

## 9. User Manual

Some of the contents in this manual may differ from your device depending on the software of the device or your service provider.

**SAMSUNG ELECTRONICS**



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user manual

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## Using this guide

This user's guide has been specially designed to guide you through the functions and features of your device.



For any topics not covered in this guide, please refer to the Help embedded in the Windows Mobile® 6 Professional operating system.

## Instructional icons

Before you start, familiarise yourself with the icons you will see in this guide:



WARNING

*Warning*—situations that could cause injury to yourself or others



CAUTION

*Caution*—situations that could cause damage to your device or other equipment



*Note*—notes, usage tips, or additional information



*Refer to*—pages with related information; for example:  
► p. 12 (represents "see page 12")



*Followed by*—the order of options or menus you must select to perform a step; for example: Tap **Start** → **Programs** → **Camera** (represents **Start**, followed by **Programs**, followed by **Camera**)



*Square brackets*—device keys; for example: [Ⓜ] (represents the Power key)

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## **Safety and usage information**

Comply with the following precautions to avoid dangerous or illegal situations and ensure peak performance of your device.



### **Safety warnings**

#### **Keep your device away from small children and pets**

Keep your device and all accessories out of the reach of small children or animals. Small parts may cause choking or serious injury if swallowed.

#### **Protect your hearing**



Listening to a headset at high volumes can damage your hearing. Use only the minimum volume setting necessary to hear your conversation or music.

#### **Install mobile devices and equipment with caution**

Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted. Avoid placing your device and accessories near or in an air bag deployment area. Improperly installed wireless equipment can cause serious injury when air bags inflate rapidly.

#### **Handle and dispose of batteries and chargers with care**

- Use only Samsung-approved batteries and chargers specifically designed for your device. Incompatible batteries and chargers can cause serious injuries or damage to your device.
- Never dispose of batteries in a fire. Follow all local regulations when disposing of used batteries.
- Never place batteries or devices on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when overheated.



- Never crush or puncture the battery. Avoid exposing the battery to high external pressure, which can lead to an internal short circuit and overheating.

### **Avoid interference with pacemakers**

Maintain a minimum of 15 cm (6 inches) between mobile devices and pacemakers to avoid potential interference, as recommended by manufacturers and the independent research group, Wireless Technology Research. If you have any reason to suspect that your device is interfering with a pacemaker or other medical device, turn off the device immediately and contact the manufacturer of the pacemaker or medical device for guidance.

### **Turn off the device in potentially explosive environments**

Do not use your device at refuelling points (service stations) or near fuels or chemicals. Turn off your device whenever directed by warning signs or instructions. Your device could cause explosions or fire in and around fuel or chemical storage and transfer areas or blasting areas. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories.

### **Reduce the risk of repetitive motion injuries**

When sending text messages or playing games on your device, hold the device with a relaxed grip, press the keys lightly, use special features that reduce the number of keys you have to press (such as templates and predictive text), and take frequent breaks.



## Safety precautions

### Drive safely at all times

Avoid using your device while driving and obey all regulations that restrict the use of mobile devices while driving. Use hands-free accessories to increase your safety when possible.

### Follow all safety warnings and regulations

Comply with any regulations that restrict the use of a mobile device in a certain area.

### Use only Samsung-approved accessories

Using incompatible accessories may damage your device or cause injury.

### Turn off the device near medical equipment

Your device can interfere with medical equipment in hospitals or health care facilities. Follow all regulations, posted warnings, and directions from medical personnel.

### Turn off the device or disable the wireless functions when in an aircraft

Your device can cause interference with aircraft equipment. Follow all airline regulations and turn off your device or switch to a mode that disables the wireless functions when directed by airline personnel.

### Protect batteries and chargers from damage

- Avoid exposing batteries to very cold or very hot temperatures (below 0° C/32° F or above 45° C/113° F). Extreme temperatures can reduce the charging capacity and life of your batteries.

- Prevent batteries from contacting metal objects, as this can create a connection between the + and - terminals of your batteries and lead to temporary or permanent battery damage.
- Never use a damaged charger or battery.

### **Handle your device carefully and sensibly**

- Do not allow your device to get wet—liquids can cause serious damage. Do not handle your device with wet hands. Water damage to your device can void your manufacturer's warranty.
- Avoid using or storing your device in dusty, dirty areas to prevent damage to moving parts.
- Your device is a complex electronic device—protect it from impacts and rough handling to avoid serious damage.
- Do not paint your device, as paint can clog moving parts and prevent proper operation.

- Avoid using the device's camera flash or light close to the eyes of children or animals.
- Your device and memory cards may be damaged by exposure to magnetic fields. Do not use carrying cases or accessories with magnetic closures or allow your device to come in contact with magnetic fields for extended periods of time.

### **Avoid interference with other electronic devices**

Your device emits radio frequency (RF) signals that may interfere with unshielded or improperly shielded electronic equipment, such as pacemakers, hearing aids, medical devices, and other electronic devices in homes or vehicles. Consult the manufacturers of your electronic devices to solve any interference problems you experience.



## Important usage information

### Use your device in the normal position

Avoid contact with your device's internal antenna.

### Allow only qualified personnel to service your device

Allowing unqualified personnel to service your device may result in damage to your device and will void your warranty.

### Ensure maximum battery and charger life

- Avoid charging batteries for more than a week, as overcharging may shorten battery life.
- Over time, unused batteries will discharge and must be recharged before use.

- Disconnect chargers from power sources when not in use.
- Use batteries only for their intended purpose.

### Handle SIM cards and memory cards with care

- Do not remove a card while the device is transferring or accessing information, as this could result in loss of data and/or damage to the card or device.
- Protect cards from strong shocks, static electricity, and electrical noise from other devices.
- Frequent writing and erasing will shorten the life span of memory cards.
- Do not touch gold-coloured contacts or terminals with your fingers or metal objects. If dirty, wipe the card with a soft cloth.

