

GIORGIO ARMANI

SAMSUNG

GIORGIO ARMANI

User's Guide

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- Pícel and Pícel Viewer™ are trademarks of Pícel Technologies, Inc.
- Windows Media Player® is a registered trademark of Microsoft Corporation.



Important safety precautions

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

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 your 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 or 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 44.

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 tap or scroll to the specified option to select it.



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

Special features of your phone



- **Touch screen**

Your phone has a touch-sensitive display. You can access a desired function with a touch on the screen.



- **Camera and camcorder**

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



- **Synchronisation with Windows Media Player**

Transfer music files to your phone directly from the Windows Media Player.



- **Music player**

Play music files using your phone as a music player. You can use other phone functions while listening to music.



- **Image editor**

Edit or decorate your photos.



- **Photo printing**

Print your photos to preserve your best moments forever.



- **Offline mode**

Switch your phone to Offline mode to use its non-wireless functions while on an airplane.



- **Bluetooth**

Transfer media files and personal data, and connect to other devices using wireless Bluetooth technology.



- **File viewer**

Open documents in various formats on the phone without corruption.



- **Email**

Send and receive emails with image, video, and audio attachments.



- **SOS message**

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

Contents

Unpack 8

Make sure you have each item

Get started 9

First steps to operating your phone

Assemble and charge the phone	9
Power on or off	10
Phone layout.....	10
Keys	11
Display.....	12
Access menu functions	15
Enter text.....	15
Customise your phone.....	16
Use a memory card	18
Use a leather case	20

Step outside the phone 21

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


Make or answer calls.....	21
Use the camera	22
Play music	24
Browse the web.....	27
Use Phonebook	27
Send messages	28
View messages	30
Use Bluetooth	31

Menu functions 33

All menu options listed

Health and safety information 44

Overview of menu functions

To access Menu mode, tap  in Idle mode.

1 Call log

- 1 Recent contacts
- 2 Missed calls
- 3 Dialed calls
- 4 Received calls
- 5 Sent messages
- 6 Received messages
- 7 Delete all
- 8 Call manager

2 Phonebook

- 1 Contact list
- 2 Create contact
- 3 Group
- 4 Speed dial
- 5 My namecard
- 6 Own numbers
- 7 Management
- 8 Service number¹

3 Music player

4 Browser

- 1 Home
- 2 Enter URL
- 3 Bookmarks
- 4 Saved pages
- 5 History
- 6 Browser settings

5 Messages

- 1 Create message
- 2 My messages
- 3 Templates
- 4 Delete all
- 5 Settings
- 6 SOS Messages
- 7 Memory status

6 My files

- 1 Images
- 2 Videos
- 3 Music
- 4 Sounds
- 5 Other files
- 6 Memory card²
- 7 Memory status

7 Calendar

8 Camera

9 Bluetooth

10 Applications

- 1 Voice recorder
- 2 Image editor
- 3 Image stamp
- 4 Games
- 5 World clock
- 6 Calculator
- 7 Convertor
- 8 Timer
- 9 Stopwatch
- 10 Memo
- 11 SIM application toolkit¹

11 Alarms

12 Settings

- 1 Time and date
- 2 Phone settings
- 3 Display settings
- 4 Sound settings
- 5 Light settings
- 6 Network services
- 7 Security
- 8 Connection settings
- 9 Memory status
- 10 Reset settings

1. Available only if supported by your SIM card.

2. Available only if supported by your service provider.

Unpack

Make sure you have each item

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

You can obtain various accessories from your local Samsung dealer.

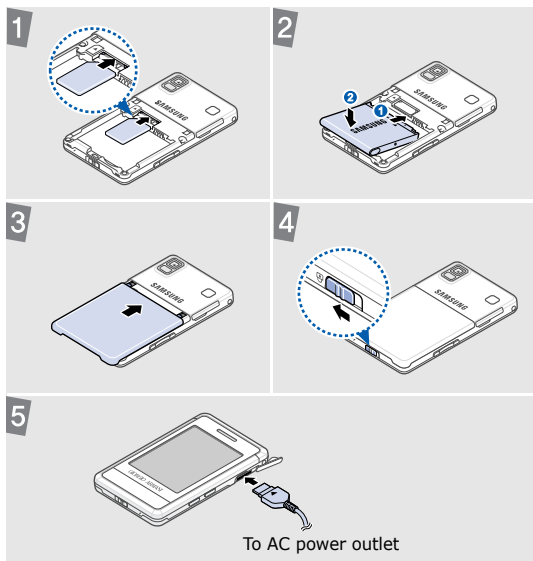


The items supplied with your phone and the accessories available at your Samsung dealer may vary, depending on your country or service provider.

