

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

SAMSUNG ELECTRONICS



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User's Guide



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 the vehicle first.

Switch off the phone when refuelling

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

Switch off in an aircraft

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

Switch off the phone near all medical equipment

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

Interference

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



Be aware of special regulations

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


Water resistance

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

Sensible use

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

Emergency calls

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

Keep your phone away from small children

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

Accessories and batteries

Use only Samsung-approved accessories and batteries. Use of any unauthorised accessories could damage 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.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 70.

About this Guide

This User's Guide provides you with condensed information about how to use your phone. To quickly learn the basics for your phone, please refer to "Get started" and "Step outside the 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 can get more information on the referenced page.



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



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



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



- **3G**

Your phone is capable of operating in a 3G environment, allowing much greater data transfer speed, video streaming, and video conferencing.

Special features of your phone



- **Camera and camcorder**

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



- **Media player**

Play media files on your phone. You can enjoy high quality videos and music.



- **File viewer**

Open documents in various formats on the phone without corruption.



- **Bluetooth**

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



- **Web browser**

Access the wireless web to get up-to-the-minute information and a wide variety of media content.



- **Name card**

Create a name card with your number and profile whenever introducing yourself to others use this convenient electronic name card.

- **Multimedia Message Service (MMS)**

Send and receive MMS messages with a combination of text, images, and audio.

- **E-mail**

Send and receive e-mails with images, video, and audio attachments.

- **Photo printing**

Print your photos to preserve your best moments forever.



- **Java**

Enjoy Java™-based embedded games and download new games.



- **Calendar**

Keep track of your daily, weekly, and monthly schedule.



- **Voice recorder**

Record memos or sounds.

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Menu functions

To access Menu mode, press **[OK]** in Idle mode.

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* Shows only if supported by your USIM/SIM card.

Unpack

Make sure you have each item



Phone



Travel Adapter



Battery



PC Data Cable



PC Link CD



User's Guide

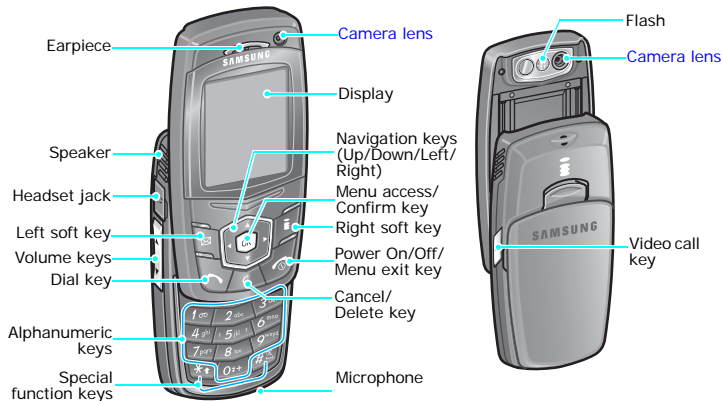
You can obtain various accessories from your local Samsung dealer.



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

Your phone

Buttons, features, and locations



Get started

First steps to operating your phone


USIM/SIM card information

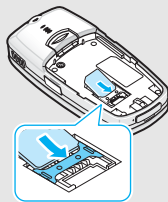
When you subscribe to a cellular network, you receive a plug-in SIM (Subscriber Identity Module) card loaded with your subscription details, such as your PIN and available optional services. For 3G services, you can purchase an USIM (Universal Subscriber Identity Module) card.

Install and charge the phone

- 1** Remove the battery. **2** Insert the SIM card.



- ☒ If the phone is already on, first turn it off by pressing and holding [].

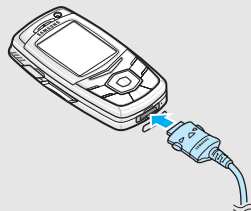


- ☒ Make sure that the gold-coloured contacts on the card face down into the phone.

- 3** Install the battery.



- 4** Plug the travel adapter into the phone.



- 5** Plug the adapter into a standard AC wall outlet.


- 6** When the phone is completely charged (the battery icon becomes still), unplug the adapter from the power outlet.

7 Remove the adapter from the phone.



Low battery indicator


When the battery is low:

- a warning tone sounds,
- the battery low message displays, and
- the empty battery icon  blinks.

If the battery level becomes too low, the phone automatically turns off. Recharge your battery.


Power on or off

Power on

1. Open the phone.
2. Press and hold [] to turn on the phone.
3. If necessary, enter the PIN and press <Confirm>.

Do not turn on the phone when mobile phone use is prohibited.

Power off

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

Keypad lock

The keypad lock feature locks the keys so that nothing will happen if the keys are accidentally pressed.

To lock the keypad, with the phone open, press and hold [*] and press <Yes>. **When you close the phone or the backlight turns off, the keypad automatically locks.**

To unlock the keypad, press <Unlock> and then [OK].

Keys and display

Keys



In Idle mode, press [✉] to enter the **Mail** menu. Press [i] to enter the **i-mode** menu.

In Menu mode, perform the function indicated on the bottom line of the display.



In Idle mode, access your favourite menus directly. ► p. 60

In Menu mode, scroll through menu options.



In Idle mode, enter Menu mode. Also, launch the i-mode browser when held down.

In Menu mode, select the highlighted menu option or confirm input.



Make a video call.



Make or answer a call.

In Idle mode, retrieve the recent numbers dialled, missed, or received.



Delete characters from the display.

In Menu mode, return to the previous menu level.



End a call.

Press and hold to switch the phone on and off.

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



Enter numbers, letters, and some special characters.



In Idle mode, press and hold [1] to access your voicemail server. Press and hold [0] to enter an international call prefix.



Enter special characters.



In Idle mode, press and hold [#] to activate or deactivate the Silent profile. Press and hold [*] to enter a pause between numbers.

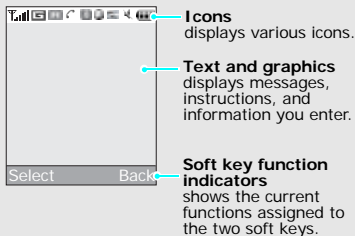


In Idle mode, adjust the keypad tone volume.








During a call, adjust the earpiece volume.

Display

Layout



Icons

-  Received signal strength
-  Accessing services in a 2.5G network; when transferring data, this icon blinks
-  Accessing services in a 3G network; when transferring data, this icon blinks
-  Active roaming network
-  Voice call in progress
-  Out of your service area; you cannot send or receive voice calls
-  Video call in progress



New i-mail or i-MMS message

- Grey: a message on your phone; when a message is being retrieved, the icon blinks.
- Yellow: a message on the i-mode server
- Red: Inbox is full



i-mode is active

- Yellow: in a GPRS network
- Grey: in a GSM network



i-mode connection is being made



i-mode is locked



Bluetooth feature activated



Connected with a Bluetooth headset or hands-free car kit



Alarm set







New SMS message



[New voicemail](#)



Profile setting

- No icon: Normal
-  : Silent
-  : Car
-  : Meeting
-  : Outdoor



Battery power level

Access menu functions

Use the soft keys

The roles of the soft keys vary depending on the function you are using. The bottom line of the display indicates their current role.



Press the left soft key to select the highlighted option.

Press the right soft key to return to the previous menu level.

Select an option

1. Press the appropriate soft key.
2. Press [Up] or [Down] to move to the next or previous option.
3. Press <**Select**> or [OK] to confirm the function displayed or option highlighted.
4. To exit, choose either of the following methods:
 - Press <**Back**> or <**C**> to move up one level.
 - Press [⌂] to return to Idle mode.

Use shortcuts

Press the number key corresponding to the option you want.

Customise your phone

Display language

1. In Idle mode, press [OK] and select **Settings** → **Phone settings** → **Language** → **Screen text**.
2. Select a language.
3. Press <Save>.

Call ringer melody

You can set the call ringer by changing the properties of the currently active sound profile.

To change the profile properties:

1. In Idle mode, press [OK] and select **Settings** → **Phone settings** → **Assign ringtone**.
2. Select **Voice call ringtone** and select a ringer for voice calls.
3. Select **V-call ringtone** and select a ringer for video calls.
4. Press <Options> and select **Save**.

To change the sound profile:

1. In Idle mode, press [OK] and select **Settings** → **Phone settings** → **Phone profiles**.
2. Select the profile you want.

Idle mode wallpaper

You can set wallpaper for the display.

1. In Idle mode, press [OK] and select **Settings** → **Display settings** → **Wallpaper**.
2. Press [Left] or [Right] to select an image or video folder.
3. Select an image or video.

Silent mode

You can quickly activate the Silent profile to avoid disturbing other people.

Press and hold [#] in Idle mode.

Phone lock

You can protect the phone against unauthorised use with a phone password. The phone will require the password on power-up.

1. In Idle mode, press [OK] and select **Settings** → **Security** → **Change phone password**.
2. Enter the default password, **00000000**, and press <**Confirm**>.
3. Enter a new 4- to 8-digit password and press <**Confirm**>.
4. Enter the new password again and press <**Confirm**>.
5. Select **Phone lock**.
6. Select **Enable**.
7. Enter the password and press <**Confirm**>.

Make/Answer calls**Make a call**

To make a voice call:

1. Enter an area code and phone number.
2. Press [↵].
3. To end the call, press [⏏].

To make a video call:

1. Enter an area code and phone number.
2. Press [📹] or <**V-call**>, and the other person appears on the display.

Answer a call

1. When the phone is ringing, press [↵].
2. For a video call, press <**Show me**> to allow the other person to see you.
3. To end the call, press [⏏].

Adjust the volume during a call

Press [▲/▼].

Step outside the phone

Begin with your camera, web browser, and other special features

Use camera

Take a photo

1. In Idle mode, press **[OK]** and select **Camera** → **Take photo**.
2. Adjust the image to be captured.
3. Press **[OK]** to take a photo. The photo is saved automatically.
4. Press **<Back>** to take another photo.

View a photo

1. In Idle mode, press **[OK]** and select **File manager** → **Images** → **Photos**.
2. Select the photo you want.

Record a video

1. In Idle mode, press **[OK]** and select **Camera** → **Record video**.
2. Press **[OK]** to start recording.
3. Press **<Stop>** to stop recording. The video is automatically saved.
4. Press **<Back>** to record another video.

Play a video

1. In Idle mode, press **[OK]** and select **File manager** → **Videos** → **Videos**.
2. Select the video you want.

Play media files

Copy media files to the phone

Use these methods:

- Download from the wireless web ► p. 37
- Download from a computer using Samsung PC Studio
 - Samsung PC Studio User's Guide
- [Receive via an active Bluetooth connection](#)
 - p. 65

Create a play list

1. In Idle mode, press [**OK**] and select **Media player** → a media folder.
2. Press <**Options**> and select **Add** → **Folder** or **Files**.
3. Select a folder or select files you want to add to the play list.
4. Press <**Select**> or <**Add**>.

Play media files

1. From the play list, scroll to a file and press [**OK**].
2. During playback, use the following keys:
 - **OK**: pauses or resumes playback.
 - Up: opens the play list.
 - [Left](#): moves back to the previous file.
 - [Right](#): skips to the next file.
 - [▲/▼](#): adjusts the volume.
3. To stop playback, press <**Stop**>.

Browse the web

Using the i-mode browser, you can get easy access to the wireless web to receive a variety of up-to-date information and services and to enjoy downloads of web contents.

Launch the i-mode browser

In Idle mode, press and hold [OK].

Navigate the web

- To scroll through browser items, press [Up] or [Down].
- To select an item, press [OK].
- To return to the previous page, press <Back>.
- To use browser options, press <Options>. If necessary, select **Browser Menu**.

Use Contacts

Add an entry

1. In Idle mode, enter a phone number.
2. Press <Options> and select **Save to Contacts** → **New** → a number type.
3. Specify the contact information: First name, Last name, Mobile, Home, Office, Fax, [Other](#), E-mail, Group, Homepage, Memo, Birthday, [Postal address](#).
4. Press [OK] to save the entry.