## **Ensure access to emergency services**





Emergency calls from your device may not be possible in some areas or circumstances. Before travelling in remote or undeveloped areas, plan an alternate method of contacting emergency services personnel.

# Enter text

With your device's touch screen, you can type or write text and create drawings in notes, documents, and messages.


## Change the text input method

When you tap a text field, your device will show an input panel at the bottom of the screen. You can tap the arrow next to the input panel icon and choose one of the following input methods for entering text:

- Onscreen keyboard ()
- Letter recognizer ()
- Block recognizer ()
- Transcriber ()

You can tap the input panel icon at any time to show or hide the input panel.

## Change the default text input method

1. From any text field, tap the arrow next to the input panel icon.
2. Tap **Options...**
3. From the **Input Method** tab, choose an input method.
4. Tap .



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You can also set options for some input methods.

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## Enter text with the onscreen keyboard

1. Tap the input panel icon.
2. Tap the arrow next to the input panel icon and select **Keyboard**.

3. Tap characters to enter your text.  
To switch to numbers and symbols, tap **123**. To access special characters, tap **áü**.

## Enter text with Letter Recognizer

Use the stylus to write individual letters and numbers on the touch screen.

### Make a call from the contact list

1. Tap the input panel icon.
2. Tap the arrow next to the input panel icon and select **Letter Recognizer**.
3. Write each character in the writing area at the bottom of the screen:
  - Write upper-case letters in the **ABC** column on the left side of the writing area.
  - Write lower-case letters in the **abc** column in the middle of the writing area.

- Write numbers and symbols in the **123** column on the right side of the writing area.

To view demonstrations of how to write characters, tap **?**.

## Enter text with Block Recognizer

Use the stylus to write individual letters and numbers in text in the Palm Grafitti style.

### Make a call from the contact list

1. Tap the input panel icon.
2. Tap the arrow next to the input panel icon and select **Block Recognizer**.
3. Write each character in the writing area at the bottom of the screen:
  - Write letters on the left side of the writing area.

## Enter text

- Write numbers on the right of the writing area.



Drag the stylus upward to change case (**ABC**, **Abc**, or **abc**). Tap once on the screen to enter symbols (**123** or **abc** will change to **●**).

To view demonstrations of how to write characters, tap **?**.

## ■ Enter text with Transcriber

With Transcriber, you can write anywhere on the screen. Unlike Letter Recognizer or Block Recognizer, you can use cursive (joined-up) handwriting to write complete words.

1. Tap the input panel icon.
2. Tap the arrow next to the input panel icon and select **Transcriber**.
3. Write legibly anywhere on the screen.
4. Pause and allow Transcriber to convert your writing to text.

You can access the following tools from the Transcriber toolbar:

Tap	To
	Change Transcriber options
	View demonstrations of how to write characters
	Open the list of punctuation marks, symbols, and numbers
<b>a</b>	Change the input mode to <b>A</b> , <b>a</b> , or <b>123</b>
<b>spc</b>	Insert a space
	Start a new line
	Move the cursor to the left
	Move the cursor to the right
	Clear your input
	Open the Help application





## Create a sketch

With Notes, you can create and capture sketches.

1. From the Today screen, tap **Start** → **Programs** → **Notes**.
2. Tap **New**.
3. Make a stroke that crosses at least three ruled lines to start a drawing frame.  
Sketches that do not cross three ruled lines will be treated as writing.
4. Continue your sketch with strokes.

To edit a sketch, tap **Menu** → **Draw**.

Tap and hold the stylus pen on the sketch until the selection handles appear. You can then tap and hold the handles to drag or resize the sketch or tap **Menu** to access other options.

# Communication

Your device allows you to send and receive many types of calls and messages over cellular networks and the wireless web.

## Calls

Learn to use your device's call functions. For basic call functions, see the Quick Start Guide.

### Call an international number

1. Press and hold **[0]** to insert the + character (this replaces the international access code).
2. Press the number keys to enter the complete number you want to dial (country code, area code, and phone number), and then tap **Talk** or press **[↵]** to dial.
3. To end the call, tap **End** or press **[↵]**.

### Make a call from the contact list

1. From the Today screen, tap **Start** → **Contacts** to open your contact list.
2. Scroll to a contact and tap the contact's name.



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To search for a contact, tap the Enter a name... field and enter a few letters of the contact's name.


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3. Tap the number you want to dial.
4. To end the call, tap **End** or press **[↵]**.


### Make a call from Call History

1. Press **[↵]**.
2. Scroll to a contact and tap the contact's name.
3. Tap the number you want to dial.
4. To end the call, tap **End** or press **[↵]**.

## Forward calls

1. From the Today screen, tap **Start** → **Settings** → **Phone**.
2. From the **Services** tab, tap **Call Forwarding** → **Get Settings...**
3. Tap a forwarding option and enter a phone number.
4. Tap .

## Bar (block) calls

1. From the Today screen, tap **Start** → **Settings** → **Phone**.
2. From the **Services** tab, tap **Call Barring** → **Get Settings...**
3. Tap the type of calls you want to bar.
4. Tap .






## Messaging

Learn to use messaging functions. For instructions on entering text, see "Enter text." ► p. 10

### Send a text message

1. From the Today screen, tap **Start** → **Messaging** → **SMS/MMS**.
2. Tap **Menu** → **New** → **SMS**.
3. Enter a destination number or tap **Menu** → **Add Recipient...** to select a contact.
4. Tap the stylus in the message body.
5. Enter your message text.
6. Tap **Send** to send the message.

## Send a multimedia message

1. From the Today screen, tap **Start** → **Messaging** → **SMS/MMS**.
2. Tap **Menu** → **New** → **MMS**.
3. Enter a destination number or tap **Menu** → **Add Recipients** to select a contact.
4. Tap the Subject field and enter a message subject.
5. Tap the stylus in the message body.
6. Enter your message text.
7. Tap an attachment icon to add a file to the message:
  - : attach a picture
  - : attach a music file
  - : attach a video
  - : capture and attach a photo
  - : record and attach a voice memo
8. Tap **Send** to send the message.

