

Samsung GALAXY S III

A N D R O I D S M A R T P H O N E

User Manual

**Please read this manual before operating your
phone and keep it for future reference.**



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Section 1: Getting Started

This section allows you to quickly start using your Samsung GALAXY S III phone by installing and charging the battery, activating your service, and setting up your voicemail account.

Understanding this User Manual

The sections of this manual generally follow the features of your phone. A robust index for features begins on page 205.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 169.

This manual gives navigation instructions according to the default display settings. If you select other settings, navigation steps may be different.

Unless otherwise specified, all instructions in this manual assume that you are starting from the Home screen. To get to the Home screen, you may need to unlock the phone or keypad.

For more information, refer to “*Securing Your Phone*” on page 15.

Note: Instructions in this manual are based on default settings, and may vary from your phone, depending on the software version on your phone, and any changes to the phone’s Settings.

Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your phone and any changes to the phone’s Settings.

Special Text

In this manual, you’ll find text that is set apart from the rest. These are intended to point out important information, share quick methods for activating features, to define terms, and more.



The definitions for these methods are as follows:

- **Notes:** Presents alternative options for the current feature, menu, or sub-menu.
- **Tips:** Provides quick or innovative methods, or useful shortcuts.
- **Example:** Gives an example of the feature or procedure.
- **Important:** Points out important information about the current feature that could affect performance.
- **Warning:** Brings to your attention important information to prevent loss of data or functionality, or even prevent damage to your phone.

Text Conventions

This manual provides condensed information about how to use your phone. To make this possible, the following text conventions are used to represent often-used steps:

- Arrows are used to represent the sequence of selecting successive options in longer, or repetitive, procedures.

Example: “Press  Home, and then touch  Menu → Settings → Wi-Fi”.

Setting Up Your Phone

Before using your phone, you need to install the battery and, if desired, an optional microSD™ card.

Important! Before removing or replacing the battery cover, make sure the phone is switched off.

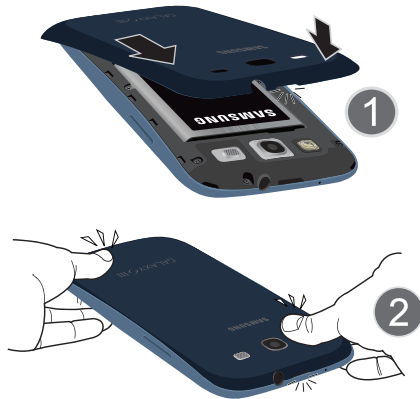
Removing the battery cover

1. Locate the cover removal opening (1).
2. Place your fingernail in the opening and pry the cover away from the device (2).



Installing the battery cover

- Align the cover (1) and press it firmly into place (2), making sure it snaps into place at the corners.



Caution! Do not bend or twist the back cover excessively.
Doing so may damage the cover.

Battery

Your phone is powered by a rechargeable, standard Li-Ion battery. A Wall/USB Charger (Charging Head and USB cable) is included with the phone, for charging the battery.


Note: The battery comes partially charged. You must fully charge the battery before using your phone for the first time. A fully discharged battery requires up to 4 hours of charge time.

After the first charge, you can use the phone while charging.

Warning! Use only Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage.

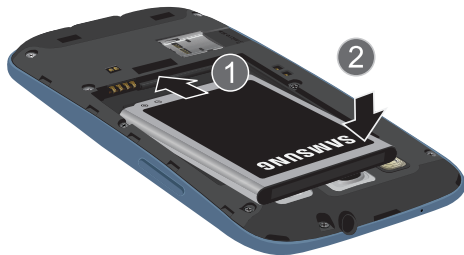
Note: Failure to unplug the wall charger before you remove the battery, can cause damage to the phone.

Battery Indicator

The battery icon  in the Annunciator Line shows battery power level. Two to three minutes before the battery becomes too low to operate your phone, the empty battery icon will flash and a tone will sound. If you continue to operate the phone without charging the battery, the phone will power off.

Installing the Battery

1. Remove the battery cover.
For more information, refer to “*Removing the battery cover*” on page 6.
2. Slide the battery into the compartment (1) so that the tabs on the end align with the slots at the bottom of the phone, making sure the connectors align.
3. Gently press down to secure the battery (2).



Removing the Battery

1. Remove the battery cover.
For more information, refer to “*Removing the battery cover*” on page 6.
2. Lift the battery up by the slot provided (1).



3. Lift the battery up and out of the phone (2).

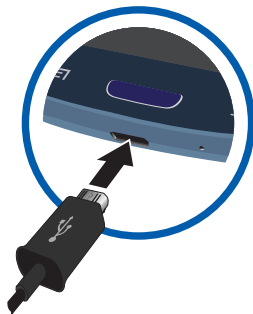
Charging the Battery

Your phone is powered by a rechargeable Li-ion battery. A wall charger, which is used for charging the battery, is included with your phone. Use only approved batteries and chargers. Ask your local Samsung dealer for further details. Before using your phone for the first time, you must fully charge the battery. A discharged battery recharges fully in approximately 4 hours.

Note: Verify that the battery is installed prior to connecting the wall charger. If both the wall charger is connected and the battery is not installed, the handset will power cycle continuously and prevent proper operation. Failure to unplug the wall charger before you remove the battery, can cause the phone to become damaged.

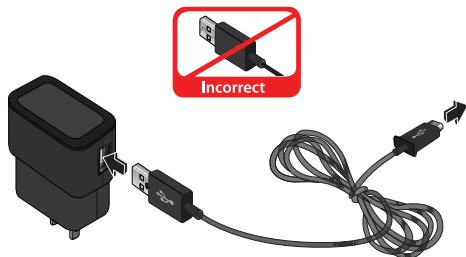
Important! It is recommended you fully charge the battery before using your device for the first time.

1. Insert the USB cable into the device's Charger/Accessory jack at the bottom of the device.



Note: If the USB cable is incorrectly connected, damage to the accessory port will occur therefore voiding the phone's warranty.

2. Connect the USB cable to the charging head.



3. Plug the charging head into a standard AC power outlet. The device turns on with the screen locked and indicates both its charge state and percent of charge.

Warning! While the device is charging, if the touch screen does not function due to an unstable power supply unplug the USB power adapter from the power outlet or unplug the USB cable from the device.

4. When charging is finished, first unplug the charger's power plug from the AC wall outlet, and then disconnect the USB cable connector from the device.

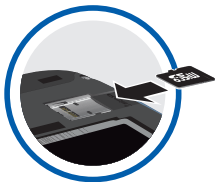
Important! If your handset has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty. For more information, refer to “*Standard Limited Warranty*” on page 192.

Installing a Memory Card

Your device lets you install an (optional) microSD™ (SD) or microSDHC™ memory card to expand available memory to store images, videos, music, applications, and data.



1. Remove the battery cover. For more information, refer to *“Removing the battery cover”* on page 6.
2. Locate the microSD card slot on the top inside of the phone.
3. With the gold contacts facing down, carefully slide the memory card into the slot (as shown), pushing gently until it clicks into place.

Important! Be sure to align the gold contact pins on the memory card with the phone's contacts.




Removing a Memory Card

Important! To prevent damage to information stored on the memory card, unmount the card before removing it from the phone.


1. Press  **Home**, and then touch  **Menu** → **Settings** → **Storage** → **Unmount SD card**.
For more information, refer to *“Storage”* on page 144.
2. Remove the battery cover.
For more information, refer to *“Removing the battery cover”* on page 6.
3. Firmly press the Memory card into the slot and carefully release it. The card should pop partially out of the slot.
4. Remove the card from the slot.
5. Replace the battery cover.
For more information, refer to *“Installing the battery cover”* on page 6.

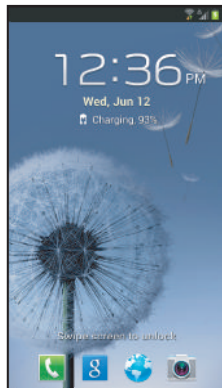
Turning Your Phone On

- Press and hold the  **Power/Lock** key (on the upper right side of the phone) for three seconds. While powering on, the phone connects with the network and then displays the Locked screen and any active Notification alerts.

Note: Your phone's internal antenna is located along the bottom back of the phone. Do not block the antenna; doing so may affect call quality or cause the phone to operate at a higher power level than necessary.


Unlocking Your Phone

1. If needed, press Press  **Home** to wake the screen.
2. If there are no Notification alerts on your phone, swipe the screen to unlock it. The Home screen appears.






Note: If you have purchased your phone online, the first time you power your phone on and unlock the screen, the Activation Wizard **Welcome** screen appears. Follow the prompts to activate and set up your phone.

Turning Your Phone Off

1. Press and hold the  **Power/Lock Key** (on the upper right side of the device) for two seconds.
2. At the prompt, touch **Power off**. The **Power off** pop-up appears.
3. At the prompt, touch **OK**.

Your Google™ Account

Your new phone uses your Google account to fully utilize its Android features, including Gmail, Google Maps, Google Talk, and the Google™ Play apps. When you turn on your phone for the first time, you should set up a connection with your existing Google account, or create a new Google account.


1. Press  **Home**, then touch  **Applications** →  **Gmail**.

The **Add a Google Account** screen displays.

2. Touch **Existing** or **New** to continue.
3. Follow the on-screen instructions to sign in if you already have a Google account, or to create a Google Account.

Creating a Samsung Account

An active Samsung account is required to use applications such as AllShare Play and Media Hub.

1. From the Home screen, touch  **Menu** → **Settings**. The **Settings** screen appears in the display.
2. Touch **Add account**.
3. Follow the on-screen instructions to complete your account.




TTY Mode

Your phone is fully TTY-compatible, allowing you to connect a TTY device to the phone's headset jack. Before you can use your phone with a TTY device, you'll need to enable TTY Mode. For more information, refer to “*Other call settings*” on page 68.




Voicemail

All unanswered calls to your phone are sent to voicemail, even if your phone is turned off, so you'll want to set up your voicemail and personal greeting as soon as you activate your phone.

Setting up Voicemail

1. Press  **Home**, then touch  **Phone**; then touch and hold .
2. Follow the automated instructions to set up your new password and record a greeting.

Checking Voicemail

1. Press  **Home**, then touch  **Phone**; then touch and hold .
2. Follow the automated instructions to manage voicemail.


Tip: You can also access **Voicemail** by dialing your phone number from any touch-tone phone.

Displaying Your Phone Number

- Press  **Home**, then touch  **Menu** → **Settings** → **About device** → **Status**.

Your phone number displays under **My phone number**.

Roaming

When you travel outside your home network's coverage area, your phone can roam to acquire service on other compatible digital networks. When Roaming is active, the Roaming icon () appears in the Status bar of the display. For more information, refer to "*Mobile networks*" on page 129.

During roaming, some services may not be available. Depending on your coverage area and service plan, extra charges may apply when making or receiving calls.

Note: Contact your wireless provider for more information about your coverage area and service plan.

Securing Your Phone

By default, the phone locks automatically when the screen times out, or you can lock it manually. You can unlock the phone using one of the default Unlock screens, or for increased security, use a personal screen unlock pattern, a personal identification number (PIN), or a password.

For more information about creating and enabling a Screen unlock pattern, see “*Lock screen*” on page 148.

Note: Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.


Locking the phone manually

- Press the  **Power/Lock** key on the top right side of the phone.

Unlocking the phone


For information on unlocking your phone, see “*Unlocking Your Phone*” on page 12.

Unlocking with a Personal Screen Unlock Pattern

1. Press  **Home** to wake the screen.
2. Draw your personal unlock pattern on the screen.

For more information, refer to “*Lock screen*” on page 148.

Unlocking with a Password

1. Press  **Home** to wake the screen.
2. Enter your Password.
3. Press **OK**.

Section 2: Understanding Your Phone

Features

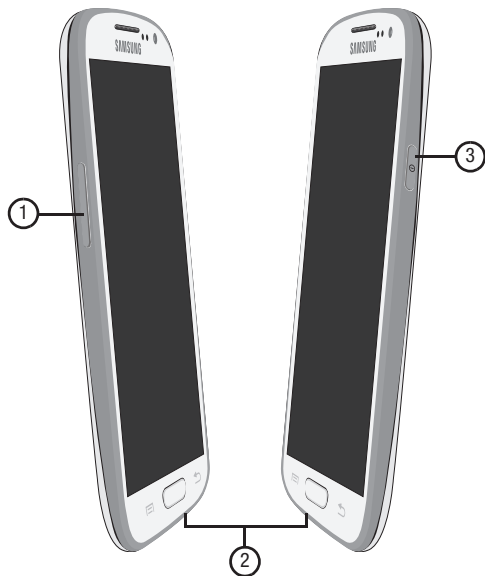
- 4.8-inch 1280x720 Super AMOLED HD touch screen
- High Speed Data [EVDO 3G - Rev B Capable Technology and Wi-Fi Technology]
- 1.5 gigahertz dual-core processor
- Android® 4.1.2 platform
- Google Play™ Store, plus pre-loaded applications
- SAFE™ Certified
- Connections
 - Wi-Fi 802.11 a/b/g/n (2.4 GHz band or 5 GHz band)
 - Portable Wi-Fi Hotspot
 - Bluetooth 4.0
 - Tethering (USB and Bluetooth)
 - VPN
 - NFC
 - Android Beam
 - S Beam
 - Wi-Fi Direct
 - AllShare Cast
 - DLNA
 - USB 2.0
- Messaging Services
 - Text Messaging
 - Picture Messaging
 - Video Messaging
 - Voice Messaging
 - Email
 - Mobile Instant Messenger (IM)
 - Chat
- 8 Megapixel Camera-Camcorder with LED flash + 1.9 Megapixel Front Camera-Camcorder
- Picture Gallery
- Video Player (1080p — MP4 and 3GP)
- DivX Certified® to play DivX® video up to HD 720p, including premium content
- Music Player (AAC, AAC+, eAAC+, MP3, and WMA)
- Speakerphone
- Support for microSD™ and microSDHC™ Memory Cards up to 64GB capacity

Front View



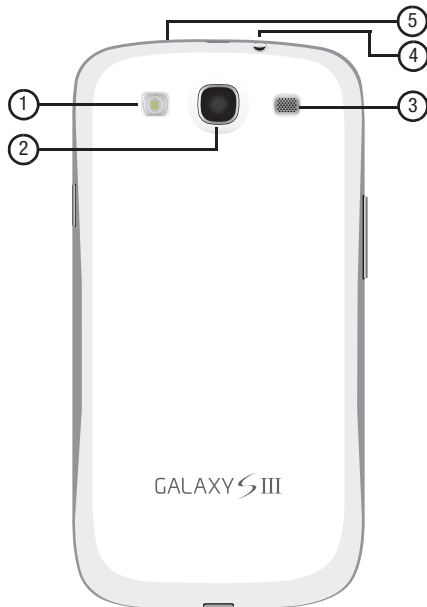
1. **Earpiece:** Use during calls to listen to callers.
2. **LED Indicator:** Flashes or glows to alert you to alert notifications or phone status.
3. **Menu Key:** Press to display options for the current screen.
4. **Home Key:** Press to display the Home screen, or Lock screen if the phone is locked. Press and hold to display recent applications or to launch Task Manager.
5. **Microphone:** Use during calls to allow callers to hear your voice, and when recording.
6. **Back Key:** Press to return to the previous screen or option.
7. **1.9 Megapixel Front Camera:** Use for taking pictures and recording video.
8. **Proximity and Light Sensors:** Detect the presence of nearby objects to control device functions or blank the screen display, such as when you hold the phone to your ear during a phone call. Detect ambient light to determine screen brightness when **Brightness** is set to **Automatic brightness**, and when taking pictures with the Front camera. For more information, refer to “*Brightness*” on page 142.

Side Views



1. **Volume Key:** From the Home screen, touch to adjust Master Volume. During calls or music playback, press to adjust volume. Press to mute the ringtone of an incoming call.
2. **USB Power/Accessory Port:** Connect a USB cable for charging or to sync music and files.
3. **Power/Lock Key:** Press and hold to turn the phone on or off. Press to lock the phone, or to wake the screen for unlocking.

Back View



1. **Camera Flash:** Use when taking photos.
2. **8 Megapixel Camera Lens:** Use when taking photos or recording videos.
3. **External Speaker:** Play ringtones, call audio when in Speakerphone mode, media sounds (music and video), and other sounds.
4. **3.5mm Headset Jack:** Plug in an optional headset or TTY equipment.
5. **Noise cancelation microphone:** Captures background noise that the phone uses to produce a quiet background during calls and video chats.

Navigation

Navigate your phone's features using the command keys and the touch screen.

Warning! Please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty.

For more information, see “*Warranty Information*” on page 192.

Context-sensitive Menus


While using your phone, context-sensitive menus offer options for the feature or screen currently in use.

To access context-sensitive menus:

- Touch  **Menu**.
- Touch and hold on an item.

Command Keys

Menu Key


Touch  **Menu** to display a context-sensitive menu of options for the current screen or feature.

Home Key

Press the  **Home Key** to display the Home screen.

Press and hold the  **Home Key** to launch a menu of recent applications, or to launch Task Manager.

Back Key

Touch  **Back** to return to the previous screen, option or step.

Home Screen

The Home screen is the starting point for using your phone.



Note: Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your phone and any changes to the phone's Settings.

1. **Status bar:** Presents icons to show network status, battery power, and connection details. For a list of icons, see “*Status Bar Icons*” on page 22.
2. **Home screen:** The starting point for using your phone. Place shortcut icons, widgets, and other items to customize your phone to your needs.
3. **Multi window tab:** Access Multi window tray. See “*Using Multi window*” on page 27.
4. **Primary Shortcuts:** Shortcuts to your phone's common apps. See “*Primary Shortcuts*” on page 33.
5. **Panel Indicator:** Shows what panel of 7 available Home screen panels appears in the display.
6. **Shortcuts:** Shortcuts to common apps. These shortcuts are found on the Home screen by default, and you can add more shortcuts to your favorite apps. See “*Shortcuts*” on page 34.
7. **Widgets:** Apps that run on the Home screen. This widget is found on the Home screen by default, and you can add your favorites. See “*Widgets*” on page 35.

Status Bar Icons

The Status bar shows network and battery status and other details.



Airplane Mode Active: All wireless communications are disabled. See “*Airplane mode*” on page 129.



USB Connected: The phone is connected to a computer using a USB cable.



Voice Call: A voice call is in progress.



Speakerphone: Speakerphone is enabled.



Missed Call: Displays when there is a missed call.



Mute: Voice or playback volume is muted.



Battery Level: Shown fully charged.



Battery Charging: Battery is charging.



Device Power Critical: Battery has very little power remaining. Charge immediately.



GPS Location Active: One or more GPS location services are active. See “*Location services*” on page 147.



No Network: No wireless network is available.



3G connection: Phone is active on a 3G system.



Signal Strength: Current signal strength. The greater the number of bars, the stronger the signal.



New Message: You have new message(s).



New Voicemail: You have new voicemail. A number indicates the number of new messages.



New Email Message: You have new email.



Mute: All sounds except media and alarms are silenced, and Vibrate is not active. See “*Volume*” on page 137.



Vibrate: All sounds are silenced, and Vibrate is active. See “*Device vibration*” on page 138.



SD Card Ready: A memory card scan is underway, to prepare the card for use.



SD Card Removed: A memory card was un-installed.



Bluetooth Active: Bluetooth is turned on.



Bluetooth Headset Connected: Your device is connected with a Bluetooth headset.



Wi-Fi Active: Wi-Fi is active, and connected to a Wi-Fi network.



Wi-Fi Action Needed: Action needed to connect to Wi-Fi network. For more information about configuring Wi-Fi, see “*Wi-Fi Settings*” on page 124.



TTY: TTY Mode is active.

Display settings


You can customize display settings to your preferences. For more information, see “*Display*” on page 141.


Extended Home Screen

The Home screen consists of the Home panel, plus up to 5 additional panels that extend beyond the display width to provide more space for adding shortcuts, widgets and folders.

Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

Roaming panel

By default, an extra Roaming panel is available when you are roaming, indicated by the Global Roaming icon (“”) on the Status bar and on the Panel Indicator bar. To display the Roaming panel:

- Select it by swiping left or right across the Home screen panel until the Roaming panel appears.
- Touch the Global Roaming icon (“”) on the Panel Indicator bar.
- Manually locking and unlocking the display.

The Roaming panel offers the Dual clock (analog) widget and selection of frequently used app shortcuts appears at the bottom of the panel.

Note: The first time you try to display the Roaming panel, you are prompted to select a second city for the Dual clock (analog) widget.

This Roaming panel is one of three additional panels or pages controlled by the **Page buddy** display setting. The other two Page buddy panels appear when you plug earphones or a headset into your phone, or when you insert your phone into an optional docking station.

For more information, refer to “*Page buddy*” on page 142.

Motions and gestures

Finger motions

Touch

Touch items to select or launch them. For example:

- Touch the on-screen keyboard to enter characters or text.
- Touch an item to select it.
- Touch an app’s icon to launch the application.

Touch and hold

Activate on-screen items by a touch and hold gesture.

For example:

- Touch and hold a widget or icon on the Home screen to move it.
- Touch and hold on a field to display a pop-up menu of options.

Swipe

Swipe your finger vertically or horizontally across the screen.

For example:

- Unlocking the screen
- Scrolling the Home screen or a menu
- Combine touch and hold with swipe to drag an item to a new location.

Pinch

Using two fingers, make a pinch motion on the screen.

For example:

- Pinch in to zoom in on pictures or screens.
- Pinch out to zoom out on pictures or screens.

Motions

Your phone can sense when you move it. You can navigate screens and access features by moving the phone in specific patterns.

To use motions to control your phone, enable the **Motion** settings. For more information, see “*Motion*” on page 163.

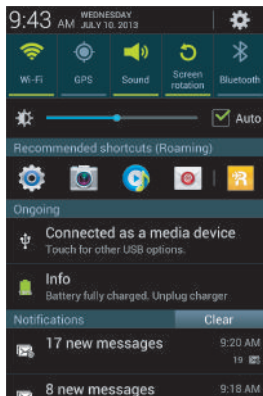
- **Motion:**

- **Direct call:** Lift the phone to your ear while viewing a contact to dial the contact’s phone number.

- **Smart alert:** When this option is enabled, the phone automatically notifies you to missed calls and alerts that occurred while the phone was stationary.
- **Double tap to top:** A double tap on the top of the phone takes you to the top of the list.
- **Tilt to zoom:** Tilting the phone while in Gallery or Internet causes the screen to zoom in or out.
- **Pan to move icon:** Moving the phone in a panning motion (side to side) moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images:** Moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Shake to update:** Shaking the phone starts a new scan for nearby available devices.
- **Turn over to mute/pause:** Turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.

Notifications

Notifications shows information about connections, alerts and other items.



1. Touch and drag downward from the top of the screen to display notifications.
2. Touch an item to open that item, or to launch a related app or feature.
3. Touch **Clear** to clear all Notifications.

Quick Setting Bar

Touch the selected Quick Setting toggles at the top of the Notifications screen to enable or disable frequently used settings. The following toggles are the default Quick Setting toggles:

- **Wi-Fi:** Turn Wi-Fi on or off. For more information about using Wi-Fi, see “*Wi-Fi*” on page 112.
- **GPS:** Turn Standalone GPS services on or off. For more information, see “*Location services*” on page 147.
- **Sound:** Touch to switch between your sound settings, and the two Silent modes, Mute and Vibrate. For more information, see “*Volume*” on page 137.
- **Screen rotation:** Enable or disable the Auto rotation setting, to control whether the screen automatically updates when you rotate the phone. See “*Auto-rotate screen*” on page 142.
- **Bluetooth:** Turn Bluetooth on or off. For more information about using Bluetooth, see “*Bluetooth*” on page 114.
- **Mobile data:** Activate or deactivate your phone’s access to mobile data. For more information, see “*Mobile networks*” on page 129.

- **Blocking mode:** Enable or disable the Blocking mode setting, to control which notifications you receive. For more information, refer to “*Blocking mode*” on page 136.
- **Power saving:** Enable or disable Power saving mode. For more information, see “*Power saving mode*” on page 145.
- **Multi window:** Enable or disable Multi window mode. For more information, refer to “*Using Multi window*” on page 27.
- **Sync:** Enable or disable synchronization with your accounts. For more information, refer to “*Accounts*” on page 158.

Clearing Notifications

1. Sweep your finger downward from the top of the screen to display Notifications.
2. Touch a notification to clear it, or to launch an app.
— or —
Touch **Clear** to clear all notifications.



Using Multi window

Run multiple applications on the current screen at the same time. This feature works with the phone in portrait or landscape mode.

Note: Only applications found within the Multi window tray can be active atop or beside another application currently running on the screen.




When running two applications that play multimedia files (music/video), audio from both applications will be played at the same time.

Enabling Multi Window


1. Press  **Home**; then touch  **Menu** → **Settings**. The **Settings** menu appears.
2. Under **Device**, touch **Display**. The **Display** menu appears.
3. Under **General**, touch **Multi window** to enable the feature. A check mark appears in the check box to indicate that the **Multi window** feature is enabled.

Displaying and hiding the Multi window tab

To display the Multi window tab and tray:

1. With Multi window enabled, touch and hold  **Back**. The Multi window tray appears briefly (by default) on the left side of the screen and then closes, leaving only the Multi window tab () showing.
2. To open the Multi window tray, touch the tab . You can now browse and launch the apps.
3. To browse the Multi window apps, Swipe the tray upwards.