Find an entry

1. In Idle mode, press [OK] and select **Phonebook** → **Search contact**.
2. Select an entry from the Contacts list.
3. Scroll to a number and press [↵] to dial, or press [OK] to view the contact details.

Create and send your name card

1. In Idle mode, press **[OK]** and select **Phonebook** → **My contact details**.
2. Press **<Options>** and select **My contact details**.
3. Specify your contact information.
4. Press **[OK]** to save the name card.
5. To send the name card to other people, access **My contact details** again.
6. Press **<Options>** and select **Send message** → **As E-mail** or **Via Bluetooth**.

Send messages

Send a text message (SMS)

1. In Idle mode, press **[OK]** and select **Messages** → **Create message**.
2. Enter your message and press **[OK]**.
3. Enter destination numbers.
4. Press **[OK]** to send the message.

Send an i-MMS message (MMS)

1. In Idle mode, press **<i-mail>** and select **Compose iMMS**.
2. Select **Destination**.
3. Enter destination numbers or e-mail addresses and press **[OK]**.
4. Select **Title**.
5. Enter the message title and press **[OK]**.
6. Select **SMIL** → **Media** and add text, images, sounds, and videos.
7. On the slide preview screen, press **<Opt.>** and select **Send** to send the message.

Send an i-mail

1. In Idle mode, press <**i-mail**> and select **Compose iMail**.
2. Select **Destination**.
3. Enter e-mail addresses and press [**OK**].
4. Select **Title**.
5. Enter the mail title and press [**OK**].
6. Select the attachment field and use the following options for adding files.
 - **Attach File**: add images, sounds, videos, music files, name cards, or schedule items.
 - **Attach Melody**: add MFi (Melody Format for i-mode) melody files.
 - **Attach Bookmark**: add bookmarks.
7. Select **Text**.
8. Enter the mail text and press [**OK**].
9. Select **Send** to send the mail.

View messages

View a text message

When a notification appears:

1. Press <**View**>.
2. Select the message from the Inbox.

From the Inbox:

1. In Idle mode, press [**OK**] and select **Messages** → **My messages** → **Inbox**.
2. Select a message.

View an i-MMS or i-mail

From the Inbox:

1. In Idle mode, press <**i-mail**> and select **Inbox** → an Inbox folder.
2. Select a message.

Use Bluetooth

Your phone is equipped with Bluetooth technology which enables 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

In Idle mode, press [OK] and select **Settings** → **Connectivity** → **Bluetooth** → **Activation** → **On**.

Search for and pair with a Bluetooth device

1. In Idle mode, press [OK] and select **Settings** → **Connectivity** → **Bluetooth** → **My devices**.
2. Select **Search new devices** or press <Search>.
3. Select a device.
4. Enter a Bluetooth PIN or the other device's Bluetooth PIN, if it has, and press <OK>.
When the owner of the other device enters the same code, the pairing is complete.

Send data

1. Access an application, **Phonebook**, **File manager**, or **Calendar**.
2. Scroll to the item you want to send, or select the item.
3. Press <Options> and select a sending option for the selected item → **Via Bluetooth**.
4. Select a device.
5. If necessary, enter the Bluetooth PIN and press <OK>.

Receive data

1. Activate the Bluetooth feature on the phone.
2. Set other Bluetooth devices to search for your phone.
3. If necessary, press <Yes> to confirm the reception.

Enter text

ABC, T9, Number, and Symbol modes

You can enter text for some features such as Messaging, Phonebook, or Calendar, using ABC mode, T9 mode, Number mode, and Symbol mode.

Changing the text input mode

- Press and hold [✱] to switch between T9 (T9) and ABC (Abc) modes.
- Press [✱] to change case or to switch to Number mode (123).
- Press and hold [#] to switch to Symbol mode.

Using T9 mode

T9 is a predictive text input mode that allows you to key in any character using single keystrokes.

Entering a word in T9 mode

1. Press [2] to [9] to start entering a word. Press each key once for each letter.
For example, press [4], [3], [5], [5], and [6] to enter *Hello* in T9 mode.
T9 predicts the word that you are typing, and it may change with each key that you press.
2. Enter the whole word before editing or deleting characters.

3. When the word displays correctly, go to step 4. Otherwise, press [0] to display alternative word choices for the keys that you have pressed.
For example, *Of* and *Me* use [6] and [3].
4. Press [#] to insert a space and enter the next word.

Tips for using T9 mode

- Press [1] to enter periods or apostrophes automatically.
- Press [#] to insert a space.
- Press the Navigation keys to move the cursor.
- Press [C] to delete characters one by one. Press and hold [C] to clear the entire display.

Adding a new word to the T9 dictionary

This feature may not be available for some languages.

1. Enter the word that you want to add.
2. Press [0] to display alternative words for your key presses. When there are no more alternative words, **Add** displays on the bottom line.
3. Press <Add>.
4. Enter the word you want using ABC mode and press <OK>.

Using ABC mode

Press the appropriate key until the character you want appears on the screen.

Keys	Characters in order displayed	
	Upper case	Lower case
1	. , - ? ! @ : () / _ 1	
2	A B C 2 Ä Å Æ Ç Æ	a b c 2 à á â ã æ ç
3	D E F 3 É Δ Φ	d e f 3 è é φ
4	G H I 4 Θ Ψ	g h i 4 ð ñ
5	J K L 5 Λ	j k l 5 λ
6	M N O 6 Ñ Ø Ö ö	m n o 6 ñ ø ö ò
7	P Q R S 7 Π Σ Ξ	p q r s 7 ρ σ ξ
8	T U V 8 Û Ü	t u v 8 ù ü
9	W X Y Z 9 Ω	w x y z 9 ω
0	Space + = < > € £ \$ % & ¥ ¤ 0	

(creating an SMS message with GSM alphabet encoding)

Tips for using ABC mode

- To enter the same letter twice or to enter a different letter on the same key, wait for the cursor to move to the right automatically or press [Right]. Then, enter the next letter.
- Press [#] to insert a space.
- Press the Navigation keys to move the cursor.
- Press [C] to delete characters one by one. Press and hold [C] to clear the entire display.

Using Number mode

Number mode enables you to enter numbers. Press the keys corresponding to the digits you want.

Using Symbol mode

Symbol mode enables you to insert symbols.

To	Press
display more symbols	[Up] or [Down].
select a symbol	the corresponding number key.
clear the symbol(s)	[C].
insert the symbol(s)	<OK>.

Call functions

Advanced calling features

Making a call

1. In Idle mode, enter the area code and phone number.
2. Press [\].

- ☑ • Press [C] to clear the last digit or press and hold [C] to clear the whole display. You can move the cursor to edit an incorrect digit.
- Press and hold [*] to enter a pause between numbers.

Making an international call

1. In Idle mode, press and hold [0]. The + character appears.
2. Enter the country code, area code, and phone number, then press [\].

Redialling recent numbers

1. In Idle mode, press [\] to display the list of recent numbers.
2. Scroll to the number you want and press [\].

Making a call from Phonebook

Once you have stored a number in Phonebook, you can dial the number by selecting it from Phonebook.
► p. 27

You can also use the speed dial feature to assign your most frequently called numbers to specific number keys. ► p. 30

You can quickly dial a number from the USIM/SIM card using its location number assigned when stored.

1. In Idle mode, enter the location number for the phone number you want and press [#].
2. Scroll to the number you want.
3. Press <Call> or [\] to make a voice call, or <V-call> or [\] to make a video call.

Ending a call

Press [\] or close the phone.

Answering a call

When you receive an incoming call, the phone rings and displays the incoming call image.

Press [\] or <Accept> to answer the call.

Tips for answering a call

- When **Any key answer** is active, you can press any key to answer a call, except for <Reject> and [\]. ► p. 61
- Press <Reject> or [\] to reject a call.
- Press and hold [\] to mute the ringer.

Viewing missed calls

If you have missed calls, the screen displays how many calls you have missed.

1. Press <**View**>.
2. If necessary, scroll through the missed calls.
3. Press [****] to dial the number you want.

Using the headset

Use the headset to make or answer calls without holding the phone.

Connect the headset to the jack on the left side of the phone. The button on the headset work as listed below:

To	Press
redial the last call	the button twice.
answer a call	the button.
end a call	the button.

Options during a call

You can access a number of functions during a call.

Adjusting the volume during a call

Use [**▲** / **▼**] to adjust the earpiece volume during a call.

Press [**▲**] to increase the volume level and [**▼**] to decrease the volume level.

Placing a call on hold/Retrieving

Press <**Hold**> or <**unhold**> to place the call on hold or retrieve the call.

Making a second call

You can make another call if your network supports it.

1. Press <**Hold**> to put the call on hold.
2. Make the second call in the normal way.
3. Press <**Swap**> to switch between the calls.
4. Press <**Options**> and select **Drop held call** to end the call on hold.
5. To end the current call, press [**ⓞ**].

Answering a second call

You can answer an incoming call while already on the phone, if your network supports it and you have activated the call waiting feature. ► p. 63

1. Press [****] to answer the call. The first call is automatically put on hold.
2. Press <**Swap**> to switch between the calls.
3. Press <**Options**> and select **Drop held call** to end the call on hold.
4. To end the current call, press [**ⓞ**].

Using In-call options

Press **<Options>** to access the following options during a call:

- **Loud speaker/Handset:** turn on the Speakerphone feature or switch back to Normal mode.
- **Switch to headset/Switch to phone:** switch the call to a Bluetooth headset or hands-free car kit or back to the phone.
- **Menu:** access the phone's menu functions.
- **Send SMS:** create and send a text message to other people as well as to your current call participants.
- **Mute:** switch off the phone's microphone so that the other person on the phone cannot hear you, or switch it back on. You can also switch the key tones on or off.

☒ To communicate with answering machines or computerised telephone systems, **Key tone** must be selected.
- **Send DTMF:** send the DTMF (Dual tone multi-frequency) tones as a group. The DTMF tones are the tones used in phones for tone dialling, sounding when you press the number keys. This option is helpful for entering a password or an account number when you call an automated system, like a banking service.

- **Contacts:** access the contact list.
- **Memo:** write a memo.
- **End held call:** disconnect the call currently on hold.
- **Transfer:** transfer the currently active call to a caller on hold. The two callers can talk to each other, but you are disconnected from the call.
- **Join:** set up a multi-party call by adding a caller on hold to a currently active call. You can include up to 5 people on a multi-party call.
- **Select one:** select one of multi-party call participants. You can then use the following options:
 - Split:** have a private conversation with one multi-party call participant. The other participants can converse with each other. After the private conversation, select **Join** to return to the multi-party call.
 - Drop a call:** disconnect one multi-party call participant.

Using SIM services


The **Special** menu is available if you use a USIM/SIM card in your phone. A USIM/SIM card provides services such as news, weather, sports, entertainment, and location services.

For details, see your SIM card instructions or contact your service provider.

Using the video call feature

In a 3G (UMTS) service area, your phone can make or receive a video call which allows you to see another person on the screen during a conversation. The other person's phone must support the video call feature.

Making a video call

1. In Idle mode, enter an area code and phone number.
2. Press <**V-call**> or []. The other person appears on the display.

Answering a video call

When you receive a video call, answer a video call as receiving a voice call. Press <**Show me**> to allow the other person to see you.

Using video call options

During a video call, press <**Options**> to access the following options:

- **Loud speaker/Handset:** turn the speaker off or off.
- **Switch to phone/Switch to headset:** switch the call to a Bluetooth headset or back to the phone. To use this feature, you first need to connect your headset to the phone. ► p. 64
- **Mute:** turn off the camera, key tone, or microphone.
- **Quality:** change the image quality.
- **Zoom:** zoom in or out.
- **Brightness:** adjust the image brightness.
- **Effects:** apply a special effect to the image.
- **Hide information/Show information:** display or hide information about the video call.
- **More options:** access the following options:
 - Phonebook:** search for a Phonebook entry.
 - Create message:** create and send a new text message.
 - Memo:** create a new memo.
- **End call:** end the video call.

