Use the  key to delete numbers.

Tip Calculator (Menu 7.6.6)

This feature allows you to quickly and easily calculate the tip amount based on the total bill as well as the split of the total bill based on the number of people.

World Clock (Menu 7.6.7)

The World clock function provides time information on major cities worldwide.

1. You can select a desired city as a base using the left soft key [Map].
2. You can view the time of desired city using the right soft key [Options] - [Change City].

Tasks (Menu 7.6.8)

This feature allows you to save and manage a task.

1. To add a new To do item, select the left soft key [New] in the Task enquiry screen.
2. Input Due Date, Note, Priority and Status for the new Task.

3. Press the left soft key [Save] to save the Task item.

The following [Options] are available in the Task list.

- ▶ **Status:** Allows you to change the status of the selected task as In Progress or Completed.
- ▶ **Delete:** Deletes the selected task.
- ▶ **Send Via:** Enables the selected task to be sent via Message and Bluetooth.
- ▶ **Edit:** Allows you to edit a saved task.
- ▶ **View Calendar:** The calendar pop-up window is displayed.
- ▶ **Delete Tasks:** Deletes All Completed, All Past Tasks or All Tasks.

Stop Watch (Menu 7.6.9)

This menu allows you to record the elapsed time of an event. The duration of an individual lap time (up to 20 times) and the total time can be displayed.

▶ New Time

1. To start timing, press the  key [Start]. The running time is displayed

as HH.MM.SS.hh (hours, minutes, seconds, hundredths of a second).

2. During the timing, you can record an individual lap time by pressing the right soft key [Lap]. Up to 20 lap times can be recorded.
3. You can stop or restart timing by pressing the  key.
4. To reset the stop watch, press the left soft key [Reset].

- ▶ **Saved Times:** You can see the saved recorded times.

Unit Converter (Menu 7.6.0)

This function converts any measurement into a unit you want.

There are 6 types of units that can be converted: Area, Length, Weight, Temperature, Volume, and Velocity.

! Note

You can input a decimal by pressing the  [Star] key.

My Stuff

D-Day Counter (Menu 7.6.*)

1. To add a new D-Day Counter item, select the left soft key [New].
 2. Input the Date and notes when you add an item.
 3. Press the left soft key [Save] to save the item.
 4. Press the right soft key [Options] to access the options menu.
- ▶ **Edit:** You can edit the selected item.
 - ▶ **Delete:** You can delete the selected item.
 - ▶ **Show at Idle Screen:** You can see the Remaining days for this item (D-Day) on the Idle screen.
 - ▶ **Delete All:** Deletes all saved items.

Camera & Recordings Menu 7.7

Take Photo (Menu 7.7.1)

Using the camera module built into your phone, you can take pictures of people or events while on the move. Additionally, you can send photos to other people in a picture message.

Press the left soft key **[Gallery]** to access the gallery menu.

- ▶ **Gallery:** You can see saved images files.

The right soft key **[Options]** will bring up the following options.

- ▶ **Change to Video Mode:** Go to the video application, enables you to record a video clip.
- ▶ **Video Share:** You can make a Video Share Call. For more details, refer to 'Video Share Calling' (page 31).
- ▶ **Resolution:** Sets the image size to 1280*960(default), 640*480, 320*240 or 160*120. The selected image size appears on the capture screen.

- ▶ **Quality:** You can select the desired quality of photo by selecting either Super Fine, Fine or Normal mode by using the navigation keys.
- ▶ **Primary Storage:** You can assign the primary storage to Handset or Memory Card.
- ▶ **Multishot:** Allows you to take multishot photos successively. This feature is not available if the resolution is set to 1280*960.
- ▶ **Self Timer:** Determines the camera timer.
- ▶ **Advanced Settings**
 - **White Balance:** This adjusts the Light Effect level and you can select from the following options: Auto / Daylight / Incandescent / Cloudy / Fluorescent / Night mode.
 - **Color Effects:** Allows you to apply special effects to the picture. Press the Up/Down Navigation Keys to find the tone you want to use from the following options: Color, Sepia, Mono

and Negative.

- **Shutter Tones:** Allows you to select a sound that plays when you press the shutter. Tone 1 / Tone 2 / Tone 3 /Off

- ▶ **Default Settings:** This restores the default camera settings (Size, Brightness, Zoom, etc.).

! Note

In Take Photo mode, you can adjust the zoom scale by using the up/down navigation keys. The maximum zoom scale depends on the resolution as follows.

Resolution	Zoom scale
1280*960	Level 1
640*480	Level 1~Level 20
320*240	Level 1~Level 20
160*120	Level 1~Level 20

In Take Photo mode, you can adjust the brightness by using the left/right navigation key.