To hide the Multi window tab:

- With the Multi window tab showing, touch and hold  **Back**. This action hides the Multi window tab from view.

Using Multi Window to run multiple apps on the same screen


You can run any of the apps found in the Multi window tray on the screen at the same time as another app.



Once two apps are running on the same screen, you can then choose to swap their positions or to maximize a desired app.

Note: Only apps found in the Multi-window tray can be active on the screen at the same time as another app.

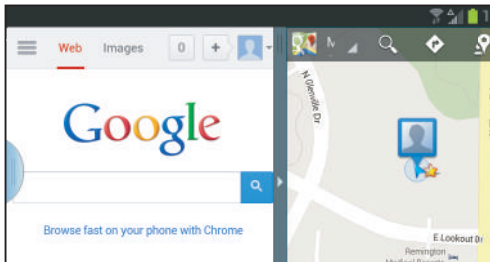
If you run two apps that play multimedia files (music/video), sound from both apps will play at the same time.

1. Launch an app.

Example: From the Home screen, touch  **Internet**.

2. Position the phone in either portrait or landscape orientation.
3. Display the Multi window tab.
4. Touch the Multi window tab  to display the apps tray.
5. Touch and hold the desired app, such as  **Maps**, until it detaches from the tray.


6. Drag the new Multi window app over the currently running app and drop the new app onto one of the following screen areas, depending on your phone's orientation:
- Top or bottom area (portrait orientation)
 - Left or right area (landscape orientation)

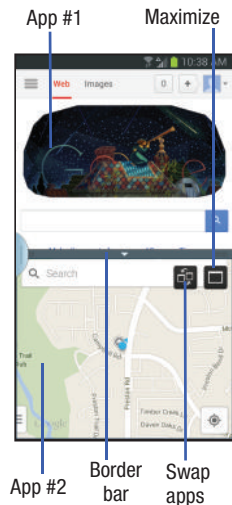


Note: Once two applications are running, the device displays a split screen view, containing both the initial app and the new Multi window app.

Each app runs independent of the other.

To swap the locations of the applications:


1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch  **Swap apps**. The current apps swap places.



To increase the size of a desired application window:

- With the two applications shown in a split screen, touch and hold the Border bar, and then drag it to resize the desired window.


To separate the current applications:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch  **Maximize apps**. The current apps are the both maximized.

Moving the Multi Window tab

The Multi window feature has two components: the tab and the apps tray. You can move the tab along a side or move the tab to any other side of the screen (top, bottom, left, or right). This lets you launch the apps tray (containing the scrollable apps) from any side of the screen.

To move the tab along a side:

1. Display the Multi window tab. See *“To display the Multi window tab and tray.”* on page 28.
2. Touch and hold the tab  for approximately one second, and then slowly drag it to its new location **along the current** screen edge.

Tip: This can get the tab out of the way of a button or option behind it.



To move the tab and tray to another side:

1. Display the Multi window tab. See *"To display the Multi window tab and tray:"* on page 28.
2. Touch the tab to display the apps tray (containing the scrollable apps).

Note: Notice that when the apps are visible, touching and holding the tab turns it a dark grey. Its only then that you can move the Multi window tray to another side.

3. In a single motion, touch and hold the Multi window tab for approximately one-second to detach it from the screen (1), and then slowly drag it to its new location **along any other** available screen edge (2). You can move it to the top, bottom, or either side.



Customizing the Multi Window tray

The applications found within the Multi window tray can be organized by either being rearranged or removed.

To rearrange the Multi window applications:

1. Activate the Multi window feature.
2. Touch the tab to display the apps tray (containing the scrollable apps).
3. In a single motion, touch and hold a desired app until it detaches from the tray, and then carefully drag it to a new location in the list of apps. Lift your finger or stylus off the screen to let go of the app and drop it into its new location.

To remove a Multi window application:

1. Activate the Multi window feature.
2. Touch the tab to display the Multi window tray (containing the scrollable apps).
3. Touch **Edit** (located at the bottom of the list).
4. Follow the prompt to remove apps from the Multi window tray to the revealed staging area.
5. Tap **Done** once you have completed the removal process.

To restore a Multi window application:

1. Activate the Multi window feature.
2. Tap the tab to display the apps panel (containing the scrollable apps).
3. Tap the **Edit** button (located at the bottom of the list) to reveal the staging area containing any previously removed apps.
4. Locate the desired application.
5. In a single motion, touch and hold a desired app until it detaches from the staging area, and then carefully drag it to a new location in the current list of apps.


Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add Shortcuts:** For more information, see “*Shortcuts*” on page 34.
- **Add Widgets:** For more information, see “*Widgets*” on page 35.
- **Add Folders:** For more information, see “*Folders*” on page 35.
- **Change the Wallpaper:** For more information, see “*Wallpaper*” on page 36.

Adding and removing Home screen panels

Your phone comes with 5 active Home screen panels. You can customize the Home screen to include up to the seven default panels, and set one panel as the Home panel.

1. From the Home screen, touch  **Menu**, and then touch **Edit page**.

Tip: You can also “pinch” the Home screen to display Edit options.

2. Use these controls to configure panels:



Remove: Touch and hold on a panel, and then drag it to **Remove**.




Add: Touch a previously-removed panel to add it, up to the maximum of seven.



Home panel set: Touch to set an available panel as the Home panel.

3. To change the order the panels appear, touch and drag each panel you want moved in place of the panel in the desired sequence.

Primary Shortcuts


Primary Shortcuts appear at the bottom of the display. You can edit the Primary Shortcuts, except for  **Apps**.

Editing the Primary Shortcuts

To add Primary Shortcuts:

1. To a Home screen panel, add a shortcut that you want to make a Primary Shortcut.
2. Touch and hold the added shortcut, and then drag it from the Home screen to the Primary Shortcuts.
If the Primary Shortcuts bar already holds five shortcuts, adding another shortcut automatically moves the closest existing Primary Shortcut to the Home screen.

To remove Primary Shortcuts:


- Touch and hold the shortcut until  **Remove** appears; then drag the shortcut to the Home screen panel or to the **Remove** icon.

Shortcuts



Use App shortcuts to launch applications from the Home screen. Your phone comes with app shortcuts already placed on the Home screen, and you can add your favorites.

Adding Shortcuts to the Home Screen


Adding shortcuts from the Home screen

1. Press the  **Home** key, swipe to the desired Home Screen panel, and then touch and hold on the screen to display the **Home screen** menu.
2. Under **Add to Home screen**, touch **Apps and widgets** → **Apps** tab.
3. Touch and hold on an app until it appears on the Home screen.

Adding Shortcuts from Apps

1. Press the  **Home** key.
2. Touch  **Apps**.
3. Touch and hold on an app until it appears on the Home screen.


Removing Shortcuts

- Touch and hold the shortcut until  **Remove** appears; then drag the shortcut to the Remove icon.



Widgets

Widgets are self-contained applications that you can place on the Home screen for quick, direct access.


Adding Widgets to the Home screen

1. Press the  **Home** key, swipe to a Home screen panel, and then touch and hold on the screen to display the **Home screen** menu.
2. Under **Add to Home screen**, touch **Apps and widgets** → **Widgets** tab.
3. Touch a widget and follow the prompts to place and configure the widget on the Home screen.

Adding Widgets from Apps

1. Press the  **Home** key, and swipe to a Home screen panel.
2. Touch  **Apps**, and then touch the **Widgets** tab.
3. Touch a widget and follow the prompts to place and configure the widget on the Home screen.



Removing Widgets

- Touch and hold the widget until  **Remove** appears; then drag the widget to the **Remove** icon.


Folders

Place folders on the Home screen to organize items.

Adding Folders


1. Press the  **Home** key.
2. Touch and hold on the screen to display the **Home screen** menu; then, under **Add to Home screen**, touch **Folder**.
– or –
Touch  **Menu** → **Create folder**.
3. The folder appears on the Home screen. Touch the folder to name it.

Removing Folders

- Touch and hold the folder until  **Remove** appears, and then drag the folder to the Remove icon.

Wallpaper

Choose a picture to display in the background of the Home screen. You can choose from pre-loaded wallpaper images, or select a picture you've taken with the Camera or downloaded.

1. Press the  **Home** key, touch and hold on the screen to display the **Home screen** menu, and then select **Set wallpaper → Home screen / Lock screen / Home and lock screens**.
2. Choose a source:
 - **Gallery:** Choose a picture stored on your phone or on an optional installed memory card. Touch a picture to select it, and then use the crop tool to resize the picture, if desired. Touch **Done** to save the picture as wallpaper.
 - **Live wallpapers:** Choose from pre-loaded animated wallpaper images. Touch a wallpaper, and then touch **Set wallpaper**.
 - **Wallpapers:** Choose from pre-loaded wallpaper images. Touch a wallpaper, and then touch **Set wallpaper**.

Tip: You can also set Wallpaper in Settings. For more information, see “*Wallpaper*” on page 141.

Apps



Apps holds all applications installed on your phone. Applications that you download and install from the Google Play™ Store or from the web are also added to Apps.

The Apps screen is like the Home screen, it consists of panels that extend beyond the display width to provide more space. Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

For more information about applications, see “*Applications and Widgets*” on page 78.

You can place shortcuts to apps on the Home screen, for quick access to the app.




For more information, see “*Adding Shortcuts from Apps*” on page 34.

1. Press the  **Home** key, and then touch  **Apps**.
2. Slide your finger left or right to scroll the Apps screens.
3. Touch an icon to launch the application.






Customizing the Apps Screens



Choosing a view


By default, app icons appear in Grid view. You can change the view to list view.

1. Press the  **Home** key, and then touch  **Apps**.
2. Touch  **Menu** → **View type**.
3. Choose an option:
 - **Customizable grid:** The default view, which allows you to touch and hold on apps to move them from screen to screen.
 - **Alphabetical grid:** Icons are arranged in a grid, in A-Z order.
 - **Alphabetical list:** Icons display in a list, sorted from A-Z.

Apps screen options

1. Press the  **Home** key, and then touch  **Apps**.
2. Touch  **Menu** for options:
 - **Play Store:** Launch Google Play™ Store, to browse for new apps to download.
 - **Edit:** Touch and hold an app icon for these options:
 - Drag it to a new location.
 - Drag it to  to create a new folder to contain the icon.
 - Drag it to  to create a new apps screen and place the icon on it.

- Drag it to  to launch Application manager to view information about the app. For more information, refer to “Application manager” on page 146.
- Drag it to  (if available) to uninstall the app.

Note: The  **Uninstall** icon is available only for your downloaded apps. Preloaded apps cannot be uninstalled.

- **Create folder:** Add folders in which to group your apps.
- **Uninstall:** Remove an app that you downloaded from your phone. Pre-loaded apps cannot be un-installed.
- **Downloaded applications:** Display all apps you've downloaded.
- **View type:** Configure the apps screen.
- **Share apps:** Select apps you've downloaded (not available for preloaded apps) to share via Bluetooth, ChatON, Dropbox, Email, Flipboard, Gmail, Google, Google+, Messaging, S Memo, Wi-Fi Direct.
- **Hide applications / Show hidden applications:** Control whether selected apps icons appear on Apps panels. Hiding an icon does not uninstall the app from your phone.

Entering Text

This sub-section describes how to enter words, letters, punctuation, and numbers when you need to enter text in a message, a note, or any other text entry field.

Keyboards and Input Methods



There are three text input methods available:

- **Google voice typing:** Enter text by speaking.
- **Samsung keyboard** (default): Samsung's on-screen QWERTY keypad that can be used in both portrait and landscape orientation.
- **Swype:** Instead of touching each key, use your finger to trace over each letter of a word.

To change the input method, see “*Keyboards and input methods*” on page 152.

Using the Google Voice Typing Feature

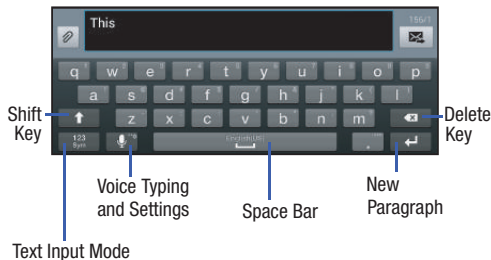
You can use your voice to enter text using the Google Voice typing feature.

1. Touch  on the keyboard.
2. At the **Speak now** prompt, speak clearly and distinctly into the microphone.
3. If the red microphone turns gray, the feature has timed out. To start again, touch the microphone icon. The text is displayed in the message as you are speaking.
4. Touch  to return to the keyboard.

Note: The feature works best when you break up your message into short segments.

Entering Text Using the Samsung Keyboard

From a screen where you can enter text, rotate your phone counterclockwise to a Landscape orientation. The on-screen QWERTY keypad will display.



Changing the Text Input Mode - Keypad

There are two main keypad layout keys that will change the on-screen keys within the QWERTY keypad.

The available Text Input modes are: **Symbol/Numeric** and **ABC**.

**123
Sym**

Symbol/Numeric Mode: Activates the number, symbol, and emoticon keys.

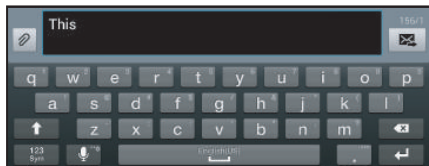
ABC

ABC Mode: Activates the default alphabet keys. Can also be set to **Abc** or **abc** by using the shift (**↑**) key.



Note: When in **Abc** mode, the **Sym** button appears.
When in **Sym** mode, the **ABC** button appears.




Using ABC Mode

1. If desired, rotate your phone counterclockwise to a Landscape orientation.
2. When you touch a text entry field, such as the **Enter message** field for a new text message, the following keyboard image appears:




3. Touch the desired letter or number keys.

Note: The screen initially opens in Abc mode. After typing the first letter, the shift key () changes to  and succeeding letters are lower case.



4. Touch  once to input another upper-case letter or touch  twice to switch to ABC mode. The shift key will change to . All following letters will be upper case until you touch the shift key again.

Using Symbol/Numeric Mode

Use Symbol/Numeric Mode to add numbers or symbols.

1. Rotate your phone counterclockwise to a Landscape orientation.
2. Touch  at the bottom of the keyboard. The following keyboard appears:






3. Touch the desired number or symbol.
4. Touch the  button to access additional symbols.
5. Touch  to return to Abc mode.

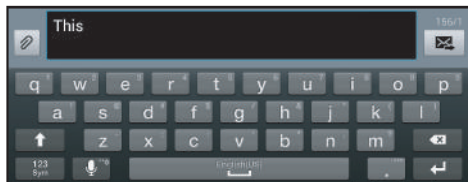
Predictive Text



By using the Predictive Text option, you can have next-letter prediction and regional error correction, which compensates for pressing the wrong keys on the QWERTY keyboard.

Note: Predictive text is turned ON by default.

Turning Predictive Text ON:

1. Touch and hold  on the keyboard, and then touch . The Samsung keyboard settings screen appears.
2. Touch the **Predictive text** ON/OFF slider .
3. In the text portion of the message screen, begin typing a word. A list of word options is displayed. Touch one of the words to replace the word that has already been typed or scroll the line of words to the left for more word choices.






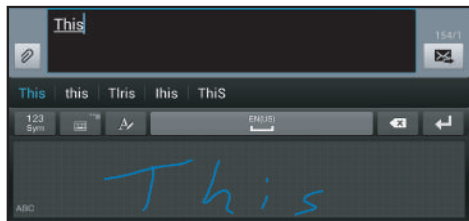
4. Continue typing your message. Touch  to send the message or press  **Menu** for more options. For more information, refer to “*Creating and Sending Messages*” on page 69.

Note: You can also use Predictive Text mode with your phone in portrait orientation.

Entering Text Using Handwriting

You can enter text simply by using your finger to handwrite letters on your screen.

1. Touch and hold  on the keyboard, and then touch .
2. Use your finger tip to write out each character. You can print or use cursive.
3. You can write out your entire message using the Handwriting feature or touch  to switch back to Samsung keyboard mode.



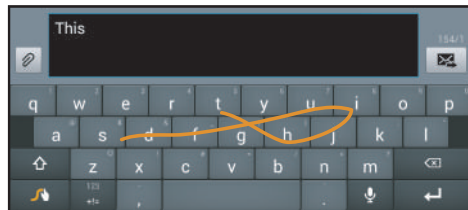
Samsung Keyboard Settings

For information on how you can configure your Samsung keyboard settings, see *"Keyboards and input methods"* on page 152.

Entering Text Using Swype

Swype™ is a text input method that allows you to enter a word by sliding your finger or stylus from letter to letter, lifting your finger between words. Swype uses error correcting algorithms and a language model to predict the next word. Swype also includes a predictive text system.

The following example shows how to enter the word "This." Put your finger down on the "T," and, without lifting, glide it to the "h," then to the "i," and then over to the "s."



Swype Text Entry Tips


You can access the SwypeTips application and watch a video or tutorial on using Swype. You can also use the following Swype text entry tips.

- Create a squiggle (like an S shape) to create a double letter (such as “pp” in apple).
- Touch and hold a key to view the punctuation menu then make a selection.
- Move your finger or stylus over the apostrophe to enter contractions.
- Double-tap on the word you want to change to correct a misspelled word; then tap the delete key to erase one character. Touch and hold the delete key to erase an entire word.

Enabling and Configuring Swype

The Samsung keyboard is the default text input method, so to use Swype, you must first change the default keyboard setting.

To enable Swype:

1. From a screen where you can enter text, touch a text input field.
2. Touch the Status bar and drag down the Notifications screen.
3. Touch  **Choose input method**. The Select input method menu pops up.
4. Touch the **Swype** radio button, which turns green. The Swype keyboard appears.

Swype Settings

For information on how you can configure your Swype settings, see “*Keyboards and input methods*” on page 152.

Section 3: Accounts and Contacts

Accounts

Your phone provides the ability to synchronize information, from a variety of accounts, including Email, Facebook, Google, and your Samsung account. Depending on the account, you can choose to synchronize your calendar, contacts, and other types of content.

Contacts from your accounts appear in your phone's Contacts.

With synchronization, you can ensure that information on your phone is updated with any information that changes in your accounts.


Setting Up Your Accounts

Set up and manage your accounts with the **Accounts** settings.

For information about setting up other, non-synchronized email accounts, see “*Configuring Email Accounts*” on page 73.

Tip: For more information on setting up your email, contact your Wireless Provider.


Adding an account

1. From the Home screen, touch  **Menu**, and then touch **Settings**.
2. Under **Accounts**, touch **Add account**.
3. Select an account type, and then follow the prompts to enter your credentials and sign in.
4. The phone communicates with the provider's server to set up your account on the phone.

Controlling Synchronization

You can choose to have your phone automatically synchronize with your accounts, or manually synchronize each account when you want to check messages.

You may also choose to limit automatic or background synchronization to extend battery life.

1. From the Home screen, touch  **Menu**; then touch **Settings**.
2. Under **Accounts**, touch the desired account type. The related account type screen appears.
3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account lists some or all of the following synchronization settings:
 - **Sync App Data**
 - **Sync Calendar**
 - **Sync Contacts**
 - **Sync Email**
 - **Sync Gmail**
 - **Sync Google Photos**
 - **Sync Google Play Books**
 - **Sync Google Play Magazines**


- **Sync Google Play Movies & TV**
- **Sync Internet**
- **Sync People details**
- **Sync Picasa Web albums**

4. Touch these settings to enable/disable synchronization of the associated file types. When a setting is enabled, a check mark appears in its check box.
 - With automatic synchronization enabled, your phone automatically synchronizes its related files with similar files on on-line file servers.
 - With automatic synchronization disabled, you can manually sync accounts by touching **Sync all** in the account type screen for each account.


Tip: You can control automatic synchronization using the **Sync** toggle in the Quick Settings menu on the Notifications screen. For more information, refer to “*Quick Setting Bar*” on page 26.

Google Account Privacy Settings

Personalize the Privacy settings for Google accounts:


1. From the Home screen, touch  **Menu**; then touch **Settings**.
2. Under **Accounts**, touch **Google**. The **Google** account type screen appears.
3. Under **Privacy**, the following options are available:
 - **Search**: Manage Google accounts location histories and search histories.
 - **Location settings**: Choose whether Google apps can access location information for Google accounts.
 - **Google+**: Manage Google+ information for Google accounts.
 - **Ads**: Choose whether to personalize Google and AdMob advertisements for Google accounts.

Managing accounts

1. From the Home screen, touch  **Menu**; then touch **Settings**.
2. Under **Accounts**, touch the desired account type. The related account type screen appears.
3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account appears. For more information, refer to “*Controlling Synchronization*” on page 45.
4. To enable or disable a synchronization setting, touch it. When a setting is enabled, a check mark appears in the check box.
5. To invoke the enabled synchronization settings for the selected account, touch **Sync now**.
6. To remove the selected account from your phone, touch **Remove account**. A **Delete account?** pop-up prompts you to confirm the removal. To remove the selected account, touch **Remove account**.

Contacts

To access Contacts:

- From the Home screen, touch  **Contacts**.

Contact tips:

- Swipe your finger left to right across a contact to make a call to the contact.
- Swipe right to left across a contact to create a message addressed to the contact.







Adding Contacts

1. From the Home screen, touch  **Contacts** →

Add contact.

- If you have defined accounts (Google, Samsung, and so on), the **Save contact to** pop-up appears. Select **Phone** or the account to receive the new Contact entry.
- If you have not defined any accounts, the **Save contact** pop-up appears. The following options are available:
 - **OK:** Saves your contacts in “my device contacts”.
 - **Add new account:** Lets you define an account to which your device will save your contacts. The **Add new account** screen appears. For more information, refer to “Setting Up Your Accounts” on page 44.

2. Touch contact fields to select or enter information:

- Touch  **Add photo ID** to choose a picture to identify the contact.
- Touch **Name** to enter a name for the contact. Touch  to enter **Name prefix**, **First name**, **Middle name**, **Last name**, or **Name suffix**.
- Touch **Phone number** to enter a phone number; then touch the **Label** button to choose a label from **Mobile**, **Home**, **Work**, **Work Fax**, **Home Fax**, **Pager**, **Other**, **Custom**, or **Callback**. To add another number, touch .
- Touch **Email address** to enter an email address; then touch the **Label** button to choose a label from **Home**, **Work**, **Other**, or **Custom**. To add another address, touch .
- Touch **Address** to enter a street or postal address; then touch the **Label** button to choose a label, from **Home**, **Work**, **Other**, or **Custom**. To add another address, touch .
- Touch  next to **Events** to enter a special date; then touch the **Label** button to choose a label from **Birthday**, **Anniversary**, **Other**, or **Custom**.

- Touch **Groups** to assign the contact to a group.
For more information, refer to “Groups” on page 54.
 - Touch **Ringtone** to choose a ringtone for the contact.
 - Touch **Message alert** to select the alert tone to be played when you receive a message from this contact.
 - Touch **Vibration pattern** to choose a vibration pattern to play when you receive a call or message from this contact.
 - Touch **Add another field** to add more fields, including **Phonetic name**, **Organization**, **IM**, **Notes**, **Nickname**, **Website**, **Internet call**, or **Relationship**.
3. When you finish selecting and entering information, touch **Save**.


Creating Contacts from Recent calls


Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, refer to “Creating or Updating Contacts Using Logs” on page 62.

Creating Contacts from the Phone Keypad



Enter a phone number with the Phone Keypad and then save it.

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to Contacts**; then select **Create contact** from the pop-up menu.
4. Continue entering contact information. For more information, refer to “Adding Contacts” on page 47.

Tip: While entering a phone number, you can add waits or pauses. Enter the number up to the pause or wait; then touch  **Menu** to select **Add 2 sec pause** or **Add wait**.


Updating Contacts

Make changes to update an existing contact.

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to view its information, and then touch  **Edit**.
— or —
Touch and hold a contact, and then select **Edit** from the menu.
3. Continue entering contact information. For more information, refer to “*Adding Contacts*” on page 47.

Updating Contacts from the Phone Keypad

Enter a phone number with the Phone Keypad and then save it.



1. From the Home screen, touch  **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to Contacts**, and then select **Update existing** from the pop-up menu.
4. Select a contact to update; then continue entering contact information. For more information, refer to “*Adding Contacts*” on page 47.

Updating Contacts from Recent calls



Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, refer to “*Creating or Updating Contacts Using Logs*” on page 62.



Choosing Contacts to Display

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Contacts to display**:
 - Choose **All contacts** to show all contacts.
 - Touch **Phone** to show only show contacts saved to the phone.
 - Choose an account to only display contacts from that account.
 - Choose **Customized list** to select contact types for each account, or the phone.

Contacts Settings

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Settings**:
 - Select **Only contacts with phones** to show contacts with at least one stored phone number.
 - Touch **List by** to sort contacts by first or last name.
 - Touch **Display contacts by** to list contacts by first or last name.
 - Touch **Contact sharing settings** to set your preference for sending contacts namecards to other accounts or devices. For more information about sending contacts, see “*Sending Namecards*” on page 53.

Other Contacts Options


1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display it, and then touch  **Menu**:
 - **History**: View calls and messages to and from this contact.
 - **Edit**: Modify contact information. For more information, refer to “*Updating Contacts*” on page 49.
 - **Delete**: Erase the contact record.