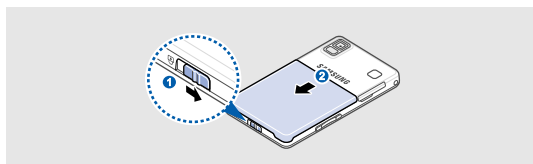
Get started

First steps to operating your phone



Assemble and charge the phone



Removing the battery cover



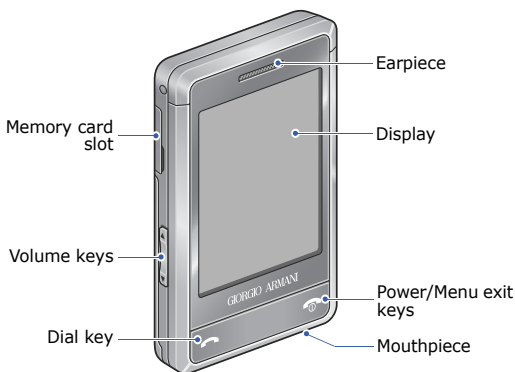
Power on or off

Switch on	<ol style="list-style-type: none">1. Press and hold [].2. If necessary, enter the PIN and tap OK.
Switch off	Press and hold [].

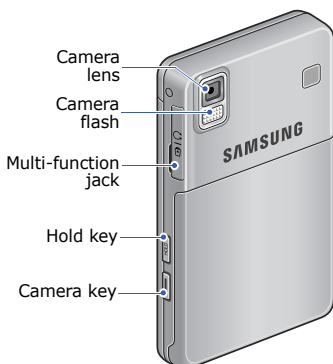
- ☒ When you turn on the phone for the first time, you can play tutorials how to call, play music and create a text message.

Phone layout

Front view



Rear view



- ☒ You can lock the display and keys to prevent any unwanted phone operations. To lock or unlock them, press and hold **[HOLD]**.

Keys



Make or answer a call.

In Idle mode, retrieve the numbers recently dialed, missed, or received.



End a call.

Delete characters from the display.

In Menu mode, cancel input and return the phone to Idle mode.



Adjust the phone volume.



Press and hold to lock or unlock the display and keys.



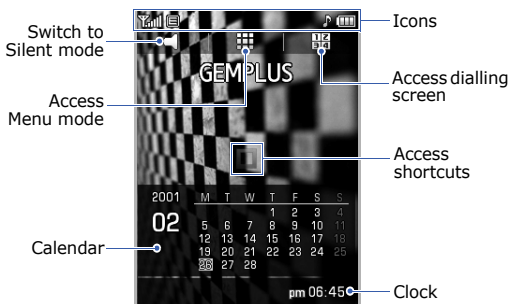
Press and hold to turn on the camera.

In Camera mode, take a photo or record a video.

Display

Layout

















Your phone has a touch-sensitive display. The display detects only fingertips. It does not detect fingernails, a stylus, or other writing instruments.























Move your finger to the left or right quickly on the calendar or clock to switch from one to the other.



Icons

The following icons may appear on the top line of the screen to indicate your phone's status. Depending on your country or service provider, the icons shown on the display may vary.


	Signal strength
	GPRS (2.5G) network
	Connecting to GPRS (2.5G) network
	Transferring data in GPRS (2.5G) network
	EDGE network
	Connecting to EDGE network
	Transferring data in EDGE network
	Call in progress
	Out of your service area or Offline mode
	SOS message feature active
	Browsing Internet
	Roaming network
	Call diverting active
	Home Zone
	Office Zone
	Bluetooth hands-free car kit or headset connected