My Stuff

Record Video (Menu 7.7.2)

You can record a video clip in this menu by pressing the Camera key or Center key. Before starting to record, press the right soft key [Options] to set the following values. Select the desired value and press the  key to confirm.

- ▶ **Change to Photo Mode:** Go to the camera application which enables you to take a still picture.
- ▶ **Video Share:** You can make a Video Share Call. For more details, refer to 'Video Share Calling' (page 31).
- ▶ **Video Record Mode:** Sets the recording mode to either MMS Video Mode, Video Share Mode and General Mode.
- ▶ **Resolution:** Sets the size of video to 320*240 or 176*144(Default). The selected size appears on the capture screen.
- ▶ **Quality:** Determines the quality of a video clip.
- ▶ **Primary Storage:** You can assign the primary storage to **Handset** or **Memory Card**.

- ▶ **White Balance:** This adjusts the light effect level and you can select from the following options: Auto / Daylight / Incandescent / Cloudy / Fluorescent/ Night mode.
- ▶ **Color Effects:** Allows you to apply special effects to the video clip. Press the Up/Down Navigation Keys to find the tone you want to use from the following options: Color, Sepia, Mono and Negative.
- ▶ **Default Settings:** This restores the default camera settings (Size, Brightness, Zoom, etc.).

! Note

In Video Record mode, you can adjust the zoom scale by using the up/down navigation keys. The maximum zoom scale depends on the resolution as follows.

Resolution	Zoom scale
320*240	Level 1~Level 20
176*144	Level 1~Level 20

Resolution option is only available in General Mode under Video Record Mode.

In Record Video mode, you can adjust the brightness by using the left/right navigation keys.

Record Voice (Menu 7.7.3)

You can record an audio clip in this menu. The recorded audio file is saved automatically in the Audio & Ringtones menu (Menu 7.3).

The right soft key **[Options]** will bring up the following options.

- ▶ **Record Mode:** Sets the recording mode to either MMS or General.
- ▶ **Quality:** Determines the quality of an audio clip.
- ▶ **Primary Storage:** You can set the primary storage of the recorded audio to the Handset Memory or the Memory Card.

Other Files

Menu 7.8

When you receive files of an undefined format (such as .vcs, .vcf, etc.) via E-mail, the files are saved in this folder.

The following [Options] are available.

- ▶ **Send Via:** Sends the selected file by Email, MMS or Bluetooth.
- ▶ **Delete:** You can delete the selected file.
- ▶ **Move:** You can move the selected file.
- ▶ **Copy:** You can copy the selected file.
- ▶ **Rename:** You can edit the name of the selected file.
- ▶ **Multi Select:** You can delete(or copy, move, Send Via Message, Send Via Bluetooth) several files at once.
- ▶ **Sort By:** You can sort the folders by name, date and type.
- ▶ **Information:** You can view information about the selected file.



My Stuff

Memory Card

Menu 7.9

This function shows the status of the external microSD card memory.



Address Book

Contact List

Menu 8.1

This menu allows you to save and manage contact address information. The Contacts functions allow you to add a new address or search saved contact addresses by name.

New Contact

Menu 8.2

This menu allows you to add a new contact address. You can enter contact address information including name, phone numbers, email addresses, group information items, memos, ring tones, and image (photograph).

Select the Handset or the SmartChip memory using the left and right navigation keys.

Caller Groups

Menu 8.3

This menu allows you to manage group information. By default, there are 8 groups: Business, Colleague, Family, Friends, Other, School, Services, No Group. You can also configure a ring

tone for a group so that the group ring tone sounds when a call from a specific contact address within that group arrives and there is no ring tone configured for the specific contact address.

Speed Dial List

Menu 8.4

This menu allows you to configure the speed dial numbers. You can select a number from 2 to 9 as a speed dial. You can configure speed dial numbers for any of the 8 numbers for a specific contact address so that a contact address may have multiple speed dial numbers.

Copy All Contacts

Menu 8.5

This menu allows you to copy all of the information from your SmartChip, e.g. name, handset number, etc., to your handset. If a name is duplicated during the copying operation, the information is also duplicated.

Address Book

- ▶ **SmartChip to Handset:** You can copy the entry from the SmartChip card to the phone memory.
- ▶ **Handset to SmartChip:** You can copy the entry from the handset memory to the SmartChip card (not all the data will be copied).

Delete All Contacts Menu 8.6

You can delete all entries in the **SmartChip** and the **Handset**.

Press the  [END] key to return to standby mode.

Service Dial Numbers Menu 8.7

You can view the list of Service Dialing Numbers (SDN) assigned by your network provider. Such numbers could include the emergency, directory assistance and voice mail numbers.

