

- * Depending on the software installed or your service provider or country, some of the descriptions in this guide may not match your phone exactly.
- * Depending on your country, your phone and accessories may appear different from the illustrations in this guide.

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User's Guide



Important safety precautions



Failure to comply with the following precautions may be dangerous or illegal.

Copyright information

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Drive safely at all times

Do not use a hand-held phone while driving. Park your vehicle first.

Switch off the phone when refuelling

Do not use the phone at a refuelling point (service station) or near fuels or chemicals.

Switch off in an aircraft

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

Switch off the phone near all medical equipment

Hospitals or health care facilities may be using equipment that could be sensitive to external radio frequency energy. Follow any regulations or rules in force.

Interference

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

Be aware of special regulations

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


Water resistance

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

Sensible use

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

Emergency calls

Key in the emergency number for your present location, then press .

Keep your phone away from small children

Keep the phone and all its parts, including accessories, out of the reach of small children.

Accessories and batteries

Use only Samsung-approved batteries and accessories, such as headsets and PC data cables. Use of any unauthorised accessories could damage you and your phone and may be dangerous.

- The phone could explode if the battery is replaced with an incorrect type.
- Dispose of used batteries according to the manufacturer's instructions.



At very high volumes, prolonged listening to a headset can damage your hearing.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 35.

About this Guide

This User's Guide provides you with condensed information about how to use your phone.

In this guide, the following instruction icons appear:




Indicates that you need to pay careful attention to the subsequent information regarding safety or phone features.



Indicates that you need to press the Navigation keys to scroll to the specified option and then select it.



Indicates a key on the phone.
For example, []



Indicates a soft key, whose function is displayed on the phone screen. For example, <**Menu**>



- **Camera and camcorder**

Use the camera module on your phone to take a photo or record a video.

Special features of your phone



- **MP3 player**

Play music files using your phone as an MP3 player.



- **FM radio**

Listen to your favourite radio stations anytime, anywhere.



- **Photo studio**

Add a frame or apply special effects to decorate your photos.



- **Flight mode**

Switch your phone to Flight mode to use its non-wireless functions while on an aeroplane.



- **Bluetooth**

Connect to a headset or hands-free car kit using wireless Bluetooth technology.



- **SOS message**

Send SOS messages to your family or friends for help in an emergency.



- **Memory disk**

Access an external memory card to copy files directly by connecting the phone to a PC.



- **Cricket scorer**

Keep track of the cricket score.



- **Mobile prayer**

Alert you of time to pray.

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Overview of menu functions

To access Menu mode, press <**Menu**> in Idle mode.

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Unpack

Make sure you have each item

- Phone
- Travel adapter
- Battery
- User's Guide

You can obtain various accessories from your local Samsung dealer.



The items supplied with your phone and the accessories available at your Samsung dealer may vary, depending on your country or service provider.

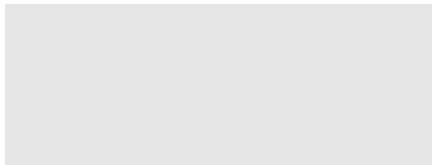
Get started

First steps to operating your phone

Assemble and charge the phone



Removing the battery cover




Phone layout


Front view

Power on or off

Switch on

1. Open the phone.
2. Press and hold [].
3. If necessary, enter the PIN and press [**OK**].

Switch off

1. Open the phone.
2. Press and hold [].

Rear view



When you close the phone, the keypad lock feature locks the exposed keys to avoid accidental key presses. To unlock the keypad, press and hold any key and then press [**OK**].

Keys and icons

Keys

Soft keys	Perform the function indicated on the bottom line of the display.
Navigation keys	In Idle mode, access your favourite menus directly. In Menu mode, scroll through menu options.
Wap key	In Idle mode, enter the TATA Zone menu. In Menu mode, select the highlighted menu option or confirm input.
Send key	Make or answer a call. In Idle mode, retrieve the numbers recently dialed, missed, or received.