	Bluetooth active
	Synchronised with PC
	Music playback in progress
	Music playback paused
	Memory card inserted
	Alarm set
	Silent mode (Vibration)
	Silent mode (Mute)
	Ringer type: <ul style="list-style-type: none">• : Melody• : Vibration• : Vibration then melody• : Increasing melody
	Whisper mode, during a call
	Mute mode, during a call
	New message: <ul style="list-style-type: none">• : Text or multimedia message• : Email• : Voicemail
	Battery power level

Access menu functions

Select an option	<ol style="list-style-type: none">1. Tap a desired indicator with your finger.2. Tap the left or right arrow to scroll left or right. Tap and drag the scroll bar to scroll up or down.3. Tap a displayed option or function.4. Tap  to move up one level. Press [
------------------	---



Enter text

Change the text input mode	<ol style="list-style-type: none">1. In the text entry screen, tap the current field.2. Tap T9Abc and select the mode you want. Tap SYM to switch to Symbol mode.
ABC mode	<p>To enter a word:</p> <p>Tap the appropriate key until the character you want appears on the display.</p>
T9 mode	<p>To enter a word:</p> <ol style="list-style-type: none">1. Tap 2 to 9 to start entering a word.2. Enter the whole word before editing or deleting characters.3. When the word displays correctly, tap  to insert a space. Otherwise, select a word from the alternative word choices.



Number mode	Tap the keys corresponding to the digits you want.
Symbol mode	Tap the keys corresponding to the symbols you want.
Other operations	<ul style="list-style-type: none">• Tap 1 to enter punctuation marks or special characters.• Tap  to insert a space.• Tap  to start a new line.• Tap C to delete characters one by one.• Tap and hold C to clear the entire display.

Customise your phone

Display language

1. In Idle mode, tap  and select **Settings** → **Phone settings** → **Language**.
2. Select a language.
3. Tap .




Call ringer melody

1. In Idle mode, tap  and select **Settings** → **Sound settings** → **Incoming call** → **Ringtone**.
2. Select a ringtone category.
3. Select a ringtone.
4. Tap .


Key tone volume

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



Idle mode wallpaper

1. In Idle mode, tap  and select **Settings** → **Display settings** → **Home screen** → **Wallpaper**.
2. Select an image category.
3. Select an image.
4. Tap .
5. Tap .

Silent mode

You can switch the phone to Silent mode to avoid disturbing other people. In Idle mode, tap and hold .

Phone lock

1. In Idle mode, tap  and select **Settings** → **Security** → **Phone lock**.
2. Select **Enable** and tap .
3. Enter a new 4- to 8-digit password and tap **OK**.
4. Enter the new password again and tap **OK**.

Use a memory card

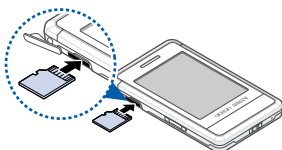
You can use a memory card to increase your phone's memory capacity. Your phone supports memory cards of up to 2GB.

Important memory card information

- Frequent erasing and writing will shorten a card's lifespan.
- Do not remove a card from the phone or turn off the phone while data is being accessed or transferred. This could result in loss of data and/or damage to the card or phone.
- Do not subject cards to strong shocks.
- Do not touch card terminals with your fingers or metal objects. If dirty, wipe the card with a soft cloth.
- Keep cards away from small children or pets.
- Do not expose cards in a place subject to electro-static discharge and/or electromagnetic interference.

Insert a memory card

1. Insert the card into the card slot, with the label side face down.



2. Push the card until it locks into place.



When you insert a memory card with a large amount of files, your phone might work rather slowly for a few minutes while database updates. This may also affect some phone functions. This problem is temporary and is not a phone defect.

Remove the memory card

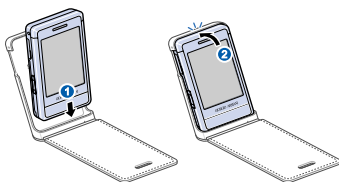
1. Push the card so that it is disengaged from the phone.
2. Remove the card from the slot.

Use a leather case

A durable, portable leather case is provided with your phone. When used properly, it can help protect your phone from being damaged.

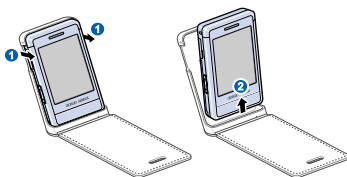
Insert the phone

Slide the phone into place.