1. Select the Service Dial Numbers option.
2. The names of the available services will be shown.

3. Use the up/down navigation keys to select a service. Press the  [SEND] key to call the number.

My Business Card Menu 8.8

This option allows you to make your own name card. Key in the Name, Mobile number, Home number, Work number, Fax number and E-mail address.

View Options Menu 8.9

You can select different options by which to display names in your address book: Handset & Smartchip, Handset Only or Smartchip Only.

My Numbers Menu 8.0

This displays your phone numbers stored in the SmartChip.

Settings

Audio & Ringtones

Menu 9.1

There are 4 sound modes: General, Vibrate All, Silent All and Ear Mic. General, Vibrate All, and Silent All modes can be changed from the Volume menu under Ringtone. In addition, pressing and holding the  [Star] key on idle screen mode switches between Normal mode and Vibrating mode. Ear Mic is available when respective instruments are attached.

Shop Tones (Menu 9.1.1)

Connects to AT&T Ring tone Shops.

Ringtones (Menu 9.1.2)

Shows and plays ring tones. These can be downloaded ring tones from Ring tone shops.

Volume (Menu 9.1.3)

This menu controls Ringtone, Call, Multimedia and Key Tone volume.

Message Alert Tones (Menu 9.1.4)

Allows you to select an alert tone which is played when a message is received. You can select any one from 10 message alert tones.

! Note

Full length music tracks cannot be set as ringtones.

Alert Type (Menu 9.1.5)

- ▶ **Ringtones:** Supports 3 ring alert types. Ring, Ring and Vibration, and Ring after Vibration.
- ▶ **Message Alert Tones:** Supports 6 message alert types. Ring Once, Ring Every 2 Min., Ring Every 15 Min., Ring & Vibrate, Vibrate, Silent.
- ▶ **Other Alert Tones:** You can elect to turn Other Alert Tones to Ring or Silent.

Key Tones (Menu 9.1.6)

This menu option allows you to select a tone that the phone sounds when a key is pressed. You can select an option from **Beep** and **Voice**.

Settings

Increasing Ringtone (Menu 9.1.7)

Allows you to select an Increasing Ringtone type which is played when you receive an incoming call. You can elect to turn this On or Off.

Power On/Off Tones (Menu 9.1.8)

You can elect to turn them On or Off.

Display

Menu 9.2

Shop Graphics (Menu 9.2.1)

Connects to AT&T's graphic download site.

Wallpapers (Menu 9.2.2)

You can select the background picture to be displayed in standby mode.

Backlight Timer (Menu 9.2.3)

Use this to set the duration of the backlight.

Brightness (Menu 9.2.4)

You can set the brightness of display screen.

Menu Styles (Menu 9.2.5)

You can configure the menu style to Icon style or List style.

Languages (Menu 9.2.6)

You can change the language for the display text on your phone. This change will also affect the Language Input mode.

Dialing Fonts (Menu 9.2.7)

You can configure the font size and color of the numbers which appear in the home screen when you make a call.

Clocks & Calendar (Menu 9.2.8)

This feature allows you to select the Clock or Calendar display that appears on the standby screen.

Color Schemes (Menu 9.2.9)

You can change the color of the menu, soft key area, title bar area, and cursor by changing the Color Schemes.

You can select **Black**, **White**, or **Pink**.

Bluetooth

Menu 9.3

Your phone has built-in Bluetooth wireless technology, which makes it possible for you to connect your phone wirelessly to other Bluetooth devices such as a hands-free device, PC, PDA, a remote screen, or other phones. Only one of the devices registered in your phone can be connected at a time. (To make a connection to the same type of device or change Bluetooth preferences, disconnect the existing device first.)

You can have a conversation via a cordless Bluetooth hands-free phone or browse the Internet, wirelessly connected via a mobile phone.

You can also exchange, for example, business cards, calendar items and pictures.

MobiTV or XMRadio or Music Playing is supported through Bluetooth headset.



Hands-free profile

This icon appears when the hands-free profile is used between the hands-free device and the phone. This allows you to call using a Bluetooth connection.



A2DP profile

This icon appears when the A2DP profile is used between the stereo headset device and the phone. This allows you to listen to an audio clip. A2DP is the Advanced Audio Distribution Profile, which provides support for streaming either mono or stereo audio using Bluetooth.



Hands-free + A2DP profile

This icon appears when both profiles of the hands-free and the A2DP are used between the compatible device and the phone. This allows you to call and listen to an audio clip using a Bluetooth connection.

When using each device, see the manual that comes with the device.

Settings

! Note

We recommend that your phone and the Bluetooth device you are communicating with be no more than 10 meters apart. The connection may be improved if there are no solid objects in between your phone and the other Bluetooth device.

Turn On/Off (Menu 9.3.1)

This menu sets the Bluetooth on or off.