- **Join contact / Separate contact**: Manage multiple contacts as one. For more information, refer to “*Joining Contacts*” on page 51.
- **Mark as default**: Set a default phone number or other field (such as IM or email address). Defaults are the contact method used when creating a message or calling a contact. You can also set a default by touching and holding on a contact field.
- **Share namecard via**: Send the namecard. For more information, refer to “*Sending Namecards*” on page 53.
- **Add to reject list**: Mark the contact so that calls or messages from the contact are rejected automatically. To remove a contact from the reject list, touch and hold on the contact in the main contacts screen, and choose **Delete from reject list**.
- **Print contact info**: Print the namecard via Bluetooth to a compatible Samsung Bluetooth-enabled printer.
- **Add shortcut to Home**: Add shortcut to Home screen for this contact.

My Local Profile



My local profile is your own contact record, listed under **ME** in Contacts. You can send My local profile as a vCard via Bluetooth or as an attachment to messages.

Creating My Local Profile

1. From the Home screen, touch  **Contacts**.
2. Under **ME** touch your Google account name or **Set up profile**.
3. Enter your information in the contact fields. For more information, refer to “*Adding Contacts*” on page 47.

Sending My Local Profile

You can send your profile as a vCard via Bluetooth to other Bluetooth devices, or as an attachment.



1. From the Home screen, touch  **Contacts**.
2. Touch your profile to display your contact information.
3. Touch  **Menu**, and then touch **Share namecard via**.
4. Choose a sending method or app from the **Share namecard via** pop-up; then follow the prompts to send the profile.

Joining Contacts



Your phone can synchronize with multiple accounts, including Google, Corporate, and other providers, plus social networking sites like Facebook. When you synchronize contacts from these accounts with your phone, you may have multiple contacts for one person.

Joining contact records allows you to see all the contact's numbers and addresses together. Joining also helps you keep your contacts updated, because any changes to information in the respective accounts is automatically updated the next time you synchronize with the account.

Joining contacts

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display its information.
3. Touch  **Menu**, and then touch **Join contact**. A list of available contacts appears.
4. Select a contact to join to the displayed contact. The joined contact appears.
5. To join another contact, touch the **Connection** field. The Joined contact screen appears.
Touch **Join another contact**. A list of available contacts appears.
Select a contact to join to the displayed contact. The joined contact appears.

Separating contacts

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display its information.
3. Touch the **Connection** field to display joined contacts.
4. Touch  to the right of a contact to remove it from the selected joined contact.

Exporting and Importing Contacts



You can export your contact list to an installed memory card, or import a list of contacts (previously exported) from a memory card.

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Import/Export**.
3. Select an option; then follow the prompts to complete the operation:
 - **Import from USB storage**: Copy contacts that are saved in installed mass storage.
 - **Export to USB storage**: Copy contacts to installed mass storage.
 - **Import from SD card**: Copy contacts that are saved on an installed memory card.
 - **Export to SD card**: Copy contacts to an installed memory card.
 - **Share namecard via**: Share contacts as Namecards.
For more information, refer to “*Sending Namecards*” on page 53.

Sending Namecards

You can send a contact entry as a namecard using a Bluetooth connection to another device, or as an attachment to a Gmail or Email message.


Important! Not all Bluetooth devices will accept contacts, and not all devices support transfers of multiple contacts. Check the target device's documentation.

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**; then touch **Import/Export** → **Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark appears in the check box for marked contacts.
4. Touch **Done**.
5. Choose a sending method from the **Share namecard via** pop-up; then follow the prompts to send the profile.

Favorites

Mark contacts with a ★ star to identify them as Favorites. Favorites display on the **Favorites** tab in the **Phone** and **Contacts** screens for fast dialing or messaging, and are indicated by the ★.

Creating Favorites

1. From the Home screen, touch  **Contacts**.
2. Touch and hold on a contact; then select **Add to favorites** from the pop-up menu.




— or —

Touch a contact to display it; then touch ★ at the top right of the screen, it changes color to ★.




Groups

Assign contacts to Groups to make searching for contacts faster, or to quickly call or send messages to group members. Your phone comes with pre-loaded groups you can use to add your contacts.

Adding a New Group




1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch  **Menu** → **Create**; then enter information:
 - Touch **Group name** to enter a Group Name.
 - Touch **Group ringtone** to choose a ringtone for calls from members of this group.
 - Touch **Vibration pattern** to choose a vibration to play for calls from members of this group.
 - Touch **Add member** to select members from Contacts.
3. Touch **Save** to save the new group.

Editing a Group




1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a Group to display it.
3. Touch  **Menu** → **Edit**, then update information for the group.

Deleting a Group




Tip: You can only delete groups that you have created.

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch  **Menu** → **Delete groups**.
3. Touch a Group to mark it for deletion, or touch **Select all** to mark all groups. When selected, a check mark appears in the check box. You cannot delete pre-loaded groups.
4. Touch **Delete**, and then choose **Group only** or **Group and group members**.

Adding Contacts to a Group


1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a Group to display it, and then touch .
3. Touch contact(s) to mark them for addition, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
4. Touch **Done** to add the selected contact(s).

Removing Contacts from a Group

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a Group to display it.
3. Touch  **Menu** → **Remove member**.
4. Touch contact(s) to mark them for removal, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
5. Touch **Done** to remove the selected contact(s).

Sending a Message to Group Members

Create a new text or email message, addressed to the group's members.

1. From the Home screen, touch  **Contacts** → **Groups**.
2. Touch and hold a Group; then touch **Send message** or **Send email**.
3. Touch contacts to mark them as recipients for the new message, and then touch **Done**.
4. The new message opens, with the marked contacts as recipients. Continue creating the message, as desired. For more information, refer to “*Creating and Sending Messages*” on page 69, or “*Composing and Sending Email*” on page 74.



Speed Dials

Speed dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.



For more information about calling using speed dials, see “*Making Calls using Speed Dials*” on page 57.

Note: Speed dial 1 is reserved for Voicemail, and cannot be assigned.

Assigning Speed Dials

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Speed dial setting**.
3. A list of speed dials displays. Touch a speed dial; then touch a contact to assign the speed dial to the contact.

Removing or Reassigning a Speed Dial

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Speed dial setting**.
3. Touch and hold an assigned speed dial setting. The following options pop up:
 - **Replace:** Touch a new speed dial location to assign it to the contact.
 - **Delete:** Unassign the speed dial from the contact.



Section 4: Calling

Making Calls

Your phone offers multiple ways to make calls:

- Use the touch screen **Phone Keypad** to enter the phone number or speed dial.
- Call a contact from **Contacts**.
- Call a contact from **Favorites**.
- Return a call, or call a recent caller, from **Logs**.
- Voice dial using **Voice**.


Making Calls Using the Phone Keypad

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the telephone number on the **Keypad**.
3. Touch  to place the call.

Making Calls using Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.


For more information about setting speed dials, see “*Speed Dials*” on page 56.

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the speed dial number on the **Keypad**, holding the last digit until the number dials.

Making Calls from Contacts

A contact is an entry that you have created to store the name, numbers, and other information for people or groups of interest.

For more information, refer to “*Contacts*” on page 47.



1. From the Home screen, touch  **Contacts**.
2. Find the contact and touch it to open the Contact entry.
3. Swipe your finger from left to right across the contact to dial their default number.

– or –

Touch a contact; then touch  to dial the number.

Making Calls using S Voice




Place a call by speaking the name or number.

1. From the Home screen, touch  **Phone**. then touch  **S Voice**.
2. The first time you access S Voice, follow the prompts to confirm the license agreement, and view information about S Voice.
3. Follow the prompts to speak a command. You can say commands such as:
 - **Call <Name >**: Call an entry in your Contacts list.
 - **Dial <Phone number>**: Call a spoken phone number.
 - **Redial**: Repeat a recent call.

Making Calls using Favorites

Favorites are contacts that you designate as favorites by starring them.

For more information about creating favorites, see “*Favorites*” on page 53.

1. From the Home screen, touch  **Phone**.
2. Touch  **Favorites** to display favorites.
3. Find the contact and touch it to open the Contact entry.
4. Swipe your finger from left to right across the contact to dial their default number.
– or –
Touch a contact; then touch  to dial the number.



Making Calls from Logs

Return a call, or call a number from a recent call stored in Logs.

For more information, refer to “*Logs*” on page 62.

Multi-party Calling

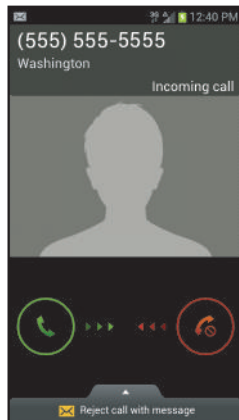
Use multi-party call features to set up a call between multiple callers, such as for a conference call.

1. Establish the first call, by answering an incoming call or making a call.
2. Touch **Add call**. The first call is placed on hold.
3. Make the second call by touching the phone number digits and then pressing .
4. Touch **Merge** to merge the calls into one conference call.
5. To end the call touch .

Answering Calls

You can answer incoming calls when the phone is locked or unlocked.

- Touch and drag the  **Answer** icon to the right.



Tip: To silence the ringtone for an incoming call, press the **Volume** key Up or Down.

Sending Calls to Voicemail

When your phone alerts you to an incoming call, you can reject the call to send the caller to voice mail, or reject the call and send a message to the caller.

Rejecting a call

- Touch and drag the  **Reject** icon to the left.


Rejecting a call with a message

- Touch and drag **Reject call with message** toward the middle of the screen. Select an existing message or **Create new message**.

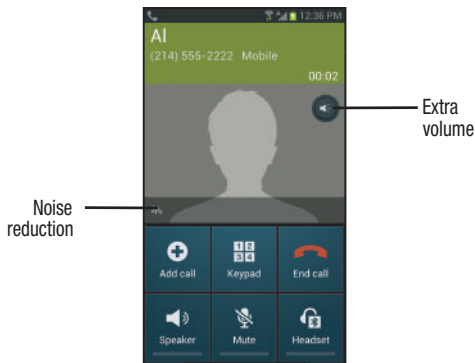
Note: For more information about creating reject messages, see *“Set call rejection messages”* on page 64.


Answering Call-Waiting Calls

When you receive a call while on a call:

- Touch and drag the  **Answer** icon to the right to answer the incoming call. The original call is placed on hold, and remains on hold until you end the second call, or swap calls back to the original call.
- Touch **Swap** to place a call on hold and return to the original call.

Options During a Call



- **Add call:** Display the Dialer to set up a multi-party call.
- **Keypad:** Display a keypad to enter numbers.
- **End call:** End the phone call.
- **Speaker:** Enable or disable speakerphone.
- **Mute:** Mute or unmute your voice on the call.
- **Headset:** Switch the call's audio to a Bluetooth headset.
- Touch  **Menu** for options:
 - **Contacts:** Launch Contacts.
 - **Message:** Launch Messaging to view or create messages.
 - **Memo:** Launch S Memo to take notes in text, or create a drawing.
 - **Noise reduction on/off:** Enable or disable reduction to improve audio quality in noisy environments.
 - **My call sound:** Apply a sound equalizer to the call audio, in cases where you might need the sound softer, clearer, or optimized for your right or left ear.

While in a call, you can use these features:

- **Noise reduction:** Enable or disable noise reduction, to improve call audio quality in noisy environments.
- **Extra volume:** Enable or disable increased volume in the earpiece. Compensates for low sound from the other caller.



Ending a Call

- Touch .




Logs

When you place, answer, or miss a call, a record of the call is saved in the call Logs.




Accessing Logs

- From the Home screen, touch  **Phone** →  **Logs** to display recent calls.



Making Calls using Logs

1. From the Home screen, touch  **Phone**.
2. Touch  **Logs** to display recent calls.
3. Swipe your finger from left to right across the call to redial.
– or –
Touch a call, and then touch  to dial the number.

Sending Messages using Logs




1. From the Home screen, touch  **Phone** →  **Logs**.
2. Swipe your finger from right to left across the call and choose **Message**.
– or –
Touch a call, and then touch  to create and send a new message.

Creating or Updating Contacts Using Logs




1. From the Home screen, touch  **Phone** →  **Logs**.
2. Touch and hold on a call, and then select **Add to Contacts** from the pop-up menu.
3. Choose **Create contact** or **Update existing**.
4. Continue entering contact information.
For more information, see “*Contacts*” on page 47.

Managing Logs

Deleting records




1. From the Home screen, touch  **Phone** →  **Logs**.
2. While viewing the calls, touch  **Menu**, and then touch **Delete**.
3. Touch call records to mark them for deletion, or touch **Select all**. A check indicates marked records.
4. Touch **Delete** to delete marked records.

Filtering records

1. From the Home screen, touch  **Phone** →  **Logs**.
2. While viewing the calls, touch  **Menu**, and then touch **View by**.
3. Select a filter type: **All logs**, **All calls**, **Missed calls**, **Dialed calls**, **Received calls**, **Rejected calls**, **All messages**, **Sent messages**, or **Received messages**.

Viewing call durations

View the length of the Last call, all Dialed calls, all Received calls, or All calls.

1. From the Home screen, touch  **Phone** →  **Logs**.
2. While viewing calls, touch  **Menu**, and then touch **Call duration**.

Call Settings

Configure settings for calling with your phone.



- To access Call settings, from the Home screen, touch



Phone →  **Menu** → **Call Settings**.


Call restriction

Create and manage a list of phone numbers, to have your phone automatically restrict calls you receive from those numbers.

- From the **Call Settings** screen, touch **Call restriction** for these options:
 - **Auto reject mode:** Touch **Auto reject mode**  to turn On, or touch **Auto reject mode**  to turn Off. When On, calls from **All numbers**, or **Auto reject numbers** list are rejected. When set to **Auto reject numbers**, calls from numbers on the Auto reject list will be rejected.
 - **Auto reject list:** Enter telephone numbers to be rejected when Auto reject mode is set to Auto reject numbers. Touch **Create**; then follow the prompts to enter numbers to reject, or select them from Contacts. Touch **Match criteria** to set options for using the reject number list. Enable **Unavailable** to reject calls with no caller ID (that is, Unknown callers).

Set call rejection messages

Create and manage text messages to send to callers when you select **Reject call with message** in the **Incoming call** screen.

1. From the **Call Settings** screen, touch **Set reject messages**.
2. Manage messages:
 - To create new rejection messages, touch **Create**, and then follow the prompts.
 - To modify an existing rejection message, touch the message, and then edit the text.
 - To erase an existing rejection message, touch , select the message to be erased, and then touch **Delete**.

Ringtones and keypad tones

Select incoming call ringtone and vibration, and enable or disable call vibration and keypad tones.

- From the **Call Settings** screen, touch **Ringtones and keypad tones**. The following options are available:
 - **Device ringtone**: Select the ringtone the phone plays to alert you of incoming calls.
 - **Device vibration**: Select the vibration pattern the phone uses to alert you of incoming calls.
 - **Incoming call vibration**: Touch to enable/disable use of the selected **Device vibration**. When enabled, a check mark displays.
 - **Keytone**: Touch to enable/disable playing of DTMF tones when you enter numbers with the Phone keypad. When enabled, a check mark displays.



Call alerts

Set options for sounds and vibrations to occur during calls.

- From the **Call Settings** screen, touch **Call alert**. The following options are available:
 - **Call vibrations**: Enable **Vibrate on connection to network** to have your phone vibrate when it connects to the network. Enable on **Call-end vibration** to have the phone vibrate when the other caller ends the call.
 - **Call status tones**: Choose options for sounds to play during calls. Enable **Call connect tone** to have the phone play a tone when the other caller answers a call. Enable **Minute minder** to have a tone play once per minute during a call. Enable **Call end tone** to have the phone play a tone when the other caller ends the call.
 - **Alerts on call**: Enable to have notifications for alarms and new messages play during phone calls. When disabled, these notifications will be muted during a call. .

Answering/ending calls

Manage settings for answering and ending calls.

1. From the **Call Settings** screen, touch **Call answering/ending**. The following options are available:
 - **Answering key:** Answer an incoming call by pressing  **Home**.
 - **Answer calls using voice:** Answer calls using the S Voice wake-up command.
 - **The power key ends calls:** Press  **Power/Lock** to end a call.

Turn off screen during calls

When this option is enabled, the screen automatically turns off during phone calls, and the proximity sensor on the front of the phone is used to turn the screen back on when the phone is moved or brought close to another surface, such as when you move the phone to your ear.

- From the **Call Settings** screen, touch **Auto screen off during calls** to enable or disable this option.

When this option is enabled, a check mark appears in the check box.

Accessory settings for call

Configure headset options for calls.

- From the **Call settings** screen, touch **Accessory settings for call**. The following options are available:
 - **Headset settings for incoming calls:**
 - **Automatic answering:** When this option is enabled, and you have a headset connected to the headset jack, incoming calls are answered automatically after a delay, set at Automatic answering timer.
 - **Automatic answering timer:** Choose a time period to delay before automatically answering an incoming call when Automatic answering is enabled and a headset is connected to the phone.
 - **BT headset settings for outgoing calls:**
 - **Outgoing call conditions:** When the phone is paired with a Bluetooth headset, you can choose to make calls even when the phone is locked.

My call sound

Select a sound profile for use during calls.

1. From the **Call Settings** screen, touch **My call sound**.
2. Touch **My call sound settings**. Select an option: **Off** (sound set with the Volume key), **Soft sound**, **Clear sound**, **Optimized for left ear**, or **Optimized for right ear**.

— or —

Touch **Personalize call sound** to find the best sound for you.

Use extra volume for calls

When enabled, the call screen displays a volume control, for adjusting call volume during calls.

- From the **Call Settings** screen, touch **Use extra vol. for calls** to enable or disable the option.

Increase volume in pocket

When this option is enabled, the phone uses the proximity sensor to detect when the phone is in a pocket or other close-fitting location such as a purse or bag, and increases the volume for incoming call ringtones.

- From the **Call Settings** screen, touch **Increase volume in pocket** to enable or disable the option.

Additional settings

When the **Noise reduction** setting is enabled, the phone uses both of its microphones to detect background noise from your environment and suppress it during calls.

- From the **Call Settings** screen, touch **Additional settings** → **Noise reduction** to enable or disable the option.

Voicemail

Configure options for voicemail.

- From the **Call Settings** screen, under **Voicemail**, the following options are available:
 - **Voicemail service:** By default, your phone uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it here.
 - **Voicemail settings:** By default, the speed dial for calling voicemail (speed dial 1) is set to your phone number. If you wish to use another Voicemail service, touch **Voicemail number** to set a new one.
 - **Ringtone:** Choose sound to play for a voicemail notification.
 - **Vibrate:** Choose an option for vibration to play for a voicemail notification.

Other call settings

- From the **Call Settings** screen, under **Other call settings**, the following options are available:
 - **Auto retry:** When this option is enabled, the phone automatically redials a call if it receives a busy signal from the network.
 - **TTY mode:** Choose a TTY mode to enable TTY mode, for use with optional TTY equipment.
 - **DTMF tones:** Set the length of Dual-tone Multi-frequency tones, which play when you use the keypad during a call, such as when navigating phone menus.
 - **Voice privacy:** Enable or disable Enhanced voice privacy, to improve the security of phone calls.

Section 5: Messaging

This section describes how to send and receive messages, and other features associated with messaging.

Types of Messages





Your phone supports these types of messages:


- **Text messages:** Send and receive simple messages containing text to other mobile phones or email addresses (also known as SMS).
- **Multimedia messages:** Send and receive text messages with pictures, video, and/or sound to other mobile phones or email addresses (also known as MMS).
- **Mobile IMs:** Exchange Instant Messages with other users of popular messaging sites.
- **Email:** Send and receive email from your email accounts, including Corporate mail.
- **Gmail:** Send and receive Gmail from your Google account.
- **Voicemail:** Retrieve voice messages from callers.
- **Hangouts:** Chat with other Hangout users (replaces Google Talk) .


Text and Multimedia Messaging

Your phone can send and receive text and multimedia messages.

Creating and Sending Messages



1. From the Home screen, touch  **Messaging** →  **New message**.
2. Tap on the **Enter recipient** field to manually enter a recipient or tap  to select a recipient from your Contacts. You can also select the recipient based on Groups, Favorites, or Logs.
3. Touch **Enter message**; then enter the message text. The following options are available (which options are available depends on whether you include an attachment):
 - Touch  **Attach** to add media (Image, Take a picture, Video, Capture video, Audio, Record audio files) or content (S Memo text, Calendar events, Locations, Contacts) to the message (converts the message to MMS).

- Touch  **Menu** for options:
 - **Insert smiley:** Add a text emoticon to the message.
 - **Add text:** Select text from S Memo, Calendar, Contacts, or Text templates to add.
 - **Preview:** View the message and attachments before sending.
 - **Add to Contacts:** If the recipients are not saved in Contacts, save the info as a new contact, or update an existing contact.
 - **Add slide / Remove slide:** Add or remove a slide. Slides hold pictures or other media (adding a slide converts the message to MMS).
 - **Add subject:** Add a subject field (converts the message to MMS).
 - **Duration (5sec):** Set the length of time the media on the slide displays.
 - **Layout (bottom):** Choose whether the message text appears above (Text on top) of the attachment(s), or after (Text on bottom).
 - **Discard:** Erase this message.

4. Touch  to send the message.

Managing Messages


Messages you send and receive to the same contact, number or address are grouped together as a “conversation”. Threads allow you to see all the messages you exchanged with a recipient in one place.

1. From the Home screen, touch  **Messaging**.
2. Message threads display by contact, number, or address. While viewing message threads, you have these options:
 - Touch and hold a thread to choose options, including:
 - **View Contact / Add to Contacts:** View the contact record, or save the sender/recipient's information.
 - **Delete thread:** Erase the entire message thread.
 - Touch  **Menu** for options, including:
 - **Search:** Enter characters to search messages and recipients.
 - **Delete threads:** Touch message threads to mark them for erasure, or touch **Select all** to mark all message threads.
 - **Draft messages:** Messages you have composed and saved for later reuse and/or to be sent to a recipient.
 - **Locked messages:** Messages you have locked to protect them from accidental deletion.

- **Save messages:** Stores the current text message within the Saved messages section of the Messages menu.
- **Settings:** Configure Messaging settings.
- **About:** Displays Messaging version information.

Message Settings

Configure settings for message storage, delivery, or alerts.

1. From the Home screen, touch  **Messaging**.
2. Touch  **Menu**, and then touch **Settings** for options:
 - **Display:**
 - **Bubble style:** Choose the appearance of messages in a message thread. Touch a bubble style for each side of the conversation, then touch **Save**.
 - **Background style:** Choose the appearance of the screen behind the message threads. Touch a style, then touch **Save**.
 - **Use the volume key:** When enabled, you can change the size of message text by pressing the Volume key while viewing.
 - **General settings:**
 - **Restore messages:** Restore saved messages to your inbox.
 - **Delete old messages:** Automatically erase messages when storage reaches default limits. When this option is disabled, the phone prompts you to delete old messages to make room.

- **Text message limit:** Set the number of SMS messages per conversation.
- **Multimedia message limit:** Set the number of MMS messages per thread.
- **Text templates:** Text templates are phrases that you can add to your messages. Use a preloaded text template, or create your own.

• Text message (SMS) settings:

- **Delivery reports:** Receive a delivery report for text messages you send.
- **Auto combination:** Combines multi-segment messages into a single message.

• Multimedia message (MMS) settings:

- **Delivery reports:** Receive a delivery report for multimedia messages you send.
- **Auto-retrieve:** When this option is enabled, MMS messages download automatically. When this option is disabled, the phone prompts for download.

- **Roaming auto-retrieve:** When this option is enabled, MMS messages download and display automatically when roaming. When this option is disabled, the phone prompts you to download new MMS messages.
- **MMS alert:** Receive an alert you when a message changes mode to MMS.
- **Group conversations:** By default, send messages as group conversations.
- **Notification settings:**
 - **Notifications:** Display message alerts in the Status bar.
 - **Select ringtone:** Choose a sound for message alerts.
 - **Vibrate:** Configure vibration for message alerts.
 - **Message alert repetition:** Choose to have message alert repeat Once, Every 2 minutes, or Every 10 minutes.
 - **Preview message:** Display a preview of a received message in the Status bar.
- **Emergency message settings:**
 - **Emergency alerts:** This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS). For more information about Emergency Alerts see “*Emergency alerts*” on page 73.
 - **Emergency notification preview:** Listen to an example of a Emergency Alert tone (and vibration, if enabled). The Emergency Alert tone plays at the same volume as your call ringtone.
 - **Vibrate:** Configure vibration for Emergency Alerts.
 - **Alert reminder:** Choose whether, and at what interval, your phone plays a sound to notify you of a Emergency Alert after the Emergency Alert tone has stopped.
- **Signature settings:**
 - **Add signature:** Add your signature text to the end of your outgoing messages.
 - **Signature text:** Enter text to be added to the end of your outgoing messages.

Emergency alerts



This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS).

Emergency Alerts are geographically-targeted, and alert customers of imminent threats to their safety within their area. There is no charge for receiving an Emergency Alert.

There are four types of Emergency Alerts:

- Presidential
- Extreme
- Severe
- AMBER Alerts (missing person alert)

You may choose not to receive Extreme Alerts, Sever Alerts, and AMBER Alerts. Presidential Alerts, however, cannot be disabled. To disable Extreme and Severe Threat Alerts and AMBER Alerts, do the following:

1. From the Home screen, touch  **Messaging**.
2. Touch  **Menu** → **Settings** → **Emergency alerts**.
3. All alerts are enabled by default (check mark showing). To disable alerts, touch an alert to remove the check mark.

Email



Send and receive email using popular email services.

Configuring Email Accounts

You can configure Email for most accounts in just a few steps.

