To install Kies (PC Sync) 🔲 Kies

1. Download the latest version of Kies from the Samsung website (**www.samsung.com/kies**) and install it on your PC.

2. Using a PC data cable, connect your device to your PC.
   Samsung Kies will launch automatically.
   If Samsung Kies does not automatically launch, double-click the Samsung Kies icon on your PC.
   Refer to the Kies help for more information.

GT-S5820

user manual

Using this manual

Thank you for purchasing this Samsung mobile device. This device will provide you with high quality mobile communication and entertainment based on Samsung's exceptional technology and high standards.

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

Read me first

- Please read all safety precautions and this manual carefully before using your device to ensure safe and proper use.
- The descriptions in this manual are based on the default settings of your device.
- Images and screenshots used in this user manual may differ in appearance from the actual product.
- Content in this user manual may differ from the product, or from software provided by service providers or carriers, and is subject to change without prior notice. Refer to www.samsung.com/cn for the latest version of the user manual.
- Available features and additional services may vary by device, software, or service provider.
- Formatting and delivery of this user manual is based on Google Android operating systems and may vary depending on the user's operating system.
- Applications and their functions may vary by country, region, or hardware specifications. Samsung is not liable for performance issues caused by third-party applications.

- Samsung is not liable for performance issues or incompatibilities caused by user editing of registry settings.
- You may upgrade your mobile device's software by accessing www.samsung.com/cn.
- Sound sources, wallpapers, and images provided in this device are licenced for limited use between Samsung and their respective owners. Extracting and using these materials for commercial or other purposes is an infringement of copyright laws. Samsung is not liable for such copyright infringement by the user.
- You may incur additional charges for data services, such as messaging, uploading and downloading, auto-syncing, or using location services. To avoid additional charges, select an appropriate data tariff plan. For details, contact your service provider.
- Please keep this manual for future reference.

Instructional icons

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

Warning—situations that could cause injury to yourself or others

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

Note—notes, usage tips, or additional information

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

→ **Followed by**—the order of options or menus you must select to perform a step; for example: In Idle mode, open the application list and select **Settings → About phone** (represents **Settings**, followed by **About phone**)

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

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CE 0168 ①

ABOUT DIVX VIDEO

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

DivX Certified® to play DivX® video up to HD 720p, including premium content

ABOUT DIVX VIDEO-ON-DEMAND

This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

Contents

Assembling

Unpack

Check your product box for the following items:

• Mobile device
• Battery
• Travel adapter (charger)
• User manual

Use only Samsung-approved software. Pirated or illegal software may cause damage or malfunctions that are not covered by your manufacturer's warranty.

• The items supplied with your device may vary depending on the software and accessories available in your region or offered by your service provider.
• You can obtain additional accessories from your local Samsung dealer.
• The supplied accessories perform best for your device.
• Accessories other than the supplied ones may not be compatible with your device.

Install the SIM or USIM card and battery

When you subscribe to a cellular service, you will receive a Subscriber Identity Module (SIM) card, with subscription details, such as your personal identification number (PIN) and optional services. To use UMTS or HSDPA services, you can purchase a Universal Subscriber Identity Module (USIM) card.
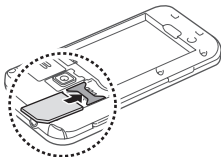
To install the SIM or USIM card and battery,

1 If the device is on, press and hold the Power/Lock key and select **Power off** → **OK** to turn it off.
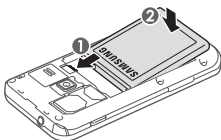
2 Remove the back cover.
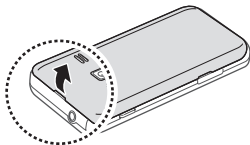
> Be careful not to damage your fingernails when you remove the back cover.

3 Insert the SIM or USIM card with the gold-coloured contacts facing down.

4 Insert the battery.

5 Replace the back cover.
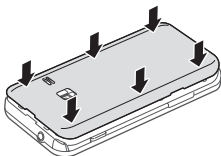
Charge the battery

Before using the device for the first time, you must charge the battery.

You can charge the device with a travel adapter or by connecting the device to a PC with a PC data cable.

Use only Samsung-approved chargers and cables. Unauthorised chargers or cables can cause batteries to explode or damage your device.

When your battery is low, the device will emit a warning tone and display a low battery message. The battery icon will also be empty. If the battery level becomes too low, the device will automatically power off. Recharge your battery to continue using your device.

› Charge with the travel adapter

1 Plug the small end of the travel adapter into the multifunction jack.
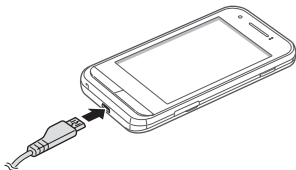
Connecting the travel adapter improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
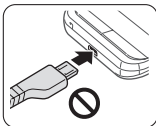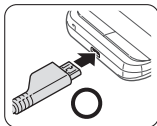
2 Plug the large end of the travel adapter into a power outlet.

- You can use the device while it is charging, but it may take longer to fully charge the battery.
- While the device is charging, the touch screen may not function due to an unstable power supply. If this happens, unplug the travel adapter from the device.
- While charging, the device may heat up. This is normal and should not affect your device's lifespan or performance.
- If your device is not charging properly, bring your device and the charger to a Samsung Service Centre.

3 When the battery is fully charged (the battery icon is no longer moving), unplug the travel adapter from the device and then from the power outlet.

Do not remove the battery before removing the travel adapter. Doing this may cause damage to the device.

Charging a completely discharged battery may take about X hours. Because the battery is a consumable part, the battery will gradually wear out and the charging time will be reduced. The initial charging capacity of your battery is about XXXX mAh.

To save energy, unplug the travel adapter when not in use. The travel adapter does not have a power switch, so you must unplug the travel adapter from the outlet to interrupt the power supply. The travel adapter should remain close to the socket when in use.

› Charge with the PC data cable

Before charging, ensure that your PC is turned on.

1 Plug one end (micro-USB) of the PC data cable into the multifunction jack.

2 Plug the other end of the PC data cable into a USB port on a PC.

Depending on the type of PC data cable you are using, it may take some time before charging begins.

3 When the battery is fully charged (the battery icon is no longer moving), unplug the PC data cable from the device and then from the PC.

〉 Reduce the battery consumption

If you activate auto-syncing, the Bluetooth feature, or the WLAN feature in the background, the battery will drain faster. To use the battery longer, close unnecessary applications. You can also decrease the backlight time and the brightness of the display, or switch to Sleep mode by pressing the Power/Lock key when you are not using your device.

Insert a memory card

To store additional multimedia files, you must insert a memory card. Your device accepts microSD**™** or microSDHC**™** memory cards with maximum capacities of xx GB (depending on memory card manufacturer and type).

> Samsung uses approved industry standards for memory cards, but some brands may not be fully compatible with your device. Using an incompatible memory card may damage your device or the memory card and can corrupt data stored on the card.

> • Your device supports only the FAT file structure for memory cards. If you insert a card formatted with a different file structure, your device will ask you to reformat the memory card.
> • Frequent writing and erasing of data will shorten the lifespan of memory cards.
> • When you insert a memory card in your device, the file directory of the memory card will appear in the /mnt/sdcard folder under the internal memory (iNAND**™**).

1   Open the cover to the memory card slot on the side of the device.

2   Insert a memory card with the gold-coloured contacts facing down.
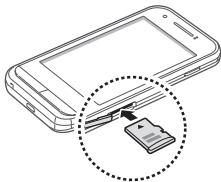
3   Push the memory card in the memory card slot until it locks in place.

4   Close the cover to the memory card slot.

› Remove the memory card

Before removing a memory card, first unmount it for safe removal.

1   In Idle mode, select ⊞ → **Settings** → **Storage** → **Unmount SD card** → **OK**.

2   Open the cover to the memory card slot on the side of the device.

3   Push the memory card gently until it disengages from the device.

4 Pull the memory card out of the memory card slot.

5 Remove the memory card.

6 Close the cover to the memory card slot.

> Do not remove a memory card while the device is transferring or accessing information, as this could result in loss of data or damage to the memory card or device.

› Format the memory card

Formatting your memory card on a PC may cause incompatibilities with your device. Format the memory card only on the device.

In Idle mode, select ⊞ → **Settings** → **Storage** → **Unmount SD card** → **OK** → **Erase SD card** → **Erase SD card** → **Erase everything**.

> Before formatting the memory card, remember to make backup copies of all important data stored on your device. The manufacturer's warranty does not cover loss of data resulting from user actions.

Attach a hand strap

1 Remove the back cover.

2 Slide a hand strap through the slot and hook it over the small projection.
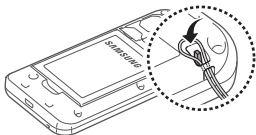
3 Replace the back cover.

Getting started

Turn your device on and off

To turn on your device, press and hold the Power/Lock key. Your device will automatically connect to the cellular network.

If you turn on your device for the first time, follow the on-screen instructions to set up your device for its first use.

To turn off your device, press and hold the Power/Lock key and then select **Power off → OK**.

> • Follow all posted warnings and directions from official personnel when in areas where the use of wireless devices is restricted, such as aeroplanes and hospitals.
>
> • To use your device's non-network services only, switch to Flight mode. Press and hold the Power/Lock key and select **Flight mode**.

Get to know your device

❯ Device layout

Proximity sensor

Front camera lens

Light sensor

Earpiece

Volume key

Touch screen

Home key

Back key

Menu key

Mobile TV key

Mouthpiece

Multifunction jack

Headset jack

TV antenna

Speaker

Power/Lock key

Rear camera lens

Back cover

Memory card slot

Internal antenna
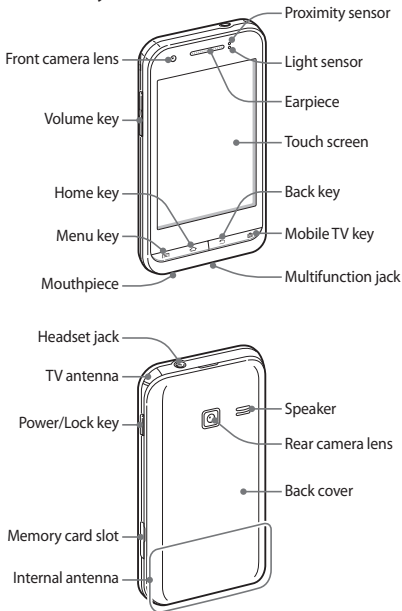
› **Keys**

Key		Function
⊖▯	Power/ Lock	Turn on or off the device (press and hold); End a call; Access the quick menus (press and hold); Lock the touch screen.
▭	Menu	Open a list of options available on the current screen; Open the quick search bar (press and hold).
⌂	Home	Return to the idle screen; Open the list of recent applications (press and hold).
⤶	Back	Return to the previous screen.
凸	Mobile TV	Launch the mobile TV application.
▯	Volume	Adjust the device's volume.