C (Clear) key Delete characters from the display.
In Menu mode, return to the previous menu level.

End key Press and hold to switch the phone on or off.
End a call.
In Menu mode, cancel input and return the phone to Idle mode.

Numeric keys Enter numbers, letters, and some special characters.
In Idle mode, press and hold [**0**] to enter an international call prefix.

Special key Enter special characters or perform special functions.
In Idle mode, press and hold [**#**] to activate or deactivate the Silent mode. Press and hold [*****] to change the call ringtone.

Volume key Adjust the phone volume.

Camera key In Idle mode, enter the **Camera** menu. Press and hold to turn on the camera.
In Camera mode, take a photo or record a video.
During a call, press and hold to record your conversation.

Icons

The following icons may appear on the top line of the screen to indicate your phone's status.



Signal strength



Roaming network



Call in progress



Out of your service area or Flight mode



SOS message feature active



Transferring data in 1X network



Call restriction on



Lock mode



Bluetooth active



Bluetooth device connected

- : Mono headset
- : Stereo headset
- : Hands-free car kit
- : Phone
- : PC
- : PDA
- : Other device
















New message

- : Text or multimedia message
- : Urgent text or multimedia message
- : Voicemail
- : Web alert




Alarm set

	Ringer type <ul style="list-style-type: none"> •  : Ringer only •  : Vibration •  : Silent •  : Vibration and ringer •  : Vibration then ringer •  : Increasing
	SSR mode
	Silent mode
	Answering machine feature active
	Memory card inserted
	Battery power level
	Current time

Access menu functions

Select an option

1. Press a desired soft key.
2. Press the Navigation keys to move to the next or previous option.
3. Press [**OK**] to confirm the function displayed or option highlighted.
4. Press [**C**] to move up one level.
Press [] to return to Idle mode.

Use menu numbers

Press the number key corresponding to the option you want.

Enter text

Change the text input mode	In the text entry screen, press < Mode > and select the mode you want.
T9 English or T9 Hindi mode	<p>To enter a word:</p> <ol style="list-style-type: none">1. Press [2] to [9] to start entering a word.2. Enter the whole word before editing or deleting characters.3. When the word displays correctly, press [#] to insert a space. Otherwise, press [0] to display alternative word choices.

ABC mode or Hindi mode	<p>To enter a word:</p> <p>Press the appropriate key until the character you want appears on the display.</p>
Number mode	Press the keys corresponding to the digits you want.
Symbol mode	Press the corresponding number key to select a symbol.

Other operations

- Press and hold [**1**] to enter punctuation marks or special characters.
- Press [*****] to change case in ABC and T9 English modes.
- Press the Navigation keys to move the cursor.
- Press [**C**] to delete characters one by one.
- Press and hold [**C**] to clear the characters on the left side of the cursor.

Customise your phone

Display language

1. In Idle mode, press <**Menu**> and select **Settings** → **Language setup**.
2. Select a language.

Call ringer melody

1. In Idle mode, press <**Menu**> and select **Sounds** → **Ringtone**.
2. Select a ringtone category.
3. Select a ringtone.

Key tone volume

In Idle mode, press [**▲**/**▼**] to adjust the key tone volume.

Idle mode wallpaper

1. In Idle mode, press **<Menu>** and select **Display** → **Wallpaper** → **Stand-by** → **Background image**.
2. Select an image or video category.
3. Select an image or video.

Silent mode

You can switch the phone to Silent mode to avoid disturbing other people. In Idle mode, press and hold [**#**].

SSR mode

You can use SSR (Simple Smart Ringtone) mode. The phone will alert you to incoming calls in noisy places by simultaneously vibrating and ringing at the highest volume. In Idle mode, press and hold [**Up**].

Phone lock





1. In Idle mode, press **<Menu>** and select **Settings** → **Password/Lock settings**.
2. Enter a new 4-digit password and press [**OK**].
3. Enter the new password again and press [**OK**].
4. Select **Select lock method**.
5. Select **On**.