Tip: For better management of Microsoft Exchange® ActiveSync email accounts, configure them using the **Accounts** setting. For more information, refer to “*Microsoft Exchange ActiveSync*” on page 161.

Configuring the first email account







1. From the Home screen, select  **Apps** →  **Email**.
2. Touch **account@example.com** to enter your email address; then touch **Password** or touch **Next** to enter your password.
3. Touch a setup option:
 - **Manual setup:** Configure the account manually. Touch **POP3 account**, **IMAP account** or **Microsoft Exchange ActiveSync**; then enter the account details. (For account details, contact your Email service provider or your organization's IT support.
 - **Next:** Connect to the server to set up the account automatically. Follow the prompts to complete set-up, and then touch **Done**.

Tip: For more information on setting up your email, contact your Wireless Provider and your Email Service Provider.

Adding More Email Accounts

For information on adding additional Email accounts, see “Email” on page 159.




Composing and Sending Email

1. From the Home screen, select  **Apps** →  **Email** →  **Compose**.
2. Touch fields to enter recipients and the email text.
3. While composing a message, touch  **Menu** for options.
4. Touch  **Attach** to add a file to the message.
5. Touch  **Send** to send the message.

Managing Emails

Refreshing Your Email Account




Refresh your account to update your phone from the servers.

1. From the Home screen, select  **Apps** →  **Email**.
2. Touch  **Refresh**.

Email Account Settings



Use Account settings to configure handling of your email.

Note: Available settings depend on the email provider.

1. From the Home screen, select  **Apps** →  **Email**.
2. Touch an account to view it; then touch  **Menu** → **Settings** → **General preferences** for options.



Gmail


Send and receive emails via Gmail, Google's web-based email.

- From the Home screen, select  **Apps** →  **Gmail**.

Setting Up Your Gmail Account




The first time you launch Gmail, your phone will prompt you to set up your Google account.

1. From the Home screen, select  **Apps** →  **Gmail**.
2. Follow the prompts to sign in, or create a new account.
3. The phone communicates with the Google server to set up your account and synchronize your email.

Note: You can use more than one Google account on your phone. To add another account, from within Gmail, touch  **Menu** → **Settings** → **ADD ACCOUNT** option.




Refreshing Your Gmail Account

Refresh your account to update messages on your phone.

1. From the Home screen, touch  **Apps** →  **Gmail**.
2. Touch  **Menu** → **Refresh**.

Managing Your Gmail Account

Use menu options to manage your Gmail.

1. From the Home screen, touch  **Apps** →  **Gmail**.
2. Touch  **Menu** for options.




Composing and Sending Gmail

1. From the Home screen, touch  **Apps** →  **Gmail** →  **New message**.
2. Touch fields and to compose the message. While composing, touch  **Menu** for options.
3. When your message is complete, touch  **Send**.

Hangouts




Hangouts is a free web-based application for instant messaging offered by Google. You can connect with your friends across computers and various Android devices. You can have conversations or video calls with up to 10 friends.


Note: The first time you use Hangouts, you will need to download the updated application from the Play Store. When the Play Store page displays, tap **Update**. For more information, refer to “*Play Store*” on page 102.

1. Log on to your Google account if you have not already done so. For more information, refer to “*Your Google™ Account*” on page 13.
2. From the Home screen, touch  **Apps** →  **Hangouts**.
3. The first time you access Hangouts, tap **Confirm** to confirm your mobile number. If the number is not correct, tap **Edit phone number** to change it.
4. Begin using Hangouts.
5. Press  **Menu** → **Help** for more information on using Hangouts.

Messenger

Messenger allows you to bring groups of friends together into a simple group conversation. When you get a new conversation in Messenger, Google+ sends an update to your phone.

1. Sign on to your Google account. For more information, refer to “*Your Google™ Account*” on page 13.
2. From the Home screen, touch  **Apps** →  **Messenger**.
– or –
From the Google+ application, select **Messenger**.
3. Select the account you want to use to sign in to Google+.
– or –
Touch **Add account** to create another account.
4. At the **Messenger** screen, touch  to start a new message.

5. In the upper text field, enter a name, email address, or circle.
6. In the bottom message field, enter a message then touch .
7. From the **Messenger** screen, touch **Learn more** for more detailed information.

Section 6: Applications and Widgets

This section contains a description of each application and widget that is available in the Apps and Widget menus, the function, and how to navigate through that particular application or widget. If the application or widget is already described in another section of this user manual, then a cross reference to that particular section is provided.



This section contains a description of each application available in the Apps menu and how to launch it. For applications provided by Samsung, this section also describes functions and navigation.

If an application is described in another section of this user manual, a cross reference to that particular section is provided.

Note: This manual only addresses applications that have been loaded on your device as of the date of purchase. Information concerning third party applications that you may choose to download from the Google Play Store or other sources should be obtained from the application provider directly and not from Samsung.

Tip: To open applications quickly, add the icons of frequently used applications to one of the Home screens. For details, see *“Adding Shortcuts to the Home Screen”* on page 34.


Accessing Applications

1. Press  **Home**. Touch  **Apps**, and then touch the **Apps** tab. The **Apps** screen appears.
2. Sweep your finger right or left to scroll the Apps screens.
3. To launch an application, touch the application's icon.

Customizing the Applications Screen


Choosing a view

By default, application icons appear in Customizable grid view. You can change the view to Alphabetical grid view or Alphabetical list view.

- From the **Apps** screen, touch  **Menu** → **View type**. The available options are:
 - **Customizable grid**: Arrange application icons in the order you prefer.
 - **Alphabetical grid**: Application icons automatically arranged in alphabetical order.
 - **Alphabetical list**: Application icons automatically listed in alphabetical order.

Moving Application icons

With the **Apps** screen in Customizable grid view, you can arrange the application icons to suit yourself.


1. From the **Apps** screen, touch  **Menu**, and then touch **Edit**.

Note: The **Edit** option is not available with the **Apps** screen **View type** set to **Alphabetical list**.

2. Touch and hold an application icon; then drag it to a new location.
3. Touch **Save** when you are finished.

Filtering Application icons

You can select which icons appear in the **Apps** screen.

- From the **Apps** screen, touch  **Menu**, and then touch either of the following options:
 - **Downloaded applications**: Shows only those applications you have downloaded and installed on the phone.
 - **Hide applications**: Mark the applications that you do not want to appear on the **Apps** screen by touching their icons (check marks appear in their check boxes) and then touching **Done**. The **Apps** screen appears without the hidden applications.

Applications List

Calculator



Use the phone's Calculator to perform arithmetical calculations (addition, subtraction, multiplication, and division).


- From the **Apps** screen, touch  **Calculator**.

Calendar



Record events and appointments to manage your schedule.

Tip: A Calendar widget is available in Widgets. For more information about placing widgets on the Home screen, see “*Widgets*” on page 35.

1. From the **Apps** screen, touch  **Calendar**.
2. Touch  to choose a calendar view:
 - **Year:** Display all twelve months of this year. Sweep across the years at the bottom of the screen to display another year.
 - **Month:** Display the current month. Touch a month and year at the bottom of the screen to display another month.
 - **Week:** Display the current week. Touch a week at the bottom of the screen to display another week.

- **Day:** Display today's schedule by hour. Touch day at the bottom of the screen to display another day.
 - **List:** Display only event and task names and dates for a selected year. Touch a year at the bottom of the screen to display another year. Touch a date to hide or show the event or task name.
 - **Task:** Display your list of tasks. Touch the sort field to change how your tasks are sorted. Tasks can be sorted by due date, priority, date, week, month, or group.
3. Swipe across the screen to view other months, days, or weeks.
 4. Use the on-screen keyboard to enter a search term. Possible events appear as you type.
 5. Touch  **Menu** for these options:
 - **Go to:** Display a specific date.
 - **Delete:** Delete an event.
 - **Search:** Search for calendar events.
 - **Sync:** Synchronize the phone's calendar with your account calendars. For more information, refer to “*Setting Up Your Accounts*” on page 44.
 - **Settings:** Customize the calendar.



Customizing the Calendar

1. From the **Apps** screen, touch  **Calendar**.
2. Touch  **Menu**, and then touch **Settings** to configure these settings:
 - **View settings:**
 - **Month view styles:** Choose month view style (Calendar view + list, Calendar view + pop-up).
 - **Week view:** Choose Timeline or Analog view for a week's events.
 - **First day of week:** Choose a day to begin each week.
 - **Hide declined events:** Enable or disable display of events.
 - **Lock time zone:** Set event times and dates to a specified time zone, so that times and dates do not change if you move to another time zone.
 - **Select time zone:** When Lock time zone is enabled, specify the time zone for all events.
 - **Show week number:** Display the number of the week (1 – 52) in a **W** column to the left of **Sun**.
 - **Calendars:** Select calendars to display.

- **Event notification:**



- **Set alerts & notifications:** Choose **Alert** to receive alerts, **Status bar notification** to display notifications in the Status bar, or **Off** for no notifications or alerts.
 - **Select Ringtone:** Choose a ringtone for event notifications. Touch **OK**.
 - **Vibration:** Enable/disable vibration for event notifications.
 - **Default reminder time:** Choose a default reminder time for Calendar events (default time is 15 minutes).
 - **Notifications while screen is off:** Enable/disable display of notifications on the full screen while the screen is blanked.
 - **Quick responses:** Pre-composed text to include with email notifications to meeting attendees, guests, and so on.
- **Gesture:**
 - **Swipe with two fingers:** Show animation demonstrating how to change the Calendar view with a simple swipe with two fingers.

Creating an Event or Task

1. From the **Apps** screen, touch  **Calendar**.
2. Touch  to **Quick add / Add event / Add Task**, fill in and select the information for this event or task, and then touch **Save**.

Sending Events

Send events as vCalendar files to other compatible devices.

1. From the **Apps** screen, touch  **Calendar**.
2. Touch an event to display its details.
3. Touch  **Menu** → **Share via**.
4. Select the desired Sharing method from the **Share via** pop-up.
5. Follow the prompts to send a copy of a Calendar event to another device. For more information, refer to “Connections” on page 112.

Camera

Use the phone's built-in Camera to take pictures and record video.

- From the **Apps** screen, touch  **Camera**.





Important! Do not take photos of people without their permission.

Do not take photos in places where cameras are not allowed.

Do not take photos in places where you may interfere with another person's privacy.

Taking Pictures

1. From the **Apps** screen, touch  **Camera**.
2. Using the display as a viewfinder, compose your picture by aiming the lens at the subject.
 - Touch the screen to focus on the area you touched.
 - “Pinch” the screen, or press the **Volume** key, to zoom in or out.
 - Configure settings, see “*Camera Options*” on page 83.
3. Touch the **Camera** button () to take the picture.

Camera Options

Touch these **Options** to configure the camera:



Self-portrait: Switch to the front camera lens, for self-portraits.



Flash: Choose Off, On, or Auto flash.



Shooting mode: Choose an automatic shooting mode, from:

- **Single shot:** Take a single photo.
- **Best photo:** Takes 8 photographs in quick succession and prompts you to select and save the best.

- **Best face:** Takes 5 photographs in quick succession and selects the best photograph based on open eyes, smiles, sudden movement, and so on.
- **Face detection:** Touch the Camera button to focus on and take a picture of the subject’s face.
- **Panorama:** Take a landscape photo by taking an initial photo and then adding additional images to the initial photo. The guide box lets you view the area in which the second part of the panoramic picture should fall.
- **Share shot:** Use Wi-Fi Direct to share your pictures quickly with your friends.
- **HDR:** Take pictures in HDR (High Dynamic Range) mode to increase image detail.
- **Buddy photo share:** Uses face recognition from pictures in your contacts to send your friends or family pictures of themselves.
- **Beauty:** Adjusts the contrast to create a smooth facial feature effect.

- **Smile shot:** Touch the Camera button to focus on the subject's face. If a smile is detected, the picture is taken automatically.
- **Low light:** Adjusts camera exposure to suit low light conditions.



Color effects: Choose color theme for the picture: **No effect**, **Cold vintage**, **Warm vintage**, **Posterize**, **Solarize**, **Green point**, **Blue point**, **Red-yellow point**, **Washed out**, **Cartoonify**, **Black and white**, **Sepia**, or **Negative**.



Settings → Camera

- **Edit shortcuts:** Select which function shortcuts appear in the function menu.
- **Burst shot:** Automatically takes multiple pictures.
- **GPS Tag:** Add GPS location information to photo details.
- **Self-portrait:** Set the front camera so you can take pictures of yourself.
- **Flash:** Choose Off, On, or Auto flash.
- **Shooting mode:** Choose Single shot, Best photo, Best face, Face detection, Panorama, Share shot, HDR, Buddy photo share, Beauty, Smile shot, or Low light.
- **Effects:** Apply a color effect to pictures.
- **Scene mode:** Choose a mode to match conditions.
- **Exposure value:** Adjust the picture brightness level by moving the slider.
- **Focus mode:** Choose a type of automatic focus.
- **Timer:** Set a delay before taking a picture.
- **Resolution:** Choose a size (in pixels) for the image.
- **White balance:** Choose a setting for the light source.
- **ISO:** Choose a setting for imaging sensitivity.
- **Metering:** Select a method for measuring light.






Settings → Camera (continued)

- **Auto contrast:** Allow automatic light/dark adjustment.
- **Guidelines:** Enable or disable an on-screen grid to aid in photo composition.
- **Auto share shot:** Use Wi-Fi Direct to share your pictures quickly with your friends.
- **Anti-Shake:** Minimize the effect of camera movement.
- **Contextual filename:** Add GPS information to photo file names.
- **Image quality:** Choose a quality setting for photos.
- **Storage:** Choose to store your pictures in Phone memory or on an optional Memory card.
- **Reset:** Set all Camera settings to the defaults.

Camcorder

Use the phone's built-in Camcorder to record video.

- From the **Apps** screen, touch  **Camera** →   **Mode**.








Options menu

Important! Do not take videos of people without their permission.

Do not take videos in places where cameras are not allowed.



Do not take videos in places where you may interfere with another person's privacy.

Capturing Video

1. From the **Apps** screen, touch  **Camera** →  **Mode**.
2. Using the display as a viewfinder, compose your shot by aiming the lens at the subject.
 - Touch the screen to focus on the area you touched.
 - “Pinch” the screen, or press the **Volume** key, to zoom in or out.
 - To configure settings, see “*Camcorder Options*” on page 86.
3. Touch the  **Record** button to start recording.
4. Touch  **Pause** to Pause the camcorder.
5. Touch  **Stop** to stop recording.

Camcorder Options

Configure the camcorder.

1. From the **Apps** screen, touch  **Camera** →  **Mode**.
2. Use these options to configure the camcorder:



Self recording: Record video with the front camera.



Flash: Choose Off or On.



Recording mode: Choose a recording mode, from:

- **Normal:** Record a video of any length.
- **Limit for MMS:** Record a video of a size suitable for sending in a Video message.



Color effects: Choose color theme for the video: **No effect**, **Cold vintage**, **Warm vintage**, **Posterize**, **Solarize**, **Green point**, **Blue point**, **Red-yellow point**, **Washed out**, **Cartoonify**, **Black and white**, **Sepia**, or **Negative**.




Settings

- **Edit shortcuts:** Select which function shortcuts appear in the function menu.
- **GPS tag:** Add GPS location information to video details.
- **Self-recording:** Set the front camera so you can take videos of yourself or video chat.
- **Flash:** Choose Off or On.
- **Recording mode:** Choose Normal or Limit for MMS recording mode.
- **Effects:** Apply an effect to videos.
- **Exposure value:** Adjust the picture brightness level by moving the slider.
- **Timer:** Set a delay before starting recording.
- **Resolution:** Choose a size (in pixels) for the recording.
- **White balance:** Choose a setting for the light source.
- **Guidelines:** Display a grid to aid in video composition.
- **Anti-Shake:** Minimize the effect of camcorder movement.
- **Contextual filename:** Allows you to set the video file name to a name describing the video content or location (i.e., South Padre Beach).
- **Video quality:** Choose a quality setting for videos.
- **Storage:** Choose to store your videos in Phone memory or on an optional Memory card.
- **Reset:** Set all Camcorder settings to the defaults.

Chrome

The Google Chrome app allows you to use the Google Chrome web browser on the phone.

1. From the **Apps** screen, touch  **Chrome**.
2. Read the **Google Chrome Terms of Service** and tap **Accept and Continue**.
3. If you have an existing Chrome account, tap **Sign in** to bring your open tabs, bookmarks, and omnibox data from your computer to the phone, otherwise tap **No thanks**.
4. Follow the on-screen instructions to use Google Chrome.

Clock


- From the **Apps** screen, touch  **Clock**.

The Clock application includes these features:

- **Alarm:** Create alarms to go off once, or to repeat.
- **World Clock:** Display the time and date in any time zone.
- **Stopwatch:** Record lap times.
- **Timer:** Measure elapsed time.
- **Desk clock:** Choose whether the clock calendar and weather appear on the screen, and what outputs are active, when you connect the phone to an optional dock.


Contacts

Contacts lets you access and manage your Contacts list, Contacts Groups, Favorites list, and Speed dial settings. For more information, refer to “*Contacts*” on page 47.

- From the **Home** screen, touch  **Contacts**.

Downloads

View and manage files and other items you download to the phone.

1. From the **Apps** screen, touch  **Downloads**.
2. Touch an item to open it (if an appropriate application is installed.)

Note: Applications you download from Google Play™ Store are managed with the Play Store app, and do not appear in **Downloads**.

Email


Send and receive email using popular email services. For more information, refer to “*Email*” on page 73.

- From the **Apps** screen, touch  **Email**.

Gallery


The Gallery is where you view photos and videos. For photos, you can also perform basic editing tasks, view a slideshow, set photos as wallpaper or contact image, and share as a picture message.

Tip: You can increase Gallery photo and video storage by installing a memory card. For more information, refer to “*Installing a Memory Card*” on page 11.

1. From the **Apps** screen, touch  **Gallery**.
All of the Albums that hold your pictures and videos appear with folder name(s) and number of files.
2. Tap an Album. Thumbnails of the contents appear.

Note: If your device indicates that memory is full when you access Gallery, delete some of the files using **My files** and try again. For more information, refer to “*My Files*” on page 100.

Viewing Pictures

1. From the **Apps** screen, touch  **Gallery**. Select an album, and then touch a picture to view it.
2. While viewing a picture, touch the screen to display the following options:



Favorites: Tag this photo as one of your favorites.



Share via: Sends the picture using Bluetooth, Email, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct.




Delete: Erases the picture.

3. Touch  **Menu** for the following additional options:
 - **Slideshow:** Starts a slideshow (if there are multiple photos).
 - **Face tag:** Identify faces with a yellow box, so you can touch to add tag information.
 - **Tag buddy:** When set to on, choose to save Weather, Location, Person (Face tag), and/or Date information with this photo.
 - **Add weather tag:** Select the Weather tag to be saved with this photo.
 - **Copy to clipboard:** Create a copy, to paste into other apps.
 - **Rotate left:** Rotate the image 90 degrees counter-clockwise.

- **Rotate right:** Rotate the image 90 degrees counter-clockwise.
- **Crop:** Change the picture's size and/or remove portions of the picture.
- **Edit:** Edit the picture using the downloadable Photo Editor app.
- **Set as:** Assign the picture as a Contact photo, or as wallpaper.
- **Buddy photo share:** Send the picture to the Contacts whose Contact photos match faces in the picture.
- **Print:** Print the picture using Wi-Fi to a compatible Samsung printer.
- **Rename:** Change the picture's filename.
- **Scan for nearby devices:** Scan for nearby Bluetooth-enabled devices.
- **Details:** View information about the picture.

Viewing Videos

1. From the **Apps** screen, touch  **Gallery**, and select an album. A matrix or list of available videos appears.
2. To play a video, touch its thumbnail or list entry.
3. While viewing videos, touch the screen to display the following options:




Favorites: Tag this video as one of your favorites.



Share via: Sends the video using Bluetooth, Email, Gmail, Google+, Messaging, Picasa, Wi-Fi Direct, or YouTube.



Delete: Erases the picture.

4. Touch  **Menu** for the following additional options:
 - **Slideshow:** Starts a slideshow (if there are multiple videos and/or photos).
 - **Tag buddy:** When set to on, choose to save Weather, Location, Person (Face tag), and/or Date information with this photo.
 - **Rename:** Change the video's filename.
 - **Scan for nearby devices:** Scan for nearby Bluetooth-enabled devices.
 - **Details:** View information about the video.

Sharing Using S Beam

You can also share Gallery photos and videos with compatible devices using S Beam.

For more information, refer to “*S Beam*” on page 121.

Gmail

Send and receive emails using Gmail, Google's web-based email.


For more information, refer to “*Gmail*” on page 75.

- From the **Apps** screen, touch  **Gmail**.

Google


Use Google to search the Web.

Tip: The Google Search Widget is available by default on the Home screen. For more information Widgets, see *“Adding Widgets to the Home screen”* on page 35.

1. From the **Apps** screen, touch  **Google**.
2. Enter search criteria. Search results appear automatically.
3. Touch a search result to display it in a browser window.



Google Settings

Google Settings lets you quickly and easily change shared settings to tailor a number of Google apps at the same time to suit your needs.

- From the **Apps** screen, touch  **Google Settings**.

Google+

Google+ makes messaging and sharing with your friends a lot easier. You can set up Circles of friends, visit the Stream to get updates from your Circles, use Messenger for fast messaging with everyone in your Circles, or use Instant Upload to automatically upload videos and photos to your own private album on Google+.

1. From the **Apps** screen, touch  **Google+**.
2. For instructions on using Google+, touch  **Menu** → **Help**.



Group Play

Using Group Play, you can share documents or photos you are viewing, or music you are listening to, with other devices connected to the same Wi-Fi network with your device.

1. From the **Apps** screen, touch  **Group Play**.
The **Welcome to Group Play!** screen appears.
2. Touch **Next** for instructions on using Group Play.


Hangouts

Hangouts is a multiple platform instant messaging application that lets you connect with your friends across computers and Android devices. You can have conversations or video calls with up to 10 friends at once.

1. From the **Apps** screen, touch  **Hangouts**.
2. The first time you access Hangouts, tap **OK** to **Confirm your mobile number**. If the number is not correct, tap **Edit phone number** to change it.
3. For more information on using Hangouts, touch  **Menu** → **Help**.


Help

Use Help to read or view brief instructions or videos on how to use the features and settings available with the phone.

1. From the **Apps** screen, touch  **Help**.
The **Help** screen appears.
2. Select a topic from the menu on the left side of the screen.
3. Read or view the selected topic information in the right side of the screen.

Internet

This phone is equipped with a full HTML Browser, which allows you to access the internet.



- From the **Apps** screen, touch  **Internet**. Your Wireless Provider's mobile home page appears in the Internet screen.

Local

Find places of interest near your current location or a specified locations.

Note: To use Local, enable location services.

For more information, refer to “*Location services*” on page 147.

1. From the **Apps** screen, touch  **Local**.
2. For more information, touch  **Menu** → **Help**.

Maps

Use Google Maps to find your current location, get directions, and other location-based information. The Google Maps shortcut appears by default on the Home screen.

Note: You must enable location services to use Maps, and some features require Standalone or Google location services. For more information, see “*Location services*” on page 147.

- From the **Apps** screen, touch  **Maps**.

Tip: A shortcut to Maps appears on the Main Home screen by default.

Navigating the Map

Zooming

- Double-tap on the screen to zoom in.
- Touch Zoom in or Zoom out.

Scrolling

- Touch and drag on the screen to reposition the map in the display.

Touch

- Touch an icon on the map to display information about the location.

Messaging

Messaging lets you exchange text and multimedia messages with compatible device users.

For more information, refer to “*Messaging*” on page 69.

- From a Home screen, touch the  **Messaging** shortcut.


– or –

From the **Apps** screen, touch  **Messaging**.

Messenger


Messenger allows you to bring groups of friends together into a simple group conversation. When you get a new conversation in Messenger, Google+ sends an update to the phone.

For more information, refer to “*Google+*” on page 92.

1. From the **Apps** screen, touch  **Messenger**.
2. Follow on-screen instructions to set up and use Messenger.

Music Player


The Music Player is an application that can play music files. The music player supports files with extensions AAC, AAC+, eAAC+, MP3, and WMA. Launching the Music Player allows you to navigate through your music library, play songs, and create playlists (music files bigger than 300 KB appear).

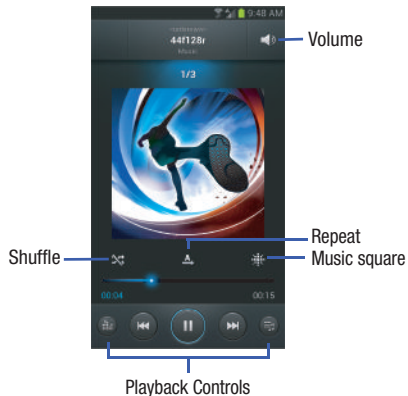
1. From the **Apps** screen, touch  **Music Player**.
2. Touch a library category tab at the top of the screen (All, Playlists, Albums, Artists, Music square, or Folders) to view the available music files.

Music File Options

- From a music library category, touch and hold a song to access the following options:
 - **Share via:** Share your music with other devices using Bluetooth, Email, Gmail, Group Play, Messaging, or Wi-Fi Direct.
 - **Set as:** Set a music file as the Phone ringtone, as a Caller ringtone, or as the Alarm tone.
 - **Add to playlist:** Add the current music file to a selected playlist.
 - **Add to quick list:** Add the current music file to the Quick list.
 - **Delete:** Erase this song from storage.