› **Indicator icons**

Icons shown on the display may vary depending on your region.

Icon	Definition
⊘	No signal
ıllı	Signal strength
▪ₜ	GPRS network connected

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Icon	Definition
📶	EDGE network connected
📶	UMTS network connected
📶	Open WLANs available
📶	WLAN activated
✳	Bluetooth activated
📶	Bluetooth headset connected
◉	GPS activated
📞	Voice call in progress
📞	Call on hold
📢	Speakerphone activated
📵	Missed call
🔄	Synchronised with the web
⬆	Uploading data
⬇	Downloading data
📞	Call diverting activated
Ψ	Connected to PC

Icon	Definition
	USB tethering activated
	WLAN hotspot activated
	No SIM or USIM card
	New text or multimedia message
	New email message
	New voice mail message
	Alarm activated
	Event notification
	Roaming (outside of normal service area)
	Silent mode activated
	Flight mode activated
	Vibration activated
	Music playback in progress
	Error occurred or caution required
	Battery power level
10:00	Current time

Use the touch screen

Your device's touch screen lets you easily select items or perform functions. Learn basic actions to use the touch screen.

- To avoid scratching the touch screen, do not use sharp tools.
- Do not allow the touch screen to come into contact with other electrical devices. Electrostatic discharges can cause the touch screen to malfunction.
- Do not allow the touch screen to come into contact with water. The touch screen may malfunction in humid conditions or when exposed to water.

- For optimal use of the touch screen, remove the screen protection film before using your device.
- Your touch screen has a layer that detects small electrical charges emitted by the human body. For best performance, tap the touch screen with your fingertip. The touch screen will not react to touches of sharp tools, such as a stylus or pen.

Control your touch screen with the following actions:

- Tap: Touch once to select or launch a menu, option, or application.

- Tap and hold: Tap an item and hold it for more than 2 seconds.

- Drag: Tap an item and move it to the location you want.
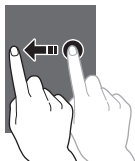
- Double-tap: Tap an item twice quickly.

- Flick: Scroll up, down, left, or right to move through lists or screens.

> - Your device turns off the touch screen when you do not use the device for a specified period. To turn on the screen, press any key except for [⌂].
> - You can also adjust the backlight time. In Idle mode, open the application list and select **Settings** → **Display** → **Screen timeout**.

Lock or unlock the touch screen and keys

You can lock the touch screen and keys to prevent any unwanted device operations.

To lock, press the Power/Lock key. To unlock, turn on the screen and drag 🔒 right until it reaches the dot.
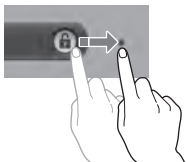
Get to know the idle screen

When the device is in Idle mode, you will see the idle screen. From the idle screen, you can view your device's status and access applications.

The idle screen has 7 panels. Scroll left or right to a panel of the idle screen. You can also select a dot on the top of the screen to move to the corresponding panel of the idle screen directly.

❯ Add items to the idle screen

You can customise the idle screen by adding shortcuts to applications or items in applications, widgets, or folders. To add items to the idle screen,

1 Press [≡] → **Add** or tap and hold the empty area on the idle screen.

2   Select the item category → an item:
    - **Widgets**: Add widgets to the idle screen.
    - **Shortcuts**: Add shortcuts to items, such as applications, bookmarks, and contacts.
    - **Folders**: Create a new folder or add folders for your contacts.
    - **Wallpapers**: Set a background image.

› Move items on the idle screen

1   Tap and hold an item to move until the item appears grey.
2   Drag the item to the location you want.

› Remove items from the idle screen

1   Tap and hold an item to remove.
    The trash bin appears at the bottom of the idle screen.
2   Drag the item to the trash bin.
3   When the item turns red, release the item.

› Use the shortcuts panel

In Idle mode or while using an application, tap the indicator icons area and drag your finger down to open the shortcuts panel. You can activate or deactivate wireless connection features and access a list of notifications, such as messages, calls, events or processing status. To hide the list, drag the bottom of the list up.

From the shortcuts panel, you can use the following options:

- **WLAN**: Activate or deactivate the WLAN connection feature. ► p. 87

- **Bluetooth**: Activate or deactivate the Bluetooth wireless connection feature. ► p. 84
- **Data On**/**Data Off**: Activate or deactivate the data connection feature.
- **Silent**: Activate or deactivate the silent mode.
- **Auto rotation**: Activate or deactivate the auto rotation.

Available options may vary depending on your region or service provider.

› Add or remove panels to the idle screen

You can add or remove panels of the idle screen to organise widgets according to your preferences and needs.

1 In Idle mode, press [≡] → **Edit**.

You can also place your two fingers on the screen and pinch to switch to Edit mode.

2 Add or remove panels by using the following features:
- To remove a panel, tap and hold the thumbnail of a panel and drag it to the trash bin at the bottom of the screen.
- To add a new panel, select ⬤.
- To change the order of the panels, tap and hold the thumbnail of a panel and drag it to the location you want.

3 When you are finished, press [⬑].

Access applications

To access your device's applications,

1   In Idle mode, select 🎲 to access the application list.

2   Scroll left or right to another application screen.

    You can also select a dot on the top of the screen to move to the corresponding main menu screen directly.

3   Select an application.

    ![note] You can add a shortcut to an application by tapping and holding the application icon from the application list. You can move the icon to the location you want on the idle screen.

4   Press [↩] to return to the previous screen; Press [⌂] to return to the idle screen.

    ![note] Your device has a built-in motion sensor that detects its orientation. If you rotate the device while using some features, the interface will automatically switch to landscape view. To set the interface to keep the orientation when you rotate the device, select **Settings → Display → Auto-rotate screen**.

› Organise applications

You can reorganise the applications in the application list by changing their order or grouping them into categories to suit your preferences and needs.

1   In the application list, press [▤] → **Edit**.

2   Tap and hold an application.

3 Drag the application icon to the location you want.

You can move an application icon to another main menu screen. You can also move most-used applications next to .

4 Press [▤] → **Save**.

To change the order of the main menu screens,

1 In the application list, place your two fingers on the screen and pinch.

2 Tap and hold the thumbnail of a screen and drag it to the location you want.

› Access recent applications

1 Press and hold [⌂] to open the list of applications you have accessed recently.

2 Select an application to access.

› Use the task manager

Your device is a multitasking device. It can run more than one application at the same time. However, multitasking may cause hang-ups, freezing, memory problems, or additional power consumption. To avoid these problems, end unnecessary programs using the task manager.

1 In Idle mode, open the application list and select **Task manager** → **Active applications**.

The list of all the applications currently running on your device appears.

2 To close an application, select **End**.

To close all active applications, select **End all**.

Customise your device

Get more from your device by customising it to match your preferences.

› Set the current time and date

1 In Idle mode, open the application list and select **Settings → Date and time**.

2 Set the time and date and change other options.

› Turn on or off the touch tone

In Idle mode, open the application list and select **Settings → Sound → Audible selection**.

› Adjust the volume of the ringtones

Press the Volume key up or down to adjust the ringtone volume.

› Switch to the silent mode

To mute or unmute your device, do one of the following:

- In Idle mode, select 📞 → **Keypad** and tap and hold **#**.
- Open the shortcuts panel from the top of the screen and select **Silent**.
- In Idle mode, press and hold the Power/Lock key and select **Silent mode**.

You can set the device to alert you to various events in Silent mode. In Idle mode, open the application list and select **Settings → Sound → Vibrate → Always** or **Only in Silent mode**. When you switch to Silent mode, 📳 will appear in place of 🔇.

› Change your ringtone

1 In Idle mode, open the application list and select
   Settings → **Sound** → **Phone ringtone**.

2 Select a ringtone from the list and select **OK**.

› Activate animation for switching windows

In Idle mode, open the application list and select **Settings**
→ **Display** → **Animation** → **Some animations** or **All
animations**.

› Select a wallpaper for the idle screen

1 In Idle mode, press [⊟] → **Wallpaper** → an option.

2 Select an image.

3 Select **Save** or **Set wallpaper**.

> Samsung is not responsible for any use of default
> images or wallpapers provided on your device.

› Adjust the brightness of the display

1 In Idle mode, open the application list and select
   Settings → **Display** → **Brightness**.

2 Clear the check box next to **Automatic brightness**.

3 Drag the slider to adjust the level of brightness.

4 Select **OK**.

> The brightness level of the display will affect how
> quickly the device consumes battery power.

› Set a screen lock

You can lock the touch screen with an unlock pattern or password to prevent unauthorised people from using the device without your permission.

> • Once you set a screen lock, your device will require an unlock code each time you turn it on or unlock the touch screen.
>
> • If you forget your PIN or password, bring your device to a Samsung Service Centre to unlock it.
>
> • Samsung is not responsible for any loss of security codes or private information or other damages caused by illegal software.

Set an unlock pattern

1 In Idle mode, open the application list and select **Settings → Location & security → Set up screen lock → Pattern**.

2 See the on-screen instructions and example patterns and select **Next**.

3 Draw a pattern by dragging your finger to connect at least 4 dots.

4 Select **Continue**.

5 Draw a pattern again to confirm.

6 Select **Confirm**.

Set an unlock PIN code

1 In Idle mode, open the application list and select
**Settings → Location & security → Set up screen lock
→ PIN**.

2 Enter a new PIN (numeric) and select **Continue**.

3 Enter the PIN again and select **OK**.

Set an unlock password

1 In Idle mode, open the application list and select
**Settings → Location & security → Set up screen lock
→ Password**.

2 Enter a new password (alphanumeric) and select
Continue.

3 Enter the password again and select **OK**.

› **Lock your SIM or USIM card**

You can lock your device by activating the PIN supplied with
your SIM or USIM card.

1 In Idle mode, open the application list and select
**Settings → Location & security → Set up SIM card
lock → Lock SIM card**.

2 Enter your PIN and select **OK**.

Once the PIN lock is enabled, you must enter the PIN each time you turn on the device.

> ⓘ
> - If you enter an incorrect PIN too many times, your SIM or USIM card will be blocked. You must enter a PIN unlock key (PUK) to unblock the SIM or USIM card.
> - If you block your SIM or USIM card by entering an incorrect PUK, bring the card to your service provider to unblock it.

Enter text

You can enter text by selecting characters on the virtual keypad or by inputting handwriting on the screen.