My Visibility On/Off (Menu 9.3.2)

- ▶ Selecting the On option exposes your phone to other Bluetooth devices.
- ▶ Selecting Off shows your phone only to already paired devices.

Search New Device (Menu 9.3.3)

This function allows you to search and add new devices.

My Devices (Menu 9.3.4)

This function allows you to view the list of all devices that are paired with your phone.

1. Select the [New] key to search the device that can be connected and which is within range.

2. If you want to stop searching, press the right soft key [Cancel].

3. All of the devices found are displayed.

Select the desired device by pressing the  key, and entering the password.

My Bluetooth Info (Menu 9.3.5)

This menu allows you to configure the profile for Bluetooth.

- ▶ **My Device Name:** Allows you to change the handset's name that can be seen by other Bluetooth devices.
- ▶ **Supported Services:** Shows you all services that INVISION supports.
- ▶ **Primary Storage:** You can assign the primary storage to **Handset** or **Memory Card**.

Date & Time

Menu 9.4

Set Date (Menu 9.4.1)

This allows you to enter the day, month and year. You can change the date format via the Date Format menu option.

Date Format (Menu 9.4.2)

MM/DD/YYYY(month/day/year)

DD/MM/YYYY(day/month/year)

YYYY/MM/DD(year/month/day)

Set Time (Menu 9.4.3)

This allows you to enter the current time. You can choose the time format via the Time Format menu option.

Time Format (Menu 9.4.4)

12 Hours/24 Hours

Auto Update (Menu 9.4.5)

Select On to set the phone to automatically update the time and date according to the current local time zone.

Call**Menu 9.5****Call Forwarding** (Menu 9.5.1)

When this network service is activated, you can direct your incoming calls to another number, for example, to your voice mailbox number. For details, contact your service provider. Select one of the

divert options, for example, select **If Busy** to divert voice calls when your number is busy or when you reject incoming calls.

The following options are available:

- ▶ **All Voice Calls:** Diverts voice calls unconditionally.
- ▶ **If Busy:** Diverts voice calls when the phone is in use.
- ▶ **If No Answer:** Diverts voice calls which you do not answer.
- ▶ **If Out of Reach:** Diverts voice calls when the phone is switched off or out of coverage.
- ▶ **All Data Calls:** Diverts to a number with a PC connection unconditionally.
- ▶ **All Fax Calls:** Diverts to a number with a fax connection unconditionally.

Send My Number (Menu 9.5.2)

This network service allows you to set your phone number to be displayed **On** or hidden **Off** from the person you are calling. You can select **Set by Network** if you prefer to have different settings for different service providers.

Settings

Auto Redial (Menu 9.5.3)

Select On, your phone redials the number you're trying to call up to 10 times after you hear a quick, engaged signal. Press  [END] to stop the call attempts.

This feature attempts to redial numbers that are engaged due to the wireless network. It does not redial numbers to an engaged party.

Note

There will be no alert indicating the call has been connected.

You must stay on the line to hear when the call is connected.

Answer Mode (Menu 9.5.4)

This allows you to determine how to answer the phone.

- ▶ **Any Key:** You can answer an incoming call by pressing any key, except the  [END] key and the right soft key.
- ▶ **Send Key Only:** You can only answer an incoming call by pressing the  [SEND] key.

Minute Minder (Menu 9.5.5)

This option allows you to specify whether the phone will beep every minute during a call to keep you informed of the length of the call.

Call Waiting (Menu 9.5.6)

The network will notify you of a new incoming call while you have a call in progress. Select **Activate** to request the network to activate call waiting, **Deactivate** to request the network to deactivate call waiting, or **View Status**, to check if the function is active or not.

Call Reject (Menu 9.5.7)

This menu allows you to enable or disable call reject for all numbers or a specific number.

- ▶ **Call Reject On/Off:** This feature allows you to reject or not the incoming calls unconditionally by disconnecting. When the **Reject All Calls** option is set, all incoming calls are routed directly to Voicemail.



- ▶ **Call Reject List:** Configures conditional call reject mode. Press the left soft key [New] to add the phone number to be rejected to the list. When you add a number to the list, you can add the number by entering it directly or by searching for the number in the Contact List.

TTY (Menu 9.5.8)

Allows you to attach a TTY device enabling you to communicate with parties also using a TTY device.

A phone with TTY support is able to translate typed characters to voice. Voice can also be translated into characters and then displayed on the TTY.

TTY mode (Tele Type writer)

TTY modes are as follows :

1. TTY Full:

- Users who cannot talk or hear send and receive a text message through TTY equipment.

2. TTY Talk:

- Users who can talk but cannot hear receive a text message and send voice messages through TTY equipment.