Playing Music

1. From the **Apps** screen, touch  **Music Player**.
2. Touch a library category tab at the top of the screen (All, Playlists, Albums, Artists, Music square, or Folders) to view the available music files.
3. Scroll through the list of songs and touch an entry to begin playback.



Music Playback Controls

The following music playback controls are available:

-  Pause song playback.
-  Start or resume song playbacks.
-  Touch and hold to rewind the song.
Touch to go to previous song.
-  Press and hold to fast-forward the song.
Touch to go to next song.
-  Control media (music playback) volume.
-  **Repeat one:** Repeat the song currently playing.
-  **Repeat all:** Replay the current list when the list ends.
-  **Play All:** Play the current song list once.
-  **Shuffle On:** Randomly shuffle the current list of songs for playback.
-  **Shuffle Off:** Play songs in the listed order.
-  **Music square:** Play songs linked to buttons in a 5x5 matrix and categorized according to four criteria.
-  **Music list:** Return to the current playlist.



SoundAlive: Select the desired sound profile.





Now Playing: Display the Music player screen with the current song information.

Tip: When you play music in background, the basic playback controls are available on the Notifications panel.
For more information, see “*Notifications*” on page 26.



Music Player Options

To access additional options, follow these steps:

1. From the **Apps** screen, touch  **Music Player**.
2. Touch  **Menu** and select from the following options:
 - **Add to playlist:** Add the current music file to a selected playlist.
 - **Via Bluetooth:** Scan for devices and pair with a Bluetooth headset.
 - **Share via:** Share your music with other devices using Bluetooth, Email, Gmail, Group Play, Messaging, or Wi-Fi Direct.
 - **Delete:** Remove one or more selected songs from your phone.
 - **Search:** Find songs with file names that include characters you enter.
 - **Scan for nearby devices:** Scan for nearby Bluetooth-enabled devices.
 - **Settings:** Change your Music Player settings. For more information, see “*Music Player Settings*”.
 - **End:** Close the Music Player application.

Music Player Settings

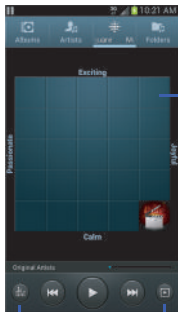
The Music Player Settings menu allows you to set preferences for the music player such as whether you want the music to play in the background, sound effects, and how the music menu appears.

1. From the **Apps** screen, touch  **Music Player**.
2. Touch  **Menu** → **Settings**. The following settings are available:
 - **SoundAlive:** Set a type of equalization such as Normal, Pop, Rock, Jazz, Dance, Classic, and more.
 - **Play speed:** Set the play speed anywhere between 0.5X and 2.0X using the slider.
 - **Music menu:** Select which categories you want to display in the Music menu. Choices are: Albums, Artists, Genres, Music square, Folders, Composers, Years, Most played, Recently played, or Recently added.
 - **Lyrics:** Activate to display the song's lyrics, if available.
 - **Music auto off:** Activate to turn off music automatically after a set interval.

Music Square



Music square analyzes your music files (a minimum of 25 files) and assigns them to playlists linked to buttons in a 5x5 matrix according to the following criteria:

- **Moods:** Exciting, Passionate, Joyful, Calm.
- **Years:** Exciting, Old, New, and Calm.





Playlist
Selection
Buttons

Playback controls

1. From the **Apps** screen, touch  **Music Player**.
2. Touch the **Music square** tab.
3. Touch  **Menu** → **Library update**.
4. Select a playlist based on mood or age of the song.


Music Square Options

To access additional options, follow these steps:

1. From the **Apps** screen, touch  **Music Player** → **Music square**.
2. Touch  **Menu** and select from the following options:
 - **Help:** Adds the current music file to the Quick list.
 - **Library update:** Analyzes your music files and assigns them to playlists linked to playlist selection buttons.
 - **Change horizontal axis:** Select Mood or Years.
 - **Scan for nearby devices:** Scans for nearby Bluetooth-enabled devices.
 - **Settings:** Change your Music Player settings.
For more information, refer to “*Music Player Settings*” on page 98.
 - **End:** Close the Music Player application.

My Files

Find, view and manage files stored on an installed memory card. If the file is associated with an application on the phone, you can launch the file in the application.


1. From the **Apps** screen, touch  **My Files**.
2. Tap a folder and scroll down or up until you locate a file.
3. Touch a file to launch it in the associated application (if the file is associated with an application).
4. While browsing files, use these controls:



Home to go back to the root directory.



Up to go back up to a higher directory.

5. Touch  **Menu** to access the following options:
 - **Select all:** Find files whose names match characters you enter
 - **Create folder:** Create a new folder in your phone's USB Mass Storage or on a Memory Card.
 - **Search:** Find files whose names match characters you enter.
 - **View by:** Choose whether to view files and folders as a List, List and details, or Thumbnail images.
 - **Sort by:** List files and folders in order of their Time, Type, Name, or Size.
 - **Settings:** Choose whether to Show hidden files or Show file extension, Show categories or Set home directory for My Files.
6. When you check a file that you want, the Selection pull down menu will appear in the upper left corner. Individual files can be selected or pull down the menu and choose **Select all** or **Unselect all**. **Delete**, **Share via**, or the following **Options (Move, Copy, Rename, Details)** can also be seen at the top of the screen.

Navigation

Use Google Navigation to search for locations, and get turn-by-turn directions.



Note: You must enable location services to use Navigation, and some features require Standalone or Google location services. For more information, see “*Location services*” on page 147.

- From the **Apps** screen, touch  **Navigation**.

Phone

The Phone application allows you to access the dialer keypad, call logs, and favorites.

For more information, refer to “*Calling*” on page 57.

- From a Home screen, touch the  **Phone** shortcut.
— or —
From the **Apps** screen, touch  **Phone**.

Play Books

With Google Play™ Books, discovering your favorite books and authors has never been easier. You can shop the world's largest selection of ebooks and read them anywhere you like - on a phone, phone, ereader, or the Web.

- From the **Apps** screen, touch  **Play Books**.


Play Magazines

With Google Play Magazines, you can subscribe to your favorite magazines and have them available to read on the phone at any time or any place.

- From the **Apps** screen, touch  **Play Magazines**.


Play Movies & TV

With Google Play Movies, you can rent thousands of different movies. You can watch instantly, or download your movie for offline viewing at a later time.

1. From the **Apps** screen, touch  **Play Movies & TV**.
2. Log on to your Google account if you have not already done so.
3. Following the on-screen instructions for renting and viewing movies.


Play Music

With Google Play Music, you can play music that you have added to your music file as well as any music you copied from your PC. While offline, you can listen to music you have copied from your PC.

1. From the **Apps** screen, touch  **Play Music**.
2. Follow the on-screen instructions to locate and play music.


Play Store

Android Market is now Google Play™ Store, where all your favorite books, movies, apps, and games are all in one place that's accessible from the Web and your Android device. You'll need to have a Google account set up on the phone to download a new application.


1. From the **Apps** screen, touch  **Play Store**.
2. The first time you open Play Store, read the Terms of Service, and then touch **Accept** to continue.
3. Browse for applications to download. Follow the prompts.



S Memo

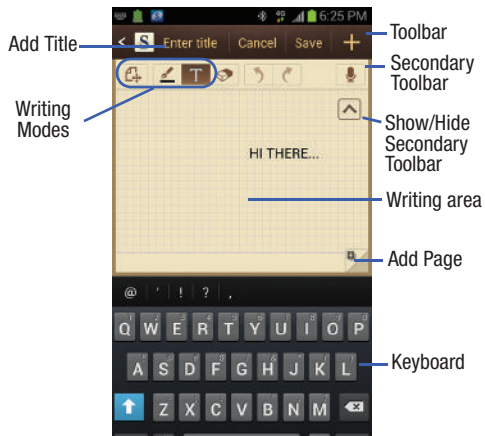
The S Memo application allows you to create memos using the keypad, your finger, or both. You can add images, handwriting, voice recordings, and typewritten text all in one place.

1. From the **Apps** screen, touch  **S Memo**.
2. Review the **Learn about actions** information pop-up to learn more about S Memo.




Creating a New Memo









1. From the **Apps** screen, touch  **S Memo**.
The S Memo screen appears.
2. Tap an existing Memo to open it. then tap the screen to enter edit mode.
— or —

Tap  to start a new memo in text mode with the keypad displayed or tap  to start a new memo in drawing mode using your finger or a compatible on-screen writing tool. You can change back and forth in a memo to add text with the keypad and the pen.



The icons on the screen are described in the following table:

	Add new page.
	Change the view mode.
	Add free-format drawing.

-  Display the keypad to add text.
-  Erase marks and drawings.
-  Undo the last action.
-  Redo the last action that was undone.
-  Make a voice recording to add to the memo.
-  Hide the secondary toolbar.
-  Show the secondary toolbar.
-  Add an additional page to the memo.

3. Touch  **Menu** to access the following options:

Note: Which options appear depends upon whether you have saved the memo, are in keypad mode, or in handwriting mode



- **Rename:** Change the current memo title.

- **Share via:** Share your memo using Group Play, Hangouts, Picasa, Google+, Bluetooth, Wi-Fi Direct, Messaging, Gmail, or Email.
- **Handwriting-to-text:** Transcribe handwriting into text.
- **Export:** Save the memo to your Gallery or as a PDF.
- **Save as:** Save the memo with a different name.
- **Add picture:** Add an image to the current memo. Choose from: Picture, Take picture, Clip Art, Clipboard, or Map.
- **Add tag:** Set tags to add in searches.
- **Add as favorite:** Tag the current memo as a favorite.
- **Change background:** Set the background for your memo. Swipe the screen to the left or right to select a background and then tap **Done**.
- **Link to Calendar:** Link the memo to your Calendar.
- **Lock:** Lock an email by using a PIN number.
- **Set as:** Set a memo as a contact icon, Home screen wallpaper, or Lock screen wallpaper.
- **Print:** Print the screen or web page on a Samsung printer using Wi-Fi.

4. Touch **Save** when you are finished creating the memo.

S Voice

S Voice provides plain language voice recognition control of various features and applications on the phone.


1. From the **Apps** screen, touch  **S Voice**.
— or —
From the Home screen, press  **Home** twice in quick succession.
2. Read the Samsung Disclaimer then touch **Confirm** to continue.
3. Read the Terms of Service then touch **Agree** to continue.
4. Read the information on the **About S Voice** screen, and then touch **Next**.
5. Read the information on the **Say what you want** screen, and then touch **Next**.
6. Read the information on the **Wake up S Voice** screen, and then touch **Next**.
7. Read the information on the **Edit what you said** screen, and then touch **Next**.
8. Read the information on the **Help** screen, and then touch **Finish**.

9. At the S Voice screen, say “Hi Galaxy” to wake up S voice.
10. Speak into the phone and follow the on-screen instructions.

Samsung Apps


With Samsung Apps, you can easily download an abundance of applications to your device. These include games, news, reference, social networking, navigation, and more. Samsung Apps makes your smartphone smarter.

Note: Access to this feature requires that you already be logged in to your Samsung account. For more information, refer to “*Creating a Samsung Account*” on page 13.

1. From the **Apps** screen, touch  **Samsung Apps**.
2. If prompted, read the on-screen disclaimer and agree to the information.
3. Follow the on-screen instructions.

Samsung Link

Samsung Link is a smart remote that allows you to use your phone to control your TV and other devices.

1. From the **Apps** screen, touch  **Samsung Link**.
2. Touch **Sign in** to sign in to Samsung Link.
3. Touch **Sign in** again and sign in to your Samsung account.
4. Follow the on-screen instructions.


Settings

Configure the phone to your preferences. For more information, see “*Settings*” on page 123.

- From the **Apps** screen, touch  **Settings**.

Video Player

Video Player identifies and plays video files (3GP or MP4) stored on the phone or on an optional microSD Memory card.

1. From the **Apps** screen, touch  **Video Player**.
2. By default, videos appear by name in an array of **Thumbnails**.

You can also display your videos in an alphabetical list by touching the **List** tab, or touch the **Folders** tab to list the folders where your videos are stored.

3. To play a video, simply touch its thumbnail or list entry.

The following video controls are available:



Pause: Pause the video.



Play: Restart the video after pausing.



Back: Move backward to the previous video. Touch and hold to scan backward through the current video



Forward: Advance to the next video. Touch and hold to scan forward through the current video.



Volume: Activate an on-screen volume control. Touch and drag the scale to set volume, or press the Volume key on the side of the phone.



Pop-up Player: Play the video in a small window so you can use the phone for other purposes while watching the video. Double tap the screen to return to the player and normal size.



Full-screen: Display the video on the entire screen. This view may cause some image distortion.



Original size: Play the video in its original size.



Full-screen in ratio: Enlarge video as much as possible without distortion.

Note: The screen view icons are a three-way toggle. The icon that appears is the mode used after you tap the icon.

4. While playing a video, touch **Menu** for video options.

Voice Recorder

Record your voice or other sounds, and share recordings using Bluetooth, Messaging, or Gmail.

- From the **Apps** screen, touch **Voice Recorder**.

Voice Search

Voice Search offers voice-activated Google searches. If you agree, Voice Search uses your location to improve search results and offer other services.

- From the **Apps** screen, touch **Voice Search**.

VPN Client

VPN Client lets you define multiple Virtual Private Networks (VPNs) to your device and connect to them as needed by simply selecting a connection from the VPN Client list.


- From the **Apps** screen, touch  **VPN Client**.

Tip: The first time you launch Your Navigator Deluxe, the phone downloads Your Navigator Deluxe updates and applications not included with Your Navigator Deluxe to save storage. Activating Wi-Fi can save data charges during this download.



For more information, refer to “Wi-Fi” on page 112.

YouTube

Access your YouTube™ account, and view and upload YouTube videos, right from the phone.

- From the **Apps** screen, touch  **YouTube**.

Accessing Widgets

1. Press  **Home**. Sweep your finger right or left to scroll to a particular Home screen panel.
2. Touch  **Apps**. Touch the **Widgets** tab. The **Widgets** screen appears.

– or –
Touch and hold on the displayed **Home screen** panel until the Home screen menu appears. Touch **Add to Home screen → Apps and widgets**; then touch the **Widgets** tab. The **Widgets** screen appears.
3. Sweep your finger right or left to scroll through the Widgets screens and find the desired widget.
4. To place a widget on the selected Home screen panel, touch and hold the widget's image or icon, and then position the widget on the Home screen panel.
5. Follow any prompts needed to configure the widget.

Widgets List

The following widgets are available on your Home screen:

- **Alarm 2 x 1:** Add, view, and manage alarms you set using this widget or using the Clock application.
- **AllShare Cast 1 x 1:** Share the contents of your device's screen with multiple Digital Living Network Alliance (DLNA) certified devices.
- **Assistive light 2 x 1:** Use the phone's flash as a flashlight.
- **Book 1 x 1:** Directly access one of your downloaded electronic books from **Play Store**.
- **Bookmark 1 x 1:** Directly access a bookmarked page in one of your downloaded electronic books from **Play Store**.
- **Bookmarks 3 x 2:** View and directly access any of 6 Chrome browser bookmarked web pages.
- **Calendar 2 x 3:** View your Calendar events scheduled for today.
- **Calendar (mini today) 4 x 2:** View and access your Calendar events scheduled for today.
- **Calendar (month) 4 x 4:** View and access your scheduled Calendar events, one month at a time.
- **Calendar (tasks) 4 x 4:** View and access your tasks scheduled for today.

- **Clock (digital) 4 x 1:** View a digital clock-calendar.
- **Clock (digital) 2 x 1:** View a digital clock-calendar.
- **Clock (funky) 2 x 2:** View an analog clock with distinctive numerals.
- **Clock (modern) 2 x 2:** View an analog clock with simplified graduations.
- **Contact 4 x 1:** Directly access a selected contact for calls or messaging.
- **Contact 1 x 1:** Directly access a selected contact for calls or messaging.
- **Direct Dial 1 x 1:** Immediately call a selected contact.
- **Direct Message 1 x 1:** Immediately send a message to a selected contact.
- **Directions & Navigation 1 x 1:** Immediately obtain directions to a selected location.
- **Dual clock (analog) 4 x 2:** View analog clocks for two selected locations.
- **Dual clock (digital) 2 x 2:** View digital clock-calendars for two selected locations.
- **Dual clock (digital) 4 x 2:** View digital clock-calendars for two selected locations.

- **Email 4 x 4:** View and directly access email messages in your Combined email box.
- **Favorite Apps 4 x 4:** View and select any of 9 of your favorite apps from a 3x3 array.
- **Favorite Contacts 4 x 2:** View and select any of 3 of your favorite Contacts.
- **Favorite Contacts 4 x 4:** View and select any of 9 of your favorite Contacts from a 3x3 array.
- **Favorite settings 4 x 4:** View and select any of 9 of your favorite Settings from a 3x3 array.
- **Gmail 3 x 3:** View and directly access your Gmail messages.
- **Gmail label 1 x 1:** Directly access Gmail messages with a selected Gmail label.
- **Google Now 4 x 4:** View the results of repeated actions performed on your phone (including accessing locations, repeated calendar appointments, search queries, and more). Google Now automatically updates the desired information in the form of “cards”.
- **Google Play Books 2 x 3:** Directly access your Google books.
- **Google Play Music 4 x 1:** Directly access and play a selected music playbook.
- **Google Search 4 x 1** (transparent background): Perform and manage Internet searches.
- **Google Search 4 x 1** (opaque background): Perform and manage Internet searches.
- **Google+ posts 4 x 2:** View and access your social media site accounts.
- **Messaging 3 x 3:** View and access your latest messages.
- **Mono audio 2 x 1:** Switch between Stereo and Mono audio reproduction.
- **Music Player 4 x 1:** Play your music files.
- **Music playlist 1 x 1:** Play a selected music playlist.
- **My Call Sound 1 x 1:** Use a pre-selected sound profile for your calls.
- **Negative colors 2 x 1:** Switch the phone’s display between photo positive and negative colors.
- **Picture Frame 2 x 2:** Directly access your photos and images.
- **Play - My Library 4 x 4:** Access your Google content (ebooks, music, magazines, and videos).
- **Play Recommendations 4 x 2:** View recommendations from Google Play Store.

- **Play Store 2 x 2:** View recommendations from and access Google Play Store.
- **S Bookmark 1 x 1:** View a selected bookmarked web site and directly access it.
- **S Bookmarks 3 x 2:** View selected bookmarks and directly access the related web sites.
- **S Memo 2 x 2:** View and access a stored memo.
- **Settings shortcut 1 x 1:** Directly access selected settings for the phone.
- **Simple alarm clock 4 x 2:** View and directly access a selected Clock alarm.
- **Simple Picture Frame 2 x 2:** Directly access your photos and images.
- **Traffic 1 x 1:** Directly access traffic information for a selected destination.
- **Video Player 2 x 1:** Directly access and play one or more selected videos.
- **Weather 4 x 2:** View current and forecast temperature and weather conditions for a selected location.
- **Yahoo! Finance 4 x 2:** View current prices for selected stocks and/or commodities and directly access additional financial information.
- **Yahoo! News 4 x 2:** View news headlines and access full news articles.
- **YouTube 3 x 2:** Receive and view suggested videos. Directly access your YouTube account.

Section 7: Connections

Wi-Fi

Wi-Fi is a wireless networking technology that provides access to local area networks.

Wi-Fi communication requires access to an existing Wi-Fi network. Wi-Fi networks can be Open (unsecured), or Secured (requiring you to provide login credentials).

Your phone supports the 802.11 a/b/g/n Wi-Fi protocols.

Configuring Wi-Fi Settings


Configure your phone's Wi-Fi settings.

For more information, see *"Wi-Fi Settings"* on page 124.


Turning Wi-Fi On or Off

When you turn Wi-Fi service on, your phone automatically searches for available, in-range "hotspots" [also termed WAPs (Wireless Access Points)].

Turning Wi-Fi On

1. From the top of the Home screen, sweep your finger downward to display the Notifications screen.
2. At the top of the Notifications screen, touch  **Wi-Fi** to turn Wi-Fi on.



Turning Wi-Fi Off

1. From the top of the Home screen, sweep your finger downward to display Notifications.
2. At the top of the Notifications screen, touch  **Wi-Fi** to turn off Wi-Fi.

Scanning and Connecting to a Wi-Fi Network

1. Turn Wi-Fi on. Your phone scans for available hotspots and displays a list of any it finds.
For more information, refer to *“Turning Wi-Fi On”* on page 112.
2. To connect to a hotspot, touch it on the pop-up list.
 - If the Wi-Fi network is open, you will be automatically connected.
 - If the Wi-Fi network is secured, enter the password at the prompt to connect.

Adding a Wi-Fi Network Manually

1. From the Home screen, touch  **Menu** → **Settings** → **Wi-Fi**. The **Wi-Fi** screen appears.
For more information, refer to *“Accessing Settings”* on page 123.
2. Touch **Wi-Fi**  to turn on Wi-Fi.
3. Touch **Add Wi-Fi network**. Enter the following values:
 - **Network SSID**: Enter the name of the WAP (Wireless Access Point).
 - **Security**: Select the type of security used by the WAP.
 - **Password**: If the WAP is secured, enter the password or key.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Establishing Wi-Fi Direct Connections

1. From the Home screen, touch  **Menu** → **Settings** → **Wi-Fi** → **Wi-Fi Direct**.
The **Wi-Fi Direct** screen appears, and your phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.
2. To connect to a single Wi-Fi Direct device, touch its name in the list.
3. To connect to multiple Wi-Fi Direct devices, touch **Multi-connect**, touch **Select all** or individual devices, and then touch **Done**.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 188.

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet.

You don't need to line up the devices to send information with Bluetooth. If the devices are in range, you can exchange information between them, even if they are in different rooms.

Configuring Bluetooth Settings



Configure your phone's Bluetooth settings.

For more information, see *"Bluetooth settings"* on page 127.

Note: Bluetooth profiles are specifications for services supported by individual devices.

For a list of profiles your phone supports, see *"Bluetooth profiles"* on page 126.


Turning Bluetooth On or Off

1. From the Home screen, sweep your finger from the top of the screen downward to display Notifications.
2. Touch  **Bluetooth** to turn Bluetooth on.
Touch  **Bluetooth** to turn Bluetooth off.

Pairing with a Bluetooth Device

Search for a Bluetooth device and pair with it, to exchange information between your phone and the device.

After pairing, your phone and the target device will connect with each other and exchange information without a passcode or PIN.

Note: When connected, the  **Bluetooth connected** icon appears in the Status bar. If you receive a new request for connection while connected with a Bluetooth headset, a new Bluetooth icon appears at the left of the Status bar and Notifications displays the connection request.


1. Activate the target device's discoverable mode.

2. On your phone, turn on Bluetooth. A list of detected devices appears on your display.
For more information, refer to *“Turning Bluetooth On or Off”* on page 114.
3. From the list of detected devices, touch the target device, your phone attempts to automatically pair with the target device.
If automatic pairing fails, then follow the prompts to complete manual pairing:
 - Enter a PIN for the target device and touch OK.

Tip: Some devices use a default passcode of 0000. Refer to the target device’s user manual for more information.

- When prompted to connect with the target device, touch **OK** to complete the connection, touch **Cancel** to retain the pairing only.

Connecting with a Bluetooth Device

1. From the Home screen, touch  **Menu** → **Settings** → **Bluetooth**. The **Bluetooth** screen appears.
2. Under **Available devices**, touch a previously paired device. The device connects with your phone.


VPN

You can use your phone’s VPN (Virtual Private Network) feature to connect to VPNs.

Configuring VPN Settings

For information about configuring your phone’s VPN settings, see *“VPN”* on page 131.

Accessing a VPN

1. From the Home screen, touch  **Menu** → **Settings**.
2. Under **Wireless and network**, touch **More settings** → **VPN**. The **VPN** screen appears, listing available VPN connections.
3. Touch a VPN and follow any prompts to access the network.

PC Connections

You can connect your device to a PC using an optional PC data cable using various USB connection modes.

Storage: Lets you use the built-in mass storage and memory card capacity of the phone to store and upload files. This option lets your computer treat your phone's installed and card memory as removable storage drives.

Kies via Wi-Fi: Lets you wirelessly synchronize files on your phone (in mass storage and on a memory card) with files on your Windows PC, provided they are both on the same Wi-Fi network.

Note: To sync your device to your PC it is highly recommended that you install Samsung Kies which is available at <http://www.samsung.com/kies> (for Windows/Mac).

If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer. Also, ensure that you have Samsung Kies 2.5 or Windows Media Player 10 or higher installed on your computer.

Connecting as a Storage Device

You can connect your device to a personal computer, have your device appear as a removable disk, and access your device's file directory. If you insert a memory card in the device, you can also access the files directory on the memory card by using the device as a memory card reader.

Note: The file directory of the memory card appears as a removable disk, separate from the internal memory.

1. Connect the USB cable to the device and connect the cable to the computer. After a few seconds, a pop-up window appears on the PC, prompting you to choose how to access the new device.
2. On the PC pop-up, click **Open device to view files**. You can now transfer files between the PC and your phone's memory and memory card (if installed).

Kies via Wi-Fi

Kies via Wi-Fi

Kies via Wi-Fi lets you synchronize your PC wirelessly with your device, provided they are both on the same Wi-Fi network. You can view and share videos, photos, music, ringtones, and more.