> ⓘ
> You cannot enter text in some languages. To enter text, you should change the writing language to one of the supported languages. ► p. 108

› Enter text using the Samsung IME

1 Tap and hold ⚙ and select **Input Mode** → a text input method.

Option	Function
Qwerty	Select characters on the QWERTY keyboard.
3x4 Keypad	Select characters on the 3x4 keypad.
Handwriting	Write in the input box.

2 Enter text by selecting alphanumeric keys or writing on the screen.

You can also use the following keys:

Number	Function
1	Switch to Number/Symbol mode.
2	Access the keypad settings; Change the text input method (tap and hold).
3	Clear your input.
4	Start a new line.
5	Switch to Pinyin, English, or Korean mode; Available input modes vary depending on the selected text input method.
6	Insert a space.

In the handwriting modes, you can use the following gestures:

Function	Gesture
Enter	
Backspace	

When entering text with the Samsung IME, you can use the following modes:

Mode	Function
Pinyin	1. Select appropriate virtual keys to enter pinyins or write pinyins. 2. Select ∨ and scroll or down until the character you want appears. 3. Select the character.
English	Select an appropriate virtual key to enter characters or write characters.
XT9 (Predictive text)	If you are using 3x4 keypad, you can use the XT9 mode. 1. In English mode, select XT9 (The dot turns green). 2. Select the appropriate virtual keys to enter an entire word. 3. When the word displays correctly, select ⎵ to insert a space. If the correct word does not display, select ∨ → an alternative word from the list that appears.
Korean	Select an appropriate virtual key to enter characters or write characters. When using the 3x4 keypad, enter vowels or consonants by combining |, ·, and —.
Number	Select an appropriate virtual key to enter a number or write a number.
Symbol	1. Select ◄ or ► to scroll to a symbol set you want. 2. Select an appropriate virtual key to enter a symbol or write a symbol.

› Copy and paste text

While you are entering text, you can use the copy and paste feature to use text in other applications.

1 Place the cursor on the text you want to copy.

2 Tap and hold the text input field.

3 Select **Select word** from the option list.

4 Drag ◢ or ◣ to select the text you want.

5 Tap and hold the highlighted text.

6 Select **Copy** to copy, or **Cut** to cut the text onto the clipboard.

7 In another application, tap and hold the text input field.

8 Select **Paste** to insert the text from the clipboard into the text field.

Download applications from Mobile Market

Based on the Android platform, your device's functionality can be extended by installing additional applications. Mobile Market provides you an easy and quick way to shop for games and mobile applications.

> Your device will save user files from downloaded applications to moviNAND**™** memory. To save files to the SD memory card, connect your device to a PC and copy them from moviNAND to the SD memory card.

1 In Idle mode, open the application list and select **MM**.

2 Select an item category → an item.

3 Select 下载 (for free items) or 购买.

  If you select 下载 → **Install** to download the item immediately.

  If you select 购买, you need to enter your credit card information. Follow the on-screen instructions.

Download files from the web

When you download files or web applications from the web, your device saves them in a memory card.

> Files you download from the web can include viruses that will damage your device. To lessen your risk, only download files from sources you trust.

> Some media files include Digital Rights Management to protect copyrights. This protection may prevent you from downloading, copying, modifying, or transferring some files.

To download files from the web,

1 In Idle mode, open the application list and select Internet.

2 Search for a file or application and download it.

To install applications downloaded from websites other than Android Market, you must select **Settings** → **Applications** → **Unknown sources**.

Synchronise data

You can synchronise data with various web servers and back up or restore your data.

Once the synchronisation is completed, your device stays connected to the web. If any change is made on the web, the updated information will appear on your device and will automatically begin synchronisation, and vice versa.

> This feature may be unavailable depending on your region or service provider.

› Set up a server account

1 In Idle mode, open the application list and select **Settings → Accounts & sync**.

2 Select **Add account → an account type**.

3 Follow the on-screen instructions to complete the account setup.

   For online community services, such as Kaxin or Renren, enter your user name and password and select **Log in**.

› Activate automatic sync

1 In Idle mode, open the application list and select **Settings → Accounts & sync**.

2 Select **Auto-syn**.

3 Select an account.

4 Select the applications you want to synchronise.

To exclude applications from automatic synchronisation, clear the check boxes next to the applications you want.

› Synchronise data manually

1 In Idle mode, open the application list and select **Settings → Accounts & sync**.

2 Select an account.

3 Select **Sync now**. Your device will start synchronising the data you set for synchronisation.

Communication

Calling

Learn to use calling functions, such as making and answering calls, using options available during a call or customising and using call-related features.

› Make and answer a call

You can use the buttons or the touch screen when you make, accept, end or reject calls.

> When you hold the device near your face, your device automatically turns off the touch screen to prevent accidental inputs.

Make a call

1 In Idle mode, select → **Keypad**.

Number	Function
❶	Access the call log.
❷	Open the dialling screen.
❸	Make a call.
❹	Access your favourite contacts.
❺	Access the contact list.
❻	Clear your input.
❼	Send a message.

2 Enter an area code and a phone number.

You can set the device to show the area code. In Idle mode, open the application list and select **Settings** → **Call settings** → **Phone number locator**.

3 Select 📞 to make a call.

4 To end the call, select **End call**.

- Use the phonebook to save numbers you dial frequently. ▶ p. 69
- To quickly access the call log to redial the numbers you dialled recently, select 📞 → **Logs**.

Answer a call

1 When a call comes in, select **Accept**.

> When the device is ringing, press the Volume key to mute the ringtone.

2 To end the call, select **End call**.

Reject a call

When a call comes in, select **Reject**. The caller will hear a busy tone.

To send a message when you reject incoming calls, select **Reject with msg**.

> To change the message, select **Settings → Call settings → Reject call with message**.

Call an international number

1 In Idle mode, select [icon] → **Keypad**, and tap and hold **0** to insert the **+** character.

2 Enter the complete number you want to dial (country code, area code and phone number), and then select [icon] to dial the number.

› Use the headset

By plugging a headset into the device, you can make and answer calls:

- To answer a call, press the headset button.
- To reject a call, press and hold the headset button.
- To place a call on hold or retrieve a held call during a call, press and hold the headset button.
- To end a call, press the headset button.

› Use options during a call

You can use the following options while a call is in progress:

Number	Function
1	Place a call on hold. To retrieve a held call, tap ▶.
2	Record a call conversation.
3	Activate the speakerphone feature. ![note] In noisy environments, you may have difficulty hearing some calls while using the speakerphone feature. For better audio performance, use the normal phone mode.
4	Open the dialling screen.
5	End a current call.

Number	Function
❻	Converse with the other party via a Bluetooth headset.
❼	Turn off the microphone so that the other party cannot hear you.

In addition to the options on the screen, you can use the following options:

- To adjust the voice volume, press the Volume key up or down.
- To answer a second call, select **Accept** when a call waiting tone sounds. The device asks whether to end or hold the first call. You must subscribe to the call waiting service to use this feature.
- To switch between the two calls, select **Swap**.

› View and dial missed calls

Your device will display calls you have missed on the shortcuts panel.

To view the missed calls, open the shortcuts panel and select the missed call notification. From the call log list, select a missed call to view its details or call back its number.

When the touch screen is locked, a notification will appear on the touch screen as a puzzle piece. You can access the call log immediately by dragging the puzzle piece to the corresponding slot.

› Use additional features

You can use various other call-related features, such as auto rejection, Fixed Dialling Number (FDN) mode, or call diverting or barring.

Set auto rejection

Use auto rejection to reject calls from certain numbers automatically. To activate auto rejection and set up the reject list,

1. In Idle mode, open the application list and select **Settings → Call settings → Auto reject**.
2. Select **Voice call** or **Video call**.
3. Select **Enable auto reject** to activate auto rejection.
4. Select **Auto reject list**.
5. Press [≡] → **Create**.
6. Enter a number to reject and select **Save**.
7. To add more numbers, repeat steps 4-5.

Use Fixed Dialling Number (FDN) mode

In FDN mode, your device will restrict outgoing calls, except for the numbers stored in the FDN list. To activate FDN mode,

1. In Idle mode, open the application list and select **Settings → Call settings → Fixed Dialing Numbers → Enable FDN**.
2. Enter the PIN2 supplied with your SIM or USIM card and select **OK**.
3. Select **FDN list** and add contacts to be used in FDN mode.

Set call forwarding

Call diverting is a network feature to send incoming calls to another number that you specify. You can set this feature separately for several conditions when you are not able to answer calls, such as when you are already on the phone or when you are outside of the service area.

1 In Idle mode, open the application list and select **Settings → Call settings → Call forwarding**.

2 Select **Voice call** or **Video call**.

3 Select a condition.

4 Enter a number to which calls will be forwarded and select **Enable**.

Your setting will be sent to the network.

Set call barring

Call barring is a network feature to restrict certain types of calling or to prevent others from making calls with your device.

1 In Idle mode, open the application list and select **Settings → Call settings → Call barring**.

2 Select **Voice call** or **Video call**.

3 Select a call type to restrict.

4 Enter a call barring password and select **OK**.

Your setting will be sent to the network.

› View call logs

You can view logs of your calls filtered by their types.

1 In Idle mode, select → **Logs**.

2 Press [⟦=⟧] → **View by** → an option to sort the call logs.

> From the call logs, you can make a call or send a message directly to a contact by quickly flicking the contact to the left or right.

3 Select a log to view its details.

> From the detail view, you can dial the number, send a message to the number or add the number to the phonebook or reject list.

Messages

Learn to create and send text (SMS), multimedia (MMS), or email messages, and view or manage messages you have sent or received.

› Send a text message

1 In Idle mode, select → **New message**.

2 Select **Contacts**.

You can enter a number manually or select one from the recent recipients or contact groups by selecting another button.

3 Select contacts and select **Add**.

4 Select **Tap to compose** and enter your message text.
To insert emoticons, press [▤] → **Insert smiley**.

5 Select **Send** to send the message.

› Send a multimedia message

1 In Idle mode, select ▨ → **New message**.

2 Select **Contacts**.
You can enter a number manually or select one from
the recent recipients or contact groups by selecting
another button.

3 Select contacts and select **Add**.
When you enter an email address, the device will
convert the message as a multimedia message.

4 Select **Tap to compose** and enter your message text.
To insert emoticons, press [▤] → **Insert smiley**.

5 Press [▤] → **Attach** → an option and add an item.
You can select a file from the file list or create a new
photo, video, or sound.