## Send an email message

1. From the Today screen, tap **Start** → **Messaging**.
2. Tap the name of an email account.
3. Tap **Menu** → **New**.
4. Enter the recipient's address in the To field or tap **Menu** → **Add Recipient...** to select a contact.



The Cc and Bcc fields are located above the from field.

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5. Tap the subject field and enter a message subject.
6. Tap the stylus in the message body.
7. Enter your message text.
8. To add an attachment, tap **Menu** → **Insert** → an attachment type.
9. Tap **Send** to send the message.

## Retrieve email from a web server

Before you retrieve email messages from an internet service provider or VPN connection, you must create an email account.

To retrieve messages from your Outlook account, see "Synchronise your data."

► p. 40

1. From the Today screen, tap **Start** → **Messaging**.
2. Tap the name of an email account.
3. Tap **Menu** → **Send/Receive**.

## View messages

You can access message folders for all your messaging accounts (email, SMS, and MMS) in one location.

To view messages,

1. From the Today screen, tap **Start** ' **Messaging**.
2. Tap **SMS/MMS** or the name of an email account.

The Inbox for the account you selected will open.



While viewing message folders, you can switch message folders or accounts by using the drop-down menu at the top left of the screen.

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Learn to use the Camera, Media Album, Photo Slides, Touch Player, and FM Radio. To learn about your device's other media functions, refer to the Windows Mobile Help.


## Camera

Your device allows you to take digital photos (jpg format) or record videos (3gp format).



You cannot launch Mini Player while using the Camera.

### Capture a photo





1. Press and hold [Camera].
2. Rotate the device counter-clockwise to landscape orientation.
3. Aim the lens at the subject and make any adjustments (see "Adjust Camera settings").
  - Scroll right or left to adjust the brightness.
  - Scroll up or down to zoom.
4. Tap , or press the trackpad or [Camera] to capture the image.
5. Tap **Save** to save the photo and return to the viewfinder.

### View a photo


1. From the viewfinder, tap **View**.
2. Tap ◀ or ▶ to view the previous or next photo.



## Adjust Camera settings

From the viewfinder, tap the screen to show the following icons. Tap an icon, and then tap a setting.




Icon	Function
	Mode (switch to camcorder)
	Shot mode
	Picture size
	Timer
<b>AWB</b>	White balance

## Record video

1. Press and hold [Camera].
2. Rotate the device counter-clockwise to landscape orientation.
3. Tap  → **Camcorder** to launch the camcorder.

4. Aim the lens at the subject and make any adjustments (see "Adjust Camcorder settings").
  - Scroll right or left to adjust the brightness.
  - Scroll up or down to zoom.
5. Tap , or press the trackpad or [Camera] to begin recording.
6. When you have finished, tap , or press the trackpad or [Camera] to stop recording.
7. Tap **Save** to save the video and return to the viewfinder.

## Play a video

1. From the viewfinder, tap **View**.
2. Tap  or  to view the previous or next video.
3. Tap  to play the video.

## Adjust Camcorder settings

From the viewfinder, tap the screen to show the following icons. Tap an icon, and then tap a setting.

Icon	Function
	Mode (switch to camera)
	Video size
	Timer
<b>AWB</b>	White balance
	Audio







## Media Album

With Media Album, you can view and access all the files and folders on your device.

### View a photo

1. From the Today screen, tap **Start** → **Programs** → **Media Album**.
2. Tap the drop-down menu in the top left of the screen and select **My Device**.
3. In the list of folders, tap **My Documents** → **My Pictures**.
4. Tap a photo name or thumbnail to open it.

While viewing photos, you can perform the following functions:

- To scroll through your photos, tap  or .
- To zoom, tap **Zoom** and then tap  or . To return to full screen, tap . To exit the zoom screen, tap .



- To edit the picture, tap **Menu** → **Edit Image**.
- To set a photo as a background or caller ID image, tap **Menu** → **Set as** → an option.
- To send a photo, tap **Menu** → **Send** → a sending option.
- To print the photo to a Bluetooth printer, tap **Menu** → **Print via Bluetooth**.
- To view your photos as a slideshow, tap **Menu** → **Play Slide Show**.

## Play a video

1. From the Today screen, tap **Start** → **Programs** → **Media Album**.
2. Tap the drop-down menu in the top left of the screen and select **My Device**.
3. In the list of folders, tap **My Documents** → **My Videos**.
4. Tap a video name or thumbnail to open it.

## Open documents

1. From the Today screen, tap **Start** → **Programs** → **Media Album**.
2. Locate and open the folder where the document is stored.
3. Tap the document name or thumbnail to open it.

## Send a file

1. From the Today screen, tap **Start** → **Programs** → **Media Album**.
2. Locate and open the folder where the file is stored.
3. Tap **Menu** → **Send** → an option to send the file.
  - To send as a multimedia message, select **as Message** ► p. 16
  - To send via the Bluetooth wireless feature, select **via Bluetooth** ► p. 38

## Photo Slides

Photo Slides allows you to create photo albums, edit photos, and view slideshows with background music.

### Create a photo album

1. From the Today screen, tap **Start** → **Programs** → **Photo Slides**.
2. Tap **Menu** → **Create album**.
3. Enter an album name, set the creation date, and tap **OK**.
4. Locate a photo in another album or folder and tap **Menu** → **Edit** → **Copy**.
5. Tap the name of your new album or folder and then tap **Menu** → **Edit** → **Paste**.



### Edit photos







1. From the Today screen, tap **Start** → **Programs** → **Photo Slides**.

2. Tap a thumbnail twice to open the photo.
3. Tap **Menu** → an editing option (**Rotate Left**, **Rotate Right**, **Crop**, **Effect**).
4. Crop the photo or select an effect option (if necessary).
5. To save your changes, tap **ok**.