3. TTY Hear:

- Users who can hear but cannot talk send a text message and receive voice messages through TTY equipment.

4. TTY Off:

- Send and receive without TTY equipment.

Settings

Connecting TTY Equipment and a Terminal

1. Connect a TTY cable to the TTY connection port on the terminal. (the TTY connection port is the same as a hands-free ear socket)
2. Enter the phone menu and set up the desired TTY mode. (For a TTY mode, see below.)
3. After setting a TTY mode, check the LCD screen of the phone for the TTY icon.
4. Connect the TTY equipment to the power source and turn it on.
5. Make a phone connection to the desired number.
6. When a connection is made, use the TTY equipment to type in and send a text message or send a voice message.
7. The voice or text message from the receiver end appears on the TTY equipment display.

Send DTMF Tones (Menu 9.5.9)

You can send the DTMF (dual tone multi-frequency) tones of the number on the display during a call.

This option is helpful for entering a

Menu	User	Feature	Transmission/ Receiving Mode	When making communications with a normal terminal
TTY Full	For hearing- / speech- impaired		text message transmission, text message reception	operator required
TTY+TALK	For hearing-impaired	can talk	voice transmission, text message reception	operator required
TTY+HEAR	For speech-impaired	audible	text message transmission, voice reception	operator required
TTY Off			voice transmission, voice reception	

password or account number when you call an automated system, like a banking service.

Video Share (Menu 9.5.0)

► Initial Notification

- **On:** If the Video Share Call service is available and a voice call has been made, a pop-up window will be shown on the screen to ask whether to make a Video Share Call or not.
- **Off:** No notification window is displayed after the phone determines whether or not the Video Share Call service is available.

► Auto Record

- **On:** Automatically starts recording Video Share Call images. You can view the recorded videos on [My stuff] – [Video].
- **Off:** Does not automatically start recording Video Share Call images.

► Service

- **On:** This option activates the Video Share Call service.

- **Off:** If this option is selected, the Video Share Call service will be unavailable even in a 3G service area. (If the service is Off, you will have to set it to On and restart the phone in order to reactivate the Video Share Call service).

Security

Menu 9.6

Various codes and passwords are used to protect the features and settings of your phone. They are described in the following sections.

Auto Key Lock (Menu 9.6.1)

This menu allows to set the time of Auto Key Lock.

! Note

You cannot make emergency calls under the key lock.

Settings

Lock Handset (Menu 9.6.2)

You can use a security code to avoid unauthorized use of the phone.

If you set phone lock to When Power On, the phone will request a security code whenever you switch the phone on. If you set the phone lock to When SmartChip changed, your phone will request a security code only when you change your SmartChip. If you set the phone lock to Immediately, your phone will lock immediately.

PIN Code Request (Menu 9.6.3)

When the PIN code request feature is set to On, you must enter your PIN each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note

Before setting the PIN code request feature to Off, you must enter your PIN

The following options are available:

- ▶ **On:** You must enter the PIN each time the phone is switched on.
- ▶ **Off:** The phone connects directly to the network when you switch it on.

Fixed Dial Number (Menu 9.6.4)

This allows you to restrict your outgoing calls to selected phone numbers, if this function is supported by your SmartChip. The PIN2 code is required.

▶ **FDN On/Off**

- **On:** You can only call phone numbers stored in the Address Book. You must enter your PIN2.
- **Off:** You can call any number.

- ▶ **FDN List:** You can only call phone numbers stored in the FDN list or phone number started with stored numbers.

**Note**

Not all SmartChips have a PIN2. If your SmartChip does not, this menu option is not displayed.

Change Codes (Menu 9.6.5)

The Change Codes feature allows you to change your current password to a new one. You must enter the current password before you can specify a new one.

You can change the access codes for:

Security Code, PIN1, PIN2

Note

PIN: Personal Identification Number.

Connection**Menu 9.7****Network Profiles** (Menu 9.7.1)

This menu shows the Network Profile. You can add, delete and edit Network Profiles by using the Options Menu. However, you cannot delete or edit default configurations provided by AT&T.

Internet Profiles (Menu 9.7.2)

This menu shows the Internet Profiles. You can add, delete and edit Internet Profiles by using the Options Menu. However, you cannot delete or edit default configurations provided by AT&T.

USB Connection Mode (Menu 9.7.3)

You can transfer files from a compatible PC to the memory in your phone using the Mass Storage or Music Sync. When you connect the phone to a PC using the USB cable, this will be displayed as a removable disk through Windows Explorer.

Settings

Flight Mode

Menu 9.8

This allows you to use only the phone's features that do not require the use of the wireless network when you are in an airplane or in places where the wireless network is prohibited.

If you set the flight mode on, the  icon will be displayed on the screen instead of the network signal icon.