6 Press [▤] → **Add subject** and add a subject for the
message.

7 Select **Send** to send the message.

› View a text or multimedia message

1 In Idle mode, select ▨.
Your messages are grouped into message threads by
contact, like a messenger.

2 Select a contact.

3 Select a text or multimedia message from the message thread.

4 For a multimedia message, select ▶ to view the attachment.

› Listen to voice mail messages

If you have set missed calls to be diverted to the voice mail server, callers may leave voice messages when you do not answer incoming calls. To access your voice mail inbox and listen to voice mail messages,

1 In Idle mode, select → **Keypad** and then tap and hold **1**.

2 Follow the instructions from the voice mail server.

> You must save the voice mail server number before accessing the server. Your service provider can give you the number.

Email

Learn to send or view email messages via your personal or company email account.

› Set up an email account

1 In Idle mode, open the application list and select **Email**.

2 Select an email service name to use or **Others** for another general email account.

3 Enter your email address and password.

4   Select **Next** (for general email accounts) or **Manual setup** (for other company email accounts).

5   Follow the on-screen instructions.

When you are finished setting up the email account, the email messages are downloaded to your device. If you have created more than two accounts, you can switch between email accounts; Press [□] → **Accounts** and select one you want to retrieve messages from.

› Send an email message

1   In Idle mode, open the application list and select **Email** → an email account.

2   Press [□] → **Compose**.

3   Select **Contacts**.

    You can enter an email address manually or select one from the recent recipients or groups by selecting another button.

4   Select contacts and select **Add**.

5   Select the Cc/Bcc field to add more recipients.

6   Select the subject field to enter a subject.

7   Select the text input field to enter your email text.

8   Select **Attach** and attach a file.

    You can select a file from the file list or create a new photo, video, or sound.

9   Select **Send** to send the message.

    If you are offline or outside your service area, the message will be held in the message thread list until you are online and in your service area.

› View an email message

When you open an email account, you can view previously retrieved emails offline or connect to the email server to view new messages. After retrieving email messages, you can view them offline.

1 In Idle mode, open the application list and select **Email** → an email account.

2 Press [▤] → **Refresh** to update the messages folder.

3 Select an email message.

Fetion

Learn to chat with friends and family via the Fetion messenger. With Fetion, you can stay available to other users by receiving and sending instant messages. For more information, contact your service provider.

› Log in to the Fetion messenger

1 In Idle mode, open the application list and select **Fetion**.

2 Enter your user name and password and select **Log in**.

› Start a chat

1 In Idle mode, open the application list and select **Fetion**.

2 Select a contact from the **All** list. The chat screen opens.

If you are not logged in, you can send a text message to one of your phonebook contacts. Select **Local contact** → a contact.

3 Enter your message and select **Send**.

4 To end the chat, press [▭] → **End chat**.

139 邮箱

You can receive emails from your preset account assigned by your service provider, and reply promptly when a new email arrives. For more details, contact your service provider.

❯ Set up an email account using 139 mail

You can use your phone number as your email account and send or receive emails.

1 In Idle mode, open the application list and select **139 邮箱**.

2 Start the 139 Mail wizard to create a 139 Mail account.

The account will be added to the message centre automatically.

❯ View an email message

1 In Idle mode, open the application list and select **139 邮箱**.

2 Select an email message.

Entertainment

Camera

Learn how to capture and view photos and videos. You can take photos at resolutions up to 3 megapixels and videos at resolutions up to 1280 x 720 pixels.

> • The camera automatically turns off when you do not use it for a specified period.
> • The memory capacity may differ depending on the shooting scene or shooting conditions.

› Capture a photo

1. In Idle mode, open the application list and select **Camera**.

2. Aim the lens at the subject and make any necessary adjustments.
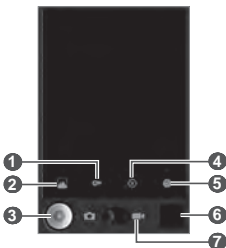
Number	Function
1	Adjust the colour balance according to lighting conditions.
2	Switch between the front and rear camera lenses.
3	Capture a photo.
4	Set the camera to include location information for your photos.
5	Change the camera settings. Reset menus and shooting options.
6	View the photo you captured last.
7	Switch to the camcorder.

3 Select to take a photo.

The photo is saved automatically.

After taking photos, select the image viewer icon to view the captured photos.

- To view more photos, scroll left or right.
- To zoom in or out, select or .
- To start a slideshow in the selected folder, select **Slideshow.** Tap the screen to stop the slideshow.
- To send a photo to others, select **Menu → Share**.
- To set a photo as wallpaper or a caller ID image for a contact, select **Menu → Set as**.
- To delete a photo, select **Menu → Delete**.

› Capture a photo by using preset options for various scenes

Your camera provides you with predefined settings for various scenes. You can simply select the proper mode for your shooting condition and subjects.

For example, when you take photos at night, select the night mode that uses an extended exposure.

1 In Idle mode, open the application list and select **Camera**.

2 Select ⊙ → a scene.

3 Make any necessary adjustments.

4 Select ⊙ to take a photo.

› Capture a photo in Self shot mode

You can take photos of yourself conveniently using the front camera lens.

1 In Idle mode, open the application list and select **Camera**.

2 Select ▰ → **Front**.

3 Make any necessary adjustments.

4 Select ⊙ to take a photo.

› Customise camera settings

Before taking a photo, select 🔘 to access the following options:

Option	Function
Scene mode	Change the scene mode.
Picture size	Change the resolution option.
Picture quality	Set the quality level for your photos.
Color effect	Apply a special effect, such as sepia or black and white tones.
Camera settings	Reset menus and shooting options.

› Record a video

1. In Idle mode, open the application list and select **Camera**.

2. Select 🔲 to switch to the camcorder.

3 Aim the lens at the subject and make any necessary adjustments.
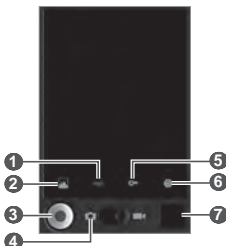
Number	Function
❶	Change the resolution option.
❷	Switch between the front and rear camera lenses.
❸	Record a video.
❹	Switch to the camera.
❺	Adjust the color balance according to lighting conditions.
❻	Apply a special effect, such as sepia or black and white tones. Reset menus and shooting options
❼	View the video you recorded last.

4 Select ● to start recording.

5 Select ● to stop recording.

The video is saved automatically.

> The camcorder may not be able to properly record
> videos to a memory card with a slow transfer speed.

After recording videos, select the image viewer icon to view
the recorded videos.

• To view more videos, scroll left or right.
• To send a video to others, select **Share**.
• To play a video, select **Play**.
• To delete a video, select **Delete**.

› Customise camcorder settings

Before recording a video, select ● to access the following
options:

Option	Function
Color effect	Apply a special effect, such as sepia or black and white tones.
Camera settings	Reset menus and shooting options.

Gallery

Learn to view photos and play videos saved in your device's memory and memory card.

› Supported file formats

Type	Format
Image	Extension: bmp, gif, jpg, png, wbmp, agif
Video	• Extension: 3gp, mp4 • Codec: MPEG4, H.263, H.264

🖉 • Some file formats are not supported depending on the software of the device.
  • If the file size exceeds the available memory, an error can occur when you open files.

› View a photo

1 In Idle mode, open the application list and select **Gallery**.

2 Select a folder.

3 To change the view mode, select ▦ or ▭ at the top right of the screen.

4 Select a photo (with no icon) to view.

While viewing a photo, use the following options:

- To view more photos, scroll left or right.
- To zoom in or out, select 🔍 or 🔍. You can also tap the screen with two fingers and spread them apart (move your fingers closer together to zoom out).
- To start a slideshow in the selected folder, select **Slideshow**. Tap the screen to stop the slideshow.
- To use additional features using the photo, such as sharing, deleting, and editing options, select **Menu**.

› Play a video

1. In Idle mode, open the application list and select **Gallery**.
2. Select a video (with the ▶ icon) to play.
3. Rotate the device anti-clockwise to landscape view.
4. Control playback with the virtual keys.

› Share images or videos

1. In Idle mode, open the application list and select **Gallery**.
2. Select a folder.
3. Press [≡] and select images or video files.
4. Select **Share** → a sharing option.

Music

Learn to listen to your favourite music while on the go with the music player. The music player supports the following file formats: mp3, m4a, mp4, 3gp, wma, ogg, aac, flac, ra.

› Add music files to your device

Start by transferring files to your device or memory card:

- Download from the web. ► p. 77
- Download from a PC with a Samsung Kies. ► p. 91
- Receive via Bluetooth. ► p. 86
- Copy to your memory card. ► p. 91

› Play music

After transferring music files to your device or memory card,

1 In Idle mode, open the application list and select **Music**.
2 Select a music category → a music file.
3 Control playback with the following keys:

Number	Function
❶	Pause playback; Select ▶ to resume playback.
❷	Skip backward; Scan backward in a file (tap and hold).
❸	Move to a point of the file by dragging the bar.
❹	Open the playlist.
❺	Activate Shuffle mode.
❻	Change the repeat mode (off, repeating one file, or repeating all files).
❼	Skip forward; Scan forward in a file (tap and hold).

☑ • You can control playback with a headset: Press the headset button to play or pause playback. You can also press and hold the headset button to launch the music player.

• SRS CS Headphone™ delivers a 5.1 surround sound experience over standard headphones or earbuds when listening to multichannel content, such as DVD movies.

• WOW HD™ significantly improves the playback quality of audio, delivering a dynamic 3D entertainment experience with deep, rich bass and high frequency clarity for crisp detail.

› Create a playlist

1 In Idle mode, open the application list and select **Music**.

2 Select a music category → a music file.

3 Press [≡] → **Add to playlist** → **New**.

4 Enter a title for your new playlist and select **Save**.

5 To add more music files to the playlist, play a file and press [≡] → **Add to playlist** → the new playlist.

Personal information

Contacts

Learn to create and manage a list of your personal or business contacts stored on the device's memory or a SIM or USIM card. You can save names, mobile phone numbers, home phone numbers, email addresses, birthdays and more for your contacts.

› Create a contact

1 In Idle mode, select ![icon].

2 Select ![icon].

3 Select a memory location.

4 Enter contact information.

> • To add a new item, select ![icon]. To delete an item, select ![icon].
>
> • If you are saving the contact on a SIM or USIM card, you can save only the contact's name, a phone number, and an email address.

5 Select **Save** to add the contact to memory.

You can also create a contact from the dialling screen.

1 In Idle mode, select ![icon] → **Keypad**.

2 Enter a phone number.

3 Select **Add to Contacts** → ![icon].

4   Select a memory location.

5   Enter contact information.

6   Select **Save** to add the contact to memory.

› **Find a contact**

1   In Idle mode, select 🔢.

2   Scroll up or down on the contact list.

3   Select a contact's name.

🖉   Once you find a contact, you can:
  • call the contact by selecting the phone number.
  • send a message by selecting **Message**.
  • edit the contact information by pressing [≡] →
    Edit.
  • share the contact information with others by
    pressing [≡] → **Send via** → a sharing option.