Step outside the phone



Begin with call functions, camera, music player, web browser, and other special features

Make or answer calls



Make a call

1. In Idle mode, enter an area code and phone number.
2. Press [].
Press [/] to adjust the volume.
3. Press [] to end the call.



Answer a call

1. When the phone rings, press [].
2. Press [] to end the call.

Make a three-way call

1. During a call, press [] and make another call.
The first call is put on hold.
2. Press [] to begin the three-way call.

Record a conversation

1. During a call, press and hold [/σ].
2. Press [**OK**] to stop recording.
3. Press [] to end the call.

Use the camera

Take a photo

1. In Idle mode, press and hold [📷/📹] to turn on the camera.
2. Aim the lens at the subject and make any desired adjustments.
3. Press [OK] or [📷/📹] to take a photo.
4. Press <Save>.

View a photo

1. In Idle mode, press [📷/📹] and select **My album** → **gallery**.
2. Select the photo you want.

Record a video

1. In Idle mode, press and hold [📷/📹] to turn on the camera.
2. Press [1] and select **Video cam**.
3. Press <📹> or [📷/📹] to start recording.
4. Press <📷> or [📷/📹] to stop recording.
5. Press <Save>.

View a video

1. In Idle mode, press [📷/📹] and select **My album** → **gallery**.
2. Select the video you want.

Play music

Prepare music files

Use these methods:

- Download from the wireless web.
- Receive via Bluetooth.
- Copy to a memory card. See the next section.

Copy music files to a memory card

1. Insert a memory card into the phone.
2. Connect your phone and PC with an optional PC data cable.
3. In Idle mode, press <**Menu**> and select **Multimedia** → **Connect to PC**.

4. Enter the password and press [**OK**].
5. Select **Open folder to view files** when a pop-up window appears on your PC.
6. Copy files from the PC to the memory card.
7. When you have finished, press [**OK**] and then [**OK**] to disconnect the phone from the PC.

Create a playlist

1. In Idle mode, press <**Menu**> and select **Multimedia** → **MP3** → **MP3 files**.
2. Select the folder you want.

3. Press **<Options>** and select **Add to play list**.
4. Press **[OK]** to select files and press **<Add>**.
5. Press **[OK]** to begin playback.

Play music files

1. In Idle mode, press **<Menu>** and select **Multimedia** → **MP3** → **MP3 player**.
2. Press **[OK]**.
3. During playback, use the following keys:
 - **OK**: pause or resume playback.

- **Left**: return to the previous file. Press and hold to scan backward in a file.
- **Right**: skip to the next file. Press and hold to scan forward in a file.
- **Up**: change the repeat mode.
- **Down**: open the playlist.
- **A-B**: set a section in a file to play the section repeatedly.
- **▲/▼**: adjust the volume.

Listen to the FM radio

Listen to the radio

1. Plug the connector of the supplied headset into the headset jack on the phone.
2. In Idle mode, press **<Menu>** and select **Multimedia** → **FM radio**.
3. Press **[OK]** to start automatic tuning.
Available radio stations are automatically saved.
4. Press **[Left]** or **[Right]** to find available radio stations.
Alternatively, press **[Up]** or **[Down]** to select a radio station.
5. Press **<OFF>** to turn off the radio.

Store radio stations

1. From the radio screen, press **<Options>** and select **Save channel**.
2. Press **[Left]** or **[Right]** to select the station you want.
3. Press **[Down]** and then **<Edit>**.
4. Enter the title of the station and press **[OK]**.
5. Press **[OK]** to save the station.

Browse the web

Launch the web browser

In Idle mode, press <**Menu**> and select **do mOre** → **Mobile browser**. The homepage of your service provider opens.

Navigate the web

- To scroll through browser items, press [Up] or [Down].
- To select an item, press <✓> or [OK].
- To return to the previous page, press [C].
- To return to the homepage, press and hold [C].
- To access browser options, press <**Menu**> and select **Menu**.