Menu functions

All menu options listed

Games & mores (Menu 1)

You can access the list of the Java applications you have downloaded from various sources using the i-mode browser.

To access this menu, press [OK] in Idle mode and select **Games & mores**.

For further information on Java applications, see **Java**. ► p. 43

Phonebook (Menu 2)

You can store contact information in your phone's memory and on your USIM/SIM card. The USIM/SIM card and phone's memory are physically separate, but they are used as a single entity called Phonebook. You can also manage your contact entries.

To access this menu, press [OK] in Idle mode and select **Phonebook**.

Search contact (Menu 2.1)

You can search for numbers in Phonebook.

Finding an entry

1. Enter the first few letters of the name that you want to find.
2. Select the name you want from the list.
3. Scroll to a number and press [↵] to dial, or press [OK] to view the contact details.

Using contact options

While viewing the contact details, press <Options> to access the following options:

- **Edit**: edit contact information.
- **Call**: [dial the selected number](#).
- **Send message**: send an SMS, i-mail, or i-MMS message to the selected number or e-mail address.
- **Special options**: set the following options:
 - Picture**: assign an image or video to alert you to a call from the person.
 - Ringtone**: assign a ringtone to alert you to a call from the person.
 - Msg.alert tone**: assign a ringtone to alert you to an incoming message from the person.
- **Add to speed dial**: [set the selected number as a speed dial entry](#).

- **Copy to SIM/Copy to phone:** copy the selected contact to the USIM/SIM card or the phone's memory, or vice versa.
- **Send contact details:** send the contact via i-mail or Bluetooth.
- **Set as default:** set the selected number as the default for the contact.
- **Duplicate:** make a copy of the contact.
- **Paste:** copy the selected number to the normal dialling screen.
- **Delete:** delete the contact.

Add contact *(Menu 2.2)*

Use this menu to add a new contact to Phonebook.

1. Change the settings or enter information about the contact.
 - **First name/Last name:** assign a name.
 - **Mobile/Home/Office/Fax/Other:** add a number in any type.
 - **Email:** assign an e-mail address.
 - **Group:** assign the contact to a caller group.
 - **Homepage:** enter a homepage address.
 - **Memo:** add a memo about the person.
 - **Birthday:** enter the person's birthday.
 - **Postal address 1/Postal address 2:** enter the person's postal address.

2. Press <**Options**> and access the following options to add additional information:
 - **Special options:** assign an image or video, or call ringtone, or message ringtone for the contact.
 - **Mark video call/Unmark video call:** set the selected number as a video call number.
3. Press [**OK**] to save the contact.

Call log *(Menu 2.3)*

Use this menu to view the calls you have dialled, received, or missed, and the length of calls. You can also check the cost of your calls, if your USIM/SIM card supports this function.

Missed calls *(Menu 2.3.1)*

This menu displays the most recent calls you did not answer.

Accessing a call record

1. Press [Left] or [Right] to move to another call type.
2. Press [Up] or [Down] to scroll through the call list.
3. Press [**OK**] to view the details of a call, or press [\] to dial a number.

Using call record options

From the call list, press **<Options>** to access the following options:

- **View:** access the call details.
- **Call:** make a voice call to the selected number.
- **Send contact to:** save the number to Phonebook.
- **Send message:** send an SMS, i-mail, or i-MMS message to the selected number.
- **Delete:** delete the selected call record or all records.

Received calls (Menu 2.3.2)

This menu displays the most recent calls you have received.

Dialled calls (Menu 2.3.3)

This menu displays the most recent calls you have dialled.

Current contacts (Menu 2.3.4)

This menu displays the most recent calls you have dialled, received, and missed.

Data counter (Menu 2.3.5)

You can view the total amount of sent or received data.

- **Total sent:** check the total amount of sent data.

- **Total received:** check the total amount of received data.
- **Total CSD call:** check the total length of your data calls dialled and received.

To reset a counter or all counters, press **<Options>** and select **Reset** or **Reset all**.

☒ The password is preset to **00000000**. You can change this password. ▶ p. 67

Call costs (Menu 2.3.6)

You can check the cost of calls, if your USIM/SIM card supports this network feature. Note that this is not intended to be used for billing purposes.





- **Total costs:** check the total cost of all your calls. If the total cost exceeds the maximum cost set in **Edit cost limit**, you must reset the counter before you can make another call.
- **Last call cost:** check the cost of your last call.
- **Cost limit:** check the maximum cost set.

Press **<Options>** to access the following options:

- **Reset call cost:** reset the cost counters.
- **Edit cost limit:** set the maximum cost authorised for your calls.
- **Setup currency:** set the price per unit that is applied when the cost of your call is calculated.

Call times (Menu 2.3.7)

You can access the call time log for voice, video, and data calls you have dialled and received. The actual time invoiced will vary.

-  **Total dialled:** check the total length of your voice calls dialled.
-  **Total received:** check the total length of all voice calls received.
-  **Total dialled:** check the total length of your video calls dialled.
-  **Total received:** check the total length of all video calls received.

To reset a counter or all counters, press <Options> and select **Reset** or **Reset all**.

☒ The password is preset to 00000000. You can change this password. ▶ p. 67

Groups (Menu 2.4)

You can organise your contacts in caller groups. If you are using a USIM card, you can add groups to the card.

Creating a caller group

1. Press [Left] or [Right] to select **Phone** or **SIM**.
2. Press <Options> and select **Add group**.
3. Enter a name for the group and press <Save>.

Adding members to a caller group

1. Select a group.
2. Press [OK] to select the contacts you want to add.
3. Press <Save>.

Managing caller groups

From the group list, press <Options> to access the following options:

- **View members:** display the members of the selected group.
- **Add group:** add a new group.
- **Rename group:** change the name of the group.
- **Delete:** delete the selected group or all groups. Group members, however, will not be deleted from Phonebook.
- **Send message:** send an SMS, i-mail, or i-MMS message to the members of the selected group.

My contact details (Menu 2.5)

Use this menu to create your name card and send it to other people.

Saving your name card

The procedure for creating your name card is the same as the one for saving a number in Phonebook.

▶ p. 27

Using name card options

After saving your name card, press **<Options>** to access the following options:

- **Edit**: edit the name card.
- **Send message**: send the name card via i-mail or Bluetooth.
- **Delete**: delete the name card.

Copy all *(Menu 2.6)*

Use this menu to copy all of the contacts stored on the USIM/SIM card to the phone's memory, or vice versa.

Phonebook settings *(Menu 2.7)*

Use this menu to change the default settings for Phonebook.

Speed dial *(Menu 2.7.1)*

Use this menu to assign a speed dial number (2 to 9) to 8 of your most frequently called numbers.

Assigning speed dial entries

1. Select a key location from **2** to **9**. Key **1** is reserved for your voicemail server.
2. [Select a contact from the contact list.](#)
3. Select a number you want.

Managing speed dial entries

From the Speed dial screen, press **<Options>** to access the following options:

- **Assign**: assign a number to an unassigned key.
- **View**: check the name and number assigned to a key.
- **Call**: make a voice call to the selected number.
- **Change**: assign a different number to a key.
- **Remove**: clear the speed dial setting for a key.

Dialling speed dial entries

In Idle mode, press and hold the appropriate key.

Sort contacts by *(Menu 2.7.2)*

Use this menu to change the sort order of the contact list.

Save new contacts to *(Menu 2.7.3)*

Use this menu to select the default memory location for saving contacts. If you select **Ask each time**, the phone will ask you to select a memory location each time you save a new number.

View contacts in *(Menu 2.7.4)*

Use this menu to set the memory location which Phonebook show entries from.

Own number *(Menu 2.7.5)*

Use this feature to check your phone numbers, or to assign a name to each of the numbers. Changes made here do not affect the actual subscriber numbers on your USIM/SIM card.

Memory status *(Menu 2.8)*

Use this menu to check the number of contacts you have stored in the phone's memory and on the USIM/SIM card.

Service number *(Menu 2.9)*

Use this menu to view the list of Service Dialling Numbers (SDN) assigned by your service provider, including emergency numbers, directory enquiries, and voicemail server numbers. This menu is available if your USIM/SIM card supports SDN.

1. Scroll to the number you want.
2. Press <**Dial**> or [****].

Media player *(Menu 3)*

Use this menu to enjoy media files, such as music files or video clips.

To access this menu, press [**OK**] in Idle mode and select **Media player**.

Downloading or receiving music files

You can play the following types of files from the phone's memory.

- Music: MP3, AAC, M4A, MMF
- Video: MP4, 3GP

Use these methods to save music or video clips to your phone's memory:

- Download from the wireless web ► p. 37
- Download from a computer using Samsung PC Studio ► Samsung PC Studio User's Guide
- Receive via an active Bluetooth connection ► p. 65

The downloaded or received files are stored in the **Sounds** or **Videos** folder. ► p. 48

Music *(Menu 3.1)*

Use this menu to play music files. You first need to save music files in the phone's memory.

Creating a play list

Add music files to your play list.

On the Play list screen:

1. Press <**Options**> and select **Add** → **Folder** or **Files**.
2. If you select **Folder**, select a folder and press <**Select**>. If you select **Files**, select the files you want and press <**Add**>.

On the My music screen:

1. Press [Left] or [Right] to move to the My music screen.
2. Scroll to the file you want.
3. Press <Options> and select **Add to play list**.

Playing music files

1. From the play list, press <Options> and select **Play via**.
2. Select **Phone** to use the phone speaker.
Select **A/V headset** to use a Bluetooth headset and then search for and connect to the headset.

During playback, use the following keys:

Keys	Function
OK	Pauses or resumes playback.
Left	Moves back to the previous file.
Right	Skips to the next file.
Up	Opens the play list.
5	Change the playback animation.
#	Changes the display mode.
▲/▼	Adjusts the volume.

Using music player options

During playback, press <Options> to access the following options:

- **Transfer to A/V headset/Transfer to phone:** switch the sound output to the Bluetooth headset or the phone speaker.
- **Open play list:** open the play list.
- **Show controller/Hide controller:** display or hide the controller image of Media player.
- **Details:** access the file details.
- **Player settings:** change the default settings for playing music files.

Repeat: select a repeat mode.

Shuffle: set the Media player to play music at random.

Volume: select a volume.

Visualiser: set whether or not the visualiser of Media player displays.

Visualiser skin: change the playback animation.

- **Hide controller:** display or hide the controller image of Media player.

Editing the play list

1. On the play list, press <Options> to access the following options for editing the play list:
 - **Add:** add files to the play list.

- **Remove:** remove the selected file or all files from the play list.
 - **Move in play list:** move the selected file to the position you want within the play list.
2. When you have finished, press <**Options**> and select **Play via** → sound output mode to begin playback.

Videos (Menu 3.2)

Use this menu to play video clips. For details about creating a play list and playing video clips, refer to the **Music** menu.

Playing video clips

From the play list, select a file.

During playback, use the following keys:

Keys	Function
OK	Pauses or resumes playback.
Left	Moves back to the previous file. Goes backward in a file when held down.
Right	Skips to the next file. Skips forward in a file when held down.
Up	Opens the play list.
▲/▼	Adjusts the volume.

Using video player options

During playback, press <**Options**> to access the following options:

- **Stop/Play:** stop or begin playback.
- **Open play list:** open the play list.
- **Show controller/Hide controller:** display or hide the controller image of Media player.
- **Details:** access the file details.
- **Player settings:** change the default settings for playing video clips.
 - Repeat:** select a repeat mode.
 - Shuffle:** set the Media player to play video clips at random.
 - Volume:** select a volume.
 - Hide controller:** display or hide the controller image of Media player.
- **Streaming settings:** activate one of the streaming servers.