- ▶ **On:** You cannot make (or receive) any calls, including emergency calls, or use other features that require network coverage.
- ▶ **Off:** You can deactivate the flight mode and restart your handset to access the network.

Software Update

Menu 9.9

This menu is used to resume a postponed software update. If new software exists, the AT&T server notifies devices using a WAP push message. Before updating new software after downloading it from the AT&T server, you can decide whether you would like to postpone the operation. Reminder times can be set to 30 minutes, 1 hour, and 4 hours. When the time is up, you will be prompted again or you can resume the postponed operation using this menu at any time.



Check Memory

Menu 9.0

Common (Menu 9.0.1)

This function shows the status of the user memory of the handset.

Reserved (Menu 9.0.2)

This function shows the status of the reserved memory for the user (Text Message, Contacts, Calendar, Tasks, Notepad).

SmartChip (Menu 9.0.3)

This function shows the status of the SmartChip card user memory.

Memory Card (Menu 9.0.4)

If your phone has a multimedia memory card in the card slot, you can save images, sounds, and videos on the memory card. You can check the current status of the external memory card in this menu.

Handset Information

Menu 9.*

This menu is used to view My Numbers, Manufacturer and Model Name information etc.

Reset Settings

Menu 9.#

This function allows you to restore factory settings. To do this, you need the security code.

Master Reset (Menu 9.#.1)

Restores the settings (e.g.: Audio, Display, Language, Date & Time, Bluetooth Settings) stored in the handset memory to default values.

Settings

Master Clear (Menu 9.#.2)

Deletes downloaded/user created contents (e.g.: images, videos) from Handset content and the External Memory card.

► **Handset**

- Deletes all downloaded/user created Images, Videos & Sounds from the Handset Memory.
- Restores Personal Information stored in the handset memory (e.g.: address book, messages, tasks, alarm, Calendar schedules) to default values.
- Resets the settings stored in the handset memory to default values.

► **Memory Card:** Deletes all contents from the External Memory Card.

Q&A

Please check to see if any problems you have encountered with the phone are described in this section before taking the phone in for a service or calling a service engineer.

Q How do I view the list of outgoing calls, incoming calls and missed calls?

A Press the  [SEND] key.

may be cut off even after it was established. Please try again later or attempt after relocating to other areas.

Q How do I view all numbers stored in the memory?

A Press the down navigation key.

Q Why does the LCD not turn on?

A Remove the battery and turn on the power after placing it back in. If there is no change, fully charge the battery and try again.

Q Why is the connection inconsistent or not audible in certain areas?

A When the frequency environment is unstable in a certain area, connection may be inconsistent and not audible. Relocate to another area and try again.

Q Why is there an echo when a connection is made with certain telephones in a certain area?

A This is called the 'Echo Phenomenon', which occurs if the connection volume is too high or caused by special properties (semi-electronic telephone exchange) of the equipment on the other end.

Q Why is the connection not consistent or abruptly disconnects even when established?

A When frequency is unstable or weak or if there are too many users, connection

Q&A

Q Why does the phone heat up?

A The phone may get hot when there is a very long call duration, when games are played or even when surfing the Internet for a long time. This has no effect upon the life of the product or performance.

Q Why does the battery life get shorter in standby mode?

A The battery is worn out. As time passes, the battery life gradually becomes shorter. If the battery lasts about half the amount of time as when first purchased, it's time to purchase a new battery.

Q Why does the battery run out so quickly during normal use?

A It is due to the user environment, a large number of calls or a weak signal.

Q Why is no number dialed when you recall an Address Book entry?

A Check that the number has been stored correctly by using the Address book Search feature. Re-store them, if necessary.

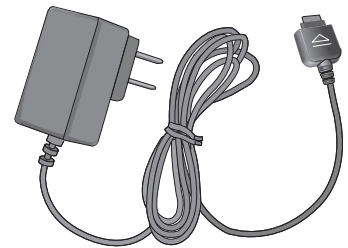
Accessories

There are a variety of accessories available for your mobile phone. You can select these options according to your personal communication requirements. Consult your local

Travel Adapter

This adapter allows you to charge the battery. It supports standard U.S. 120 Volt 60Hz outlets.

It takes under 4 hours to charge a completely discharged battery.



Battery

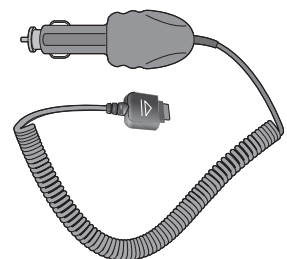
Standard battery is available.



Vehicle Power Adapter

You can operate the phone and trickle charge the phone battery from your vehicle by using the vehicle power adapter.