Remove the phone

Slide the phone out.



When you close the case cover, the display turns off and locks automatically.








- Always keep the leather case dry. Humidity may deform its original shape.
- Do not let the magnetic strip on your plastic cards get in contact with the leather case.

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, tap .
2. Enter an area code and phone number.
3. Press [].
Press [/] to adjust the volume.
4. Press [] to end the call.

Answer a call


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




Use the speakerphone feature

During a call, tap  to activate the speaker.

Tap  to switch back to the earpiece.


Make a multi-party call

1. During a call, call the second participant.
The first call is put on hold.
2. Tap  and select **Join**.


3. Repeat step 1 and 2 to add more participants.
4. During a multi-party call:
 - Tap  and select **Select one** → **Private** to have a private conversation with one participant.
 - Tap  and select **Select one** → **Remove** to drop one participant.
5. Press [>] to end the multi-party call.

Use the camera





Take a photo

1. In Idle mode, press and hold [Camera] to turn on the camera.
2. Rotate the phone to the left for landscape view.
3. Aim the lens at the subject and make any desired adjustments.
4. Press [Camera] to take a photo. The photo is saved automatically.
5. Tap  or press [Camera] to take another photo.


View a photo

1. In Idle mode, tap  and select **My files** → **Images** → **My photos**.
2. Select the photo you want.

Record a video

1. In Idle mode, press and hold [Camera] to turn on the camera.
2. Rotate the phone to the left for landscape view.
3. Tap  and select  to switch to Record mode.
4. Press [Camera] to start recording.
5. Tap  or press [Camera] to stop recording. The video is saved automatically.
6. Tap  or press [Camera] to record another video.

View a video

1. In Idle mode, tap  and select **My files** → **Videos** → **My video clips**.
2. Select the video you want.
Playing a video is the same as playing music. See p. 26.

Play music

Prepare music files

Use these methods:

- Download from the web.
- Download from a computer using the Samsung PC Studio. See Samsung PC Studio User's Guide.
- Receive via Bluetooth.
- Copy to a memory card and insert it into the phone.
- Synchronise music files with Windows Media Player. See p. 25.

Copy music files to a memory card



1. Insert a memory card into the phone.
 2. In Idle mode, tap **⋮** and select **Settings** → **Phone settings** → **PC connection** → **Mass storage**.
 3. Connect your phone and PC with a PC data cable.
 4. Select **Open folder to view files** when a pop-up window appears on your PC.
-
5. Copy files from the PC to the memory card.
 6. When you are finished, disconnect the phone from the PC.

Synchronise with Windows Media Player





You can copy music files to your phone by synchronising with Windows Media Player 11.

1. In Idle mode, tap **⋮** and select **Settings** → **Phone settings** → **PC connection** → **Media player**.
2. Connect your phone and PC with a PC data cable.
3. Select **Sync digital media files to this device** when a pop-up window appears on your PC.
4. Enter the name of your phone and click **Finish**.
5. Select and drag the music files you want to the sync list.
6. Click **Start Sync**.
7. When synchronisation is finished, disconnect the phone from the PC.

Play music files


1. In Idle mode, tap  and select .
2. Select a music category → a music file.
3. During playback, do the following actions:
 - Tap the square on the screen to pause or resume playback.
 - Drag the screen left or right to return to the previous file or skip to the next file.
 - Drag the square left or right to scan backward or forward in a file.
 - Drag the square up or down to adjust the volume.

Create a playlist







1. From the music player screen, scroll down and select **Playlist**.
2. Tap  and select **Create playlist**.
3. Tap the input field and enter the title of the playlist, and tap **OK**.
4. Tap .
5. Select the added playlist.
6. Tap  and select **Add** → a source.
7. Select a playlist, or select the files you want and tap .
8. Tap a file on the list to play music.

Browse the web

Launch the web browser




In Idle mode, tap  and select **Browser** → **Home**. The homepage of your service provider opens.

Navigate the web



- To scroll through browser items, tap , , , or .
- To select an item, highlight the item then tap twice on the browser window.
- To return to the previous page, tap .
- To access browser options, tap .



Use Phonebook

Add a contact

1. In Idle mode, tap .
2. Enter a phone number and tap .
3. Select a memory location → **New**.
4. For **Phone**, select a number type.
5. Specify contact information.
6. Tap  to save the contact.