### View slideshows with background music

1. From the Today screen, tap **Start** → **Programs** → **Photo Slides** → a photo album.
2. Tap **Menu** → **Slide show**.
3. During a slideshow, tap the screen to display the following controls:

Icon	Function
	Pause
	Play

Icon	Function
	Stop
	Skip to the next photo
	Skip to the previous photo
	Rotate the photo
	Change the background music
	Quit the slideshow

You can adjust the volume by dragging your finger up or down on the trackpad, if the trackpad function is set to **4-way Navigation** (from the Today screen, tap **Start** → **Settings** → the **System** tab → **Finger Mouse**).

## Touch Player

With Touch Player, you can play music and video files on the device's memory.






### Update the library

1. From the Today screen, tap **Start** → **Programs** → **Touch Player**.
2. Tap **Menu** → **Update**.
3. Tap **Search** to update the library.
4. When updating the library is finished, tap **Done**.

### Play music or video files

1. From the Today screen, tap **Start** → **Programs** → **Touch Player**.
2. Tap the arrow next to the **All Music** and select the library you want.
3. Tap a file.

4. During playback, use the following controls:

Icon	Function
	Pause
	Play
	Skip to the previous file
	Skip to the next file
	Return to the file list

## Create a playlist

1. From the Today screen, tap **Start** → **Programs** → **Touch Player**.
2. Tap **Menu** → **New Play list**.
3. ??

## FM Radio

You can listen to your favourite stations with the FM radio.

### Listen to the FM radio

1. Plug a headset into the multifunction jack.
2. From the Today screen, tap **Start** → **Programs** → **FM Radio**.
3. Scroll left or right to scan through available radio stations.
4. To adjust the volume level, press the Volume key.  
To switch sound output to the loudspeaker, tap **Menu** → **Speaker on**.

## Set up your favourite radio station list

Once you have set up a station list, you can access the stations by scrolling left or right from the radio screen.

## Save radio stations by automatic tuning

1. From the radio screen, tap **Channels** to access the station list.
2. Tap **Menu** → **Self-tuning** (this will replace any existing stations).
3. When you are finished, press **Done**.

## Save a radio station manually

1. From the radio screen, scroll to the radio station you want.
2. Tap **Menu** → **Add to Presets**.
3. Enter a description of the station and tap **Done**.  
The station is saved as a preset station.

## Select a station

1. From the radio screen, tap **Manual**, **All**, or **Preset**.
2. Scroll left or right to scan through available radio stations.

## Personal productivity

Learn to use Contacts, Calendar, Office Mobile, Notes, Tasks, and Alarms.



### Contacts

Learn to use contact cards and groups to store personal information, such as names, phone numbers, and addresses.

#### Create a new Outlook contact

1. From the Today screen, tap **Start** → **Contacts** → **New** → **Outlook Contact**.
2. Enter contact information.
3. When you are finished entering information, tap **ok** to save the contact card.

#### Create a new SIM contact

1. From the Today screen, tap **Start** → **Contacts** → **New** → **SIM Contact**.
2. Enter contact information.
3. When you are finished entering information, tap **ok** to save the contact card.

#### Search for a contact card

1. From the Today screen, tap **Start** → **Contacts**.
2. Tap the Enter a name... field and enter a few letters of the contact's name.  
As you enter letters, the screen will show contacts that match your input.
3. Tap a contact to open it.

## Copy or move contact cards

You can copy your contact cards from your device to your SIM card and vice versa. When you copy an Outlook contact to your SIM card, you can only store the contact's name and phone number. To retain all the contact information, synchronise your Outlook contacts with a PC (see "Synchronise your data." ► p. 40).


To copy an Outlook contact to your SIM card,

1. From the Today screen, tap **Start** → **Contacts**.
2. Tap a contact to open it.
3. Tap **Menu** → **Save to SIM**.

To copy a SIM contact to your device,

1. From the Today screen, tap **Start** → **Contacts**.
2. Tap a contact to open it.
3. Tap **Menu** → **Save to Contacts**.

## Assign a speed dial number to a contact card

1. From the Today screen, tap **Start** → **Contacts**.
2. Tap a contact to open it.
3. Tap **Menu** → **Add to Speed Dial...**
4. Tap the up or down arrows next to the Location field to set a speed dial number.
5. When you are finished, tap .

## Assign an image or ringtone to a contact card

1. From the Today screen, tap **Start** → **Contacts**.
2. Tap a contact to open it.
3. Tap **Menu** → **Edit**.
4. To assign an image, tap the Picture field, select an image.

5. To assign a ringtone, tap the Ring tone field and select a ringtone.
6. When you are finished, tap **ok**.

## Calendar

Use the calendar to keep track of appointments, birthdays, or other events.

### Create a calendar event

1. From the Today screen, tap **Start** → **Calendar**.
2. Tap **Menu** → **New Appointment**.
3. Complete the fields and adjust the settings for your event.
4. When you are finished, tap **ok**.

### Change the calendar view

1. From the Today screen, tap **Start** → **Calendar**.
2. Tap **Menu** → **View** → a view type.


## Stop an event alarm

When the alarm sounds for a calendar event you set previously, tap **Dismiss**.


## Office Mobile

With Office Mobile, you can create and edit Excel workbooks, Word documents, and OneNote notes or open and view PowerPoint slideshows. Your device supports files created with Office 97 and newer versions.


### Create and edit an Excel workbook

1. From the Today screen, tap **Start** → **Office Mobile** → **Excel Mobile**.
2. Tap a cell to select it.
3. Enter values or text with the input panel, and then tap .
4. Repeat steps 2-3 as necessary.





5. To format cells, tap **Menu** → **Edit**, **Insert**, **Format**, or **Tools**.
  6. To save the workbook, tap .
- For more details, refer to the online help.

## Create and edit a Word document

1. From the Today screen, tap **Start** → **Office Mobile** → **Word Mobile**.
  2. Tap **New** to create a new document (if necessary).
  3. Create your document with the input panel.
  4. To change the font or paragraph format, tap **Menu** → **Format** → **Font...** or **Paragraph...**
  5. To save the document, tap .
- For more details, refer to the online help.