Editing the play list

1. On the play list, press <**Options**> to access the following options for editing the play list:
 - **Add:** add files to the play list.
 - **Remove:** remove the selected file or all files from the play list.
 - **Move in play list:** move the selected file to the position you want within the play list.
2. When you have finished, press <**Options**> and select **Play**.

Messages *(Menu 4)*

Use the **Messages** menu to send and receive short text messages. You can also use voicemail and cell broadcast message features.

To access this menu, press [OK] in Idle mode and select **Messages**.

Create message *(Menu 4.1)*

Short Message Service (SMS) allows you to send or receive text messages.

- ☒ The maximum number of characters allowed in a short message varies by your service provider. If your message exceeds the maximum number of characters, the phone will split the message.

1. Enter your message.

Press <**Options**> and select **Insert** to add a text template, contact number, or bookmark to text.

You can use the copy and paste feature to quickly and easily enter text. ► p. 39

2. When you have finished, press [OK].
3. Enter a destination number.

To send the message to more than one recipient, fill in additional destination.

4. Press [OK] to send the message.

My messages *(Menu 4.2)*




Use this menu to access text messages you have received, sent, failed to send.

Inbox *(Menu 4.2.1)*

This folder stores all of the text messages you have received.

Viewing a message

The following icons are available on the message list, depending on the message type:

-  SMS
-  Voicemails
-  CB messages from your service provider

Using message options

While viewing a message, press <**Options**> to access the following options:

SMS messages

- **Reply**: reply to the sender.
- **Forward**: forward the message to other people.
- **Save contact to**: extract phone numbers from the message and save them in Phonebook.
- **Move to SIM/Move to phone**: move the message between the phone's memory and the USIM/SIM card.
- **Print via bluetooth**: print the message by connecting the phone to a printer via Bluetooth.

- **Delete:** delete the selected message or all messages.

Voicemails

- **Connect:** connect to the voicemail server.
- **Delete:** delete the selected voicemail or all voicemails.

CB messages

- **Call:** dial the number from which the message is sent.
- **Send message:** send a message to the sender.
- **Save contact to:** extract phone numbers from the message and save them in Phonebook.
- **Save:** save the message in the phone's memory.
- **Delete:** delete the message.

Drafts (Menu 4.2.2)

This folder stores messages you have saved to send them at a later time while creating the message.

When you select a message, it opens in Edit mode so that you can edit and send the message.

Sentbox (Menu 4.2.3)

This folder stores messages that you have sent successfully.

Viewing a message, press <**Options**> to access the following options:

- **Forward:** forward the message to other people.

- **Move to phone/Move to SIM:** move the message between the phone's memory and the USIM/SIM card.
- **Print via bluetooth:** print the message by connecting the phone to a printer via Bluetooth.
- **Delete:** delete the message.

Voice mail (Menu 4.3)

Use this menu to access the voicemail server.

Templates (Menu 4.4)

Use this menu to preset frequently used text messages.

1. Select an empty location.
2. Enter your message.
3. Press [**OK**] to save the message.

From the text template list, press <**Options**> to access the following options:

- **Edit:** edit the template.
- **Send:** send the template via SMS.
- **Add new:** add a new template.
- **Delete:** delete the selected template or all templates.

Delete all (Menu 4.5)

Use this menu to delete all of the text messages or CB messages.

1. Press **[OK]** to select the message folders you want.
2. Press **<Delete>**.
3. Press **<Yes>** to confirm the deleting.

Message settings (Menu 4.6)

Use this menu to set up various options for using messaging service.

SMS (Menu 4.6.1)

You can configure the default SMS settings.

- **Settings x:** set up the SMS server properties.

The following properties are available:

Centre address: store or change the number of the SMS server.

Expiration: set the length of time your messages are stored in the SMS server.

Default type: set the default message type. The network can convert messages into the selected format.

Name: enter a profile name.

- **Sending options:** set up the options for sending SMS messages:

Reply path: allow recipients to reply to you through your SMS server.

Delivery report: set the network to inform you when your messages have been delivered.

Network selection: select a preferred data transmission method, either GSM (CS) or GPRS (PS) network.

Keep a copy: leave the copies of your messages in the **Sentbox** folder after sending.

Character support: select a character encoding type. If you select **Automatic**, the phone switches the encoding type from GSM alphabet to Unicode if you enter a Unicode character. Use of Unicode encoding will reduce the maximum of number in a message to about half. If this menu is not shown, your phone provides the automatic encoding by default.

Voice mail (Menu 4.6.2)

You can store or change the number of the voicemail server.

Broadcast (Menu 4.6.3)

Use this menu to change the settings for the broadcast message service.

- **Receive:** enable or disable the reception of broadcast messages.
- **Channel list:** specify the channels from which you receive broadcast messages.
- **Language:** select the language(s) in which broadcast messages display.

Memory status (Menu 4.7)

Use this menu to view the memory status for SMS and cell broadcast messages.

i-mode (Menu 5)

In this menu, you can use the i-mode browser, send or receive i-mode mail and MMS message, and access Java applications.

To access this menu, press <**Menu**> in Idle mode and select **i-mode**. You can also quickly access this menu by pressing <**i-mode**> in Idle mode

i-Menu (Menu 5.1)

Use this menu to access the i-mode browser. You can quickly launch the browser by pressing and holding [OK] in Idle mode.

About i-mode

In i-mode, browse through your favourite magazines, book tickets and hotels for your vacations, find your favourite club, download the best ringtones and games at the lowest price, send live e-mails with photographs. You can do all of these economically since with i-mode you are charged by the amount of data you send and receive, not by the length of time you are online.

Navigating the i-mode browser

To	Press
scroll through browser items	[Up] or [Down].
select an item	[OK].
return to the previous page	[Left] or [C].



- Key operations on an i-mode screen depend on the screen contents at that time.
- You can answer a call while using the i-mode feature. After ending the call, the display returns to the function screen you were using.


Using browser options

From any web page, press <**Options**> to access the following options; If necessary, select **Browser Menu**:

- **Add Bookmark**: add a bookmark for the current page.
- **Save Page**: save the URL address of the current page.
- **Save Image**: save images from the current page.
- **Show Properties**: access the properties for the i-mode browser.
- **Bookmarks**: access the bookmark list.
- **Go to Webpage**: enter a URL address or select one from the Address history list.

- **Saved Page List:** access the list of the URL addresses you have saved.
- **Browser Settings:** change the settings for the i-mode browser to suit your preferences. ► p. 44
- **i-Menu:** access the homepage of your service provider.
- **Home:** return to the homepage.
- **Reload:** update the current page.
- **Compose Mail:** send the URL address of the current page via i-mail or i-MMS.
- **Save in Phonebook:** save the selected phone number or e-mail address to Phonebook.
- **Play Animation:** play animations on the current page.

Exiting the i-mode browser

To exit the browser at any time, press [].

Mail (Menu 5.2)

Use this menu to use i-mail and i-MMS messaging services. You can quickly access this menu by pressing <i-mail> in Idle mode

Compose iMail (Menu 5.2.1)

You can create and send a mail, attaching various types of media files.

Creating and sending an i-mail

1. Select the **Destination** field.
2. Enter a phone number or e-mail address and press [OK].
3. Select the **Title** field.
4. Enter the mail title and press [OK].
5. Select the attachment field.
6. Use the following options to add files:
 - **Attach File:** add images, sounds, videos, music files, name cards, or schedule items.
- **Attach Melody:** add MFi (Melody Format for i-mode) melody files.
- **Attach Bookmark:** add URL addresses you have bookmarked.



According to the Digital Rights Management (DRM) system, web content may not be able to forwarded.

You can delete or preview the added items by selecting **Delete Attachment** or **Play/Display File**.

7. Select the **Text** field.
8. Enter the mail text and press [OK].

To insert pictograms into text, press <Options> and select **Pictographic**.

You can use the Copy and Paste feature to quickly and easily enter text. ► next section
9. When you have finished, select **Send** to send the mail.

Copying and pasting text

1. While entering text in a mail, place the cursor where you wish.
2. Press <**Options**> and select **Copy**.
3. Press <**Copy On**>.
4. Highlight the text as you want by pressing the Navigation keys and press [OK].
5. Select **Copy** to copy the highlighted text.
You can also copy all text in the message by selecting **Copy all**.
6. Place the cursor where you want to paste the copied text.
7. Press <**Options**> and select **Paste**.

Using mail options

While creating a mail, press <**Opt.**> access the following options:

- **Send**: send the mail.
- **Save**: save the mail in the Draft box.
- **Add Address**: add destination numbers or addresses.
- **Address Menu**: edit destination number or addresses. You can change the selected number or address to another, or change an address type (To, Cc, Bcc).
- **Attach File Menu**: add media files, name cards, schedule items, or bookmarks.

- **Attach Signature**: attach your signature, as specified in the **Edit Signature** option of **Mail settings**.
- **Delete Body**: delete the body of the mail.
- **Delete Mail**: cancel composing the mail.

Compose iMMS (Menu 5.2.2)

Using Multimedia Message Service (MMS), you can send and receive i-MMS messages containing a combination of text, image, video, and audio, from phone to phone or from phone to e-mail.

Creating and sending an i-MMS message

1. Select the **Destination** field.
2. Enter a phone number or e-mail address and press [OK].
3. Select the **Title** field.
4. Enter the message title and press [OK].
5. Select the **SMIL** field.
6. Use the following options for creating an SMIL slide:
 - **Media**: add text, images, sounds, or videos.

☒ According to the Digital Rights Management (DRM) system, web content may not be able to forwarded.
 - **Image Fit Mode**: select the size in which the image displays.
Hidden: the image displays in its actual size.

Fill: the image is scaled to fit into the display area.

Meet: the image is scaled so that the longer side, either the height or width, fits the corresponding side of the display area.

Slice: the image is scaled so that the shorter side, either the height or width, fits the corresponding side of the display area.

- **Play Timing:** change the display time for each item in the message, such as a slide, text, image, or audio clip.
- **Slide Format:** customise slide settings.

Text Color: select a colour for the message text.

Background Color: select a colour for the slide background.

Resize Region: change the size of the image area. Press [Up] or [Down] to move the border line.

Switch Positions: switch the order of the added image and text.

- **Slides:** add or delete slides.

Add: add a new slide after the currently selected slide. Once you have added slides, you can scroll between them by pressing [Left] or [Right].

Insert: insert a new slide before the currently selected slide.

Delete: delete the selected slide.

Clear: clear the content of the selected slide.

7. When you have finished, on the slide preview screen, press <Opt.> and select **Send** to send the message.

Using message options

While creating an i-MMS message, you can access a variety of options by pressing <Opt.>. ► p. 39

Inbox (Menu 5.2.3)

Use this menu to access i-mails and i-MMS messages you have received.



When the Inbox reaches its maximum limit, new i-mails or i-MMS messages will overwrite old messages that have already been read.

Viewing a message

1. Select a folder.
2. Select a message.
3. Press [Left] or [Right] to scroll through slides.

Using message options

While viewing an i-mail or i-MMS message, press <Opt.> to access the following options:

- **Reply:** send a reply to the sender or all of the recipients of the message. You can also a reply with the message included.
- **Forward:** forward the message to other people.
- **Move:** move the message to another folder.
- **Delete:** delete the message.

- **Protect On/Off:** protect the message from being deleted.
- **Save in Phonebook:** save the sender's address or phone number to Phonebook.
- **Save Melody:** save the MFi (Melody Format for i-mode) melody files attached to the message.
- **Save Attachment:** save the attached files in the phone's memory.
- **Copy:** copy the message title or sender's address. You can also copy the text of the mail.
- **Play SMIL:** play the SMIL slides of an i-MMS message automatically.
- **Browse SMIL:** play the SMIL slides of an i-MMS message manually. Press [Left] or [Right] to move to the next slide.