Find a contact

1. In Idle mode, tap .
2. Tap .
3. Click text area to input first few letters of the name you want.



-
4. Scroll up or down to select a contact.
 5. Tap the contact you want.
 6. Highlight the number and tap  to dial, or tap  and select **Edit** to edit contact information.





Send messages

Send a text message





1. In Idle mode, tap  and select  → **Create message** → **Message**.
2. Tap the destination field.
3. Enter a destination number and tap **OK**.
4. Tap the text field.
5. Enter the message text and tap **OK**.
6. Tap  to send the message.



Send a multimedia message

1. In Idle mode, tap  and select  → **Create message** → **Message**.
2. Tap the destination field.
3. Enter a destination number or an email address and tap **OK**.
4. Tap the text field.
5. Enter the message text and tap **OK**.

-
6. Tap  and select **Input field**.
 7. Select the input field items and tap .
 8. Tap **Yes**.
 9. Tap the subject field.
 10. Enter the message subject and tap **OK**.
 11. Tap the attachments field and .
 12. Add a media file, contact, or calendar item.
 13. Tap  to send the message.

Send an email

1. In Idle mode, tap  and select  → **Create message** → **Email**.
2. When the setup wizard opens, tap **Y** and customise settings for your email account.
3. Tap the destination field.
4. Enter an email address and tap **OK**.
5. Tap the subject field.
6. Enter the email subject and tap **OK**.
7. Tap the text field.
8. Enter the email text and tap **OK**.
9. Tap  and select **Input field**.
10. Select the input field items and tap .

11. Tap the attachments field and .
12. Add image, video, music, sound, or document files.
13. Tap  to send the email.

View messages





View a text message

1. In Idle mode, tap  and select  → **My messages** → **Inbox**.
2. Select a text message.

View a multimedia message

1. In Idle mode, tap  and select  → **My messages** → **Inbox**.
2. Select a multimedia message.


View an email

1. In Idle mode, tap  and select  → **My messages** → **Email inbox**.
2. Select an account.
3. Tap  and select **Check for new email**.
4. Select an email or a header.
5. If you selected a header, tap  and select **Retrieve** to view the body of the email.


Use Bluetooth

Your phone is equipped with Bluetooth technology, enabling you to connect the phone wirelessly to other Bluetooth devices and exchange data with them, talk hands-free, or control the phone remotely.

Turn on Bluetooth


1. In Idle mode, tap  and select **Bluetooth** → **Activation** → **On**.
2. Select **My phone's visibility** → **On** to allow other devices to locate your phone.

**Search for
and pair with
a Bluetooth
device**

1. In Idle mode, tap  and select **Bluetooth** → **My devices** → **Search for new devices**.
2. Select a device.
3. Enter a Bluetooth PIN or the other device's Bluetooth PIN, if it has one, and tap **OK**.

When the owner of the other device enters the same code, pairing is complete.

Send data

1. Access an application, such as **Phonebook**, **My files**, **Calendar**, or **Memo**.
2. Select an item.
3. Tap  and select **Send via** → **Bluetooth**.

4. For sending a contact, select which data you want to send.
5. Search for and select a device.
6. If necessary, enter the Bluetooth PIN and tap **OK**.

Receive data

1. If necessary, enter a Bluetooth PIN and tap **OK**.
2. Tap **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.

Call log

Menu	Description
Recent contacts, Missed calls, Dialled calls, Received calls	Check the most recent calls dialled, received, or missed.
Sent messages, Received messages	View the record of the most recent messages sent or received.
Delete all	Delete all of the records in each call type.
Call manager → Call time	Check the time record for calls made and received.
Call manager → Call cost	Check the cost of your calls, if supported by your SIM card.
Call manager → Reject list	Make a list of the phone numbers of callers to reject.

Phonebook

Menu	Description
Contact list	Search for contact information stored in Phonebook.
Create contact	Add a new contact to Phonebook.
Group	Organise your contacts in caller groups.
Speed dial	Assign a speed dial number for your most frequently dialled numbers.
My namecard	Create a name card and send it to other people.
Own numbers	Check your phone numbers, or assign a name to each of the numbers.
Management	Manage contacts in Phonebook or change the default settings for Phonebook.
Service number	View the SDN (Service Dialling Number) list assigned by your service provider, if supported by your SIM card.