› **Set a speed dial number**

1   In Idle mode, select 🔢.

2   Press [≡] → **More** → **Speed dial**.

3   Select a location number → a contact.

🖉   You can quickly dial this number by touching and
    holding the location number from the dialling screen.

› **Create your namecard**

1   In Idle mode, select 🔢.

2   Press [≡] → **My profile**.

3 Enter your own personal details.

4 Select **Save**.

> You can send your namecard by attaching it to a message or email or transferring it via the Bluetooth wireless feature.

› Retrieve contacts from your community accounts

You can view the list of community site accounts and select an account to add a contact from the website to your phone contacts.

1 In Idle mode, select 📇.

2 Press [≡] → **Get friends**.

3 Select an account.

4 Follow the on-screen instructions.

› Create a group of contacts

By creating groups of contacts, you can manage multiple contacts and send messages or email to an entire group. Start by creating a group.

1 In Idle mode, select 📇 → **Groups**.

2 Press [≡] → **Create**.

3 Enter a name and select a ringtone for the group.

4 Select **Save**.

› Copy contacts

You can copy contacts to and from the SIM or USIM card.

1 In Idle mode, select [icon].
2 Press [≡] → **Import/Export** → **Import from SIM card** or **Export to SIM card**.
3 Select contacts to copy and select **Import** or **Export**.
4 For exporting contacts, select **Yes** to confirm.

› Import or export contacts

You can save all of your contacts as vcf files in a memory card, and export them from a memory card.

1 In Idle mode, select [icon].
2 Press [≡] → **Import/Export** → **Import from SD card**.
3 Select a memory location.
   If you have more than one account, select an account to which you want to add the contact.
4 Select an option for importing a single contact file, multiple contact files, or all contact files, and select **OK**.
5 Select contact files to import and select **OK**.

To export contacts from your device to a memory card,

1 In Idle mode, select [icon].
2 Press [≡] → **Import/Export** → **Export to SD card**.
3 Select **Yes** to confirm.

❯ View the communication log

You can view the communication log of calls, messages, email or SNS threads.

1 In Idle mode, select 🖼 → **History**.

2 Select an item you want to view.

❯ View the social network activities

You can view the recent activities of contacts in social network services, such as Kaixin and Renren.

1 In Idle mode, select 🖼 → **Activities**.

2 Select an item you want to view.

❯ Synchronise your contacts with Microsoft Outlook

1 Using a PC data cable, connect the multifunction jack on your device to a PC.

Samsung Kies will launch automatically.

If Samsung Kies does not launch automatically, double-click the Samsung Kies icon on your PC.

2 On the Samsung Kies screen, click **Contacts** → **Outlook Sync**.

3 Select matching data fields for synchronisation and select **OK**.

Calendar

Learn to create and manage daily, weekly or monthly events, and set alarms to remind yourself of important events.

› Create an event

1 In Idle mode, open the application list and select **Calendar**.

2 Press [▤] → **More** → **Create**.

3 Enter the details of the event as required.

4 Select **Done**.

› View events

To change the calendar view,

1 In Idle mode, open the application list and select **Calendar**.

2 Select a view mode from the top of the calendar.

To view events of a specific date,

1 In Idle mode, open the application list and select **Calendar**.

2 Select a date on the calendar.

To move to a specific day by entering a date manually, press [▤] → **More** → **Go to**, enter the date by selecting **+** or **-**, and select **Set**.

To select today's date, press [▤] → **Today**.

3 Select an event to view its details.

› Stop an event alarm

If you set an alarm for a calendar event, the event alarm icon will appear at the specified time.

1 Open the shortcuts panel from the top of the screen.

2 Select a reminder to view more details about the event.

3 To snooze or dismiss the reminder, select **Snooze all** or **Dismiss all**.

Notes

Learn to create and view notes.

› Create a note

1 In Idle mode, open the application list and select **Notes**.

2 Press [≡] → **Add note**.

3 Enter your memo text.

› View notes

1 In Idle mode, open the application list and select **Notes**.

2 Select a note to view its details.
To delete the note, press and hold the note and select **Delete**.

Voice recorder

Learn to operate your phone's voice recorder.

› Record a voice memo

1 In Idle mode, open the application list and select **Voice recorder**.

2 Select ● to start recording.

3 Speak into the microphone.

4 When you are finished, select ■.

5 To record more voice memos, select ● from the bottom of the screen.

› Play a voice memo

1 In Idle mode, open the application list and select **Voice recorder**.

2 Select ▦.

3 In a playlist, select a voice memo to play.

You can send the voice memo to others by tapping and holding a voice memo and selecting **Share** → an option.

Web

Web services require a data connection. Contact your operator to choose the best data plan.

Internet

Learn to access and bookmark your favourite web pages.

> * You may incur additional charges for accessing the web and downloading media. For details, contact your service provider.
> * Available icons may vary depending on your region.

› Browse web pages

1 In Idle mode, open the application list and select **Internet** to launch a specified homepage.

To access a specific web page, select the URL input field, enter the web address (URL) of the web page, and select ➡.

2 Navigate web pages with the following keys:

![note icon] The above screen may differ depending on your region or service provider.

Number	Function
1	Enter an web address of the web page to access.
2	Open a list of saved bookmarks, frequently visited pages and recent internet history.

While browsing the web page, use the following options:

- To zoom in or out, double-tap the screen. You can also use the two finger zoom; Place your two fingers on the screen and slowly pinch or spread apart.
- To open a new window, press [≡] → **New window**.
- To view the currently active windows, press [≡] → **Windows**. You can open multiple pages and switch back and forth between them.

- To reload the current web page, press [▤] → **Refresh**.
- To go to the next page in history, press [▤] → **Forward**.
- To bookmark the current web page, press [▤] → **Add bookmark**.
- To add the bookmark shortcut to the idle screen, press [▤] → **More** → **Add shortcut to Home**.
- To add the RSS feed, press [▤] → **Add RSS feeds**.
- To search for text on the web page, press [▤] → **More** → **Find on page**.
- To view the web page details, press [▤] → **More** → **Page info**.
- To send the web address (URL) of the web page to others, press [▤] → **More** → **Share page**.
- To view the download history, press [▤] → **More** → **Downloads**.
- To customise the browser settings, press [▤] → **More** → **Settings**.

› Bookmark your favourite web pages

If you know the web address of the web page, you can manually add a bookmark. To add a bookmark,

1 In Idle mode, open the application list and select **Internet**.
2 Select [icon] → **Bookmarks**.
3 Select **Add** or press [▤] → **Bookmark last-viewed page**.
4 Enter a page title and a web address (URL).
5 Select **OK**.

From the bookmark list, tap and hold a bookmark and use the following options:

- To open the web page in the current window, select **Open**.
- To open the web page in a new window, select **Open in new window**.
- To edit the bookmark details, select **Edit bookmark**.
- To add the bookmark shortcut to the idle screen, select **Add shortcut to Home**.
- To send the web address of the web page to others, select **Share link**.
- To copy the web address of the web page, select **Copy link URL**.
- To delete the bookmark, select **Delete bookmark**.
- To use the web page as your homepage of the browser, select **Set as homepage**.

› **Access the frequently visited pages or the recent history**

1 In Idle mode, open the application list and select **Internet**.

2 Select ⊞ → **Most visited** or **History**.

3 Select a web page to access.

You can add a web page to the bookmark list by selecting the star icon on the right.

DCD

Learn to receive a variety of news and real time information about sports and entertainment at any moment. This information will be displayed in the DCD panel on the idle screen.

1 In Idle mode, open the application list and select **DCD**.

2 Receive a variety of news and real time information about sports and entertainment at any moment.

For more details, contact your service provider.

Game Hall

You can access the game website to download new games. In Idle mode, open the application list and select **Game Hall**.

随e行宽带

You can access your service provider's customer services.

In Idle mode, open the application list and select **随e行宽带**.

Navigation

Learn to use Navigation to find your location, search the online map for streets or cities, and get directions. In Idle mode, open the application list and select **Navigation**.

Mobile Music

You can access the online music store, and search for and buy your favourite songs.

In Idle mode, open the application list and select **Mobile Music**.

Mobile Reader

Learn to access the online ebook reader service and read electronic book, contents, such as a variety of books, newspaper, and magazines.

1 In Idle mode, open the application list and select **Mobile Reader**.

2 Select a category → an ebook content.

Mobile Stock

Learn to access online stock service preset by your service provider.

1 In Idle mode, open the application list and select **Mobile Stock**.

2 Use the online stock transaction service to check market conditions.

Mobile TV

You can watch popular TV programs with your device.

In Idle mode, open the application list and select **Mobile TV**.

Mobile Video

Learn to access the VOD (Video-On-Demand) service to play streaming videos.

1 In Idle mode, open the application list and select **Mobile Video**.

2 Search for and play videos.

Search

You can search for applications in your device and specific data on the web.

1 In Idle mode, open the application list and select **Search**.

2 Enter a letter or a word of the data to search for.

3 Select the item's name you want to access or select .

Connectivity

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 10 m without requiring a physical connection.

You do not need to line up the devices to beam information with Bluetooth. If the devices are within range of one another, you can exchange information between them even if they are located in different rooms.

> - Samsung is not responsible for the loss, interception, or misuse of data sent or received via the Bluetooth wireless feature.
> - Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.
> - Some devices, especially those that are not tested or approved by Bluetooth SIG, may be incompatible with your device.

❯ Turn on the Bluetooth wireless feature

1 In Idle mode, open the application list and select **Settings → Wireless & networks**.

2 Select **Bluetooth** to turn on the Bluetooth wireless feature.

› Find and pair with other Bluetooth-enabled devices

1   In Idle mode, open the application list and select **Settings → Wireless & networks → Bluetooth settings → Scan for devices**.

2   Select a device.

3   Enter a PIN for the Bluetooth wireless feature or the other device's Bluetooth PIN, if it has one, and select **OK**. Alternatively, select **Pair** to match the PIN between your device and the device.

    When the owner of the other device enters the same PIN or accepts the connection, pairing is complete. If the pairing is successful, the device will automatically search for available services.

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

› Send data using the Bluetooth wireless feature

1   Select a file or item, such as a contact, calendar event, memo, or media file, from an appropriate application or **My Files**.

2   Press [≡] → **Share**, **Send via**, or **Send namecard via** → **Bluetooth**.

3   Search for and paired with a Bluetooth-enabled device.

› Receive data using the Bluetooth wireless feature

1 In Idle mode, open the application list and select **Settings → Wireless & networks → Bluetooth settings → Discoverable**.