On the message list, press <Menu> to access the following options:

- **Move:** move the selected message to another folder.
- **Delete:** delete the selected message.
- **Selective Delete:** delete the messages you select.
- **Delete All:** delete all messages.
- **Protect On/Off:** protect the message from being deleted.
- **Sort:** sort messages by title, address, or date.
- **Filter:** set messages to be displayed by the selected filter.

Sent (Menu 5.2.4)

Use this menu to access the i-mails and i-MMS messages you have sent.

While viewing a message, press <Opt.> to access the following options:

- **Edit:** edit the message and then send it.
- **Delete:** delete the message.
- **Protect On/Off:** protect the message from being deleted.
- **Save in Phonebook:** save the sender's address or phone number to Phonebook.
- **Copy:** copy the message's title or sender's address.
- **Play SMIL:** play the SMIL slides of an i-MMS message automatically.
- **Browse SMIL:** play the SMIL slides of an i-MMS message manually. Press [Left] or [Right] to move to the next slide.

On the message list, press <Opt.> to access the following options:

- **Edit:** edit the message.
- **Delete:** delete the selected message.
- **Selective Delete:** delete the messages you select.
- **Delete all:** delete all messages.
- **Protect On/Off:** protect the message from being deleted.

- **Sort:** sort messages by title, address, or date.
- **Filter:** set messages to be displayed by the selected filter.

Draft (Menu 5.2.5)

Use this menu to access i-mails and i-MMS messages you have saved before sending.

When you select a message in the Draft box, the message opens in Edit mode so that you can edit and send the message.

Check New Mail (Menu 5.2.6)

Use this menu to check the i-mode centre for new i-mails and i-MMS messages and then retrieve them to the phone.

Mail Settings (Menu 5.2.7)

Use this menu to change the various settings for sending and receiving i-mails and i-MMS messages.

- **Communication:** change the settings for sending or receiving messages.
 - Auto Receive:** set the phone to retrieve new messages from the i-mail server as soon as they arrive at the server.
 - Selected Retrieval:** select the server from which you want to receive i-mails or i-MMS messages.
 - Receivable Files:** select the types of attachments you want to receive.

- **Edit:** change the insert settings.
 - Edit Signature:** enter a tag line to be inserted at the end of your message. If you select **Auto Attach**, the signature will be automatically attached to all of your outgoing messages.

Edit Quotation: enter characters or words to be inserted at the start of your original mail when you reply to or forward a message.

- **View:** change the view settings.
 - Screen Scroll:** select the number of lines a message displays.

Font Size: select a font size to be used for displaying messages.

List Display: select the number of lines and the type of information, for example, subject or address, to be displayed on the list.

Folder Security: locks message folders to protect them from unauthorised viewing.

Auto Play: set a sound, video, or SMIL slide to be automatically played when you open a message.

Pasted Data: set MFi (Melody Format for i-mode) melody files or links to java resources to be inserted when you are creating a message. The added data, however, will be sent as a data format attachment.

- **Check Settings:** check your current mail settings.

- **Reset Settings:** restore the default settings.
- **Check Storage:** check the total amount of memory and the amount of memory currently in use in each message folder.

Java (Menu 5.3)

Use this menu to download and play games and Java applications from various sources using the i-mode browser.

On the Java application list, press <Opt.> to access the following Java system options:

- **Create Folder:** create a folder
- **Delete Folder:** delete the selected folder.
- **Rename Folder:** change the name of the folder.
- **Move:** move the selected Java application into another folder.
- **Upgrade:** update the selected Java application.
- **Delete:** delete the selected Java application.
- **Delete All:** delete all Java applications.
- **Sort:** sort Java applications by name, time, used memory.
- **Properties:** access the properties of the Java application.
- **Certificate:** access the application certificate.
- **Network Setting:** select whether or not the Java application connects to the network when it runs, if the selected one is an online application.

- **Auto Invoking Setting:** select whether or not the Java application launches automatically when selected.
- **Show Desc Setting:** set whether or not the description of a Java application is displayed before downloading.
- **Auto Invoking Failure:** set whether or not the Java application launches automatically after the launch fails.
- **Trace Info.:** access trace information for a Java application.
- **System Info:** access system information for a Java application.

SMS (Menu 5.4)

Use this menu to create and send text messages.

► p. 34

Bookmarks (Menu 5.5)

Use this menu to access URL addresses of websites you have bookmarked while navigating the wireless web.

Press <Opt.> to access the following options:

- **Go To:** go to the bookmarked page.
- **Edit:** edit the selected bookmark.
- **Delete:** delete the selected bookmark.
- **Selective Delete:** delete the messages you select.
- **Delete All:** delete all bookmarks.

- **Show Address:** display URL addresses you have bookmarked.
- **Copy Address:** copy the URL address of the bookmark.
- **Compose Mail:** send the bookmark via i-mail or i-MMS.

Go to Webpage (Menu 5.6)

Use this menu to access a specific website by manually entering a URL address or selecting one from the Address history list.

Saved Pages (Menu 5.7)

Use this menu to access the list of the web pages you have saved.

While viewing a page, press <Opt.> to access the following options:

- **Save Image:** save images from the current page.
- **Show Properties:** access various page and server properties.
Address: access the URL address of the current page.
Page Properties: access the properties of the current page.
Certificates: access the server certificate.
- **Play Animation:** play animations on the current page.

- **Edit Title:** change the title of the page.
- **Delete:** delete the page.
- **Protect On/Off:** protect the page from being deleted.

On the page list, press <Opt.> to access the following options:

- **View:** open the selected page.
- **Edit Title:** change the title of the currently selected page.
- **Delete:** delete the selected page.
- **Selective Delete:** delete the messages you select.
- **Delete All:** delete all saved pages.
- **Show Address:** display the address of the current page.
- **Protect On/Off:** protect the page from being deleted.

Browser Settings (Menu 5.8)

Use this menu to change the settings for the i-mode browser to suit your preferences.

- **Home:** enable or disable the homepage of the i-mode browser.
- **View:** change the view settings for text and display on web pages.
Font Size: select a font size to be used for displaying text on web pages.

Images: set whether or not the phone displays images on web pages.

Table Layout: select a layout for the web page.

Wrap Text: set whether the phone wraps text on web pages to fit your phone's display, or displays text as it is on the web page.

CSS: set whether or not the phone uses a style sheet for presenting documents on web page.

Screen Scroll: select the number of lines the web page displays.

- **Certificates:** view the list of server certificates you have received while navigating the wireless web, or switch the selected certificate from valid to invalid, or vice versa.
- **Others:** change other settings.

Connection Timeout: set the phone to disconnect from the network after a specified length of time of inactivity.

Send Terminal Info: set whether or not the phone sends its information to the web server while navigating the wireless web.

Auto Play: set whether or not the phone automatically plays videos after download.

- **Check Settings:** check your current settings.
- **Reset Settings:** restore the default settings.
- **Reset Data:** reset data you have downloaded.

File manager *(Menu 6)*

The **File manager** menu allows you to access and manage images, videos, music files, sound files, and documents stored in the phone's memory.

To access this menu, press [OK] in Idle mode and select **File manager**.



- According to the Digital Rights Management (DRM) system, web content may not be able to be forwarded. They are indicated by .
- Your service provider supports only count-based or unlimited-access DRM files.

Images

This menu displays photos you have taken and images you have downloaded, received in messages, or imported from your computer. You can also store SWF (flash animation) files you have downloaded from the i-mode browser.



- You cannot move or copy SWF files stored here to another folder or a memory card, and cannot send or receive them to/from other people.

Viewing an image

1. Scroll to an image folder.
2. Select an image.

Viewing a slide show

You can view your images as a slide show, a sequential presentation of each image in the current folder.

1. Select an image.
2. Press **<Options>** and select **Slide show**.
3. Press **<Play>**. The slide show begins.
4. Press **<Stop>** to stop the slide show.

Editing an image

1. Select an image.
2. Press **<Options>** and select **Edit**.
3. Press **<Options>** to access the following editing options:
 - **Save as:** save the image as a different name.
 - **Effects:** change the colour tone or apply a special effect.
 - **Frames:** apply a decorative frame.
 - **Insert image:** add an image clip.
 - **Insert text:** enter text.
 - **Rotate:** rotate the image 90 degrees clockwise or counterclockwise.
 - **Flip:** flip the image vertically or horizontally.
4. Press **<Options>** and select **Save as**.
5. Enter a name for the image and press **<Save>**.

Printing an image

You can print your photos via a Bluetooth connection.

1. Select an image.
2. Press **<Options>** and select **Print via bluetooth**.
3. Search for Bluetooth-compatible printers.
▶ p. 64
4. Select the printer you want and press **<OK>** to print it.

Using image options

While viewing an image, press **<Options>** to access the following options:

- **Send:** send the selected file via Bluetooth, i-mail, or i-MMS.
- **Set as:** set the file as wallpaper for the display or as a caller ID image for a Phonebook entry.
- **Real size:** display the file in the real size.
- **Slide show:** view all images as a slide show.
- **Edit:** edit the file and save it as a different name. ▶ p. 46
- **Details:** access the file details.
- **Print via bluetooth:** print the image via a Bluetooth-compatible printer.

From the image list, press **<Options>** to access the following options:

- **View:** open the selected file.
- **Send:** send the selected file via Bluetooth.
- **Set as:** set the file as wallpaper for the display or as a caller ID image for a Phonebook entry.
- **Move:** move the file to another folder.
- **Delete:** delete the file or all files.
- **Rename:** change the file name.
- **Lock/Unlock:** lock the file to prevent it from being deleted, or unlock the file.
- **Create folder:** add a new folder.
- **Share for bluetooth:** share the selected file or all files with other Bluetooth devices.
- **Print via bluetooth:** print the image via a Bluetooth-compatible printer.
- **Details:** access the file details.

Taking a photo with a frame

You can take a photo with a frame in the **Frames** folder.

1. Scroll to the **Frames** folder.
2. Press **<Options>** and select **Take photo**.

Videos

This menu displays video clips you have recorded, downloaded, received in messages, or imported from your computer.



Video clips recorded on other devices, such as camcorders, may not play properly.

Playing a video clip

1. Scroll to a video folder.
2. Select a video clip. ► p. 33

Using video options

From the video list, press **<Options>** to access the following options:

- **Play:** play the selected file.
- **Send:** send the selected file via Bluetooth.
- **Move:** move the file to another folder.
- **Delete:** delete the file or all of the files stored in the folder.
- **Rename:** change the name of the file.
- **Lock/Unlock:** lock the file to prevent it from being deleted, or unlock the file.
- **Create folder:** create a new folder.
- **Share for bluetooth:** share the selected file or all files with other Bluetooth devices.
- **Details:** access the file details.

Sounds

This menu displays voice memos you have recorded, and sound files you have downloaded, received in messages, or imported from your computer.

Playing a sound clip

1. Scroll to a sound folder.
2. Select a sound clip. The Media player opens and the selected sound plays. ▶ p. 33

For a voice memo, see **Voice recorder**. ▶ p. 50

Using sound options

From the sound list, press <**Options**> to access the following options:

- **Play**: play the selected file.
- **Send**: send the selected file via Bluetooth.
- **Set as**: set the file as your call ringtone or as a ringtone for a Phonebook entry.
- **Move**: move the file to another folder.
- **Delete**: delete the file or all of the files.
- **Rename**: change the name of the file.
- **Create folder**: create a new folder.
- **Lock/Unlock**: lock the file to prevent it from being deleted, or unlock the file.
- **Share for bluetooth**: share the file or all files with other Bluetooth devices.
- **Details**: access the file details.

Other files

Files that you have received but which are not supported by your phone are stored in this folder. You cannot open these files on the phone.

Viewing a file

1. Scroll to a document folder.
2. Select a file. Picstel File Viewer runs to open the document.



- Depending on the file size or memory capacity of Picstel File Viewer, a file may not open properly.
- If a document file contains languages unsupported by Picstel File Viewer, the content of the document will not display correctly.