1. From your PC, download and install the Samsung Kies application if you don't already have it.

Tip: You can find it at samsung.com.


2. From your PC, launch the Samsung Kies application.
3. From your PC, connect to a Wi-Fi network.
4. From the **Settings** screen, touch **More settings → Kies via Wi-Fi**.
5. From your device, connect to the same Wi-Fi network that your PC is connected to if you have not already done so.

For more information, refer to “*Scanning and Connecting to a Wi-Fi Network*” on page 113.

Tethering

Use Tethering to share your phone's internet connection with a computer connected to your device using the USB data/charging cable, or using Bluetooth.

For more information, refer to “*Tethering*” on page 130.

1. From the Home screen, touch  **Menu → Settings → More settings → Tethering**.
2. On the **Tethering** screen, choose a tethering method:
 - **Mobile Hotspot:** For more information, refer to “*Configuring Mobile Hotspot*” on page 131.
 - **USB tethering:** Connect the computer to the phone via USB cable, and then touch **USB tethering** to turn tethering on or off. When tethering is on, a check appears in the check box.
 - **Bluetooth tethering:** Connect your phone with the computer using Bluetooth. Consult the computer's documentation for more information about using your computer to make a Bluetooth connect. Touch **Bluetooth tethering** to turn tethering on or off.
 - **Help:** Find information about Portable Wi-Fi hotspot, USB tethering, and Bluetooth tethering.

Note: Using Tethering requires a subscription to your Wireless Provider's mobile data service.

Mobile Hotspot

Use Mobile Hotspot to share your phone's internet connection with a PC or other device through Wi-Fi.

Note: Mobile Hotspot requires a subscription to the applicable service to use the application.

Mobile Hotspot consumes battery power and uses data service. While the Mobile Hotspot is active, your phone's applications use the Mobile Hotspot data feature allowance.

Configuring Mobile Hotspot Settings



Configure your phone's Mobile Hotspot settings, including your phone's name and password, and set the visibility of your phone's Wi-Fi hotspot.

Tip: By default, your device's Mobile Hotspot has no security applied, and any device can connect.

For more information about configuring your Mobile Hotspot, see “*Configuring Mobile Hotspot*” on page 131.

Activating Mobile Hotspot

Activate your phone's Mobile Hotspot application to allow other devices to use your phone's internet connection.

1. From the Home screen, touch  **Menu** → **Settings**. The **Settings** screen appears.
2. Under **Wireless and network**, touch **More settings** → **Tethering**.
3. Touch **Mobile Hotspot** . Follow the prompts to turn on Mobile Hotspot.

Connecting a Device via Mobile Hotspot



Use the other device's Wi-Fi control to connect to your phone's Mobile Hotspot.

1. Activate Mobile Hotspot on your phone.
For more information, see *"Activating Mobile Hotspot"*.
2. Activate Wi-Fi on the other device, using that device's Wi-Fi control.
3. Scan for Wi-Fi hotspots, and select your phone from the list.
To find your phone's name, see *"Configuring Mobile Hotspot"* on page 131.
4. At the prompt, enter your phone's Portable Wi-Fi Hotspot password.
For information on viewing and/or changing your phone's Portable Wi-Fi Hotspot password, see *"Configuring Mobile Hotspot"* on page 131.

Beaming

NFC

NFC (Near Field Communication) allows data exchange when you touch your device with another compatible device. This is used for applications such as Android Beam and S Beam.




1. From the Home screen, touch  **Menu**; then touch **Settings**.
2. Under **Wireless and networks**, touch **More settings**.
3. Under **File/data transfer**, touch **NFC**  to enable or disable NFC.

Note: NFC must be turned on to use **Android Beam** or **S Beam**.

Android Beam

When Android Beam is activated, you can beam application content to another NFC-capable device by holding the devices close together. You can beam browser pages, YouTube videos, contacts, and more.

Turning Android Beam On or Off

1. From the Home screen, touch  **Menu**; then touch **Settings**.
2. Under **Wireless and network**, touch **More settings**.
3. Under **File/data transfer**, turn **NFC** ON.
For more information, refer to “*NFC*” on page 119.
4. Touch **NFC**.
 - Touch the **Android Beam** slider  to turn Android Beam on.
 - Touch the **Android Beam** slider  to turn Android Beam off.





Using Android Beam

1. Turn **Android Beam** ON.
For more information, refer to “*Turning Android Beam On or Off*” on page 120.
2. Launch the desired feature or application or browse to the desired web page.
For more information, refer to “*Applications and Widgets*” on page 78.
3. Place your phone back to back with the device to receive your “beamed” content, and then touch the screen on your phone. The receiving device prompts the user to accept your “beamed” content.
4. Once the user of the receiving device accepts your “beamed” content, it appears on the screen of that device.




S Beam

When S Beam is activated, you can beam files to another NFC-capable device by holding the devices close together. You can beam images and videos from your gallery, music files from your music player, and more.

Turning S Beam On or Off

1. From the Home screen, touch  **Menu**; then touch **Settings** → **More settings**.
2. Under **File data/transfer**, touch **NFC**  to enable NFC. NFC must be enabled to use S Beam. When NFC is enabled, a check mark appears in the check box.
3. Touch **S Beam**  to turn on S Beam, or touch **S Beam**  to turn off S Beam.



Using S Beam

1. Turn on **S Beam**.
For more information, refer to “Turning S Beam On or Off” on page 121.
2. Launch  **Camera**,  **Music**, or  **Gallery**. When using Gallery, you can select multiple files to S Beam. For more information, refer to “Applications and Widgets” on page 78.
3. Place your phone back to back with the device to receive your “beamed” content, and then touch the screen on your phone. The receiving device prompts the user to accept your “beamed” content.
4. Once the user of the receiving device accepts your “beamed” content, it appears on the screen of that device.

Nearby devices

Share files with nearby DLNA certified devices over Wi-Fi. For more information, refer to “*Nearby devices*” on page 133.

Note: To use Nearby devices for sharing, you must have set up a connection with another Wi-Fi device that supports DLNA.

1. Connect your phone and another DLNA certified device to the same Wi-Fi network.
For more information, refer to “*Wi-Fi*” on page 112.
2. On your phone press  **Home**; then touch  **Menu** → **Settings**.
3. Under **Wireless and network**, touch **More settings**. The **Wireless and networks** screen appears.
4. Under **Media share**, touch **Nearby devices**. The **Nearby devices** screen appears.
5. Touch **File sharing** to turn file sharing via DLNA on or off. When File sharing is on, a check mark appears in the check box.

Memory Card

Your phone supports removable microSD™ or microSDHC™ memory cards of up to 64GB capacity, for storage of music, pictures, videos, and other files.


Installing and Removing a Memory Card

For more information about installing and removing a memory card, see “*Installing a Memory Card*” on page 11.

Important! To prevent damage to information stored on the memory card, unmount the card before removing it from the phone.

Formatting a Memory Card



Use the Erase SD card setting to remove all content from an installed memory card.

1. From the Home screen, touch  **Menu** → **Settings**.
2. Under **Device**, touch **Storage**.
3. Under **SD card**, touch **Format SD card**. Follow the prompts to confirm the deletion of information from the card.

Section 8: Settings

Accessing Settings

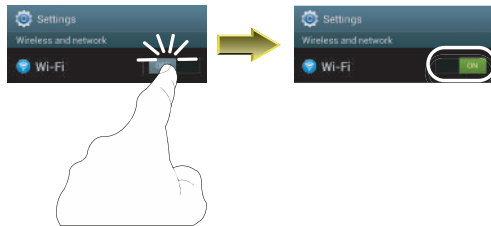
- From the Home screen, touch  **Menu** → **Settings**.
— or —

From the Home screen, touch  **Apps** →  **Settings**.

The **Settings** menu appears.

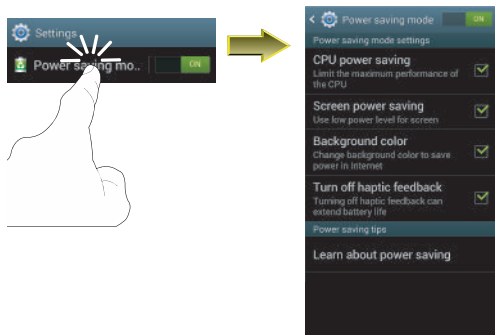
Using Setting Sliders

- To enable or disable a setting, touch the setting slider as shown.



Accessing Additional Options

- To access additional setting options, touch the setting label.



Note: This section does not include information about Call settings. For more information, refer to “*Call Settings*” on page 64.

Wireless and network

Wi-Fi



Set up and manage the phone's connections to Wi-Fi networks. This phone supports Wi-Fi a/b/g/n.

For more information about using Wi-Fi, see “*Wi-Fi*” on page 112.



Turning Wi-Fi On or Off

When you turn on Wi-Fi service, the phone automatically searches for nearby available Wi-Fi networks.

Turn Wi-Fi On:


- From the **Settings** screen, touch **Wi-Fi**  .
 - or –
- From the Home screen and others, touch and swipe the Status bar downward, and then touch  **Wi-Fi**.

Turn Wi-Fi Off:


- From the **Settings** screen, touch **Wi-Fi**  .
 - or –
- From the Home screen and others, touch and swipe the Status bar downward, and then touch  **Wi-Fi**.

Wi-Fi Settings

Configure and manage connections to Wi-Fi access points.

1. From the **Settings** screen, touch **Wi-Fi**. The **Wi-Fi** options screen appears.
2. Touch options to configure:
 - **Add Wi-Fi network:** Connect to a new Wi-Fi network, see “*Adding a Wi-Fi Network Manually*” on page 113.
 - **Scan:** Search for available Wi-Fi networks.
 - **Wi-Fi Direct:** Access Wi-Fi Direct settings, see “*Wi-Fi Direct*” on page 125.
3. Touch  **Menu** to access the following additional options:
 - **Advanced:** View and configure the phone's Advanced Wi-Fi settings.
 - **WPS push button:** Record/send the signal from the Wi-Fi Protected Setup push button on your Wi-Fi router.
 - **WPS PIN entry:** Record/send the Wi-Fi Protected Setup personal identification number for your Wi-Fi router.

Advanced Wi-Fi settings

1. From the **Settings** screen, touch **Wi-Fi** →  **Menu** → **Advanced**.
2. Configure settings:
 - **Network notification:** See a notification of nearby Wi-Fi networks when you launch a high data-usage application.
 - **Keep Wi-Fi on during sleep:** Specify when to switch from Wi-Fi to mobile data for data communications, when the phone goes to sleep (when the backlight goes out). This setting can affect your data usage, and the behavior of devices you connect to the phone, such as when tethering or using Mobile Hotspot.
 - **Check for Internet service:** Check whether Wi-Fi Internet service is available when connected to a Wi-Fi hotspot.
 - **MAC address:** (Not configurable.) View the phone's MAC address, needed for connecting to some secured networks (only shows when Wi-Fi is active).
 - **IP address:** (Not configurable.) View the phone's IP address (only shows when connected to a Wi-Fi network).

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly through Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, some printers support Wi-Fi Direct, and you could print from the phone using Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

1. From the Home screen, touch  **Menu** → **Settings** → **Wi-Fi**. The **Wi-Fi** options screen appears.
2. Touch **Wi-Fi Direct**. The **Wi-Fi Direct** screen appears, and the phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.
3. To end **Wi-Fi Direct**, touch .

For information on connecting the phone to other Wi-Fi Direct devices, see “*Establishing Wi-Fi Direct Connections*” on page 113.

Bluetooth

This phone supports Bluetooth® 4.0.

Bluetooth profiles

Bluetooth profiles are specifications for services supported by individual devices. Profiles improve the ability of different devices to work together. This phone supports these Bluetooth profiles:

- **Headset:** HSP v1.2 profile supports use of compatible Bluetooth headsets for mono voice.
- **Handsfree:** HFP v1.5 profile supports Bluetooth headsets, and may also support other compatible Bluetooth devices with speakerphone capabilities.
- **Stereo:** A2DP v1.2, AVRCP v1.0, GAVDP 1.2, AVCTP 1.3 and AVDTP 1.2 profiles support delivery of stereo audio to compatible Bluetooth devices.
- **Object Exchange:** OPP v1.0 profile allows sending and receiving of contact name cards (vCard 2.1) and calendar events (vCalendar) between devices. PBAP v1.2 supports exchange of Phone Book Objects.
- **Human Interface Devices:** HID v1.0 profile supports certain interface devices.

- **Personal Area Networking:** PAN 1.0 supports exchange of data with other devices.
- **Message Access Profile:** MAP 1.0 allows exchange of messages between devices, such as with an automotive hands-free device.

Turning Bluetooth On or Off

Turn Bluetooth On:

- From the **Settings** screen, touch **Bluetooth** .

Turn Bluetooth Off:




- From the **Settings** screen, touch **Bluetooth** .

Tip: You can also turn Bluetooth on or off using the Quick Settings bar on the Notifications panel. For more information, refer to “*Quick Setting Bar*” on page 26.

Bluetooth settings

Pair and connect with other Bluetooth devices, manage your Bluetooth connections, and control your device's visibility to other devices.

Note: Bluetooth must be turned on to access Bluetooth settings.

1. From the **Settings** screen, touch **Bluetooth**.
2. Touch a setting to configure Bluetooth:
 - Touch **Bluetooth**  to turn on Bluetooth, or touch **Bluetooth**  to turn off Bluetooth.
 - Touch the phone's name to enable/disable its visibility to other devices' Bluetooth searches. Available when Bluetooth is on.
 - Touch **Scan** to search for visible Bluetooth devices. Touch a detected device to pair with it. For more information, refer to "Pairing with a Bluetooth Device" on page 114.
 - Touch  **Menu** to access the following options:
 - **Rename device:** Change the phone's Bluetooth device name.
 - **Visible time-out:** Select how long the phone remains visible to other devices.
 - **Received files:** Lists files received from other devices over Bluetooth connections.

Data usage

Control your device's connection to your Wireless Provider's data service, and monitor your data usage.

Turning Mobile data On or Off

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Touch **Mobile data** to turn Mobile data on or off. When Mobile data is on, check mark appears in the check box.

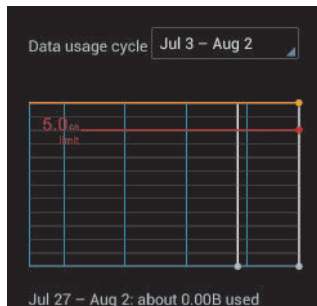
Tip: You can also turn Mobile data on or off using the Quick Settings bar on the Notifications panel. For more information, refer to "Quick Setting Bar" on page 26.

Setting a mobile data limit

Setting a mobile data limit causes the phone to automatically disable the Mobile data connection when the limit is reached. You can set a warning threshold, to have your device alert you when data usage nears your set limit.

Data usage is measure by your device, and your service provider may account for usage differently, so you may want to consider using a conservative limit. Contact your service provider for more information on actual data usage.

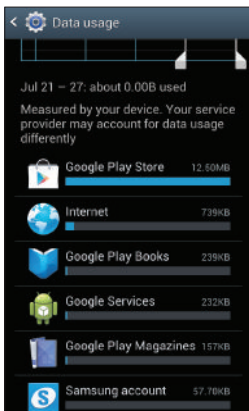
1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.



2. To enable mobile data, touch **Mobile data**.
3. To enable the limit, touch **Set mobile data limit**. A red limit line appears in the **Data usage** screen.
4. To adjust the mobile **Data usage cycle**, touch and drag the vertical usage cycle lines left or right on the graph.
5. To adjust the mobile data usage warning level, touch and drag the horizontal **warning** line up or down on the graph.
6. To adjust the mobile data usage limit level, touch and drag the horizontal **limit** line up or down on the graph.

Viewing data usage by app or process

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Scroll down the page to see the top three processes or apps using mobile data service. Touch a process or app to see data usage for the process or app, and to configure specific settings.



More Wireless and Network Settings

Airplane mode

When airplane mode is enabled, all the phone's wireless connections are disabled, and you cannot make or receive calls [except for Emergency (E911) calls] or messages. You can, however, make Wi-Fi and Bluetooth connections.

While in airplane mode, you can use other features of the phone, such as playing music, watching videos, or using other applications.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings**. The **Wireless and networks** menu appears.
2. Touch **Airplane mode** to enable or disable airplane mode. When Airplane mode is enabled, a check appears in the check box.

Mobile networks

Set options for network selection, data service, and roaming behavior.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **Mobile networks**. The **Mobile networks** screen appears.

2. Set these options:

- **Mobile data:** Enable or disable the phone's connection to the mobile data network. You can also control this setting at Notifications with the Mobile data toggle.
- **Data roaming:** Enable or disable connection to data services when your device is roaming on another network. For more information about roaming, see *"Roaming"* on page 14.
- **System select:** Configure CDMA roaming mode.
 - **Home only:** Restrict the phone to your Wireless Provider's network.
 - **Automatic:** Permit the phone to automatically roam to networks other than that provided by your Wireless Provider.

Tethering

Share the phone's internet connection with a computer that connects to your device using a USB cable or by Bluetooth.

For information about connecting computers to the phone using Tethering, see *"Tethering"* on page 117.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **Tethering**.

2. On the **Tethering** screen, choose a tethering method:

- **Mobile Hotspot:** For more information, refer to *"Configuring Mobile Hotspot"* on page 131.
- **USB tethering:** Connect the computer to the phone with a USB cable. Then touch **USB tethering** to turn tethering on or off. When USB Tethering is on, a check mark appears in the check box.
- **Bluetooth tethering:** Pair the phone with the computer using a Bluetooth connection. Consult the computer's documentation for more information about configuring your computer to pair using Bluetooth. Touch **Bluetooth tethering** to turn tethering on or off. When Bluetooth tethering is on, a check mark appears in the check box.
- **Help:** Find information about Portable Wi-Fi hotspot, USB tethering, and Bluetooth tethering.

Note: Using Tethering requires a subscription to your Wireless Provider's mobile data service.

Configuring Mobile Hotspot

1. From the Home screen touch  **Menu** → **Settings**; then touch **More settings** → **Tethering** → **Mobile Hotspot**. The **Mobile Hotspot** screen appears.
2. Touch **Configure** to access the following options:
 - **Network SSID**: View and change the name of your Mobile Hotspot.
 - **Hide my device**: Make your Mobile Hotspot invisible to other Wi-Fi devices during a scan. Other devices can still connect to your Mobile Hotspot but will have to set up the connection manually with your Network SSID and Password.
 - **Security**: Choose the security level for your Mobile Hotspot.
 - **Password**: If you choose a security level that uses a password, enter the password. By default, the password is your mobile telephone number.
 - **Show password**: Make the Password field visible.
 - **Show advanced options**: Access advanced options, including the Broadcast channel to specify the channel your device uses for Mobile Hotspot.

VPN

Set up and manage Virtual Private Networks (VPNs). For more information about using VPNs, see “VPN” on page 115

Adding a VPN

1. From the **Settings** screen, touch **Wireless and network** → **More settings** → **VPN**.



Note: You must enable at least Pattern security before setting up a VPN. If you have not yet enabled security, you are prompted to do so the first time you launch VPN settings.

2. Touch **Add VPN network** to set up a connection to a VPN, using the following settings:
 - **Name**: Enter a name for the VPN connection.
 - **Type**: Choose the type of VPN.
 - **Server address**: Enter the IP address of the VPN server.
 - **PPP encryption (MPPE)**: Touch to enable or disable encryption.
 - **Show advanced options**: Touch to show more options. Available options depend on the type of VPN you are adding.

NFC

Use NFC (Near Field Communication) to share information between the phone and another NFC device by touching the devices together, typically back to back.

For more information about sharing information with NFC, see “*S Beam*” on page 133.



1. From the **Settings** screen, under **Wireless and network**, touch **More settings**.
2. Touch **NFC**  to turn on NFC, or touch **NFC**  to turn off NFC.

Note: NFC must be turned on to use Android Beam or S Beam.

Android Beam

Android Beam uses your phone's NFC (Near Field Communication) feature to send, or “beam”, application content to another NFC device, by holding the devices close together.

Android Beam works in the background. Use the sharing options from your favorite apps to select content to share via Android Beam. You can beam browser pages, YouTube videos, contacts, and more.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **NFC** tab.
2. Touch the **NFC**  to turn NFC ON.
3. Touch the **Android Beam**  to turn Android Beam ON.

– or –




Touch the **Android Beam**  to turn Android Beam OFF.

S Beam

S Beam uses the phone's NFC (Near Field Communication) to send, or “beam”, content to other NFC and Wi-Fi Direct devices, by holding the devices close together.

S Beam works in the background. To share pictures or videos from Gallery, videos from Video player, or songs from Music player. Just bring the devices together (typically back to back), and then tap the screen.

Turning S Beam On or Off

1. From the **Settings** screen, under **Wireless and network**, touch **More settings**.
2. Touch **NFC**  to turn on NFC. NFC must be turned on to use S Beam.
3. Touch **S Beam**  to turn on S Beam, or touch **S Beam**  to turn off S Beam.

Nearby devices

Share files with nearby devices using DLNA (Digital Living Network Alliance) over Wi-Fi.

Note: To use Nearby devices for sharing, you must have set up a connection with another Wi-Fi device that supports DLNA.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **Nearby devices**. The **Nearby devices** screen appears.
2. Touch **File sharing** to turn file sharing using DLNA on or off. When File sharing is on, a check mark appears in the check box.

The **Nearby devices** pop-up appears. Read the cautionary statement, and then touch **OK**.



3. Under **Advanced**, touch options to control how content is shared from your device:

- **Shared contents:** Choose the type of content to share, from **Videos**, **Photos**, or **Music**.
- **Device name:** View or modify your device's name.
- **Allowed devices list:** Lists Wi-Fi devices allowed to access the phone.
- **Not-allowed devices list:** Lists Wi-Fi devices blocked from accessing the phone.
- **Download to:** Choose a location to save downloaded content, from USB storage or SD card.
- **Upload from other devices:** Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

AllShare Cast

AllShare Cast lets your phone share the contents of its display with other Digital Living Network Alliance (DLNA) certified devices, such as Smart televisions.

Note: To view more information about DLNA certified products visit <http://www.dlna.org/home>.

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to “Wi-Fi” on page 112.)
2. On your phone press  **Home**; then touch  **Menu** → **Settings**. The **Settings** screen appears.
3. Under **Wireless and network**, touch **More settings**. The **Wireless and networks** screen appears.
4. Touch **AllShare Cast**. The **AllShare Cast** screen appears, with **AllShare Cast** already active, and begins scanning for available devices. All detected DLNA certified devices are listed under **Available devices**.
5. Touch the desired device to establish a connection. You can now view the contents of your phone's display on the connected device.

Kies via Wi-Fi

Kies via Wi-Fi lets you synchronize your PC wirelessly with your device, provided they are both on the same Wi-Fi network. You can view and share videos, photos, music, ringtones, and more.

1. From your PC, download and install the Samsung Kies application if you don't already have it.

Tip: You can find it at samsung.com.

2. From your PC, launch the Samsung Kies application.
3. From your PC, connect to a Wi-Fi network.
4. From the **Settings** screen, touch **More settings** → **Kies via Wi-Fi**.
5. From your device, connect to the same Wi-Fi network that your PC is connected to if you have not already done so.

For more information, refer to “*Scanning and Connecting to a Wi-Fi Network*” on page 113.

Device

Home screen mode

Select the Home screen layout that best suits your needs.


1. From the **Settings** screen, under **Device**, touch **Home screen mode**.

The **Home screen mode** screen appears.

2. Select the desired Home screen mode:
 - **Standard mode:** A conventional layout for apps and widgets on the Home screen panels.
 - **Starter mode:** A simplified apps and widgets layout for first-time smartphone users.
3. Touch **Apply** to save your selection.

Blocking mode

Blocking mode lets you select which notifications you receive.

1. From the **Settings** screen, under **Device**, touch **Blocking mode**  to enable this feature.
2. Touch the **Blocking mode** tab to access the following options:

- **Features:**

- **Disable incoming calls:** Blocks incoming calls from everyone except **Allowed contacts**.
- **Disable notifications:** Blocks notifications from playing an alert tone.
- **Disable alarm and timer:** Blocks notifications from Clock and Calendar alarms, and from timers.
- **Disable LED indicator:** Stops LED indicator from lighting.

- **Set time:**

- **Always:** Keep Blocking mode active until you turn it off.
- **From:** With **Always** disabled, select the time when Blocking mode turns on.
- **To:** With **Always** disabled, select the time when Blocking mode turns off.

- **Allowed contacts:**

- **Allowed contacts:** Select contacts from whom the phone is to accept incoming calls. [Options are: None, All contacts, Favorites, Custom (selecting this option enables **Allowed contact list**).]
- **Allowed contact list:** Add and remove contacts from whom the phone accepts calls when Blocking mode is on.

3. Select the desired option to enable/disable it.

Sound

- From the **Settings** screen, under **Device**, touch **Sound**. The **Sound** menu appears.

Volume

Set the system volume level, and set default volume for call ringtones, notifications, and media playback.

Note: You can also set System volume from the Home screen by pressing the **Volume** key Up or Down.

1. From the **Sound** menu, touch **Volume**. The **Volume** menu appears.
2. Touch and drag the sliders for:
 - **Music, video, games, and other media:** Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
 - **Ringtone:** Set the volume for incoming call ringtones.
 - **Notifications:** Set the volume for notifications, such as new messages and event reminders.
 - **System:** Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.