   Your device is visible to other Bluetooth devices for 120 seconds.

2 When prompted, select Pair to match the Bluetooth PIN or enter the Bluetooth PIN and select **OK** (if necessary).

3 Open the shortcuts panel.

4 Select the Bluetooth share notification → **Accept** to confirm that you are willing to receive data from the device.

Received data is saved to the bluetooth folder.

WLAN

Learn to use your device's wireless networking capabilities to activate and connect to any wireless local area network (WLAN) compatible with the IEEE 802.11 b/g/n standards.

You can connect to the internet or other network devices anywhere an access point or wireless hotspot is available.

› Activate the WLAN feature

In Idle mode, open the application list and select **Settings** → **Wireless & networks** → **Wi-Fi**.

An active WLAN running in the background will consume battery power. To preserve battery power, activate the WLAN only when needed.

› Find and connect to a WLAN

1. In Idle mode, open the application list and select **Settings** → **Wireless & networks** → **Wi-Fi settings**.
   The device will automatically search for available WLANs.

2. Select a network under **WLAN networks**.

3. Enter a password for the network (if necessary).

4. Select **Connect**.

› Add a WLAN manually

1. In Idle mode, open the application list and select **Settings** → **Wireless & networks** → **Wi-Fi settings** → **Add WLAN network**.

2. Enter the SSID for the network and select the security type.

3. Set the security settings depending on the selected security type.

4. Select **Save**.

Mobile network sharing

Learn to set your device as a wireless modem or wireless access point for PCs or other devices, and share your device's mobile network connection.

› Share your device's mobile network via WLAN

1   In Idle mode, open the application list and select **Settings → Wireless & networks → Tethering & portable hotspot**.

2   Select **Portable Wi-Fi hotspot** to activate the mobile AP feature.

3   Select **Portable Wi-Fi hotspot settings → Configure Wi-Fi hotspot** to customise the mobile AP feature:

Option	Function
Network SSID	View and edit the device name that will be shown to external devices.
Security	Select the security type.

4   When you are finished, select **Save**.

5   From another device, locate your device's name in the available connection list and connect to the network.

Your device shares the mobile network connection on another device.

› Share your device's mobile network via USB

You can set your device as a wireless modem for PCs and share your device's mobile network connection via USB.

1 Using a PC data cable, connect the multifunction jack on your device to a PC.

2 In Idle mode, open the application list and select **Settings** → **Wireless & networks** → **Tethering & portable hotspot**.

3 Select **USB tethering** to activate the USB tethering feature.

Your device will share the mobile network connection on your PC.

To stop sharing the network connection, clear the check box next to **USB tethering**.

The sharing method for the network connection may differ depending on the PC's operating system.

GPS

Your device is equipped with a global positioning system (GPS) receiver. Learn to activate location services.

To receive better GPS signals, avoid using your device in the following conditions:

- between buildings, in tunnels or underground passages, or inside buildings
- in poor weather
- around high voltage or electromagnetic fields

Do not touch the internal antenna area or cover this area with your hands or other objects while using the GPS functions.

This feature may be unavailable depending on your region or service provider.

You must activate location services to receive location information and search the map.

1 In Idle mode, open the application list and select **Settings → Location & security**.

2 Adjust the following settings to activate location services:

Option	Function
Use wireless networks	Set to use WLAN and/or mobile networks for finding your location.
Use GPS satellites	Set to use the GPS satellite for finding your location.

PC connections

Learn to connect your device to a PC with a PC data cable in various USB connection modes. By connecting the device to a PC, transfer data to and from your device directly and use the Samsung Kies program.

Ensure that Samsung Kies is installed on your PC. You can download the program from the Samsung website (www.samsung.com/kies).

1 Using a PC data cable, connect the multifunction jack on your device to a PC.

Samsung Kies will launch automatically.

If Samsung Kies does not automatically launch, double-click the Samsung Kies icon on your PC.

2 Copy files from the PC to the device.

Refer to the Samsung Kies help for more information.

› **Connect as a mass storage device**

You can connect your device to a PC as a removable disk and access the file directory. If you insert a memory card in the device, you can also access the file directory of the memory card by using the device as a memory card reader.

The file directory of the memory card will appear as a removable disk, separate from the internal memory.

1 If you want to transfer files from or to a memory card, insert a memory card into the device.

2 Using a PC data cable, connect the multifunction jack on your device to a PC.

3 Open the shortcuts panel.

4 Select **USB connected** → **Turn on USB storage** → **OK**.

5 Open the folder to view files.

6 Copy files from the PC to the memory card.

7 When you are finished, select **Turn off USB storage**.

To disconnect the device from the PC, click the USB device icon on the Windows task bar and click the option to safely remove the mass storage device. Then remove the PC data cable from the PC. Otherwise, you may lose data stored on the memory card or damage the memory card.

VPN connections

You can create virtual private networks (VPN) and connect to your private network securely through a public network, such as the internet.

Your device should already be configured with internet access. If you have trouble accessing the internet, you need to edit connections. If you are not sure about the connection information to enter, ask your service provider.

› Set up VPN connections

1 In Idle mode, open the application list and select **Settings → Wireless & networks → VPN setitngs → Add VPN**.

2 Select a VPN type.

3 Customise the connection information.

Available options may vary depending on the VPN type.

Option	Function
VPN name	Enter a name of the VPN server.
Set VPN server	Enter the IP address of the VPN server.
Enable encryption	Set to encrypt the VPN server.
Set IPsec pre-shared key	Enter a pre-shared key.
Enable L2TP secret	Set to use the L2TP secret password.
Set L2TP secret	Enter the L2TP secret password.
Set user certificate	Select a user certificate that the VPN server uses to identify you. You can import certificates from the VPN server or download from the web.
Set CA certificate	Select a certificate authority (CA) certificate that the VPN server uses to identify you. You can import certificates from the VPN server or download from the web.
DNS search domains	Enter the domain name server (DNS) address.

4 When you are finished, press [▤] → **Save**.

› Connect to a private network

1 In Idle mode, open the application list and select
   **Settings → Wireless & networks → VPN setitngs →
   Add VPN**.

2 Select a private network to connect.

3 Enter the user name and password and select **Connect**.

Tools

Clock

Learn to use clock display on the Idle screen, and set and control alarms for important events.

❯ Use the clock display

1 In Idle mode, open the application list and select **Clock**.
2 While using the clock display, use the following features:
   - To create or delete an alarm, select 🕐.
   - To play a slideshow with photos in Gallery, select 🖼.
   - To launch the music player, select 🎵.
   - To return to the idle screen, select 🏠.

❯ Set a new alarm

1 In Idle mode, open the application list and select **Clock**.
2 Press [≡] → **Add alarm**.
3 Set alarm details.
4 When you are finished, select **Done**.

❯ Stop an alarm

When the alarm sounds,

- Select **Dismiss** to stop the alarm.
- Select **Snooze** to repeat the alarm after a specified length of time.

Calculator

Learn to perform mathematical calculations directly on your device like a typical hand-held or desktop calculator.

1 In Idle mode, open the application list and select **Calculator**.

2 Use the keys that correspond to the calculator display to perform basic mathematical operations.

3 Press [▤] → **Advanced panel** to use scientific calculator.

Downloads

Learn to open and manage files you have downloaded from the web and email.

1 In Idle mode, open the application list and select **Downloads**.

2 Select a download folder.

3 To open a file, select the file.

To delete a file, select the check box and then select **Delete**.

My files

Learn to quickly and easily access all of your images, videos, music, sound clips, and other types of files stored in your device and memory card.

1 In Idle mode, open the application list and select **My files**.

2 Select a folder → a file.

In a folder, press [≡] to use the following options:

• To send a file to others via multimedia message, email or the Bluetooth wireless feature, select **Share**.
• To create a new folder, select **Create folder**.
• To delete files or folders, select **Delete**.
• To change the view mode, select **View by**.
• To sort files or folders, select **List by**.
• To use additional features using a file, such as moving, copying, or renaming options, select **More**.

Task manager

With the task manager, you can view currently running applications, package size of applications, and memory information, and monitor the RAM memory.

1 In Idle mode, open the application list and select **Task manager**.

2 Use the following options:

- **Active applications**: View the list of all the applications currently running on your device.
- **Package**: View the package size of applications installed on your device.
- **RAM**: Check and manage the RAM memory.
- **Storage**: View the used and available memory on your device and memory card.
- **Help**: View help information about extending battery life.

Settings

Access the Settings menu

1. In Idle mode, open the application list and select **Settings**.
2. Select a setting category and select an option.

Wireless & networks

Change the settings for wireless network connections.

› Flight mode

Disable all wireless functions on your device. You can use only non-network services.

› Wi-Fi

Turn the WLAN feature on or off. ► p. 87

› Wi-Fi settings

- **Wi-Fi**: Turn the WLAN feature on or off. ► p. 87
- **Network notification**: Set the device to notify you when an open network is available.
- **Add WLAN network**: Add WLAN APs manually.

❯ Bluetooth

Bluetooth: Turn the Bluetooth wireless feature on or off.
► p. 84

❯ Bluetooth settings

- **Bluetooth**: Turn the Bluetooth wireless feature on or off.
  ► p. 84
- **Device name**: Set a Bluetooth name for your device.
- **Discoverable**: Set your device to be visible to other Bluetooth devices.
- **Scan for devices**: Search for available Bluetooth devices.

❯ Tethering & portable hotspot

- **USB tethering**: Activate the USB tethering feature to share your device's mobile network connection with PCs via USB. When connected to a PC, your device is used as a wireless modem for a PC. ► p. 89
- **Portable Wi-Fi hotspot**: Activate the mobile AP feature to share your device's mobile network connection with PCs or other devices through the WLAN feature. ► p. 88
- **Portable Wi-Fi hotspot settings**: Change the settings to customise the mobile AP feature.

❯ VPN settings

Set up and manage Virtual Private Networks (VPNs). ► p. 92

› Mobile networks

- **Use packet data**: Set to allow packet switched data networks for network services.
- **Data roaming**: Set the device to connect another network when you are roaming or your home network is not available.
- **Access Point Names**: Set up access point names (APNs).
- **Use only 2G networks**: Set to connect only to a GPRS or EDGE network.
- **Network operators**: Search for available networks and select a network for roaming.

Call settings

Customise the settings for calling features.

› Fixed Dialing Numbers

- **Enable FDN**: Activate or deactivate FDN mode to restrict calls to numbers in the FDN list. You must enter the PIN2 supplied with your SIM or USIM card and reboot the device.
- **Change PIN2**: Change the PIN2, which is used to protect the primary PIN. If the SIM or USIM card is locked, this menu changes to **Unblock PIN2**.
- **FDN list**: Set up a list of contacts for fixed dialling.