Use the following keys to view the document:

Key	Function
Up/Down/ Left/Right	Moves around the page.
▲/▼	Zooms in or out.
OK	Fits the document to the page size.
2	Returns to the first page.
4	Returns to the previous page.
5	Rotates the document.
6	Moves to the next page.

Key	Function
8	Moves to the last page.
*	Changes the display to Full screen view or Normal screen view.

Using document options

While viewing a document, press <**Options**> to access the following options:

- **Full screen view/Normal view:** change the display to Full screen view or Normal screen view.
- **Zoom:** zoom in or out.
- **Fit to:** fit the document to the page size, screen width, or screen height.
- **Go to:** move to another page of the document.
- **Rotate:** rotate the document.
- **Screen panning/Normal panning:** change the panning mode to by screen or by preset pixel.
- **Send:** send the file via i-mail, i-MMS, or Bluetooth.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **Lock/Unlock:** lock the file to prevent it from being deleted, or unlock the file.
- **Details:** access the file details.
- **Shortcuts:** view the functions of the keys you can use in Pícel File Viewer.

From the document list, press <**Options**> to access the following options.

- **View:** open the selected file.
- **Send:** send the file via Bluetooth.
- **Move:** move the file to another folder.
- **Delete:** delete the file or all of the files stored in the folder.
- **Rename:** change the name of the file.
- **Lock/Unlock:** lock the file to prevent it from being deleted, or unlock the file.
- **Create folder:** create a new folder.
- **Share for bluetooth:** share the file or all files with other Bluetooth devices.
- **Details:** access the file details.

Memory status

Use this menu to view memory information for media files in the phone's memory.

Organiser & Tools (Menu 7)

The Organiser & Tools feature enables you to use various applications, alarms, and calendar.

To access this menu, press **[OK]** in Idle mode and select **Organiser & Tools**.

Applications (Menu 7.1)

Use this menu to record voice memos, to use several convenient applications, such as voice recorder, calculator, converter, or world clock.

Voice recorder (Menu 7.1.1)

Use this menu to record voice memos. A voice memo can be up to 30 minutes long.

Changing the recording mode

You can change the recording mode of the voice recorder. The maximum recording time is determined by this setting. Before recording a memo, press **<Options>** and select **Record settings** → **Recording time** → a recording mode.

Recording a voice memo

1. Press **[OK]** to start recording.
2. Speak into the microphone.
Press **[OK]** to pause or resume the recording.
3. Press **[Down]** or **<Stop>** to end recording. The voice memo is saved automatically.

4. Press **[OK]** to switch to Record mode, or press **[Up]** to switch to Review mode.

Playing a voice memo

1. From the voice recorder screen, press **<Options>** and select **My sounds**.
2. Scroll to the **Voice list** folder and select a voice memo. The voice memo plays.

During playback, use the following keys:

Keys	Description
OK	Pauses or resumes playback.
Left	Moves backward in a memo when held down.
Right	Moves forward in a memo when held down.
▲/▼	Adjusts the volume.
Down	Stops playback.

Calculator (Menu 7.1.2)

Use this menu to perform basic arithmetic functions such as addition, subtraction, multiplication, and division.

1. Enter the first number.
 - Press **<.0>** to insert a decimal point or brackets.
 - Press **[*]** or **[#]** to move the cursor.
2. Enter the operation for your calculation by pressing one of the Navigation keys.

3. Enter the second number.
4. Press **[OK]** to view the result.
5. If necessary, repeat from step 2 to continue the calculation.

Converter *(Menu 7.1.3)*

Use this menu for common conversions, such as currency and temperature.

Performing a conversion

1. Select the converter type you want.
2. Press **[Left]** or **[Right]** to select the original unit and press **[Down]**.
3. Enter the value to be converted.
 - Press **[#]** to insert a decimal point.
 - Press **[*]** to change the temperature to above zero (+) or below zero (-).
4. Press **[Down]**.
5. Press **[Left]** or **[Right]** to select the unit you want to convert to.
The equivalent value for the amount you entered displays.

Using converter options

Press **<Options>** to access the following options:

- **Clear:** clear the current values.
- **Reverse:** reverse the conversion.
- **Currency rates:** display the currency rates list.

World clock *(Menu 7.1.4)*

Use this menu to set your local time zone and find out what time it is in another part of the world.

Setting your time zone

1. From the world map, press **[Left]** or **[Right]** to select the city that corresponds to your home time zone. As the time line moves, the time and date of the given zone display.
2. Press **[OK]** to save the time zone.

Viewing a foreign time zone

1. From the world map, press **[Down]**.
2. Press **[Left]** or **[Right]** to select the city you want to view.
3. Press **[OK]** to save the time zone.

Applying daylight savings time

1. From the world map, press **<Options>** and select **Daylight saving**.
2. Press **[OK]** to select the time zones you want.
3. Press **<Save>**.
4. Press **[OK]** to save the time zone.

Alarms *(Menu 7.2)*

Use this menu to set alarms to ring at specific times. The alert type for a normal alarm corresponds to the call alert type settings in the currently selected profile. A wake-up alarm is not affected by your profile setting.

Setting an alarm

1. Select the type of alarm.
2. Specify the following alarm settings:
 - **Alarm:** activate the alarm.
 - **Time:** enter the time for the alarm.
 - **Repeat:** (for wake-up alarm) select a repeat option.
 - **Alert tone:** select an alarm tone.
3. Press **<Save>** to save the alarm.

Stopping an alarm

When the alarm sounds, choose either of the following options to stop the alarm:

- For a non-wake-up alarm, press any key.
- For a non-wake-up alarm, press **<OK>** or **[OK]**. Press any key, except **<OK>** and **[OK]** to cause it to sound again after 6 minutes. You can do this a maximum of 5 times.

Deactivating an alarm

1. Select the alarm you want to deactivate.
2. Select **Off** on the **Alarm** line and press **[OK]**.

Setting the alarm to ring even if the phone is off

From the Alarms screen, select **Auto power** → **On**.

If the phone is off when it is time for the alarm to ring, the phone switches on and sounds the alarm.

Calendar (Menu 7.3)

Use this menu to keep track of your schedule, anniversary, and task, to view missed alarm events, and to make memos.

Monthly view (Menu 7.3.1)

Use this menu to keep track of your monthly schedule.

When you select **Monthly view** to display the calendar, today's date is marked with a blue box.

Selecting a day

- Press **[Left]** or **[Right]** to move by day.
- Press **[Up]** or **[Down]** to move by week.

Using calendar options

Press **<Options>** to access the following options:

- **View:** display the events stored for the selected date.
- **Add new:** add a new scheduled event, anniversary, task, or memo.
- **Weekly view:** display the weekly view screen.
- **Go to today:** go to today's date.
- **Go to date:** enter a specific date.
- **Delete:** delete the selected event or all of scheduled events.

Entering a new scheduled event

1. Select a date on the calendar.
2. Press <**Options**> and select **Add new → Schedule**.
3. Enter information or change the settings:
 - **Title**: enter the title of the event.
 - **Details**: enter the event details.
 - **Start** and **End**: enter the starting time and ending time for the event.
 - **Start date** and **End date**: enter the starting date and ending date for the event.
 - **Location**: enter information about the event location.
 - **Alarm**: set an alarm for the event.
before: set how long before the event the alarm is to alert you.
 - **Repeat**: select to set the event to recur and a repeat unit.
until: if the event will recur, set the ending date.
 - **Expiry**: set when the event will be deleted from the calendar.
4. Press <**Save**> to save the event.

Entering a new anniversary

1. Select a date on the calendar.
2. Press <**Options**> and select **Add new → Anniversary**.
3. Enter information or change the settings:
 - **Occasion**: enter information about the anniversary.
 - **Date**: enter the date.
 - **Alarm**: set an alarm for the anniversary.
before: set how long before the event the alarm is to alert you.
alarm time: enter an alarm tone.
 - **Repeat every year**: set the phone to remind you of the anniversary every year.
4. Press <**Save**> to save the event.

Entering a new task





1. Select a date on the calendar.
2. Press <**Options**> and select **Add new → Task**.
3. Enter information or change the settings:
 - **Task**: enter information about the task.
 - **Start date**: enter the starting date.
 - **Due date**: enter the ending date.
 - **Priority**: select a priority level.
4. Press <**Save**> to save the event.

Entering a memo

1. Select a date on the calendar.
2. Press <Options> and select **Add new** → **Memo**.
3. Enter information:
 - **Memo**: enter the memo text.
 - **Date**: enter the date.
4. Press <Save> to save the memo.

Viewing an event

Once you have scheduled events, the following event icons appears to show the type of events.

- | | |
|--|---|
| •  Scheduled events | •  Anniversaries |
| •  Tasks | •  Memos |
1. Select a date on the calendar to display the events for the day.
 2. Select an event to view its details.
 3. Press [Up] or [Down] to scroll through the event details.

Using event options

From the event list, press <Options> to access the following options:

- **View**: display the event.
- **Add new**: add a new event, anniversary, task, or memo.
- **Completed/To do**: change the status of the event.

- **Monthly view**: switch to the monthly view screen.
- **Weekly view**: switch to the weekly view screen.
- **Change date/Change due date/Reschedule**: change the date of the event.
- **Send schedule/Send anniversary/Send task**: send the event via Bluetooth or i-mail.
- **Delete**: delete the event or all of events.
- **Send memo**: send the memo via SMS.



Weekly view (Menu 7.3.2)

Use this menu to view events for the selected week. A cell on the timetable indicates the presence of a schedule item. Select a cell in the day you want.



Daily view (Menu 7.3.3)

Use this menu to view events for the selected date. Select an event to view its details.

Schedule (Menu 7.3.4)

This menu displays all of the scheduled events you have created on the calendar. If you have set the Repeat or Alarm option, the  or  icon displays.

Anniversary (Menu 7.3.5)

This menu displays all of the anniversaries you have created on the calendar. If you have set the Repeat or Alarm option, the  or  icon displays.

Task (Menu 7.3.6)

This menu displays all of the tasks you have created on the calendar. The icons on the right indicate the importance: the lower the number on the icon, the higher the priority.

If the task has been completed, a check mark appears in the status check box.

Memo (Menu 7.3.7)

This menu displays all of the memos you have created on the calendar.

Missed event alarm (Menu 7.3.8)

When you are unable to acknowledge an alarm for a scheduled event, anniversary, or task, the phone stores an missed event alarm until you confirm it.

1. Select an event.
2. Press <**Confirm**> to confirm and delete the event.

SIM Tool Kit (Menu 7.4)

This menu is available if you use a SIM AT card that provides additional services, such as news, weather, sports, entertainment, and location services. Available services may vary, depending on your service provider's plans.

For details, see your SIM card instructions or contact your service provider.

Memory status (Menu 7.5)

Use this menu to access memory information for the event items stored on the calendar.

Camera (Menu 8)

You can use the camera module embedded on your phone to take photos and record videos.

To access this menu, press [OK] in Idle mode and select **Camera**.



- Do not take photos of people without their permission.
- Do not take photos in a place where cameras are not allowed.
- Do not take photos in a place where you may interfere with another person's privacy.

Take photo (Menu 8.1)

You can take photos in various modes. The camera produces JPEG photos.



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

1. Access the **Take photo** menu to turn on the camera.
2. Press [#] to switch between the camera lens on the front and back.

3. Adjust the image to be captured.
 - Press the left soft key to use the camera options. ► next section.
 - Use the keypad to change the camera settings or switch to other modes. ► p. 57
4. Press [OK] to take a photo. The photo is saved in the **Photos** folder.

☒ Hold the phone still for one or two seconds after pressing the camera shutter key to allow the image data to process.

To	Press
use photo options	<Options>. ► p. 57
return to Capture mode	<Back>.