## Open and view a PowerPoint slideshow

1. From the Today screen, tap **Start** → **Office Mobile** → **PowerPoint Mobile**.
  2. Tap the drop-down menu in the top left of the PowerPoint screen to locate a PowerPoint file.
  3. Tap the file name to launch the slideshow.
  4. To advance the slides, tap the screen.
  5. To go back to the previous slide, tap  → **Previous**.
  6. To end the slideshow, tap  → **End Show**.
- For more details, refer to the online help.

## Create and edit a note

1. From the Today screen, tap **Start** → **Office Mobile** → **OneNote Mobile**.
2. Tap **New** to create a new note.

3. Create your note with the input panel.
4. To change the format, tap **Menu** → **Format** → a type.
5. To add pictures or voice memos, tap **Menu** → **Take Picture**, **Insert Picture**, or **Insert Recording**.
6. To save the note, tap **Done**.

For more details, refer to the online help.

## Notes

Use Notes to create memos, sketches, and recordings.

### Create a note

1. From the Today screen, tap **Start** → **Programs** → **Notes**.
2. Tap **New**.

3. Create your note.

To create sketches, see "Create a sketch." ► p. 13

4. When you are finished, tap .

### Send a note

1. From the Today screen, tap **Start** → **Programs** → **Notes**.
2. Tap and hold the name of a note you want to send.
3. Tap an option to send the file:
  - To send as a multimedia message, select **Send...** ► p. 16
  - To send via the Bluetooth wireless feature, select **Beam File...** ► p. 38

## Tasks

With Tasks, you can create to-do lists and reminders.

### Create a task

1. From the Today screen, tap **Start** → **Programs** → **Tasks**.
2. Tap **Menu** → **New Task**.
3. Enter details for the task.



To set a reminder for the task, tap the Due field and set a due date. Tap the Reminder field, select **Remind me**, and then specify the time and date of the reminder.

4. When you are finished, tap .

## Mark a task as completed

When you have completed a task, return to the Tasks screen (tap **Start** → **Programs** → **Tasks**) and tap the check box next to the task name. Once you have marked a task completed, you will no longer receive any scheduled reminders for that task.

## Alarms

Learn to set and control alarms for important events.

### Set a wake-up alarm

1. From the Today screen, tap **Start** → **Programs** → **Alarms** → **Wake-up alarm**.
2. Set the wake-up alarm options.



To set a melody for the alarm, tap the Tone field. To select a time interval to resume the alarm, tap the Snooze field.

3. When you are finished, tap **Done**.

## Set an alarm

1. From the Today screen, tap **Start** → **Programs** → **Alarms**.
2. On the alarm list, select one of **Alarm 1** to **Alarm 4**.  
To add alarms, tap **Menu** → **Add alarm**.
3. Set each alarm option.
4. When you are finished, tap **Done**.

## Stop an alarm

When an alarm sounds, tap **Ok**. When a wake-up alarm sounds, tap **Dismiss** to stop it or **Snooze** to stop it with snooze.

Learn to use Windows Live, Messenger, RSS Reader, Google Launcher, and Google Maps. For information about connecting to the internet and working with Internet Explorer and Opera Browser, refer to the Help on your device and the online help.

## Windows Live

With Windows Live, you can stay in touch with friends and access information on the wireless web quickly.

1. From the Today screen, tap **Start** → **Programs** → **Windows Live**.
2. Tap **Sign in to Windows Live** → **Accept**.
3. Enter your login ID and password and tap **Next**.
4. Follow the onscreen instructions.

## Messenger

With Messenger, you can remain available to other users and stay up-to-date with your email without a constant connection to the wireless web. When a new message arrives or you want to access internet services, the connection will be restored.

### Set up messenger and sign in

1. Sign in to Windows Live (see the previous section).
2. Scroll left or right to select your login status and tap **Next**.
3. Follow the onscreen instructions to complete the setup.

## Chat with messenger

1. From the Today screen, tap **Start** → **Programs** → **Messenger**.
2. Locate and tap a contact's name, and then tap **Send IM**.
3. Enter a message in the text field at the bottom of the screen, and then tap **Send**.
4. While chatting, you can perform the following actions:
  - Insert emoticons: tap **Menu** → **Add emoticon**
  - Invite a contact to chat: tap **Menu** → **Options** → **Add participant**
  - Transfer a file: tap **Menu** → **Send** → a file type → a file
  - Record and send a voice clip: select **Voice clip**, record your voice clip, and then tap **Send**
  - Switch between contact list and chat: scroll left or right
5. To end the chat, tap **Menu** → **End conversation**.

## RSS Reader

Learn to use RSS reader to get the latest news and information from your favourite websites.

To do this, you need to create the connection first.

### Create feeds

1. From the Today screen, tap **Start** → **Programs** → **RSS Reader**.
2. Tap **Menu** → **New Subscription** → **Enter URL**.
3. Enter a web address to subscribe to web feeds and tap **Add**.

### Read latest contents

1. From the Today screen, tap **Start** → **Programs** → **RSS Reader**.
2. Select a feed and tap **Update** to get the latest contents.
3. Select an updated post.

## Google Launcher

With Google Launcher, you can use various Google services, such as the search engine, G-Mail, Calendar, Google Maps, and Youtube.



From the Today screen, tap **Start** → **Programs** → **Google Launcher**.

## Google Maps

With Google Maps, you can search the online maps for streets, cities, or countries. Google Maps also provides you with the road guides to specified destinations or allows you to view local business information, including locations and contact information.