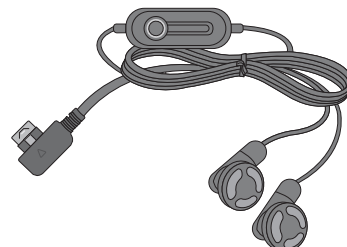
It takes 5 hours to charge a completely discharged battery.



Accessories

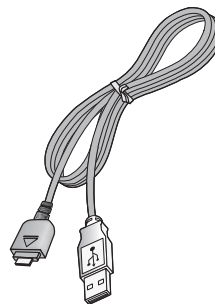
Stereo headset

Allows hands-free operation. Includes earpiece and microphone.



Data Cable Kit

* When installing, make sure to connect to the PC after your phone and the cable have been connected. Otherwise, your PC may have a problem.



! Note

- Always use genuine LG accessories. Failure to do this may invalidate your warranty.
- Accessories may be different in different regions; please check with our regional service company or agent for further enquiries.



Safety Guidelines

TIA Safety Information

Provided herein is the complete TIA Safety Information for Wireless Handheld phones. Inclusion of the text covering Pacemakers, Hearing Aids, and Other Medical Devices is required in the owner's manual for CTIA Certification. Use of the remaining TIA language is encouraged when appropriate.

Exposure to Radio Frequency Signal

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

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

ANSI C95.1 (1992) *

NCRP Report 86 (1986)

ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

* American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection

The design of your phone complies with the FCC guidelines (and those standards).

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments

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could damage the phone and may violate FCC regulations.

Phone Operation

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

Tips on Efficient Operation

For your phone to operate most efficiently:

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

Driving

Check the laws and regulations on the use of wireless phones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- ▶ Give full attention to driving - driving safely is your first responsibility;
- ▶ Use hands-free operation, if available;

- ▶ Pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

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

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6') inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- ▶ Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;

- ▶ Should not carry the phone in a breast pocket.
- ▶ Should use the ear opposite the pacemaker to minimize the potential for interference.
- ▶ If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other Medical Devices

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

Health Care Facilities

Turn 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 use equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

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Blasting Areas

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

Potentially Explosive Atmosphere

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

Areas with a potentially explosive atmosphere are often, but not always, marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders);

and any other area where you would normally be advised to turn off your vehicle engine.

For Vehicles Equipped with an Air Bag

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

Safety Information

Please read and observe the following information for safe and proper use of your phone and to prevent damage. Also, keep the user guide in an accessible place at all the times after reading it.

- ▶ Do not disassemble or open crush, bend or deform, puncture or shred.
- ▶ Do not modify or remanufacture, attempt to insert foreign objects into

the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.

- ▶ Only use the battery for the system for which it is specified.
- ▶ Only use the battery with a charging system that has been qualified with the system per IEEE-Std- 1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- ▶ Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- ▶ Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- ▶ Promptly dispose of used batteries in accordance with local regulations.
- ▶ Battery usage by children should be supervised.
- ▶ Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- ▶ Improper battery use may result in a fire, explosion or other hazard.
- ▶ The phone shall only be connected to USB products that bear.
- ▶ The USB-IF logo or have completed the USB-IF compliance program.

Charger and Adapter Safety

- ▶ The charger and adapter are intended for indoor use only.

Battery Information and Care

- ▶ Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- ▶ The battery does not need to be fully discharged before recharging.
- ▶ Use only LG-approved chargers specific to your phone model since they are designed to maximize battery life.

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- ▶ Do not disassemble or impact the battery as it may cause electric shock, short-circuit, and fire. Store the battery in a place out of reach of children.
- ▶ Keep the battery's metal contacts clean.
- ▶ Replace the battery when it no longer provides acceptable performance. The battery can be recharged several hundred times before replacement.
- ▶ Recharge the battery after long periods of non-use to maximize battery life.
- ▶ Battery life will vary due to usage patterns and environmental conditions.
- ▶ Use of extended backlighting, MEdia Net Browsing, and data connectivity kits affect battery life and talk/standby times.
- ▶ The self-protection function of the battery cuts the power of the phone when its operation is in an abnormal state. In this case, remove the battery from the phone, reinstall it, and turn the phone on.

Explosion, Shock, and Fire Hazards

- ▶ Do not put your phone in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- ▶ Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it is dirty.
- ▶ When using the power plug, ensure that it is firmly connected. If it is not, it may cause excessive heat or fire.
- ▶ If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Always cover the receptacle when not in use.
- ▶ Do not short-circuit the battery. Metallic articles such as a coin, paperclip or pen in your pocket or bag may short-circuit the + and – terminals of the battery (metal strips on the battery) upon moving. Short-circuit of

the terminal may damage the battery and cause an explosion.