3. Touch **OK** to save your settings.

Vibration intensity

Set the level for vibration to accompany ringtones and notifications.

1. From the **Sound** menu, touch **Vibration intensity**. The **Vibration intensity** menu appears.
2. Touch and drag the sliders for:
 - **Incoming call:** Set the vibration level for incoming call ringtones.
 - **Notification:** Set the vibration level for notifications, such as new messages and event reminders.
 - **Haptic feedback:** Set the vibration level vibrations to accompany screen touches.
3. Touch **OK** to save your settings.

Device ringtone

Choose a ringtone for incoming calls.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Device ringtone**. The **Device ringtone** menu appears.

2. Touch a ringtone to select it.

When you touch a ringtone, a sample plays, unless you have a Silent mode enabled.

3. To add a downloaded music or other sound file to the list and select it as the Device ringtone, touch **Add**.

The **Complete action using** pop-up appears.

- Select **Choose music track** or **Music Player**.
- Touch **Always** or **Just once** and select a song to add to the list.

Note: For information on using Music Player or Play Music, see “*Music Player*” on page 95 or “*Play Music*” on page 102.

4. Touch **OK** to save your selection.

Device vibration

Choose a vibration pattern to use when vibration is enabled.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Device vibration**. The **Device vibration** menu appears.
2. Touch a vibration pattern to select it. When you touch a pattern, a sample plays.
3. To create your own pattern, touch **Create**. Touch **Tap to create** in the pattern; then touch **Stop**. Touch **Save** to save your pattern.
4. Touch **OK** to save your selection.

Default notifications

Choose a default sound to play for notifications, such as for new messages and event reminders.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Default notifications**. The **Default notifications** menu appears.
2. Touch a sound to select it. When you touch a sound, a sample plays.
3. Touch **OK** to save your selection.

Tip: You can also set songs as ringtones.

For more information, refer to “*Music Player*” on page 95.

Vibrate when ringing

When this option is enabled, vibration is played at the same time as sounds for calls and alerts.

- From the **Sound** menu, under **Ringtone and notifications**, touch **Vibrate when ringing** to enable or disable the feature.

When **Vibrate when ringing** is enabled, a check mark appears in the check box.

Keytones

Keytones are sounds that play when you touch keys on the Phone keypad.

- From the **Sound** menu, under **System**, touch **Keytones** to enable or disable key sounds.

When **Keytones** is enabled, a check mark appears in the check box.

Touch sounds

Touch sounds play when you touch items on the screen, such as when making a selection.

- From the **Sound** menu, under **System**, touch **Touch sounds** to enable or disable touch sounds.

When **Touch sounds** is enabled, a check mark appears in the check box.

Screen lock sound

Screen lock sound plays when you lock or unlock the screen.

- From the **Sound** menu, under **System**, touch **Screen lock sound** to enable or disable the Screen lock sound.

When **Screen lock sound** is enabled, a check mark appears in the check box.

Haptic feedback



When Haptic feedback is turned on, the phone vibrates to indicate screen touches and other interactions.

- From the **Sound** menu, under **System**, touch **Haptic feedback** to turn touch vibrations on or off.

Auto haptic

Auto haptic causes haptic vibrations to occur in response to sounds from downloaded apps, such as games.

Note: Some downloaded apps do not support this feature.

1. From the **Sound** menu, under **System**, touch **Auto haptic**  to enable haptic vibrations for downloaded apps, or touch **Auto haptic**  to disable haptic vibrations for downloaded apps.
2. Touch **Auto haptic** to turn enable or disable the setting.

Emergency tone

You can set the phone to play an alert tone or vibrate during an emergency call (for example, calls to 911).

1. From the **Sound** menu, under **System**, touch **Emergency tone**.
2. Touch **Alert** or **Vibrate**, or touch **Off** for no emergency tone.

Display

- From the **Settings** screen, under **Device**, touch **Display**. The **Display** menu appears.

General

Wallpaper

Select wallpaper(s) for the Home and Lock screens.

1. From the **Display** menu, under **General**, touch **Wallpaper**.
2. Touch the screen for which you want to select wallpaper. (Options are: **Home screen**, **Lock screen**, and **Home and lock screens**.)
3. Touch the source of the wallpaper(s) you want to use. [Options are: **Gallery**, **Live wallpapers** (not for the Lock screen), and **Wallpapers**.]
4. Touch the desired image or wallpaper.

LED indicator

Select which alerts cause the LED indicator (upper left corner of the phone) to come on while the phone's screen is off.



- From the **Display** menu, under **General**, touch **LED indicator**. The following options are available:
 - **Charging**: LED indicator lights red while the phone's battery is charging.
 - **Low battery**: LED indicator lights red when the phone's battery charge level becomes low.
 - **Notifications**: LED indicator flashes blue when you have missed calls, new messages, or application events.
 - **Voice recording**: LED indicator lights blue when you are recording a voice note.

Multi window

- From the **Display** menu, under **General**, touch **Multi window** to enable or disable the Multi window tray. For more information, refer to *"Using Multi window"* on page 27.

Page buddy

Turn Page buddy on to have selected Page buddy panels automatically appear on the Home screen when you use optional accessories such as earphones or a dock, or while you are roaming.

1. From the **Display** menu, under **General**, touch **Page buddy**  to activate the Page buddy options, or touch **Page buddy**  to deactivate the Page buddy options.
2. Touch the **Page buddy** tab. The following options are available:
 - **Earphones page:** When enabled, causes the Earphones Page buddy panel to appear when you connect earphones or a headset to your phone.
 - **Docking page:** When enabled, causes the Dock Page buddy panel to appear when you place your phone in an optional docking station.
 - **Roaming page:** When enabled, adds the Roaming panel to the Home screen.
 - **Page buddy help:** Explains contents of Page buddy panels.

Screen

Brightness

Set the default screen brightness.

1. From the **Display** menu, under **Screen**, touch **Brightness**.
2. Touch and drag the slider to set the brightness, or touch **Automatic brightness** to allow the phone to adjust brightness in response to light conditions.
3. Touch **OK** to save the setting.

Auto-rotate screen

When this option is enabled, the screen's orientation automatically changes when you rotate the phone.

- From the **Display** menu, under **Screen**, touch **Auto-rotate screen** to turn the feature on or off.

Tip: You can also set Auto rotate on the Notifications panel with the Screen rotation setting.

Screen timeout

Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

1. From the **Display** menu, under **Screen**, touch **Screen timeout**.
2. Touch a setting to select it.

Features

- From the **Display** menu, under **Features**, the following options are available:
 - **Smart rotation**: Screen images are adjusted to match your angle of sight.
 - **Smart stay**: Prevent screen time-out as long as you are looking at it.

Note: The phone uses the front camera to identify your eyes and keeps the screen bright for continued viewing.

Font

Font style

Set the font for screen displays.

1. From the **Display** menu, under **Font**, touch **Font style**.
2. Select a font, or touch **Get fonts online** to browse and download a new font.

Font size

Set the font size for screen displays.

1. From the **Display** menu, under **Font**, touch **Font size**.
2. Select a font size (**Tiny**, **Small**, **Normal**, **Large**, or **Huge**).

More settings

Touch key light duration

Set the length of time keys light when you touch them.

1. From the **Display** menu, under **More settings**, touch **Touch key light duration**.
2. Select **1.5 seconds**, **6 seconds**, **Always off**, or **Always on**.

Display battery percentage

When **Display battery percentage** is on, the battery's charge level appears in the Status bar next to the Battery icon.

- From the **Display** menu, under **More settings**, touch **Display battery percentage** to turn the setting on or off.

Auto adjust screen tone

When this option is turned on, the phone automatically analyzes the screen and adjusts screen tone to save power.

- From the **Display** menu, under **More settings**, touch **Auto adjust screen tone** to turn the feature on or off.

Storage


Manage the use of memory resources in the phone's Device memory, and on an installed memory card.

1. From the **Settings** screen, under **Device**, touch **Storage**. The **Storage** screen appears. The following options are available:
 - **Device memory:** View usage for, and manage, the phone's internal memory. (For detailed information and to manage storage in use, touch any item except **Total space** or **Available space**.)
 - **Total space:** Shows the total installed device memory.
 - **Applications:** Shows the total device memory currently used to store applications.
 - **Pictures, videos:** Shows the total device memory currently used to store pictures and videos.
 - **Audio:** Shows the total device memory currently used to store music files, ringtones, and so on.)
 - **Miscellaneous files:** Shows the total device memory currently used to store various application data and system data files.
 - **Available space:** Shows the total device memory available for use.


- **SD card:** View usage for, and manage, storage space on an optional memory card.
 - **Total space:** Shows the total card memory.
 - **Available space:** Shows the total card memory available for use.
 - **Unmount SD card:** Deactivates the memory card so that you can safely remove it or format it.
For more information, refer to “*Removing a Memory Card*” on page 11.
 - **Format SD card:** Deletes all data from the memory card, including music, videos, and photos.

Power saving mode

Configure Power saving settings to conserve battery power.

1. From the **Settings** screen, under **Device**, touch **Power saving mode**. The **Power saving mode** screen appears.
2. Touch **Power saving mode** to enable or disable the option:
 - Touch **Power saving mode**  to enable Power saving.

- Touch **Power saving mode**  to disable Power saving.

Power saving mode must be enabled () to configure the **Power saving mode settings**.

3. Touch the following **Power saving mode settings** to enable or disable them. (When an option is enabled, a check mark appears in its check box.)
 - **CPU power saving:** The phone's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.
 - **Screen power saving:** The screen uses reduced frame refresh rate and lower brightness.
 - **Background color:** The background uses lower brightness in Email and Internet.
 - **Turn off haptic feedback:** No vibration plays when you touch the screen.
4. Touch **Learn about power saving** to read information about power-saving options.

Battery

See how much battery power is used by device activities.

1. From the **Settings** screen, under **Device**, touch **Battery**. The **Battery** screen appears.
2. View battery usage for applications and services currently running.
The battery level appears as a percentage. The amount of time the battery was used also appears. Battery usage appears in percentages per application.
3. Touch **Screen**, **Android OS**, **Android System**, **Media server**, **Cell standby**, or any other listed feature or application to view how it is affecting battery use.

Note: Other applications may be running that affect battery use.

Application manager

You can download and install applications from the Google Play™ Store, or create applications using the Android SDK and install them on the phone. Use Application manager to manage applications on the phone.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

1. From the **Settings** screen, under **Device**, touch **Application manager**. The **Application manager** screen appears.
2. Touch **DOWNLOADED**, **RUNNING**, or **ALL** to list the statuses of applications and services. The graph at the bottom of the **Downloaded** tab shows used and free device memory. The graph at the bottom of the **Running** tab shows used and free RAM.
3. Touch an app or service to display the **App info** or **Active app** screen which provides more detailed storage usage information, and lets you Stop/Force stop or Uninstall/Report and app or service. For Downloaded apps, you can also Clear data, Clear cache, and/or Clear defaults.

Personal

Location services

Location services control your device's use of GPS signals. Some apps may require one or more location services be turned on for full app functionality.

GPS signals may be affected by your surroundings, including:

- Buildings
- Tunnels or underground structures
- Weather conditions
- High-voltage or electromagnetic fields
- Tinted windows

1. From the **Settings** screen, under **Personal**, touch **Location services**. The **Location services** screen appears.
2. Touch the following options to enable/disable them. When an option is enabled, a check mark appears in its check box.
 - **Use wireless networks**: allows applications to use data from mobile networks and Wi-Fi to help determine your location.
 - **Use GPS satellites**: allows applications to use GPS to pinpoint your location.

Important! **Use GPS satellites** must be enabled to use some applications. You can also enable or disable **GPS** from the Notifications panel. For more information, refer to “*Notifications*” on page 26.

By selecting **Use GPS satellites**, you are allowing access to all location information by any third party through web access or any software or peripheral components you choose to install, download, add, or attach to the device or any other means

- **Location and Google search**: allows Google to use your location data for improved search results and other services.

Important! Google location services must be enabled to use some applications.

By selecting **Location and Google search**, you are allowing Google's location service to collect anonymous location data. Some data may be stored on your device. Collection may occur even when no apps are running.

Lock screen

Choose settings for locking and unlocking the phone.





For more information about using the lock and unlock features, see “*Locking the phone manually*” on page 15 and see “*Unlocking Your Phone*” on page 12.





1. From the **Settings** screen, under **Personal**, touch **Lock screen**, the following options are available:



- **Screen lock:** Touch one of the following options to select it as your custom screen lock/unlock method:
 - **Swipe:** Unlock the phone by swiping your finger across the screen. This is the default screen lock, and offers no security.
 - **Motion:** Unlock the phone by touching and holding on the screen and tilting the phone forward. Touch the option for more information and a demonstration of the motion. This screen lock offers no security.
 - **Face unlock:** Unlock the phone by looking at the screen. This option offers low security, because someone who looks similar to you could unlock the phone. Touch the option for more information, and to set up Face unlock.

- **Face and voice:** Unlock the phone by looking at the screen and speaking. This option offers low security, because someone who looks and/or sounds similar to you could unlock the phone. Touch the option for more information, and to set up Face unlock.
 - **Pattern:** Draw a pattern, which you create, on the screen to unlock the phone. Touch the option, and then follow the prompts to create or change your screen unlock pattern.
 - **PIN:** Enter a numeric PIN (personal identification number), which you create, to unlock the phone.
 - **Password:** Enter an alphanumeric password, which you create, to unlock the phone.
 - **None:** Disable all custom screen lock settings to use the default swipe unlock screen.
- **Lock screen options:** Touch this option and the **Lock screen options** screen appears, with the following additional options available:

Note: The Lock screen options are only available when the **Screen lock** option is set to **Swipe** or **Motion**.

- **Shortcuts:** Display application shortcuts on the lock screen.
Swipe an icon to launch the associated application.
Touch **Shortcuts**  to enable lock screen shortcuts.
Touch **Shortcuts**  to disable lock screen shortcuts.
Touch **Shortcuts** to add/remove lock screen shortcuts.
- **Information ticker:** Display a news or stock information ticker on the lock screen.
Touch **Information ticker**  to enable the lock screen information ticker.
Touch **Information ticker**  to disable the lock screen information ticker.
Touch **Information ticker** to configure the lock screen information ticker.
- **Clock:** Touch this option to enable/disable a clock display on the lock screen. When the option is enabled, a check mark appears in the check box.

- **Dual clock:** Display a clock that shows two time zones on the lock screen.
Touch **Dual clock**  to enable the lock screen dual clock.
Touch **Dual clock**  to disable the lock screen dual clock.
Touch **Dual clock** to configure the lock screen dual clock.
- **Weather:** Display your current location's weather information on the lock screen.
Touch **Weather**  to enable the lock screen weather display.
Touch **Weather**  to disable the lock screen weather display.
Touch **Weather** to configure the lock screen weather display.
- **Ripple effect:** Touch this option to enable/disable showing a ripple effect on the lock screen, provided the lock screen wallpaper is not "live." When the option is enabled, a check mark appears in the check box.
- **Help text:** Enable/disable showing text explanations of lock screen features. When the option is enabled, a check mark appears in the check box.

- **Camera quick access:** Launch the Camera application by touching and holding the lock screen and rotating the phone. Touch **Camera quick access**  to enable this option. Touch **Camera quick access**  to disable this option. Touch **Camera quick access** to view a tutorial about **Camera quick access**.
- **Wake up in lock screen:** Touch this option to enable/disable unlocking the phone by saying the S Voice wake-up command. When the option is enabled, a check mark appears in the check box.
For more information about S Voice, see “S Voice” on page 105.
- **Set wake-up command:** Touch this option and to change the S Voice wake-up command.
For more information about S Voice, see “S Voice” on page 105.

2. Touch **Owner information** and enter text you want displayed on the Lock screen, and then touch **OK**.
3. Touch the **Show owner info on lock screen:** check box to display text you enter in the text box on the Lock screen.

Security

- From the **Settings** screen, under **Personal**, touch **Security**. The **Security** screen appears.

Encryption

As a security measure, you can encrypt the contents of the phone or an installed memory card, and require a password each time you turn on the phone or access the memory card.

Encryption may take an hour or more to complete. Start with a charged battery, and attach the charger until encryption is complete. Loss of power or other interruption may cause the loss of some or all data.

Once your information is encrypted you are prompted to enter your decryption password each time you turn the phone on.

- From the **Security** screen, under **Encryption**, touch the following options to encrypt your information:
 - **Encrypt device:** Touch this option to encrypt accounts, settings, downloaded applications and data, media files, and more under a password you specify.

- **Encrypt external SD card:** Touch this option to encrypt selected information stored on a microSD memory card under a password you specify. The following additional **Encryption settings** are available:

- **Encrypt:** Encrypt new files on the memory card as they are added.
- **Full encryption:** Encrypt all files on the memory card.
- **Exclude multimedia files:** Encrypt multimedia files on the memory card.

Passwords

Display password characters briefly as you enter them.

- From the **Security** screen, under **Passwords**, touch the following option to enable/disable it. (When the option is enabled, a check mark appears in the check box.)
- **Make passwords visible:** Briefly display password characters as you enter them.

Device administration

View or disable device administrators. Some applications, such as corporate Email, may require you allow access to your device by device administrators in certain circumstances, such as if the phone is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the phone is restored to factory settings.
- Automatically locking the phone.
- Restoring factory settings on the phone.
 - From the **Security** screen, under **Device administration**, touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.)
- **Device administrators:** View, add, or remove device administrators.
- **Unknown sources:** When this option is enabled, you can install applications from sources other than Google Play® Store.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end users operate these devices at their own risk.

Credential storage

You can install credentials with an application, from device storage, or from an installed memory card, and use the **Credential storage** settings to allow applications to access the secure certificates and other credentials.

- From the **Security** screen, under **Credential storage**, touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.)
 - **Trusted credentials**: View, enable, or disable trusted CA certificates.
 - **Install from device storage**: Install encrypted certificates from an installed memory card.

Note: You must have installed a memory card containing encrypted certificates to use this feature.

- **Clear credentials**: Clear stored credentials and reset the password.

Note: This setting is only available if you have installed certificates.

Language and input

- From the **Settings** screen, under **Personal**, touch **Language and input**. The **Language and input** screen appears.

Language

Select the language used in the phone's screens.


- From the **Language and input** screen, touch **Language** to select the language used in the phone's screens.

Keyboards and input methods

Configure text entry options to your preferences.

- From the **Language and input** screen, under **Keyboards and input methods**, touch the check box next to each of the following options to enable it. (When an option is enabled, a check mark appears in the check box.)
 - **Default**: Review the default method for manually entering text.



Note: This option cannot be changed.

- **Google voice typing:** Lets you vocally dictate the text entered into a field. Touch  beside Google voice typing to configure the following options:
 - **Choose input languages:** Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
 - **Block offensive words:** When this option is enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (#####).
 - **Download offline speech recognition:** Enables voice input using Google voice typing while the phone is offline.
- **Samsung keyboard:** Touch  beside Samsung keypad to configure the following options.

Note: This option cannot be changed.

- **Portrait keyboard types:** Choose the default keypad when the screen is in portrait mode, from Qwerty or 3x4 keyboard (similar to a phone keypad).
- **Input languages:** Select languages for the Samsung keyboard.

Tip: When you have more than one language selected, you can slide your finger on the space bar while entering text to switch languages.

- **Predictive text:** When this option is enabled, T9 suggests words matching your text entries and optionally, complete common words automatically. Touch **Predictive text**  to enable T9 predictive text, touch **Predictive text**  to disable T9 predictive text. Touch **Predictive text** to configure the following options:

Personalized data: Predictive text uses personal language data that you have entered.

Learn from Gmail: Log in to let your device learn from your Gmail messages.

Learn from Facebook: Log in to let your device learn from your Facebook entries.

Learn from Twitter: Log in to let your device learn from your “tweets”.

Learn from Messaging: Update to let your device learn from your message text entries.

Learn from Contacts: Update to let your device learn from your Contacts style.

Clear personalized data: Remove all the personal language data you have entered.

- **T9 Trace:** When T9 Trace is enabled, you can sweep your finger over keypad letters to enter words. When you lift your finger, a word matching your sweep is entered automatically. Available when Predictive text is turned on.

- **Handwriting:** When in Handwriting mode, Samsung keyboard recognizes on-screen tracing of words. Touch **Handwriting** to configure the following options:

Recognition type: Select Stroke recognition or Complete recognition.

Recognition time: Select 100 ms, 300 ms, 500 ms, 1000 ms, or 2000 ms.

Pen thickness: Select 1 pixel, 3 pixels, 5 pixels, 7 pixels, or 9 pixels.

Pen color: Select Black, Red, Blue, Green, or Brown.

Gesture guide: Shows gestures for text editing functions.

Tutorial: Shows explanation of how to write by hand so that the phone accepts your input.

About: Lists the Build, DHWR, and DioWord+ release versions.

- **Advanced:**

Auto capitalization: T9 automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.

Auto-punctuate: Automatically enter a period and space to end a sentence when you tap the space bar twice.


Character preview: Briefly display characters available on the key you touch as you enter text.

Key-tap vibration: Play a vibration for your key touches.

Key-tap sound: Play a sound for your key touches.

- **Tutorial:** View help for using T9 predictive text.

- **Reset settings:** Touch to reset Samsung keyboard settings to the defaults, except for My word list and the Auto substitution list.

- **Swype:** Touch  beside Swype to configure the following options:
 - **Settings:**
 - Vibrate on keypress:** The phone vibrates on text entry.
 - Sound on keypress:** Play sounds as you enter text.
 - Pop-up on keypress:** Characters appear when you type them.
 - Show complete trace:** Choose whether to display the complete Swype path.
 - Auto-correction:** Automatically correct typing errors.
 - Auto-capitalization:** Automatically capitalize the first letter of the first word in a sentence.
 - Auto-spacing:** Insert spaces automatically when you pause entering text.
 - Next word prediction:** When this option is enabled, possible matching words are suggested as you enter text.
 - Show Voice key:** Display the Voice key on the Swype keyboard for quick access to speech-to-text entry.
 - **My Words:**
 - Dictionary Management:** Backup & Sync, Living Language, Social integration, Edit my dictionary.
 - Data Management:** Clear language data or enable/disable Contribute usage data and/or Cellular data to improve text predictions.

- **Languages:**
 - English:** Change current language.
 - Download languages:** Select and download languages besides US English.
 - Active:** Enable or disable installed languages.
- **Gestures:** Learn about the gestures you can use to simplify accessing Swype features.
- **Help:** Learn How to Swype and enable/disable Show helpful tips each time to launch Swype. Also shows current Swype version.
- **Updates:** Check for updates and download them to your device.

Speech

- From the **Language and input** screen, under **Speech**, the following options are available:
 - **Voice search:** Configure how **Voice search** reacts to your speech.
 - **Language:** Choose a language for voice searching.
 - **Speech output:** Choose whether Speech is Always available or available with Hands-free only.
 - **Block offensive words:** When this option is enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
 - **Hotword detection:** Say “Google” to launch voice search.
 - **Download offline speech recognition:** Enables voice input while off-line.
 - **Personalized recognition:** Train **Voice search** to more accurately recognize your voice.
 - **Google Account dashboard:** Manage data collected under your Google account.
 - **Bluetooth headset:** Records audio from a Bluetooth headset, if available.

- **Text-to-speech output:** Provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.

— **Preferred TTS engine:** Select **Google Text-to-speech Engine**, or **Samsung TTS**.

— **General:**

Speech rate: Choose a rate at which text readouts are spoken.

Listen to an example: Play a sample of speech synthesis.

Driving mode: Incoming calls and new notifications are read out automatically.

Touch **Driving mode**  to enable Driving mode.

Touch **Driving mode**  to disable Driving mode.

Touch **Driving mode** to choose items to read out when Driving mode is enabled (Incoming call, Message, New emails, New voicemail, Alarm, Schedule, and/or Unlock screen).

Mouse/trackpad

Customize the response of your screen swipes.

- From the **Language and input** screen, under **Mouse/trackpad**, touch **Pointer speed**; then touch and drag along the scale to set the pointer speed.

Back up and reset

Set options for backing up your information and resetting your device.

- From the **Settings** screen, under **Personal**, touch **Back up and reset**. The **Back up and reset** screen appears.

Backup and restore

- From the **Back up and reset** screen, under **Backup and restore**, touch the check box next to each of the following options to enable it. (When an option is enabled, a check mark appears in the check box.)
 - **Back up my data**: Backs up app data, Wi-Fi passwords, and other phone settings to Google servers.
 - **Backup account**: Select or set up a Google account the phone uses to back up your app data, Wi-Fi passwords, and other phone settings.
 - **Automatic restore**: Automatically restore app data, Wi-Fi passwords, and other phone settings from your automatic backup.

Personal data

Factory data reset

Use Factory data reset to return all settings to the defaults, and remove all data from the phone.

- From the **Back up and reset** screen, under **Personal data**, touch **Factory data reset** to return all settings to the defaults, and remove all data from the phone.



Important! Settings and data erased in a Factory data reset cannot be recovered. To save your settings, you can use Back up my data settings before a reset.

Accounts

Set up and manage accounts, including your Samsung, Email, Google, and social networking accounts.

- From the **Settings** screen, under **Accounts**, touch the desired account type. The related account type screen appears.