### Search maps

1. From the Today screen, tap **Start** → **Programs** → **Google Maps**.

2. Tap **Accept** when the Terms and Condition screen appears to load the online map.
3. Scroll through the map.
  - Zoom in: tap 
  - Zoom out: tap 
  - Check the current location: tap **Menu** → **My Location**
  - Change the view mode: tap **Menu** → **Satellite View**
  - Check the real-time traffic conditions: tap **Menu** → **Show Traffic**
  - Connect to an external GPS receiver: tap **Menu** → **Use GPS**

### Search for a specific location

1. From the Today screen, tap **Start** → **Programs** → **Google Maps** → **Search**.
2. Enter the address or the category of the business you want search for and tap **OK**.

3. Tap the balloon to view more results.
4. Tap **Options** to check the direction to the business or make a call to the business.
5. Tap **OK** to return to the map.
6. To clear the information on the map, tap **Menu** → **Clear Map**.

## Get directions to a specific destination

1. From the Today screen, tap **Start** → **Programs** → **Google Maps** → **Menu** → **Directions...**
2. Enter the addresses of the starting location and the ending location.
3. Tap **OK**.
4. Check the driving time and the driving directions to the destination.
5. Tap **Show** to view on the map.

6. To clear the information on the map, tap **Menu** → **Clear Map**.

## Resetting Google Maps

1. From the Today screen, tap **Start** → **Programs** → **Google Maps** → **Menu** → **Options** → **Reset Google Maps**.
2. Tap **Reset**.




Learn to transfer data to and from your device via the Bluetooth wireless feature and synchronise your device to a PC with ActiveSync. For details on connecting to the wireless web or a virtual private network (VPN), refer to the Windows Mobile Help on your device.

## Bluetooth

You can connect with other Bluetooth-enabled wireless devices over a distance of 10 metres (30 feet). Walls or other obstacles between devices may block or impair the wireless connection.

### Turn on the Bluetooth wireless feature

1. From the Today screen, tap **Start** → **Settings**.
2. From the **Connections** tab, tap **Bluetooth**.
3. From the **Mode** tab, tap the check box next to **Turn on Bluetooth**.
4. To allow other devices to find and connect to your device, tap the check box next to **Make this device visible to other devices**.
5. Tap .

### Search for and pair with a Bluetooth-enabled device

1. From the Today screen, tap **Start** → **Settings**.
2. From the **Connections** tab, tap **Bluetooth**.
3. From the **Devices** tab, tap **Add new device...**  
Your device will search for and display the list of Bluetooth-enabled devices.

4. Tap a device name and tap **Next**.
5. Enter the 1- to 16-digit Bluetooth PIN for the device you are trying to connect to and tap **Next**.



To pair with another Bluetooth-enabled device, both devices must use the same passcode. Headsets or hands-free car kits may use a fixed passcode, such as **0000**.

6. Change the display name for the other device and select the services you want (if necessary).
7. Tap **Finish**.

### Send data via the Bluetooth wireless feature

1. Locate an item or file to send.
2. Tap **Menu** → **Send Contact** or **File** → **Beam**, or tap **Menu** → **Beam File...**, **Beam Task...**, or **Beam Appointment**.
3. Tap a device from the list.

### Receive data via the Bluetooth wireless feature

1. From the Today screen, tap **Start** → **Settings**.
2. From the **Connections** tab, tap **Beam**.
3. Tap the check box next to **Receive all incoming beams**.
4. When prompted to allow incoming data, tap **Yes**.

### Set up a Bluetooth COM port

When you have many files to send, you can establish a Bluetooth COM port.

1. From the Today screen, tap **Start** → **Settings**.
2. From the **Connections** tab, tap **Bluetooth**.
3. From the **COM Ports** tab, tap **New Outgoing Port**.
4. For outgoing ports, tap the name of a device, and then tap **Next**.

5. Select a COM port.
6. Tap the check box next to **Secure Connection** to create a secure connection between the devices.
7. Tap **Finish**.
6. Change the display name of the server (if necessary).
7. Tap **Finish**.

## Connect to an FTP server

You can connect your device to a file server, which can be a mobile device or PC, and exchange files with the server.

1. From the Today screen, tap **Start** → **Programs** → **Bluetooth FTP**.
2. Tap **Yes**.  
Tap **Menu** → **Search FTP Servers** (if necessary).  
Your device will search for and display the list of Bluetooth-enabled devices.
3. Tap an FTP server, and then tap **OK**.
4. Tap **Yes**.
5. Enter the Bluetooth PIN for the server, and then tap **Next**.

## ActiveSync

With ActiveSync, you can synchronise your device with a PC and back up and restore your data.

## Install ActiveSync on your PC

Before you can synchronise your data, you must install ActiveSync, either from the supplied CD-ROM or the Microsoft website (<http://www.microsoft.com>).

To install ActiveSync from the supplied CD-ROM,

1. Insert the CD-ROM into your PC.
2. Follow the onscreen instructions to complete the setup.

3. When installation is complete, follow the onscreen instructions in the Synchronisation Setup Wizard to connect your device to the PC and create a data sharing partnership.

### Connect your device to a PC with the PC data cable

1. From the Today screen, tap **Start** → **Settings**.
2. From the **Connections** tab, tap **USB to PC**.
3. Connect one end of the PC data cable to the multifunction jack on your device and the other end to the USB port on your PC.



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You can also connect the device to a PC via the Bluetooth wireless feature. See "Search for and pair with a Bluetooth-enabled device." ► p. 37

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### Synchronise your data

When you connect your device to a PC, ActiveSync should begin synchronising your data automatically. You can begin the synchronisation manually by tapping **Sync**. To stop a synchronisation in progress, tap **Stop**.

You can also manually find and copy files from your device to a PC and vice versa—from the Microsoft ActiveSync window, tap **Explore**.

For more details on synchronising your data, refer to the ActiveSync Help.

### Add an Exchange server

1. From the Today screen, tap **Start** → **Programs** → **ActiveSync**.
2. Tap **Menu** → **Add Server Source...**
3. Enter a server address.
4. Tap **Next**.

5. Enter your Exchange user name, password, and domain name.
6. Tap **Next**.
7. Select the types of data to synchronise.
8. When you are finished, tap **Finish**.