Use Contacts

Add a contact

1. In Idle mode, enter a phone number and press [OK].
2. Select **New entry**.
3. Enter a name and press [OK].
4. To add a contact to the phone's memory, press [Left] or [Right] and select a number type.
5. Specify contact information.
6. Press [OK] to save the contact.

Find a contact

1. In Idle mode, press **<Search>**.
2. Enter the first few letters of the name you want.
3. Select a contact.
4. Scroll to a number and press [**↩**] to dial, or press [**OK**] to edit contact information.

Send messages

Send a text message

1. In Idle mode, press **<Menu>** and select **Messages** → **Text message** → **New message**.
2. Enter the message text and press [**OK**].
3. Press [**OK**] again.
4. Enter a destination number and press [**OK**].
5. Press [**OK**] to send the message.

Send a multimedia message

1. In Idle mode, press <**Menu**> and select **Messages** → **Multimedia message** → **New message**.
2. Enter the message subject and press [**OK**].
3. Press [Down] to move to the text field in the slide.
4. Enter the message text and press [**OK**].
5. Press [Down] to move to the picture or video field.
6. Press <**Options**> and add an image or video.
7. Press [Down] to move to the sound field.

8. Press <**Options**> and add a sound.
9. Press [**OK**].
10. Enter a destination number or email address and press [**OK**].
11. Press [**OK**] to send the message.

View messages

View a text message

1. In Idle mode, press <**Menu**> and select **Messages** → **Text message** → **Inbox**.
2. Select a message.

View a multimedia message

1. In Idle mode, press <Menu> and select **Messages** → **Multimedia message** → **Inbox**.
2. Select a message.

Use Bluetooth

Your phone is equipped with Bluetooth technology, enabling you to connect the phone wirelessly to other Bluetooth devices and talk hands-free.

Turn on Bluetooth

- In Idle mode, press <Menu> and select **Multimedia** → **Bluetooth** → **Bluetooth on/off** → **On**.

Search for and pair with a Bluetooth device

1. In Idle mode, press <Menu> and select **Multimedia** → **Bluetooth** → **Search new devices**.
2. Select the device type.
3. Scroll to a device and press <Connect>.
4. Enter a Bluetooth PIN or the other device's Bluetooth PIN, if it has one, and press [OK].

Send data

1. In Idle mode, press <Menu> and select **Multimedia** → **Bluetooth** → **Data transfer** → an item category.
2. Select the item you want.

3. Scroll to a device and press **<Connect>**.
 4. If necessary, enter the Bluetooth PIN and press **[OK]**.
-

Receive data

1. When a device attempts to access your phone, enter the Bluetooth PIN and press **[OK]** to permit the connection.
2. If necessary, press **<Yes>** to confirm that you are willing to receive.

Menu functions

All menu options listed

This section provides brief explanations of menu functions on your phone.

do mOre

Menu	Description
TATA Zone	Download and use various Brew applications.
Mobile browser	Connect your phone to the network and load the homepage of the wireless web service provider.
VOD files	Download video or audio clips from the wireless web and play them.

Menu	Description
Info-UTK	Use a variety of additional services offered by your service provider. This menu is available only when you use a UTK UIM card that provides additional services.

Display

Menu	Description
Wallpaper	Set up the idle screen and select an image to be displayed for incoming or outgoing calls, and when the phone is switched on or off.

Menu	Description
Main menu style	Select the menu display style.
Font color	Select a font colour for Menu mode.
Dial number style	Customise the settings for the display while dialling.
Backlight → Screen backlighting duration	Select the length of time the backlight stays on when the phone is not used.
Backlight → Screen brightness	Adjust the brightness of the display for varying lighting conditions.
Backlight → Power saving mode	Set how the phone controls the use of the keypad light.

Sounds

Menu	Description
Ringtone	Select a ringtone and ringer type for incoming calls.
Alert tones	Set up audible alerts at a specified time to inform you that certain things have happened.
Key tones/ others	Select the tone that the phone sounds when you press a key or set additional alert tones.
Volume	Adjust the volume for the various sounds on the phone.