Music player

Access and listen to all music files sorted by criteria. You can also make your own music playlists.

Browser

Menu	Description
Home	Connect your phone to the network and load the homepage of the wireless web service provider.
Enter URL	Enter a URL address and access the associated web page.
Bookmarks	Save URL addresses in order to quickly access web pages.
Saved pages	Access the list of pages you have saved while online.
History	Access the list of pages you have accessed recently.
Browser settings	Select a connection profile to be used for accessing the wireless web.

Messages

Menu	Description
Create message	Create and send text, multimedia, or email messages.
My messages	Access messages that you have received, sent, or that have failed during sending.
Templates	Make and use templates of frequently used messages or passages.
Delete all	Delete messages in each message folder all at once.
Settings	Set up various options for using the messaging services.
SOS Messages	Specify options for sending and receiving an SOS message. You can send an SOS message by pressing [▲/▼] 4 times when the keys and display are locked.
Memory status	Check information on the memory taken up by messages.

My files

Menu	Description
Images, Videos, Music, Sounds, Other files	Access media files and other files stored in the phone's memory.
Memory card	Access the files stored on a memory card. This menu is only available when you insert a memory card into the phone.
Memory status	Check information about the memory currently in use.

Calendar

Keep track of your schedule.

Camera

Use the camera embedded in your phone to take photos and record videos.

Bluetooth

Connect the phone wirelessly to other Bluetooth devices.

Applications

Menu	Description
Voice recorder	Record voice memos and any other sounds.
Image editor	Edit your photos using various editing tools.
Image stamp	Make an outline stamp of a photo and merge it with another photo.
Games	Access embedded games.
World clock	Set your local time zone and find out the current time in another part of the world.
Calculator	Perform arithmetic functions.
Convertor	Do conversions, such as length and temperature.
Timer	Set a period of time for the phone to count down.
Stopwatch	Measure elapsed time.
Memo	Make memos for things that are important and manage them.
SIM application toolkit	Use a variety of additional services offered by your service provider. Depending on your SIM card, this menu may be available but labelled differently.

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.

Settings

Menu	Description
Time and date	Change the time and date displayed on your phone.
Phone settings → Language	Select a language for the display text.
Phone settings → Greeting message	Enter the greeting that is displayed briefly when the phone is switched on.
Phone settings → Auto keypad lock	Set the phone to lock the keys and display automatically when the display dims off.
Phone settings → Volume key	Set a function of the [▲/▼] during a call.
Phone settings → Vibration feedback	Set the phone to vibrate when you tap an option or icon.
Phone settings → Extra settings	Change additional settings for using the phone.
Phone settings → Offline mode	Switch the phone to Offline mode, in which the phone functions requiring network connection are deactivated.

Menu	Description
Phone settings → PC connection	Select a USB mode that will be used when you connect your phone to another device via USB interface.
Phone settings → Word suggestion	Set the phone to show the alternative word choices for your key presses in T9 mode.
Display settings → Home screen	Set up the idle screen on the display.
Display settings → Text display	Change the display settings for the text displayed on the idle screen.
Display settings → Brightness	Adjust the brightness of the display for varying lighting conditions.
Display settings → Show caller information	Set the phone to display missed call notifications with the most recently missed caller's information.
Sound settings → Incoming call	Change the sound settings for incoming calls.
Sound settings → Keypad tone	Select the sound of the key when you press a number during dialling.
Sound settings → Message tone	Change the sound settings for incoming messages per each type.

Menu	Description
Sound settings → Power on/off tone	Select the melody that the phone plays when it is switched on or off.
Sound settings → Silent mode	Set how the phone alerts you to events during silent mode.
Sound settings → Extra tones	Customise additional tones for the phone.
Light settings → Backlight time	Select the length of time the backlight or display stays on when the phone is not used.
Light settings → Sunlight mode	Select whether the phone changes the tone of its display colour to improve visibility.
Network services → Call diverting	Set the phone to reroute incoming calls to a phone number that you specify.
Network services → Call barring	Set the phone to restrict calls.
Network services → Call waiting	Set the phone to inform you when someone is calling you while on another call.
Network services → Network selection	Select the network to be used while roaming outside of your home area, or let the network be chosen automatically.
Network services → Caller ID	Set the phone to hide your phone number from the person you are calling.