## Change the synchronisation schedule

If you routinely synchronise your data via an Exchange server, you can configure settings for both peak and off-peak schedules.

To change the synchronisation schedules,

1. From the Today screen, tap **Start** → **Programs** → **ActiveSync**.
2. Tap **Menu** → **Schedule...**

3. Set the following options:
  - **Peak times**: set the frequency of synchronisations during peak hours
  - **Off-peak times**: set the frequency of synchronisations during off-peak hours
  - **Use above settings when roaming**: set to use the synchronisation schedules even when roaming
  - **Send/receive when I click Send**: set to synchronise when you click **Send** in Messaging
4. When you are finished, tap **ok**.

## Additional programs

Learn to use Games, Java, Calculator, Smart Converter, Task Manager, Search, Launcher, and File Explorer.

### Games

Play fun games, such as Bubble Breaker and Solitaire. You can also download and play new Java games.

From the Today screen, tap **Start** → **Programs** → **Games**.

### Java

Java is a folder where downloaded games and applications are stored.

From the Today screen, tap **Start** → **Programs** → **Java**.

### Calculator

1. From the Today screen, tap **Start** → **Programs** → **Calculator**.
2. Enter the first number using the calculator buttons on the screen.  
To clear the displayed numbers, tap **C**.  
To clear the last digit entered in a multi digit entry, tap the arrow at the right of the entry box.
3. Tap the math function.
4. Enter the second number.
5. To view the result, tap =.

You can use the following buttons on the screen:

- **C**: clears the number you entered.
- **MC**: clears any value that is stored in the calculator's memory.

- **MR**: recalls the stored value from memory and inserts it into the current calculation.
- **M+**: adds the current number to the calculator's memory.

## Smart Converter

1. From the Today screen, tap **Start** → **Programs** → **Smart Converter**.
2. Select the type of measurement.
3. Change the base unit in the from field (if necessary).
4. Enter the base amount.
5. Change the conversion unit in the to field (if necessary).  
The device displays the conversion result.

## Task Manager

Your device is a multi-tasking device. It can run more than one program at the same time. However, multi-tasking may cause hang-ups, freezing, memory problems, or additional power consumption. To avoid these problems, end unnecessary programs using **Task Manager**.

1. From the Today screen, tap **Start** → **Programs** → **Task Manager**.  
The list of all the programs currently running on your device appears.
2. To activate a program, tap the program you want and tap **Menu** → **Switch To**.  
To close a program, tap **End Task**. To close all programs, tap **Menu** → **End All Tasks**.

## Search your device

1. From the Today screen, tap **Start** → **Programs** → **Search**.
2. Enter part of a file or folder name in the search for field.



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You can restrict your search by selecting a data type from the type drop-down list.

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3. Tap **Search**.

To open an item in the Results list, tap the item's name.

## Launcher

1. Press []. You can also tap **Start** → **Programs** → **Launcher**.
2. Select an application.

## File Explorer

With File Explorer, you can browse all the files and folders on your device. From the Today screen, tap **Start** → **Programs** → **File Explorer**.

To move to a higher-level folder, tap **Up**. Tap **Menu** to rename, delete, or edit your files and folders.



## Troubleshooting

If you have trouble with your device, try these procedures before you contact a service professional.

**When you try to turn on your device, the following messages may appear:**

Message	Try this to solve the problem:
The SIM card is missing.	Ensure that the SIM card is installed correctly.
Enter PIN.	When using the device for the first time or when the PIN requirement feature is enabled, you must enter the PIN supplied with the SIM card. To disable the PIN requirement feature, tap <b>Start</b> → <b>Settings</b> → <b>Personal</b> tab → <b>Phone</b> → <b>Security</b> tab, and then clear the <b>Require PIN when phone is used</b> check box.

Message	Try this to solve the problem:
SIM card blocked.	Your SIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.

**Your device does not show a signal (no bars next to the network icon)**

- If you just turned on the device, wait about 2 minutes for your device to find the network and receive a signal.
- You may not be able to receive a signal in tunnels or elevators. Move to an open area.
- You may be between service areas. You should receive a signal when you enter a service area.


### **You forgot a security code, PIN, or PUK**

If you forget or lose this or another code, contact the seller or your service provider.

### **Your display shows white lines**

The display may show white lines if you have turned the device on after a long period of disuse or if you removed the battery without first turning off the device. The display should correct itself in a short time.

### **You enter a number, but the call is not dialled**

- Ensure that you have pressed [].
- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number.

### **You select a contact to call, but the call is not dialled**

- Ensure that the correct number is stored in the contact information.
- Re-enter and save the number (if necessary).

### **Another caller cannot hear you speaking**

- Ensure that you are not blocking the built-in microphone.
- Move the built-in microphone closer to your mouth.
- If using a headset, ensure that it is properly connected.

### **The sound quality of a call is poor**

- Ensure that you are not blocking the internal antenna on top of the device.
- When you are in areas with weak signals, you may lose reception. Move to another area and try again.

**The battery does not charge properly or sometimes your device turns itself off while charging**

- Disconnect the device from the charger, remove and reinstall the battery, and try charging again.
- The battery terminals may be dirty. Wipe both gold-coloured contacts with a clean and soft cloth and try charging the battery again.
- If the battery no longer charges completely, dispose of the old battery properly and replace it with a new battery.

**Your device is hot to the touch**

When you use several applications at once, your device requires more power and may heat up. This is normal and should not affect your device's lifespan or performance.

**Your device cannot connect to the internet**

- Ensure that you have entered valid settings for your internet service provider.
- Ensure that you have activated the wireless connection to your mobile service provider and that the signal is not obstructed.
- Ensure that you have entered the correct user name and password.

**You cannot find a Bluetooth-enabled device**

- Ensure that both devices have activated the Bluetooth wireless feature.
- Ensure that the distance between the devices is not more than 10 metres and that they are not separated by walls or other obstacles.
- Ensure that the settings for each device allow them to be visible to other devices.