› **Reject call with message**

Select a message to be sent to a caller when you reject a call.

› **Auto reject**

Enable or disable the auto reject feature and specify a list of callers to automatically reject.

› **Answering call**

Set how to answer calls by pressing any key or set the device to answer automatically after a specified period.

› **Prefix dialling**

Activate prefix dialling and set up prefix dialling numbers.

› **Alerts on call**

Activate or deactivate alerts during a call.

› **IP Call List**

Add or manage IP call prefix numbers.

› **Phone number locator**

Set whether to show region information on calls, or update the information from the server.

› **Voicemail service**

Select your service provider's voicemail service. You can also select other voicemail services if you downloaded applications that support them.

› **Voicemail number**

Enter the number to access the voicemail service. You can obtain this number from your service provider.

› **Use call fail options**

Select whether or not to retry a voice call when a video call fails to connect.

› **Automatic accept**

Set whether to automatically accept a video call when you select the accept by voice call option.

› **Call status alert**

Set the device to vibrate when the other party answers a call.

› **Outgoing call vibration**

Set the device to vibrate when the other party answers a call.

› **Auto redial**

Activate auto redial for automatically redialling a call that was not connected or cut off during a call.

❯ **Call barring**

Block incoming or outgoing calls.

❯ **Call forwarding**

Divert incoming calls to another number.

❯ **Additional settings**

- **Caller ID**: Display your caller ID to other parties for outgoing calls.
- **Call waiting**: Allow incoming call alerts when a call is in progress.

Sound

Change the settings for various sounds on your device.

- **Silent mode**: Activate the silent mode to mute all sounds except media sounds and alarm ringtones.
- **Vibrate**: Set when the device will vibrate for various events.
- **Volume**: Adjust the volume level for call ringtones, music and videos, alarm ringtones, phone system sound, and notification ringtones.
- **Phone ringtone**: Select a ringtone to alert you to incoming calls.
- **Notification ringtone**: Select a ringtone to alert you to events, such as incoming messages, missed calls, and alarms.
- **Audible touch tones**: Set the device to sound when you touch the keys on the dialling screen.

- **Audible selection**: Set the device to sound when you select an application or option on the touch screen.
- **Screen lock sounds**: Set the device to sound when you lock or unlock the touch screen.
- **Haptic feedback**: Set the device to vibrate when you touch the keys.

Display

Change the settings for the display.

- **Brightness**: Set the brightness of the display.
- **Auto-rotate screen**: Set whether or not to rotate the content automatically when the device is rotated.
- **Animation**: Set the device to display animation when you switch between windows.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.

Location & security

Change the settings for securing your device and the SIM or USIM card, and GPS functionality.

- **Use wireless networks**: Set to use WLAN and/or mobile networks for finding your location.
- **Use GPS satellites**: Enable the GPS functionality for checking locations, if supported in an application. You can view locations at street level by using the GPS.

- **Set up screen lock**: Set the unlock security code. When you have set your security code, this option changes to **Change screen lock**.
  - **None**: Disable the screen lock.
  - **Pattern**: Set an unlock pattern to unlock the screen.
  - **PIN**: Set a PIN (numeric) to unlock the screen.
  - **Password**: Set a password (alphanumeric) to unlock the screen.
- **Set up SIM card lock**:
  - **Lock SIM card**: Activate or deactivate the PIN lock feature to require the PIN before using the device.
  - **Change SIM PIN**: Change the PIN used to access SIM or USIM data.
- **Visible passwords**: By default, the device displays your password as · for security. Set the device to display your password as you enter.
- **Select device administrators**: View device administrators installed on your device. You can activate device administrators to apply new policies to your device.
- **Use secure credentials**: Use certificates and credentials to ensure secure use of various applications.
- **Install from SD card**: Install encrypted certificates that are stored on a memory card.
- **Set password**: Create and confirm a password for accessing credentials.
- **Clear storage**: Erase the credential contents from the device and reset the password.

Applications

Change the settings for managing installed applications.

- **Unknown sources**: Select to download applications from any source. If you do not select this option, you can download applications only from Android Market.
- **Manage applications**: Access the list of the applications installed on the device and check the application information.
- **Running services**: View the services you are using and access them to manage.
- **Storage use**: View available memory and the memory used by applications on your device.
- **Battery use**: View the amount of power consumed by your device.
- **Development**:
  - **USB debugging**: Select to connect your device to a PC by using a PC data cable. This is for application development.
  - **Stay awake**: Set the device's screen to stay on while charging the battery.
  - **Allow mock locations**: Allow mock locations and service information to be sent to a Location Manager service for testing. This is for application development.

Accounts & sync

Change the settings for the auto sync feature or manage accounts for synchronisation.

- **Background data**: Select this setting to use the auto sync feature. The auto sync will run in the background without opening applications and synchronise data.
- **Auto-sync**: Set the device to synchronise contact, calendar, and email data automatically.

Privacy

Factory data reset: Reset your settings to the factory default values.

Storage

Check memory information of memory cards and your device, and format the external or internal memory.

Language & keyboard

Change the settings for text input.

› Select language

Select a display language for all menus and applications.

› User dictionary

Set up your own dictionary. The words in your dictionary will appear as word suggestions for your text inputs.

❯ Samsung IME

- **Input Mode**: Select the default input method, such as the QWERTY keyboard, traditional keypad, or handwriting screen.
- **English Prediction**: Activate XT9 mode to enter text using Predictive input mode.
- **Input Language**: Select languages for text input.

> You cannot enter text in some languages. To enter text, you should change the writing language to one of the supported languages.

- **Fuzzy Pinyin Input**: Customize the Fuzzy settings.
- **Handwriting setting**: Customise the recognition time in Handwriting mode.

Voice input & output

Change the settings for the text-to-speech feature.

- **Listen to an example**: Listen to the spoken text for an example. Install voice data for using the text-to-speech feature.
- **Always use my settings**: Set the device to use the settings you specify in applications rather than the default settings.
- **Default engine**: Set the speech synthesis engine to be used for spoken text.
- **Install voice data**: Download and install voice data for the text-to-speech feature.
- **Speech rate**: Select a speed for the text-to-speech feature.
- **Language**: Select a language for the text-to-speech feature.
- **Engines**: View the text-to-speech engines downloaded from Android Market.

Accessibility

Change the settings for accessibility features.

- **Accessibility**: Activate an accessibility application you have downloaded, such as Talkback or Kickback, which provide voice, melody, or vibration feedback.
- **The power key ends calls**: Set the device to end a call when you press the Power/Lock key.

Date and time

Access and alter the following settings to control how time and date are displayed on your device:

- **Automatic**: Automatically update the time when you move across time zones.
- **Set date**: Set the current date manually.
- **Select time zone**: Set your home time zone.
- **Set time**: Set the current time manually.
- **Use 24-hour format**: Set to the time to be displayed in 24-hour format.
- **Select date format**: Select a date format.

About phone

Access information about your device, check the device's status, and learn how to use your device.

Overview of menu functions

The following table shows available menus in Menu mode. The order of menus may differ depending on the software of the device and you are able to change the order. Available menus may differ depending on your service provider or SIM or USIM card.

Clock	► 95	Downloads	► 96
Calendar	► 74	Fetion	► 56
Music	► 66	MM	► 41
Gallery	► 64	Mobile Stock	► 82
Internet	► 77	Mobile Music	► 82
Email	► 54	Mobile Reader	► 82
Settings	► 99	Mobile TV	► 83
Calculator	► 96	Navigation	► 81
Task manager	► 98	Notes	► 75
139 邮箱	► 57	Search	► 83
Camera	► 58	DCD	► 81

Mobile Video	► 83
Game Hall	► 81
My files[1]	► 97
Voice recorder	► 76

1. Additional folders will be available if you insert a memory card.

Troubleshooting

When you turn on your device or while you are using the device, it prompts you to enter one of the following codes:

Code	Try this to solve the problem:
Password	When the device lock feature is enabled, you must enter the password you set for the device.
PIN	When using the device for the first time or when the PIN requirement is enabled, you must enter the PIN supplied with the SIM or USIM card. You can disable this feature by using the **Lock SIM card** menu.
PUK	Your SIM or USIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.
PIN2	When you access a menu requiring the PIN2, you must enter the PIN2 supplied with the SIM or USIM card. For details, contact your service provider.

Your device displays network or service error messages

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again.
- You cannot access some options without a subscription. Contact your service provider for more details.

The touch screen responds slowly or improperly

If your device has a touch screen and the touch screen is not responding properly, try the following:

- Remove any protective covers from the touch screen. Protective covers may prevent the device from recognising your inputs and are not recommended for touch screen devices.
- Ensure that your hands are clean and dry when tapping the touch screen.
- Restart your device to clear any temporary software bugs.
- Ensure that your device software is upgraded to the latest version.
- If the touch screen is scratched or damaged, take it to your local Samsung Service Centre.

Your device freezes or has fatal errors

If your device freezes or hangs, you may need to close programs or reset the device to regain functionality. If your device is frozen and unresponsive, press and hold the Power/Lock key for 8-10 seconds. The device will reboot automatically.

If this does not solve the problem, perform a factory data reset. In Idle mode, open the application list and select **Settings → Privacy → Factory data reset → Reset phone → Erase everything**.

Calls are being dropped

When you are in areas with weak signals or poor reception, you may lose your connection to the network. Move to another area and try again.

Outgoing calls are not connected

- Ensure that you have pressed the Dial key.
- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number you are dialling.

Incoming calls are not connected

- Ensure that your device is turned on.
- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the incoming phone number.

Others cannot hear you speaking on a call

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

Audio quality is poor

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again.

When dialling from contacts, the call is not connected

- Ensure that the correct number is stored in the contact list.
- Re-enter and save the number, if necessary.
- Ensure that you have not set call barring for the contact's phone number.

The device beeps and the battery icon flashes

Your battery is low. Recharge or replace the battery to continue using the device.

The battery does not charge properly or the device turns off

- The battery terminals may be dirty. Wipe both gold-coloured contacts with a clean, soft cloth and try charging the battery again.
- If the battery will no longer charge completely, dispose of the old battery properly and replace it with a new battery (refer to your local ordinances for proper disposal instructions).

Your device is hot to the touch

When you use applications that require more power or use applications on your device for an extended period of time, your device may feel hot to the touch. This is normal and should not affect your device's lifespan or performance.

Error messages appear when launching the camera

Your Samsung mobile device must have sufficient available memory and battery power to operate the camera application. If you receive error messages when launching the camera, try the following:

- Charge the battery or replace it with a battery that is fully charged.
- Free some memory by transferring files to a PC or deleting files from your device.
- Restart the device. If you are still having trouble with the camera application after trying these tips, contact a Samsung Service Centre.