Using camera options in Capture mode

In Capture mode, press <Options> to access the following options:

- **Record video:** switch to Record mode.
- **Shooting mode:** take a photo in the following modes:
 - Single shot:** take a photo in the normal mode. You can select whether or not the camera automatically saves a photo after taking it.
 - Multi shot:** take several action stills. You can select the number of still images the camera will take.

Mosaic shot: take several stills and save them in one frame. You can select the layout. Press [OK] to take each photo.

- **Effects:** change the colour tone of the image or apply a special effect.
- **Frames:** apply a decorative frame.
- **Flash:** determine the flash use.
- **Timer:** set a time delay before the camera takes a photo.
- **Brightness:** adjust the image brightness.
- **My photos:** access the **Photos** folder.
- **Settings:** change the default settings for taking a photo.

Size: select an image size.

Quality: select an image quality.

Viewfinder: select a preview screen mode.

Shutter sound: select the sound that you hear when you press the shutter release, [OK].

Multishot speed: select the shooting speed between each shot in Multi Shot mode.

Default name: change the default prefix of the file name.

- **Short cuts:** display the functions of the keys you can use in Capture mode.
- **Switch camera:** switch between the camera lens on the front and back.

Using the keypad in Capture mode

You can use the keypad to customise your camera settings in Capture mode.

Keys	Function
▲	Flips the image vertically.
▼	Shows the mirror image.
Left/Right	Adjusts the image brightness.
Up/Down	Zooms in or out.
1	Switches to Record mode. ► p. 57
2	Changes the image size.
3	Changes the image quality.
4	Changes the camera shooting mode.
5	Changes the colour tone or applies a special effect.
7	Selects a decorative frame.
8	Sets the timer.
9	Accesses the Photos folder.
*	Changes the preview mode.
0	Determines the flash use.
#	Switches between the camera lens on the front and back.

Using photo options

After saving a photo, press the left soft key to access the following options:

- **Take another:** return to Capture mode.
- **Send:** send the photo via i-MMS, i-mail, or Bluetooth.
- **Set as:** set the file as wallpaper for the display or as a caller ID image for a Phonebook entry.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **My photos:** access the **Photos** folder.
- **Details:** access the file details.

Record video (Menu 8.2)

You can use your phone just like a camcorder to record what is currently displayed on the camera screen and save it as a video file.

1. Access the **Record video** menu to turn on the camera.
2. Press [**#**] to switch between the camera lens on the front and back.
3. Adjust the image to be captured.
 - Press the left soft key to use the camera options. ► next section.
 - Use the keypad to change the camera settings or switch to other modes. ► p. 58

- Press **[OK]** to start recording.
Press **[OK]** to pause and resume the recording.
- When you have finished, press **<Stop>**. The video is saved in the **Videos** folder.

To	Press
play back	[OK] . ► p. 33
use video options	<Options> . ► p. 59
return to Record mode	<Back> .

Using camera options in Record mode

In Record mode, press **<Options>** to access the following options:

- Take photo:** switch to Capture mode.
- Effects:** change the colour tone of the image or apply a special effect.
- Flash:** determine the flash use.
- Timer:** set a time delay before the camera starts recording.
- Brightness:** adjust the image brightness.
- My videos:** access the **Videos** folder.
- Settings:** change the following settings for recording a video:

Recording mode: select a video recording mode. If you select **Limit for MMS**, you can record a video suitable for an i-MMS message.

Size: select an image size.

Quality: select an image quality.

Audio record: turn the audio on or off.

Default name: change the default prefix of the video name.

- Short cuts:** display the functions of the keys you can use in Record mode.
- Switch camera:** switch between the camera lens on the front and back.

Using the keypad in Record mode

You can use the keypad to customise your camera settings in Record mode.

Keys	Function
▲	Flips the image vertically.
▼	Shows the mirror image.
Left/Right	Adjusts the image brightness.
Up/Down	Zooms in or out.
1	Switches to Capture mode. ► p. 55
2	Changes the frame size.
3	Changes the image quality.
4	Changes the video recording mode.
5	Changes the colour tone or applies a special effect.

Keys	Function
7	Turns the audio on or off.
8	Sets the timer.
9	Accesses the Videos folder.
0	Determines the flash use.
#	Switches between the camera lens on the front and back.

Using video options

After saving a video clip, press <**Options**> to access the following options:

- **Play**: play back the video clip.
- **Record another**: return to Record mode.
- **Send**: send the file via i-MMS, i-mail, or Bluetooth.
- **Delete**: delete the file.
- **Rename**: change the file names.
- **My videos**: access the **Videos** folder.
- **Details**: access the file details.

Settings *(Menu 9)*

The **Settings** menu provides you with various setting options to customise the phone to your preferences and needs. You can also reset the settings to their default status.

To access this menu, press [**OK**] in Idle mode and select **Settings**.

Phone settings *(Menu 9.1)*

Many different features of your phone's system can be customised to suit your preferences.

Phone profiles *(Menu 9.1.1)*

Your phone provides you with sound profiles that allow you to quickly and easily change the sound settings of the phone for the different events or situations. Use this menu to adjust the properties of each profile and activate the profile you want.

Editing a profile

1. Scroll to the profile you want to edit.
2. Press <**Options**> and select **Edit**.
3. Change the sound settings:
 - **Call alert type**: select an alert type for the call ringer.
 - **Voice call ringtone**: select a ringtone for the call ringer of voice calls.
 - **V-call ringtone**: select a ringtone for the call ringer of video calls.

- **Tone volume:** adjust the volume for the call ringer.
- **Msg. alert type:** select an alert type for the message ringer.
- **Msg. alert tone:** select a ringtone for the message ringer.
- **Msg. alert repetition:** select if the phone repeats reminding you of a new message.
- **Phone sounds:** select the various sounds on the phone you want to turn on or off.

Popup box alerts: [set](#) the phone to beep when a pop-up window displays.

Minute minder: [set](#) the phone to beep every minute during an outgoing call to keep you informed of the length of your call.

Call connect tone: [set](#) the phone to beep when an outgoing call is connected to the system.

Call end tone: [set](#) the phone to beep when a call is disconnected by the other person or the faded signal.

Power on: [set](#) the phone to beep when you turn on the phone.

Sound effect: cause the phone to beep when you access a menu or an option list.

Folder open/close: [set the phone to sound when you open or close the phone.](#)

Alerts on call: set the phone to beep when you receive a new message or when the time for an alarm comes during a call.

- **Keytones:** select a tone which sounds when you press a key.
- **Keytone volume:** adjust the volume of the key tones.
- **Call answer mode:** (for Car) select how to answer an incoming call when the phone is connected to the Bluetooth headset or hands-free car kit.

4. Press **<Save>**.

Changing an active profile

[From the profile list, select the profile you want.](#)

Language *(Menu 9.1.2)*

Use this menu to select one of several languages for the display text or the T9 input mode.

Assign ringtone *(Menu 9.1.3)*

Use this menu to edit the currently active sound profile.

Shortcuts *(Menu 9.1.4)*

You can use the Navigation keys as shortcuts to access specific menus directly from Idle mode. Use this menu to assign a shortcut to a key.

Assigning a shortcut menu

1. Select a key to be used as a shortcut key.
2. Select the menu to be assigned to the key.
3. Press <Save>.

Using shortcut options

From the Shortcuts screen, press <Options> to access the following options:

- **Assign:** assign a shortcut menu to an empty location.
- **Change:** change a shortcut menu.
- **Remove:** deactivate the shortcut assignment to the selected key.
- **Remove all:** deactivate all shortcut assignments.

Time & Date (Menu 9.1.5)

Use this menu to change the current time and date displayed on your phone.

- **Date:** enter the current date.
- **Time:** enter the current time.
- **Time format:** select a 12-hour or 24-hour time format.
- **Date format:** select a date format.
- **Daylight saving:** apply daylight savings time to your time zone.
- **Start on Sunday:** set which day of the week the calendar starts with.

Slide settings (Menu 9.1.6)

Use this menu to set how the phone reacts when you open it for an incoming call, and when you close it while using a function.

- **Up:** set whether or not to answer a call by opening the phone.
- **Down:** set whether or not the phone maintains the menu you are using when you close the phone.

☒ When you set **Down** to **Continue operation**, the keypad lock works only in Idle mode.

Any key answer (Menu 9.1.7)

Use this menu to answer an incoming call by pressing any key, except for [⏏] and <Reject>.

Master reset (Menu 9.1.8)

Use this menu to reset the phone's settings you have changed and data you have saved in your phone.

1. Enter the phone password and press <Confirm>.

☒ The password is preset to 00000000. You can change this password. ▶ p. 67

2. Press <Yes>. The phone automatically turns itself off and then back on.

Display settings (Menu 9.2)

Use this menu to change the settings for the display and lighting.

Greeting message (Menu 9.2.1)

Use this menu to enter the greeting that is displayed briefly when the phone is switched on.

Wallpaper (Menu 9.2.2)

Use this menu to select a wallpaper image or video for the display.

Backlight time (Menu 9.2.3)

You can select the length of time the backlight or display stays on.

- **On:** select the length of time the backlight stays on in times of inactivity.
- **Dim:** select the length of time the display is in Dim mode after the backlight turns off. After a specific time, the display turns off.

LCD brightness (Menu 9.2.4)

Use this menu to adjust the display brightness.

Message settings (Menu 9.3)

Use this menu to change the default settings for using the message feature. ► p. 36

Call settings (Menu 9.4)

Use this menu to set options for call functions.

Show my number (Menu 9.4.1)

Use this menu to prevent your phone number from being displayed on the phone of the person being called. If you select **By network**, the phone will use the default setting provided by the network.

- ☒ Some networks do not allow the user to change this setting.

Diverts (Menu 9.4.2)

This network service reroutes incoming calls to a different phone number that you specify.

1. Select the type of calls to be diverted.
2. Select a call diverting option:
 - **Always:** divert all calls.
 - **Busy:** divert calls when you are on another call.
 - **No reply:** divert calls when you do not answer the phone.
 - **Not reachable:** divert calls when you are not in an area covered by your service provider or when your phone is switched off.
 - **Cancel all:** cancel all call diverting options.
3. Enter the number to which the calls will be diverted in the **Diverts to** line.

4. If you select **No reply**, move to the **Waiting time** line and select the length of time the network delays before diverting a call.
5. Press <**Options**> and select **Activate**.
To deactivate the call diverting, select **Deactivate**.

Barring (Menu 9.4.3)

This network service allows you to restrict your calls.

1. Select the type of calls to be barred.
2. Select a call barring option:
 - **All outgoing calls**: prohibit outgoing calls.
 - **Outgoing int'l calls**: prohibit international calls.
 - **Int'l call exc. Home**: only allow calls to numbers within the current country when you are abroad, and to your home country.
 - **All incoming calls**: prohibit incoming calls.
 - **Incoming calls when roaming**: prohibit incoming calls when you use your phone outside of your home country.
 - **Cancel all**: cancel all call barring settings, allowing calls to be sent and received normally.
3. Enter the call barring password supplied by your service provider in the **Password** line.



You can change the call barring password.
From the call type list, press <**Options**> and select **Change password**.

4. Press <**Options**> and select **Activate**.
To deactivate the call barring, select **Deactivate**.

Waiting (Menu 9.4.4)

This network service informs you when someone is trying to reach you while you are on another call.

1. Select the type of calls to which the call waiting option will apply.
2. Press <**Options**> and select **Activate**.
To deactivate the call waiting, select **Deactivate**.

Auto redial (Menu 9.4.5)

use this menu to make up ten attempts to redial a phone number after an unsuccessful call.

Video call settings (Menu 9.4.6)

Use this menu to change the default settings for using the video call feature.

- **Show me**: change the video camera settings for receipt of video calls.
- **Retry with**: set how to retry when the phone fails to make a video call. **If you select Camera, the phone will turn on the camera and switch to Record mode so that you can record a video and send it as an i-MMS message.**

Phonebook settings (Menu 9.5)

Use this menu to change the default settings for using the Phonebook feature. ► **p. 30**

Connectivity (Menu 9.6)

Use this menu to set options for connection available on your phone.