General Notice

- ▶ Using a damaged battery or placing a battery in your mouth may cause serious injury.
- ▶ Do not place items containing magnetic components such as a credit card, phone card, bank book or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- ▶ Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- ▶ When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.
- ▶ Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- ▶ Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Centre to replace the damaged antenna.
- ▶ Do not immerse your phone in water. If this happens, turn it off immediately and remove the battery. If the phone does not work, take it to an LG Authorized Service Centre.
- ▶ Do not paint your phone.
- ▶ The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ring tones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- ▶ When you use the phone in public places, set the ring tone to vibration so as not to disturb others.
- ▶ Do not turn your phone on or off when putting it in your ear.

Safety Guidelines

FDA Consumer Update

The U.S. Food and Drug Administration Centre for Devices and Radiological Health Consumer Update on Mobile Phones.

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency(RF) energy in the microwave range while being used. They also emit very low levels of RF when in the standby mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some

biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is the FDA's role concerning the safety of wireless phones?

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency(RF) energy at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace, or recall the phones so that the hazard no longer exists.

Although the existing scientific data

do not justify FDA regulatory actions, the FDA has urged the wireless phone industry to take a number of steps, including the following:

- ▶ Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- ▶ Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- ▶ Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

The FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- ▶ National Institute for Occupational Safety and Health

- ▶ Environmental Protection Agency
- ▶ Occupational Safety and Health Administration
- ▶ National Telecommunications and Information Administration
- ▶ The National Institutes of Health participates in some interagency working group activities, as well.

The FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. The FCC relies on the FDA and other health agencies for safety questions about wireless phones.

The FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically

Safety Guidelines

thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term 'wireless phone' refers here to handheld wireless phones with built-in antennas, often called 'cell', 'mobile', or 'PCS' phones. These types of wireless phones can expose the user to measurable radio frequency(RF) energy because of the short distance between the phone and the user's head. These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called

'cordless phones,' which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency(RF) energy exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or

treated with cancer causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

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Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

develop a series of public information documents on EMF issues. The FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts with independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radio frequency energy exposure I can get by using my wireless phone?

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

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

8. What has the FDA done to measure the radio frequency energy coming from wireless phones?

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

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

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

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about

avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency(RF) energy. Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency(RF) energy, the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based

on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

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

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helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a 'compatible' phone and a 'compatible' hearing aid at the same time. This standard was approved by the IEEE in 2000. The FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem.

Federal Communications Commission (FCC) RF Safety Program
(<http://www.fcc.gov/oet/rfsafety>)

International Commission on Non-Ionizing Radiation Protection
(<http://www.icnirp.de>)

World Health Organization (WHO) International EMF Project
(<http://www.who.int/emf>)

National Radiological Protection Board (UK)
(<http://www.nrpb.org.uk/>)

12. Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones
(<http://www.fda.gov/cdrh/phones/index.html>)

10 Driver Safety Tips

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

When operating a car, driving is your first responsibility.

When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

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5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a “to-do” list while driving a car, you are not watching where you are going. It is common sense. Don’t get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip— dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations — with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a “Good Samaritan” in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or

other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

For more information, please call to 888-901-SAFE, or visit our website www.wow-com.com

Consumer Information on SAR (Specific Absorption Rate)

This Model Phone Meets the Government's Requirements for Exposure to Radio Waves.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to 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 standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

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The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. * Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although 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. Because the phone is designed to operate at multiple power levels to use only the power required to reach the network, in general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed

in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.34 W/kg and when worn on the body, as described in this user's manual, is 0.807 W/kg. (Body-worn measurements differ among phones models, depending upon available accessories and FCC requirements.) While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission 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 BEJCB630.

Additional information on Specific Absorption Rate (SAR) can be found on

the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>

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

Glossary

To help you understand the main technical terms and abbreviations used in this booklet and take full advantage of the features on your mobile phone, here are a few definitions.

Call Divert

Ability to reroute calls to another number.

Call Waiting

Ability to inform users that they have an incoming call when engaged on another call.

GPRS (General Packet Radio Service)

GPRS guarantees continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification.

It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a Java applet. When it is run on a mobile phone or pager, it is called a MIDlet.

Line Identification Services (Caller ID)

Service allowing subscribers to view or block the telephone numbers of callers.

Conference Calls

Ability to establish a conference call involving up to five additional parties.

Phone Password

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

Roaming

Use of your phone when you are outside your home area (when traveling for example).

SDN (Service Dial Number)

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

SmartChip

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SmartChip fits into a small slot on the back of the phone and is protected by the battery.

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received (up to 160 characters long) can be displayed, received, edited or sent.

Patent Information

This product was manufactured under one or more of the following U.S. patents: 5276765 5749067 6061647

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