Menu	Description
Hourly chime	Set the phone to sound an alert every hour on the hour.
Cricket alert	Set the phone to alert you of the state of the current cricket game.
Tone length	Set short or long DTMF (Dual-tone multi-frequency) tones to be sent to access teleservices, such as a bank accounts.

Messages

Menu	Description
Text message, Multimedia message → New message	Create and send text or multimedia messages.
Text message, Multimedia message → Inbox, Outbox, Draft messages, Draft	Access messages that you have received, sent, saved to send at a later time, or that have failed during sending.
Multimedia message → Alertbox	Access MMS notifications that you have received from the MMS server.

Menu functions

Menu	Description
Text message, Multimedia message → Send settings, Settings	Set up various options for using the messaging services.
Text message → SMS groups	Create groups to which you most frequently send text messages.
SPAM settings	Block unwanted messages by setting up the SPAM message filters.
SOS message	Specify options for sending and receiving an SOS message. You can send an SOS message by pressing [▲/▼] 4 times when the phone is closed and the exposed keys are locked.

Menu	Description
Memory status	Check information about the memory currently in use.

Multimedia

Menu	Description
Camera → Capture	Take photos or record videos.
Camera → My album	Access the list of photos and videos in the phone's memory.
Camera → External album	Access the list of photos and videos on a memory card.

Menu	Description
Camera → Photo studio	Edit photos by applying special effects and adding decorative frames.
Camera → Photo print	Print a photo by connecting the phone to a printer via Bluetooth.
MP3	Listen to music. You can also make your own music playlist.
FM radio	Listen to music or news via the FM radio on your phone.
Bluetooth	Connect the phone wirelessly to other Bluetooth devices.
Game	Play games.

Menu	Description
Cricket scorer	Set the phone to let you know the cricket score. To use this service, you need to register your number first. You may be additionally charged for using the service.
Voice functions	Use the answering machine feature or record voice memos.
Connect to PC	Access a memory card from your PC. This menu is only available when you insert a memory card into the phone.

Contacts

Menu	Description
Search	Search for contact information stored in Contacts.
Add	Add a new contact to Contacts.
Groups	Organise your contacts in caller groups.
Speed dial	Assign a speed dial number for your most frequently dialled numbers.
Business card	Create a name card and send it to other people.

Menu	Description
Call log	Check the time record for calls made and received.
My number	View and change your phone number.

Utilities

Menu	Description
Wake-up call/ Alarms	Set a wake-up call to wake you up in the morning or an alarm to alert you to an event at a specific time.
Calendar → Calendar	Keep track of your schedule.

Menu	Description
Calendar → Panchang	View the Panchang, ancient Vedic astrology, for a specific date.
Mobile prayer	Set the phone to alert you of time for prayer.
Memo	Make memos for things that are important and manage them.
Calculator	Perform arithmetic functions.
Unit converter	Do conversions, such as length and temperature.
World clock	Find out the current time in another part of the world.
Stopwatch	Measure elapsed time.

Contents box

Menu	Description
Melodies	Access melodies and MP3 files you have downloaded from the wireless web.
Images	Access images you have downloaded from the wireless web.
Photo album	Access photos you have taken and video clips you have recorded.
VOD files	Access video or audio files you have downloaded.
Memory info	Check information about the memory currently in use. You can also clear the memory.

Settings

Menu	Description
Call settings → Receive/End settings	Select how to answer an incoming call, or how to end a call.
Call settings → Call reject	Make a list of phone numbers from which you do not want to accept calls.
Call settings → International call prefix	Set international call service numbers.
Call settings → Flight mode	Switch to Flight mode and change the time setting.
Call settings → Call forwarding	Set the phone to reroute incoming calls to a phone number that you specify.