Error messages appear when opening music files

Some music files may not play on your Samsung mobile device for a variety of reasons. If you receive error messages when opening music files on your device, try the following:

- Free some memory by transferring files to a PC or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate license or key to play the file.
- Ensure that your device supports the file type.

Another Bluetooth device is not located

- Ensure that the Bluetooth wireless feature is activated on your device.
- Ensure that the Bluetooth wireless feature is activated on the device you wish to connect to, if necessary.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).

If the tips above do not solve the problem, contact a Samsung Service Centre.

A connection is not established when you connect the device to a PC

- Ensure that the PC data cable you are using is compatible with your device.
- Ensure that you have the proper drivers installed and updated on your PC.

Safety precautions

To prevent injury to yourself and others or damage to your device, read all of the following information before using your device.

Warning: Prevent electric shock, fire, and explosion

Do not use damaged power cords or plugs, or loose electrical sockets

Do not touch the power cord with wet hands, or disconnect the charger by pulling on the cord

Do not bend or damage the power cord

Do not use your device while charging or touch your device with wet hands

Do not short-circuit the charger or the battery

Do not drop or cause an impact to the charger or the battery

Do not charge the battery with chargers that are not approved by the manufacturer

Do not use your device during a thunderstorm

Your device may malfunction and your risk of electric shock is increased.

Do not handle a damaged or leaking Lithium Ion (Li-Ion) battery

For safe disposal of your Li-Ion batteries, contact your nearest authorised service centre.

Handle and dispose of batteries and chargers with care

- Use only Samsung-approved batteries and chargers specifically designed for your device. Incompatible batteries and chargers can cause serious injuries or damage to your device.
- Never dispose of batteries or devices in a fire. Follow all local regulations when disposing of used batteries or devices.

Ensure access to emergency services

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

Specific Absorption Rate (SAR) certification information

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

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body. Non-compliance with the above restrictions may result in violation of FCC 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 FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this and other model phones can be view on-line at hppt://www.fcc.gov/oet/ea/fccid.This site uses the phone FCC ID number, A3LGTS5820. 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 webiste 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.

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

• This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Howerver, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful

interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

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

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

Cautions

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

Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

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

If you are using a hearing aid, contact the manufacturer for information about radio interference

Some hearing aids may be interfered with by the radio frequency of your device. Contact the manufacturer to ensure the safety of your hearing aid.

Turn off the device in potentially explosive environments

- Turn off your device in potentially explosive environments instead of removing the battery.
- Always comply with regulations, instructions and signs in potentially explosive environments.
- Do not use your device at refuelling points (service stations) or near fuels or chemicals.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories.

Turn off your device when in an aircraft

Using your device in an aircraft is illegal. Your device may interfere with the electronic navigation instruments of the aircraft.

Electronic devices in a motor vehicle may malfunction due to the radio frequency of your device

Electronic devices in your car may malfunction due to radio frequency of your device. Contact the manufacturer for more information.

Comply with all safety warnings and regulations regarding mobile device usage while operating a vehicle

While driving, safely operating the vehicle is your first responsibility. Never use your mobile device while driving, if it is prohibited by law. For your safety and the safety of others, practice good common sense and remember the following tips:

- Use a hands-free device.
- Get to know your device and its convenience features, such as speed dial and redial. These features help you reduce the time needed to place or receive calls on your mobile device.
- Position your device within easy reach. Be able to access your wireless device without removing your eyes from the road. If you receive an incoming call at an inconvenient time, let your voice mail answer it for you.

- Let the person you are speaking with know you are driving. Suspend calls in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice, and heavy traffic can be hazardous.
- Do not take notes or look up phone numbers. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility of driving safely.
- Dial sensibly and assess the traffic. 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, dial only a few numbers, check the road and your mirrors, then continue.
- 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.
- Use your device to call for help. Dial a local emergency number in the case of fire, traffic accident, or medical emergencies.
- Use your device to help others in emergencies. If you see an auto accident, a crime in progress, or a serious emergency where lives are in danger, call a local emergency number.
- Call roadside assistance or a special, non-emergency 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 another special, non-emergency number.

Proper care and use of your mobile device

Keep your device dry
- Humidity and all types of liquids may damage device parts or electronic circuits.
- When wet, remove the battery without turning on your device. Dry your device with a towel and take it to a service centre.
- Liquids will change the colour of the label that indicates water damage inside the device. Water damage to your device can void your manufacturer's warranty.

Do not use or store your device in dusty, dirty areas
Dust can cause your device to malfunction.

Do not store your device on slopes
If your device falls, it can be damaged.

Do not store your device in hot or cold areas. Use your device at -20 °C to 50 °C

- Your device can explode if left inside a closed vehicle, as the inside temperature can reach up to 80 °C.
- Do not expose your device to direct sunlight for extended periods of time (such as on the dashboard of a car).
- Store the battery at 0 °C to 40 °C.

Do not store your device with such metal objects as coins, keys and necklaces

- Your device may become deformed or malfunction.
- If the battery terminals are in contact with metal objects, it may cause a fire.

Do not store your device near magnetic fields

- Your device may malfunction or the battery may discharge from exposure to magnetic fields.
- Magnetic stripe cards, including credit cards, phone cards, passbooks, and boarding passes, may be damaged by magnetic fields.
- Do not use carrying cases or accessories with magnetic closures or allow your device to come in contact with magnetic fields for extended periods of time.

Do not store your device near or in heaters, microwaves, hot cooking equipment, or high pressure containers

- The battery may leak.
- Your device may overheat and cause a fire.

Do not drop your device or cause impacts to your device

- The screen of your device may be damaged.
- If bent or deformed, your device may be damaged or parts may malfunction.

Do not use a flash close to the eyes of people or animals

Using a flash close to the eyes may cause temporary loss of vision or damage to the eyes.

Ensure maximum battery and charger life

- Avoid charging batteries for more than a week, as overcharging may shorten battery life.
- Over time, unused batteries will discharge and must be recharged before use.
- Disconnect chargers from power sources when not in use.
- Use batteries only for their intended purposes.

Maximum battery life

This information is based on fully charged batteries.

Battery Time[1]	Standard battery (xxxx mAh)	
	GSM	WCDMA
Standby time	up to xxx hours	up to xxx hours
Voice call time[2]	up to xxx minutes	up to xxx minutes
Video call time	up to XXX hours	up to XXX minutes

1. Battery life is affected by many conditions, including your usage habits and the condition of the battery. As a result, all talk times and standby times are estimates and cannot be guaranteed.

2. Criterion for Measuring Time: The talk time is measured with an input level of +10 dBm, Voice Rate Half.

Depending on how you use your device, actual operation time may vary and may be shorter than declared. Standby time will be reduced in the following conditions:

- When you use the additional features on your device such as writing and storing messages, playing games, and connecting to the internet
- If you are frequently out of the service area
- If you are out of the service area for a long period of time
- If you use Talk mode repeatedly

Use manufacturer-approved batteries, chargers, accessories and supplies

- Using generic batteries or chargers may shorten the life of your device or cause the device to malfunction.
- Samsung cannot be responsible for the user's safety when using accessories or supplies that are not approved by Samsung.

Do not bite or suck on the device or the battery

- Doing so may damage the device or cause explosion.
- If children use the device, make sure that they use the device properly.

When speaking on the device:

- Hold the device upright, as you would with a traditional phone.
- Speak directly into the mouthpiece.

- Avoid contact with your device's internal antenna. Touching the antenna may reduce the call quality or cause the device to transmit more radio frequency than necessary.
- Hold the device with a relaxed grip, press the keys lightly, use special features that reduce the number of keys you have to press (such as templates and predictive text), and take frequent breaks.

Protect your hearing

- Excessive exposure to loud sounds can cause hearing damage.
- Exposure to loud sounds while driving may distract your attention and cause an accident.
- Always turn the volume down before plugging the earphones into an audio source and use only the minimum volume setting necessary to hear your conversation or music.

Use caution when using the device while walking or moving

Always be aware of your surroundings to avoid injury to yourself or others.

Do not carry your device in your back pockets or around your waist

You can be injured or damage the device if you fall.

Do not disassemble, modify, or repair your device

- Any changes or modifications to your device can void your manufacturer's warranty. For service, take your device to a Samsung Service Centre.
- Do not disassemble or puncture the battery, as this can cause explosion or fire.

Do not paint or put stickers on your device

Paint and stickers can clog moving parts and prevent proper operation. If you are allergic to paint or metal parts of the product, you may experience itching, eczema, or swelling of the skin. When this happens, stop using the product and consult your physician.

When cleaning your device:

- Wipe your device or charger with a towel or a rubber.
- Clean the terminals of the battery with a cotton ball or a towel.
- Do not use chemicals or detergents.

Do not use the device if the screen is cracked or broken

Broken glass or acrylic could cause injury to your hands and face. Take the device to a Samsung Service Centre to have it repaired.

Do not use the device for anything other than its intended use

Avoid disturbing others when using the device in public

Do not allow children to use your device

Your device is not a toy. Do not allow children to play with it as they could hurt themselves and others, damage the device, or make calls that increase your charges.

Install mobile devices and equipment with caution

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

Allow only qualified personnel to service your device

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

Handle SIM cards or memory cards with care

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

Ensure access to emergency services

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

Be sure to back up important data

Samsung is not responsible for data loss.

Do not distribute copyright-protected material

Do not distribute copyright-protected material that you have recorded to others without the permission of the content owners. Doing this may violate copyright laws. The manufacturer is not liable for any legal issues caused by the user's illegal use of copyrighted material.

The names and content of toxic and hazardous substances or elements

Part	Toxic and hazardous substances or elements					
	Pb	Hg	Cd	Cr^{6+}	PBB	PBDE
PBA	X	O	O	O	O	O
Plastic	O	O	O	O	O	O
Metal	X	O	O	O	O	O
Battery	X	O	O	O	O	O
Accessory	X	O	O	O	O	O

O: Indicates that the toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit specified in SJ/T11363-2006.

X: Indicates that the toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit specified in SJ/T11363-2006.

The information provided in this table is based on figures presented by supply manufacturers and tests conducted by Samsung. All toxic and hazardous substances or elements are used at the minimum level allowed by current technology. Samsung continues to make every effort to reduce the need for these substances or elements through improved technology.

The "environmental protection use period" for this product is 20 years and the corresponding logo is as shown on the left. Exchangeable parts, such as batteries, may have different periods of warranty. The "environmental protection use period" is valid only when the product is used under normal conditions, as described in the user manual.

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