Menu	Description
Network services → Voice mail server	Store the number of the voicemail server and access your voicemails.
Network services → Closed user group	Set calls to be restricted to a selected user group.
Security → PIN check	Activate your PIN to protect your SIM card against unauthorised use.
Security → Change PIN code	Change the PIN.
Security → Phone lock	Activate your phone password to protect your phone against unauthorised use.
Security → Change password	Change the phone password.
Security → Privacy	Lock access to messages, files, or all menu functions on the phone, except for call functions.
Security → SIM lock	Set the phone to work only with the current SIM card by assigning a SIM lock password.
Security → Fixed dialling mode	Set the phone to restrict calls to a limited set of phone numbers, if supported by your SIM card.
Security → Change PIN2 code	Change your current PIN2, if supported by your SIM card.

Menu	Description
Security → 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 SIM card. This feature may be unavailable due to certain features supported by your service provider.
Connection settings	Create and customise the profiles containing the settings for connecting your phone to the network.
Memory status	Check information about the memory currently in use.
Reset settings	Restore phone to its original settings.

SAR certification information

This phone meets European Union (EU) requirements concerning exposure to radio waves.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured to not exceed the limits for exposure to radio-frequency (RF) energy, as recommended by the EU Council. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through the periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended by the EU Council is 2.0 W/kg.¹

The highest SAR value for this model phone was 0.920 W/kg.

SAR tests are conducted using standard operating positions 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 base station, the lower the power output of the phone.

1. The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of body tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. The SAR values may vary, depending on national reporting requirements and the network band.

Before a new model phone is available for sale to the public, compliance with the European R&TTE Directive must be shown. This directive includes as one of its essential requirements the protection of the health and safety of the user and any other person.

Precautions when using batteries

- Never use a 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 service provider.
- Battery charging time depends on the remaining battery charge, the type of battery, and the charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time 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. Disconnect the charger from the power source when it is not in use. 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 because the capacity and lifetime of the battery will be reduced. Try to keep the battery at room temperature. A phone with a hot or cold battery may not work temporarily, 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 like a coin, clip or pen causes a direct connection between the + and – terminals of the battery (metal strips on the battery). For example, do not carry a spare battery in a pocket or bag where the battery may contact metal objects. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road safety

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

When you are driving a car, driving is your first responsibility. When using your wireless phone while driving, follow local regulations in the country or region you are in.

Operating environment

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

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

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

Electronic devices

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

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research. If you have any reason to suspect that interference is taking place, switch off your phone 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 off your phone in health care facilities when regulations posted in these areas instruct you to do so.

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

Potentially explosive environments

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


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

Emergency calls

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

To make or receive 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. Switch on the phone.
2. Key in the emergency number for your present location. Emergency numbers vary by location.
3. Press [].

Certain features like Call Barring may need to be deactivated before you can make an emergency call. Consult this document and your local cellular service provider.

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 installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. Improperly installed wireless equipment could result in serious injury if the air bag inflates.
- Switch off your phone before boarding an aircraft. It is dangerous and illegal to use wireless phones in an aircraft because they can interfere with the operation of the aircraft.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and maintenance

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

- Keep your phone and all its parts and accessories out of the reach of small children and pets. They may accidentally damage these things or choke on small parts.
- Keep the phone dry. Precipitation, humidity, and liquids contain minerals that 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.
- 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, stove, or radiator. The phone may explode when overheated.

- When the phone or battery gets wet, the label indicating water damage inside the phone changes colour. 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. Unauthorised 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-P520

to which this declaration relates, is in conformity with the following standards and/or other normative documents.

SAFETY	EN 60950-1 : 2001 +A11:2004
EMC	EN 301 489-01 V1.5.1 (11-2004) EN 301 489-07 V1.2.1 (08-2002) EN 301 489-17 V1.2.1 (08-2002)
SAR	EN 50360 : 2001 EN 62209-1 : 2006
RADIO	EN 301 511 V9.0.2 (03-2003) EN 300 328 V1.6.1 (11-2004)

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 :

CE 0168


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*

2007.07.31

(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 phone.

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