Menu	Description
Call settings → Call waiting	Set the phone to inform you when someone is calling you while on another call.
Call settings → Area code	Find and retrieve area and country codes to quickly and easily dial phone numbers.
Application Settings → Camera settings	Change the default settings for the options when you use the camera application.
Application Settings → Message settings	Customise the settings of various options for receiving or sending messages.

Menu	Description
Application Settings → Bluetooth Settings	Change the default settings for the options when using the Bluetooth feature.
Shortcut settings → Shortcuts	Use the Navigation keys as shortcuts to access specific menus directly from Idle mode.
Shortcut settings → My menu	Set up a menu of your own using your favorite menu items.
Password/Lock Settings → Change password	Change your phone password.

Menu	Description
Password/Lock Settings → Select lock method	Lock your phone.
Password/Lock Settings → Call Lock	Restrict all outgoing and incoming calls.
Password/Lock Settings → Outgoing international restriction	Restrict outgoing international calls.
Password/Lock Settings → Emergency number	Store three emergency numbers or edit them. You can dial these numbers, even if your phone is locked or all outgoing calls are restricted.

Menu functions

Menu	Description
Password/Lock Settings → Voice privacy	Use an encrypted high security line so that people cannot eavesdrop on your conversation, or use a standard line.
Password/Lock Settings → Card settings	Access the security options for the UIM card.
Password/Lock Settings → Mobile tracker	Set the phone to send the preset tracking message to your family or friends when someone tries to use your phone with another UIM card. This feature may be unavailable due to certain features supported by your service provider.

Menu	Description
Language setup	Select a language for the display text.
Domains preset	Change default domain name extensions and add new domain name extensions, if necessary.
Reset	Reset the phone's settings you have changed.
Version	Access your phone's information.

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government.

These FCC exposure limits are derived from the recommendations of two expert organizations, the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the

scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the

phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

When approval test is done, no Samsung supplied accessories are available but maybe available later after approval.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

The highest SAR values for this model phone as reported to the FCC are:

CDMA

- **Head: 0.912 W/Kg.**
- **Bodyworn: 0.967 W/Kg.**

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body.

Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. This site uses the phone FCC ID number, A3LSCHF679. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on

the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF)

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

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 energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as

it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

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

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

on possible effects of wireless phone use on human health.

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

- "National Institute for Occupational Safety and Health
- "Environmental Protection Agency
- "Federal Communications Commission
- "Occupational Safety and Health Administration
- "National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal

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

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

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 energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in 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 phones 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.

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 ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

FDA is working with the U.S. National Toxicology Program and with groups of

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

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

organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency 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 energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

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

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

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 energy (RF),

the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

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

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless

phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

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

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

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

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>

- Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>
- National institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/emfpg.html>
- World health Organization (WHO):
<http://www.who.int/peh-emf/>
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>
- National Radiation Protection Board (UK):
<http://www.nrpb.org.uk>
- Updated 4/3/2002: US food and Drug Administration
<http://www.fda.gov/cellphones>

Road Safety

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

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, 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. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. 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, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary.

If you need to make a call while moving, 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. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. 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 number.

“The wireless industry reminds you to use your phone safely when driving.”

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com
Provided by the Cellular Telecommunications & Internet Association

Operating Environment

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

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

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

Using Your Phone Near Other Electronic Devices

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

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker.

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

Persons with pacemakers:

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

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

Hearing Aids

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

Other Medical Devices

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

facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

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

Posted Facilities

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

Potentially Explosive Environments

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

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

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

Emergency Calls

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

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

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other

official emergency number). Emergency numbers vary by location.

3. Press .

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

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

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and,

- if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Battery march Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Changes or modifications made in the radio phone, not expressly approved by Samsung, will void the user's authority to operate the equipment.

Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the

phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Other Important Safety Information

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

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/ Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all

features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.

- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

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

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

- dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
 - Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
 - When the phone or battery gets wet, the label indicating water damage inside the phone changes color. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
 - If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
 - Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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U.S Patent No. 4,901,307 5,056,109
5,099,204 5,101,501
5,103,459 5,107,225
5,109,390