Bluetooth (Menu 9.6.1)

Using Bluetooth wireless, you can connect the phone wirelessly to other Bluetooth devices and exchange data with them, talk hands-free, or control the phone remotely.

Bluetooth technology allows free wireless connections between all Bluetooth-compliant devices within a range of 10 metres. Since the devices communicate using radio waves, they do not need to be in line of sight to each other.



- If there are obstacles between the devices, the maximum operation distance may be reduced.
- It is recommended that you do not use the Bluetooth feature while using multimedia features such as voice recorder, camera, and Media player, or vice versa.
- Some devices may not be compatible with your phone.

Setting up the Bluetooth feature

The **Bluetooth** menu provides the following options:







- **Activation:** activate or deactivate the Bluetooth feature.

- **My devices:** search for connectable Bluetooth devices. ▶ [next section](#)
- **My phone's visibility:** [set other Bluetooth devices to search for your phone.](#)
- **My phone's name:** assign a Bluetooth device name to your phone, which is then displayed on other devices.
- **Secure mode:** determine if the phone asks for your confirmation when other devices access your data.
- **Bluetooth services:** display available Bluetooth services.

Searching for and pairing with a Bluetooth device

1. From the Bluetooth setting options, select **My devices**.
2. Select **Search new devices** or press **<Search>**.

After searching, a list of devices to which you can connect displays. The following icons indicate the type of device:

- | | |
|---|--|
| •  Mobile phone | •  PDA |
| •  Computer | •  Printer |
| •  Hands-free car kit or headset | •  Unknown device |

The colour of the icon indicates the status of the device:

- Grey for unpaired devices
- Blue for paired devices
- Red for devices that are currently connected to your phone

3. Select a device.

4. Enter a Bluetooth PIN and press **<OK>**. This PIN is used just once and you don't need to memorise it.

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

- ☒ Some devices, especially headsets or hands-free car kits, may have a fixed Bluetooth PIN, such as **0000**. If the other device has one, you must enter the code.

Using device options

From the device list, press **<Options>** to access the following options:

- **Connect:** connect to a hands-free car kit or headset.
- **Disconnect:** end the connection with the hands-free car kit or headset.
- **Service list:** access available Bluetooth services.
- **Browse files:** search for data from the selected device and import data directly to your phone.

- **Rename:** change the name of the device.
- **Authorise device/Unauthorised device:** determine if the phone asks you to permit connection when other devices try to connect to your phone.
- **Delete:** delete the device or all devices from the device list.

Sending data via Bluetooth

1. Activate the Bluetooth feature.
2. Access the application, **Phonebook**, **File manager**, or **Calendar**, in which the item you want to send is stored.
3. Scroll to the item you want, or select the item.
4. Press **<Options>** and select a sending option (**Send/Send contact details/Send schedule/Send anniversary/Send task**) → **Via bluetooth**.

The phone searches for devices within range and displays a list of available devices.

5. Select a device.
6. If necessary, enter the Bluetooth PIN needed for pairing and press **<OK>**.

Receiving data via Bluetooth

1. [Activate the Bluetooth feature on the phone.](#)
2. [Set other Bluetooth devices to search for your phone.](#)

3. If an unauthorised Bluetooth device sends data to your phone, press **<Yes>** to allow the other device to access your phone.
4. To receive data, press **<Yes>**.

Select network (Menu 9.6.2)

Use this menu to select to either automatically or manually select the network used when roaming outside of your home area. You can select a network other than your home network only if there is a valid roaming agreement between the two.

Network mode (Menu 9.6.3)

Use this menu to select the network you use.

- **Automatic:** the phone scans for available networks.
- **GSM DCS 1800:** the phone operates in the GSM 1800 network.
- **GSM PCS 1900:** the phone operates in the GSM 1900 network. This option is only available in USA.
- **UMTS:** the phone operates in UMTS (3G network) networks. You can get a higher speed quality than on lower generation networks, and use advanced data and information services, such as video calls.

Security (Menu 9.7)

Use this menu to protect the phone against unauthorised use by managing the several access codes of your phone and the USIM/SIM card.

- ☒ If you enter an incorrect PIN/PIN2 three times in succession, the USIM/SIM card is blocked. To unblock it, you need to enter your PUK/PUK2 (Personal Unblocking Key). The codes are supplied by your network operator.

Phone lock (Menu 9.7.1)

Use this menu to lock the phone from unauthorised use.

When this feature is enabled, you must enter a 4- to 8-digit phone password each time the phone is switched on.

The password is preset to **00000000**. To change the password, use the **Change phone password** menu.

SIM lock (Menu 9.7.2)

This menu allows your phone to work only with the current SIM by assigning a SIM lock code. You must enter the SIM lock code to use a different USIM/SIM card.

PIN lock (Menu 9.7.3)

The 4- to 8-digit PIN (Personal Identification Number) protects your USIM/SIM card against unauthorised use. When this feature is enabled, the phone requires your PIN each time it is switched on.

i-mode lock (Menu 9.7.4)

Use this menu to lock the access to the i-mode browser.

Fixed dialling mode (Menu 9.7.5)

If supported by your USIM/SIM card, Fixed Dialling Number (FDN) mode restricts your outgoing calls to a limited set of phone numbers. When this feature is enabled, you can make calls only to phone numbers specified in the USIM/SIM card.

Change phone password (Menu 9.7.6)

Use this menu to change your phone password. The password is preset to **00000000**.

Privacy lock (Menu 9.7.7)

Use this menu to lock access to messages or media files.

1. Press **[OK]** to select the item you want to lock.
2. Press **<Save>** to lock the marked items.
3. Enter the phone password and press **<Confirm>**.

When a lock option is enabled, you must enter the phone password to access the locked items.

Change PIN code (Menu 9.7.8)

Use this menu to change your PIN. [The PIN check feature must be enabled to change the PIN.](#)

Change PIN2 code (Menu 9.7.9)

[If supported by your USIM/SIM card, use this menu to change your current PIN2.](#)

i-mode settings (Menu 9.8)

Use this menu to create and customise the i-mode profiles containing the settings for connecting your phone to the network. You need these settings to access the i-mode browser or send i-mails and i-MMS messages.

- ☒ Your phone is suited for connecting to the network by default. If you change the settings without first checking with your service provider, the i-mode browser, i-mail, and i-MMS features may not work properly.

1. Press **[Left]** or **[Right]** to select a profile in the **Select profile** line.
2. Specify each information:
 - **Profile name:** enter a profile name.
 - **Proxy host:** enter the host name of the proxy server for accessing the i-mode browser.
 - **Proxy port:** enter the port number of the proxy server for accessing the i-mode browser.

- **SSL port:** enter the port number of the SSL (Secure Sockets Layer) server.
- **Portal URL:** enter the URL address of the i-mode server.
- **Location Server URL:** enter the URL address of your network cell ID.
- **Mail Server:** enter the URL address of the i-Mail server.
- **MMS Server:** enter the URL address of the i-MMS server.
- **APN:** enter the access point used for the address of the GPRS network.
- **User ID:** enter the user ID required to connect to the GPRS network.
- **User password:** enter the password required to connect to the GPRS network.
- **Selective retrieval URL:** enter the URL address from which you want to receive i-mails or i-MMS messages.

3. Press <**Save**>.

Streaming settings *(Menu 9.9)*

Use this menu to set up and customise a connection profile for accessing streaming servers.

1. Press [Left] or [Right] to select a profile in the **Select profile** line.
2. Specify each information:
 - **Profile name:** enter a profile name.

- **Proxy host:** enter the host name of the proxy server for accessing the streaming server.
- **APN:** enter the access point name used for accessing the streaming server.
- **User ID:** enter the user ID required to connect to the GPRS network.
- **User password:** enter the password required to connect to the GPRS network.
- **Portal URL:** enter an portal URL address.

3. Press <**Save**>.

Solve problems

Help and personal needs

To save the time and expense of an unnecessary service call, perform the simple checks in this section before contacting a service professional.

When you switch on your phone, the following messages may appear:

"Please insert SIM card"

- Be sure that the SIM card is correctly installed.

"Phone lock"

- The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

"Enter PIN"

- You are using your phone for the first time. You must enter the PIN supplied with the SIM card.
- The PIN check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the **PIN lock** menu.


"Enter PUK"

- The PIN code was entered incorrectly three times in succession, and the USIM/SIM card is now blocked. Enter the PUK supplied by your service provider.


"No service," "Network failure," or "Not done" displays

- The network connection has been lost. You may be in a weak signal area. Move and try again.
- You are trying to access an option for which you have no subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialled

- Be sure that you have pressed [].
- Be sure that you have accessed the right cellular network.
- Be sure that you have not set an outgoing call barring option.

Your correspondent cannot reach you

- Be sure that your phone is switched on. ([] pressed for more than one second.)
- Be sure that you are accessing the correct cellular network.
- Be sure that you have not set an incoming call barring option.

Your correspondent cannot hear you speaking

- Be sure that you have switched on the microphone.
- Be sure that you are holding the phone close enough to your mouth. The microphone is located at the bottom of the phone.

The phone starts beeping and “Battery low” flashes on the display

- Your battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

- Check the signal strength indicator on the display (). The number of bars indicates the signal strength from strong () to weak ().
- Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialled when you re-call a Phonebook entry

- Use the Search Contact feature to ensure the number has been stored correctly.
- Re-store the number, if necessary.

The battery doesn't charge properly or the phone sometimes turns itself off

- Wipe the charging contacts both on the phone and on the battery with a clean soft cloth.

If the above guidelines do not help you to solve the problem, take note of:

- The model and serial numbers of your phone
- Your warranty details
- A clear description of the problem

Then contact your local dealer or Samsung after-sales service.

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 Counsel 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. Body-worn operations are restricted to Samsung-supplied, approved, or non- Samsung designated

accessories that have no metal and must provide at least 1.5 cm separation between the device, including its antenna (whether extended or retracted) and the user's body. Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

1900

- Head: 0.458 W/Kg.
- Body-worn: 0.653 W/Kg.

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. [This site uses the phone FCC ID number A3LSGHZ320i](#). Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

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

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using

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

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

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

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

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

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

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

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

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

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

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments

investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

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

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An

influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

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

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of

time spent using a wireless phone will reduce RF exposure.

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

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

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For

example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

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

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

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

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

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation

(AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

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

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>
- Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):

<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

- National institute for Occupational Safety and Health (NIOSH):

<http://www.cdc.gov/niosh/emfpg.html>

- World health Organization (WHO):

<http://www.who.int/peh-emf/>

- International Commission on Non-Ionizing Radiation Protection:

<http://www.icnirp.de>

- National Radiation Protection Board (UK):

<http://www.nrpb.org.uk>

- Updated 4/3/2002: US food and Drug Administration

<http://www.fda.gov/cellphones>

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

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

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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

Using Your Phone Near Other Electronic Devices

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

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a

pacemaker to avoid potential interference with the pacemaker.

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

Persons with pacemakers:

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

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

Hearing Aids

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

Other Medical Devices

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

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

Vehicles

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

Posted Facilities

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

Potentially Explosive Environments

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

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

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


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

Emergency Calls

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

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

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press .

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call.

Consult this document and your local cellular service provider.

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

Restricting Children's access to your Phone

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

FCC Notice and Cautions

FCC Notice



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

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

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

Product Performance

Getting the Most Out of Your Signal Reception

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

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

Understanding the Power Save Feature

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

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

Understanding How Your Phone Operates

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

Maintaining Your Phone's Peak Performance

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

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

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.

- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

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

Battery Precautions

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

battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).

- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

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

- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.

- When the phone or battery gets wet, the label indicating water damage inside the phone changes color. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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