- Ensure that both devices are compatible with Bluetooth wireless technology.
- Ensure that the correct PIN has been entered on both devices.

### **You cannot listen to music on a remote Bluetooth headset**

- Ensure that your device is connected to the headset.
- Ensure that the music format you are trying to listen to is supported by the headset.
- Ensure that the distance between the headset and device is not more than 10 metres and that they are not separated by walls or other obstacles.

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The software on this device includes software licensed by Company from Microsoft Corporation or its affiliate.

The terms also apply to any

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

**As described below, using some features also operates as your consent to the transmission of certain standard computer information for Internet-based services.**

**By using the software, including use on this device, you accept these terms. If you do not accept them, do not use the device or software. Instead, contact Company to determine its return policy for a refund or credit.**

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Microsoft provides Internet-based services with the software. Microsoft may change or cancel them at any time.

##### a. **Consent for Internet-Based**

**Services.** The software features described below connect to Microsoft or service provider computer systems over the Internet. In some cases, you will not receive a separate notice when they connect. You may switch off some of these features or not use them. For more information about these features, visit <http://go.microsoft.com/fwlink/?LinkId=81931>.

**By using these features, you consent to the transmission of this information.** Microsoft does not use the information to identify or contact you.

**Device Information.** The following features use Internet protocols, which send to the appropriate systems device information, such as your Internet protocol address, the type of operating

system, browser and name and version of the software you are using, and the language code of the device where you installed the software. Microsoft uses this information to make the Internet-based services available to you.

- ***Windows Mobile Update Feature.*** The Windows Mobile Update feature provides you the ability to obtain and install software updates on your device if updates are available. You may choose not to use this feature. Company and/or your Mobile Operator may not support this feature or an update for your device.
- ***Windows Media Digital Rights Management.*** Content owners use Windows Media digital rights management technology (WMDRM) to protect their intellectual property, including copyrights. This software and third party software use WMDRM to play and copy WMDRM-protected content.



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**b. Misuse of Internet-based**

**Services.** You may not use these services in any way that could harm them or impair anyone else's use of them. You may not use the services to try to gain unauthorized access to any service, data, account or network by any means.

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If you have questions about the MPEG-4 visual standard, please contact MPEG LA, L.L.C., 250 Steele Street, Suite 300, Denver, CO 80206; [www.mpegla.com](http://www.mpegla.com).

6. **DIGITAL CERTIFICATES.** The software uses digital certificates in X.509 format. These digital certificates are used for authentication.
7. **CONNECTIVITY SOFTWARE.** Your device package may include Windows Mobile Device Center or Microsoft ActiveSync software. If it is included, then you may install and use it in accordance with the license terms that are provided with it. If no license terms are provided, then you may install and use only one (1) copy of the software on a single computer.
8. **NETWORK ACCESS.** If you are using a network, such as an employer network, the network administrator may limit features or functionality on your device.
9. **PRODUCT SUPPORT.** Contact Company for support options. Refer to the support number provided with the device.
10. **LINKS TO THIRD PARTY WEBSITES.** If the software provides links to third party websites, those links are provided to you only as a convenience, and the inclusion of any link does not imply an endorsement of the third party website by Microsoft.
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**It also applies even if Microsoft should have been aware of the possibility of the damages. The above limitation may not apply to you because your country may not allow the exclusion or limitation of incidental, consequential or other damages.**

- 18. EXPORT RESTRICTIONS.** The software is subject to United States export laws and regulations. You must comply with all domestic and international export laws and regulations that apply to the software. These laws include restrictions on destinations, end users and end use. For additional information, see [www.microsoft.com/exporting](http://www.microsoft.com/exporting).

## *Health and safety 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.

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:

GSM850 Head: 0.334 W/Kg, Body: 0.597 W/Kg

GSM1900 Head: 0.391 W/Kg, Body: 0.528 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](http://www.fcc.gov/oet/fccid). [This site uses the phone FCC ID number, A3LSGHI900.](#)

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](http://www.fcc.gov/cgb/sar).

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### **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**

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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](http://www.wow.com)

Provided by the Cellular Telecommunications & Internet Association

**Operating Environment**

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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**

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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**

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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

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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

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### 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 Batterymarch 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**

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- 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**

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### **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.

### **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**

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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**

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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**

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- 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

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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.



# Declaration of Conformity (R&TTE)

We,

Samsung Electronics

declare under our sole responsibility that the product

GSM Mobile Phone : SGH

to which this declaration relates, is in conformity with the following standards documents.

SAFETY	EN 60950-1 : 2001 +A11:2004
	EN 301 489-01 V1.5.1 (11-2004)
	EN 301 489-01 V1.6.1 (09-2005)
EMC	EN 301 489-07 V1.2.1 (08-2002)
	EN 301 489-17 V1.2.1 (08-2002)
	EN 301 489-24 V1.2.1 (11-2002)
RADIO	EN 301 511 V9.0.2 (03-2003)
	EN 300 328 V1.6.1 (11-2004)
	EN 301 908-1 V2.2.1 (10-2003)
	EN 301 908-2 V3.2.1 (06-2006)

We hereby declare that [all essential radio test suites have been carried out and that] the above named product is in conformity to all the essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred to in Article 10 and detailed in Annex[IV] of Directive 1999/5/EC has been followed with the involvement of the following Notified Body(ies):

BABT, Balfour House, Churchfield Road,  
Walton-on-Thames, Surrey, KT12 2TD, UK\*

Identification mark: 0168

The technical documentation kept at :

Samsung Electronics QA Lab.

which will be made available upon request.  
(Representative in the EU)

Samsung Electronics Euro QA Lab.  
Blackbushe Business Park, Saxony Way,  
Yateley, Hampshire, GU46 6GG, UK\*

2007.11.02

(place and date of issue)

Yong-Sang Park / S. Manager

(name and signature of authorised person)



✱ It is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your product.

Position Only

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ther normative