Samsung account

1. From the **Settings** screen, under **Accounts**, touch  **Add account** →  **Samsung account**. The **Samsung account** screen appears.
2. Under **General settings**, touch **Account settings**. The following options are available:
 - **Account information**:
 - **Profile** (password protected): View **Email** address, **Password** (Change password), **Date of birth**, **First name**, **Last name**, **Name prefix**, **Zip code**, **Nickname**, and **Receive news and offers**.
 - **Terms and conditions**: Review **Country** or **region**, **Terms** and **conditions**, and **Privacy policy** information.

- **Help**: Find your email address or password, Contact us with a text message, or review Customer support information [My questions, FAQ (Frequently Asked Questions), or Contact us].

• Device backup:

- **Auto backup**: When Auto backup is on for at least an hour and the phone is connected to a Wi-Fi network and with the screen off and the device charging, your data is backed up automatically.
- **Backup options**: Select the data to back up [Logs, Messages (SMS), Messages (MMS), and/or Wallpaper].
- **Back up now**: Immediately backup your data. Also shows when your data was Last backed up.
- **Restore**: Immediately restore your backed up data to your device.


Email

1. From the **Settings** screen, under **Accounts**, touch **Email**. The **Email** screen appears.
2. Under **Common settings**, touch **Settings**. The **Settings** screen appears.
3. Touch **General preferences**. The following options are available:
 - **General preferences:**
 - **Auto-advance:** Select which screen (Next message, Previous message, Message list) appears after you delete a message.
 - **Message preview line:** Number of message lines (None, 1 line, 2 lines, 3 lines) that appear in the folder message list.
 - **Email title:** Select which message header line (Subject, Sender) appears as the message title in the folder message list.
 - **Confirm deletions:** When this option is enabled, you are prompted to confirm message deletions.
 - **Quick responses:** Edit pre-composed text you frequently include in your messages.
 - **Priority sender inbox:**
 - **Priority senders:** List those senders whose messages receive priority in your message list.
4. Under **Added accounts**, touch the desired account. The following options are available:
 - **Common settings:**
 - **Account name:** Enter a name to identify the account.
 - **Your name:** Enter a name to identify you in the From field of your outgoing messages.
 - **Signature:** Add pre-composed signature text to send messages. Touch to edit the signature text that appears at the end of email messages you send.
 - **Default account:** Send email from this account by default.
 - **Always Cc/Bcc myself:** Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.
 - **Forward with attachment:** Enables including copies of any attached files when forwarding a copy of an email message.

- **Recent messages:** Select the number of messages (25, 50, 75, 100, 200, Total) that appear in your message list.
- **Show images:** Automatically download and display images included in incoming messages.
- **Data usage:**
 - **Sync Email:** Synchronize the contents of the phone's email folder with your account.
 - **Auto download attachments:** Automatically download items attached to incoming messages.
 - **Size to retrieve emails:** Select the amount of new incoming message contents to include in your message list.
 - **Auto resend times:** Select the number of times the phone is to attempt to send an outgoing message before marking it as unsent.
- **Sync settings:**
 - **Sync schedule:** Peak/Off-peak schedule control.
- **Notification settings**
 - **Email notifications:** Enable or disable display of a new email icon in the Annunciator line when new mail arrives.
 - **Select ringtone:** Assign a ringtone for new email notifications.
 - **Vibrate:** Enable or disable vibration with new email notifications.



- **Server settings**
 - **Incoming settings:** Modify settings for accessing the email server to view incoming email messages.
 - **Outgoing settings:** Modify settings for accessing the email server to send email messages.

Facebook

1. From the **Settings** screen, under **Accounts**, touch  **Add account** → **Facebook**. The **Play Store - Facebook INSTALL** screen appears.
2. Follow the prompts to install and launch the Facebook app and to set up a Facebook account or a link to an existing account.


Google

Adding Google account


1. From the **Settings** screen, under **Accounts**, touch  **Add account** →  **Google**. The **Add a Google Account** screen appears.
2. Touch **Existing** or **New**.
3. Follow the prompts to set up a Google account link.

LDAP

You can add an LDAP Internet directory service to find e-mail addresses that are not in your local Outlook contacts.

1. From the **Settings** screen, under **Accounts**, touch  **Add account** → **LDAP**.
2. Enter all the LDAP account information and touch **Verify**.

Microsoft Exchange ActiveSync

1. From the **Settings** screen, under **Accounts**, touch  **Add account** → **Microsoft Exchange ActiveSync**. The **Microsoft Exchange ActiveSync** screen appears.
2. Under **Common settings**, touch **Settings**. The **Settings** screen appears.
3. Touch **General preferences**. The General preferences options are the same as for Email accounts.
4. Under **Added accounts**, touch the desired account. The following options are available:
 - **Common settings:**
 - **Account name:** Enter a name to identify the account.
 - **Signature:** Enter or change signature text.

- **Default account:** Touch to assign or un-assign this account as the default account for sending email from the phone.
- **Always Cc/Bcc myself:** Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.
- **Forward with attachment:** Enables including copies of any attached files when forwarding a copy of an email message.
- **Show images:** Automatically display Images included in messages, without a confirmation pop-up.
- **Data usage:**
 - **Auto download attachments:** Automatically download attachments to recent messages, but only when your device is connected to a Wi-Fi network.
- **Exchange ActiveSync settings:**
 - **Period to sync Email:** Choose the number days worth of email messages the phone and server will synchronize. Choose from: **Automatic, All, 1 day, 3 days, 1 week, 2 weeks, or 1 month.**
 - **Empty server trash:** Delete your email account's trash bin remotely.



- **Sync schedule** Choose your email automatic synchronization schedule.
 - **Folder sync settings:** Choose email automatic synchronization schedules for individual folders.
 - **Out of office settings:** Enable/disable your account's out of office settings, choose the start/end dates, and enter/change your outgoing messages.
 - **Size to retrieve emails:** Choose how much of each message the phone retrieves before you view it.
 - **Period to sync Calendar:** Choose the period of time for the phone to synchronize calendar events (**2 weeks, 1 month, 3 months, 6 months, or All calendar**).
 - **Security options:** Set advanced email security options: **Encrypt, Encryption algorithm, Sign, Sign algorithm, Email certificate, Text preview size** and **Security policy list**.
 - **In case of sync conflict:** Choose whether your **Device has priority** or the **Server has priority** during automatic synchronization.
 - **Auto resend times:** Choose the number of times to automatically resend a message before marking it un-sent.
- **Notification settings**
 - **Email notifications:** Display a new email icon in the Annunciator line when new mail arrives.
 - **Select ringtone:** Assign a ringtone for new email notifications.
 - **Vibrate:** Enable or disable vibration with new email notifications.
 - **Server settings**
 - **Exchange server settings:** Change the server link settings on your device.
 - **Conversation view filter:** Filter the conversation view.
 - **Sync Email:** Sync your Inbox with the Exchange server.
 - **Sync Contacts:** Sync the phone's contacts list with the Exchange server's contacts list.
 - **Sync Calendar:** Sync the phone's calendar with the Exchange server's calendar.
 - **Sync Task:** Sync the phone's Task list with the Exchange server's Task list.
 - **Sync SMS:** Sync the phone's SMS messages with the Exchange server.

System

Motion

Motion lets you control a number of the phone's functions by moving your hand or finger across the screen in a particular pattern or by moving the phone itself in a particular way.

Note: For more information about using Motion, see *"Motions and gestures"* on page 24.

1. From the **Settings** screen, under **System**, touch **Motion**  to enable the phone's ability to recognize active gestures.
Touch **Motion**  to disable the phone's ability to recognize active gestures.
2. Touch the **Motion** option. The **Motion** screen appears. When an option is enabled, a check mark appears in the check box. The following options are available:

- **Motion:**

- **Direct call:** Lift the phone to your ear while viewing a contact to dial the contact's phone number.
- **Smart alert:** When this option is enabled, the phone automatically notifies you to missed calls and alerts that occurred while the phone was stationary.
- **Double tap to top:** A double tap on the top of the phone takes you to the top of the list.
- **Tilt to zoom:** Tilting the phone while in Gallery or Internet causes the screen to zoom in or out.
- **Pan to move icon:** Moving the phone in a panning motion (side to side) moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images:** Moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Shake to update:** Shaking the phone starts a new scan for nearby available devices.
- **Turn over to mute/pause:** Turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.

- **Sensitivity settings and tutorial:**

- **Sensitivity settings:** Change Gyroscope calibration, Tilt to zoom sensitivity, Pan to move icon sensitivity, and Pan to browse images sensitivity.
- **Learn about motions:** A list of tutorials about using motions to control the phone.

- **Hand motions:**

- **Palm swipe to capture:** Swiping your hand left or right across the display captures an image of the current screen.
- **Palm touch to mute/pause:** Covering the screen with your hand pauses media while playing or mutes sounds playing on the phone.

- **Learn about hand motions:** View tutorials about using Hand motions.

Accessory

Configure the phone's behavior when you connect it to optional accessories (not included).

- From the **Settings** screen, under **System**, touch **Accessory**. The **Accessory** screen appears.

Dock

Configure the phone's behavior when it is connected to an optional Dock (not included).

- From the **Accessory** screen, under **Dock**, touch the check box next to each of the following options to enable it. (When an option is enabled, a check mark appears in the check box.)
 - **Dock sound:** Play a sound when you insert and remove the phone from the Dock.
 - **Audio output mode:** Play audio through the Dock speakers when the phone is docked.
 - **Desk home screen display:** Display a special screen when the phone is docked.


HDMI

Configure the phone's behavior when you connect it to an HD television or an amplifier using an optional HDTV Adapter (not included).

- From the **Accessory** screen, under **HDMI**, the following option is available:
 - **Audio output:** Select the quality of sound to produce (Stereo or Surround).

Date and time

By default, the phone receives date and time information from the wireless network. When you are outside network coverage, you may want to set date and time information manually using the Date & time settings.

1. From the Home screen, touch  **Menu**; then select **Settings → Date and time**.
2. Touch a setting to configure:
 - **Automatic date and time:** The phone takes date and time updates from the wireless network (disables Set date, Set time, and Select time zone).
 - **Set date:** Enter the current date (only available when Automatic date and time is disabled).
 - **Set time:** Enter the current time (only available when Automatic date and time is disabled).
 - **Automatic time zone:** The phone uses the network-provided time zone.
 - **Select time zone:** Choose your local time zone (only available when Automatic date and time is disabled).
 - **Use 24-hour format:** Set the format for time displays.
 - **Select date format:** Set the format for date displays.



Accessibility

This phone offers features to make using the phone easier for those with certain physical disabilities. Use the Accessibility settings to activate these services.

- From the **Settings** screen, under **System**, touch **Accessibility**. The **Accessibility** screen appears.

System

- From the **Accessibility** screen, under **System**, touch the check box next to each of the following options to enable it. (When an option is enabled, a check mark appears in the check box.)
 - **Auto-rotate screen:** The screen's orientation automatically changes when you rotate the phone.
You can also set Auto rotate on the Notifications panel with the Screen rotation setting.
 - **Screen timeout:** Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

- **Speak passwords:** Lets you speak passwords for log-ins.
- **The power key ends calls:** Lets you can end voice calls by pressing the  **Power/Lock** key.
- **Accessibility shortcut:** Adds an **Accessibility settings** option to the **Device options** menu, which appears when you press and hold the  **Power/Lock** key. This option provides quick access to the **Accessibility** settings, to make changes as you use the phone.

Services

Enable or disable accessibility services.

TalkBack

- From the **Accessibility** screen, under **Services**, touch the following option:
 - **TalkBack:** When this option is enabled in the **TalkBack** screen, the phone recites menu options, application titles, contacts, and other items when scrolling and making selections, according to the **Settings** values you select.

Vision

- From the **Accessibility** screen, under **Vision**, touch the check box next to each of the following options to enable it. (When an option is enabled, a check mark appears in the check box.)
 - **Font size:** Set the font size for screen displays (Tiny, Small, Normal, Large, Huge).
 - **Negative colors:** Reverses the colors on the screen.
 - **Text-to-speech output:** Select Preferred TTS engine, Speech rate, Listen to an example, and Driving mode.
 - **Enhance web accessibility:** Does not allow / Allows apps to install scripts from Google that make their Web content more accessible.

Hearing


- From the **Accessibility** screen, under **Hearing**, touch the check box next to each of the following options to enable it. (When an option is enabled, a check mark appears in the check box.)
 - **Sound balance:** Adjust media player sound balance when you are using a stereo headset or stereo headphones.
 - **Mono audio:** Deliver monophonic sound to support listening with a wired or Bluetooth headset with one earphone.
 - **Turn off all sounds:** Disable all sounds, including the voice portion of calls.

Mobility

- From the **Accessibility** screen, under **Mobility**, touch the following option:
 - **Tap and hold delay:** Select the length of time the phone considers a screen touch before interpreting a touch as touch-and-hold (Short, Medium, Long).

Developer options

Use the Developer options to set options for Android application development and testing.

1. From the **Settings** screen, under **System**, touch **Developer options**. The **Developer options** screen appears.
2. Touch **Developer options**  to activate the Developer options.
3. Touch individual options to enable/disable them. When an option is enabled, a check mark appears in the related check box.

About device

View information about the phone, including status, legal information, hardware and software versions, and a tutorial.

System updates

Software update lets the phone connect to the network and download any new phone software directly to the phone. The phone automatically updates with the latest available software when you access this option.

1. From the **Settings** screen, under **System**, touch **About device** → **System updates**.

Your device registers itself with your Wireless Provider's Software Update service, connects with your Wireless Provider's server, and scans for software updates.

2. To manually scan for software updates, touch **Check now**.

Details

- Touch options to view details:
 - **Status:** View Battery status, Battery level, Network, Signal strength, Mobile network type, Service state, Roaming, User name, Mobile network state, My phone number, MIN, PRL version, MEID, IP address, Wi-Fi MAC address, Bluetooth address, Up time, and Device status.
 - **Legal information:** Display Open source licences, Google legal info, Privacy Alert, and configure License settings, including your DivX[®] VOD registration.
 - **Model number:** View the phone's model number.
 - **Android version:** View the firmware version for this phone.
 - **Baseband version:** View the baseband version for this phone.
 - **Kernel version:** View the kernel version for this phone.
 - **Build number:** View the build number for this phone.
 - **Hardware version:** View the hardware version for this phone.

Section 9: Health and Safety Information

This device is capable of operating in Wi-Fi™ mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with Mobile Satellite Services (MSS). Therefore, this device is restricted from being used outdoors when operating in frequencies between 5.15-5.25 GHz.

This section outlines the safety precautions associated with using your phone. The terms “mobile device” or “cell phone” are used in this section to refer to your phone. **Read this information before using your mobile device.**

Exposure to Radio Frequency (RF) Signals

The U.S. Food and Drug Administration (FDA) has published information for consumers relating to Radio Frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

Do cell phones pose a health hazard?

Many people are concerned that cell phone radiation will cause cancer or other serious health hazards. The weight of scientific evidence has not linked cell phones with any health problems.

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

The low levels of RF cell phones emit while in use are in the microwave frequency range. They also emit RF at substantially reduced time intervals when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects.

The biological effects of radio frequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays, can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues including DNA, the genetic material.

The energy levels associated with radio frequency energy, including both radio waves and microwaves, are not great enough to cause ionization of atoms and molecules. Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat), and other forms of electromagnetic radiation with relatively low frequencies.

While RF energy does not ionize particles, large amounts can increase body temperatures and cause tissue damage. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

Research Results to Date: Is there a connection between RF and certain health problems?

The results of most studies conducted to date say no. In addition, attempts to replicate and confirm the few studies that have shown a connection have failed.

The scientific community at large therefore believes that the weight of scientific evidence does not show an association between exposure to Radio Frequency (RF) from cell phones and adverse health outcomes. Still the scientific community has supported additional research to address gaps in knowledge. Some of these studies are described below.

Interphone Study

Interphone is a large international study designed to determine whether cell phones increase the risk of head and neck cancer. A report published in the International Journal of Epidemiology (June, 2010) compared cell phone usage for more than 5,000 people with brain tumors (glioma and meningioma) and a similar number of healthy controls.

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a

slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at

http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf.

Interphone is the largest cell phone study to date, but it did not answer all questions about cell phone safety. Additional research is being conducted around the world, and the FDA continues to monitor developments in this field.

International Cohort Study on Mobile Phone Users (COSMOS)

The COSMOS study aims to conduct long-term health monitoring of a large group of people to determine if there are any health issues linked to long-term exposure to radio frequency energy from cell phone use. The COSMOS study will follow approximately 300,000 adult cell phone users in Europe for 20 to 30 years. Additional information about the COSMOS study can be found at

<http://www.ukcosmos.org/index.html>.

Risk of Brain Cancer from Exposure to Radio Frequency Fields in Childhood and Adolescence (MOBI-KIDS)

MOBI-KIDS is an international study investigating the relationship between exposure to radio frequency energy from communication technologies including cell phones and brain cancer in young people. This is an international multi-center study involving 14 European and non-European countries. Additional information about MOBI-KIDS can be found at

http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39.

Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute

The National Cancer Institute (NCI) actively follows cancer statistics in the United States to detect any change in rates of new cases for brain cancer. If cell phones play a role in risk for brain cancer, rates should go up, because heavy cell phone use has been common for quite some time in the U.S. Between 1987 and 2005, the overall age-adjusted incidence of brain cancer did not increase. Additional information about SEER can be found at

<http://seer.cancer.gov/>.

Cell Phone Industry Actions

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

- Support-needed research on possible biological effects of RF for the type of signal emitted by cell phones;
- Design cell phones in a way that minimizes any RF exposure to the user; and
- Cooperate in providing users of cell phones with the current information on cell phone use and human health concerns.

The FDA also is working with voluntary standard-setting bodies such as the Institute of Electrical and Electronics Engineers (IEEE), the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and others to assure that safety standards continue to adequately protect the public.

Reducing Exposure: Hands-Free Kits and Other Accessories

Steps to Reduce Exposure to Radio Frequency Energy

If there is a risk from being exposed to radio frequency energy (RF) from cell phones - and at this point we do not know that there is - it is probably very small. But, if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your RF exposure.

- Reduce the amount of time spent using your cell phone;
- Use speaker mode or a headset to place more distance between your head and the cell phone.

Hands-Free Kits

Hands-free kits may include audio or Bluetooth® headsets and various types of body-worn accessories such as belt-clips and holsters. Combinations of these can be used to reduce RF energy absorption from cell phones.

Headsets can substantially reduce exposure because the phone is held away from the head in the user's hand or in approved body-worn accessories. Cell phones marketed in the U.S. are required to meet RF exposure compliance requirements when used against the head and against the body.

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used for convenience and comfort. They are also required by law in many states if you want to use your phone while driving.

Cell Phone Accessories that Claim to Shield the Head from RF Radiation

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that accessories which claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike “hands-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption.

Children and Cell Phones

The scientific evidence does not show a danger to any users of cell phones from RF exposure, including children and teenagers. The steps adults can take to reduce RF exposure apply to children and teenagers as well.

- Reduce the amount of time spent on the cell phone;
- Use speaker mode or a headset to place more distance between the head and the cell phone.

Some groups sponsored by other national governments have advised that children be discouraged from using cell phones at all. For example, The Stewart Report from the United Kingdom made such a recommendation in December 2000. In this report, a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. Their recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (updated 10/1/2010):

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

- Environmental Protection Agency (EPA):
<http://www.epa.gov/radtown/wireless-tech.html>.
- Occupational Safety and Health Administration (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/>.
(Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/>.
- World Health Organization (WHO):
<http://www.who.int/peh-emf/en/>.
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>.
- Health Protection Agency:
<http://www.hpa.org.uk/Topics/Radiation/>.
- US Food and Drug Administration:
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>.

Specific Absorption Rate (SAR) Certification Information

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

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

The RF 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 SAR 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 reported 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 of the phone.

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 SAR 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 phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. This mobile phone has a FCC ID number: A3LSCHI535 [Model Number: SCH-R530X] and the specific SAR levels for this mobile phone can be found at the following FCC website:

<http://www.fcc.gov/oet/ea/SAR/SARinformationforthis> SAR information for this device can also be found on SAR information on this and other model phones can be accessed online on the FCC's website through <http://transition.fcc.gov/oet/rfsafety/sar.html>. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional SAR information can also be obtained at <http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones>.

FCC Part 15 Information to User

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by Samsung could void your authority to operate the device.

This device complies with part 15 of the FCC Rules.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Commercial Mobile Alerting System (CMAS)

This device is designed to receive Wireless Emergency Alerts from CMAS. If your wireless provider has chosen to participate in CMAS, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

Smart Practices While Driving

On the Road - Off the Phone

The primary responsibility of every driver is the safe operation of his or her vehicle.

Responsible drivers understand that no secondary task should be performed while driving whether it be eating, drinking, talking to passengers, or talking on a mobile phone - unless the driver has assessed the driving conditions and is

confident that the secondary task will not interfere with their primary responsibility. **Do not engage in any activity while driving a moving vehicle which may cause you to take your eyes off the road or become so absorbed in the activity that your ability to concentrate on the act of driving becomes impaired.** Samsung is committed to promoting responsible driving and giving drivers the tools they need to understand and address distractions.

Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. For example, only hands-free use may be permitted in certain areas.

Before answering calls, consider your circumstances. Let the call go to voicemail when driving conditions require. Remember, driving comes first, not the call!

If you consider a call necessary and appropriate, follow these tips:

- Use a hands-free device;
- Secure your phone within easy reach;
- Place calls when you are not moving;
- Plan calls when your car will be stationary;
- Do not engage in stressful or emotional conversations;

- Let the person with whom you are speaking know that you are driving and will suspend the call if necessary;
- Do not take notes or look up phone numbers while driving;

Notice regarding legal restrictions on mounting this device in an automobile:

Laws in some states may prohibit mounting this device on or near the windshield of an automobile. In other states, the law may permit mounting this device only in specific locations in the automobile. Be sure to consult the state and local laws or ordinances where you drive before mounting this device in an automobile. Failure to comply with these restrictions could result in fines, penalties, or other damages.

Never mount this device in a manner that will obstruct the driver's clear view of the street and traffic.

Never use wireless data services such as text messaging, Web browsing, or e-mail while operating a vehicle.

Never watch videos, such as a movie or clip, or play video games while operating a vehicle.

For more information, go to <http://www.ctia.org>.

Battery Use and Safety

Important! Handle and store batteries properly to avoid injury or damage. Most battery issues arise from improper handling of batteries and, particularly, from the continued use of damaged batteries.

- **Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.** Do not put a high degree of pressure on the battery. This can cause leakage or an internal short-circuit, resulting in overheating.
- **Do not let the phone or battery come in contact with liquids.** Liquids can get into the phone's circuits, leading to corrosion. Even when the phone appears to be dry and appears to operate normally, the circuitry could slowly corrode and pose a safety hazard. If the phone and/or battery get wet, have them checked by your service provider or contact Samsung, even if they appear to be working properly.
- **Do not place your battery in or near a heat source.** Excessive heating can damage the phone or the battery and could cause the phone or the battery to explode. Do not dry a wet or damp battery with an appliance or heat source such as a microwave oven, hair dryer, iron, or radiator. Avoid leaving your phone in your car in high temperatures.
- **Do not dispose of the phone or the battery in a fire.** The phone or the battery may explode when overheated.
- **Do not handle a damaged or leaking battery.** Do not let leaking battery fluid come in contact with your eyes, skin or clothing. For safe disposal options, contact your nearest Samsung-authorized service center.
- **Avoid dropping the cell phone.** Dropping the phone or the battery, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- **Never use any charger or battery that is damaged in any way.**

- **Do not allow the battery to touch metal objects.** Accidental short-circuiting can occur when a metallic object (coin, key, jewelry, clip, or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

Important! Use only Samsung-approved batteries, and recharge your battery only with Samsung-approved chargers which are specifically designed for your phone.

WARNING!

Use of a non-Samsung-approved battery or charger may present a risk of fire, explosion, leakage, or other hazard. Samsung's warranty does not cover damage to the phone caused by non-Samsung-approved batteries and/or chargers.

- **Do not use incompatible cell phone batteries and chargers.** Some websites and second-hand dealers not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier-recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.
- **Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, or leakage, leading to serious injuries, damages to your phone, or other serious hazard.**

Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile devices and genuine Samsung accessories.

Proper disposal of your mobile device and its battery is not only important for safety, it benefits the environment. Batteries must be recycled or disposed of properly.

Recycling programs for your mobile device, batteries, and accessories may not be available in your area.

We've made it easy for you to recycle your old Samsung mobile device by working with respected take-back companies in every state in the country.

Drop It Off

You can drop off your Samsung-branded mobile device and batteries for recycling at one of our numerous Samsung Recycling Direct (SM) locations. A list of these locations may be found at:

http://pages.samsung.com/us/recyclingdirect/usactivities_environment_samsungrecyclingdirect_locations.jsp

Samsung-branded devices and batteries will be accepted at these locations for no fee.

Consumers may also recycle their used mobile device or batteries at many retail or carrier-provided locations where mobile devices and batteries are sold. Additional information regarding specific locations may be found at:

<http://www.epa.gov/epawaste/partnerships/plugin/cellphone/index.htm> or at <http://www.call2recycle.org/>.

Mail It In

The Samsung Mobile Take-Back Program will provide Samsung customers with a free recycling mailing label. Just go to

<http://fun.samsungmobileusa.com/recycling/index.jsp>.

Dispose of unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect

Or call, (877) 278-0799.

Follow local regulations regarding disposal of mobile devices and batteries

Dispose of your mobile device and batteries in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited. Help us protect the environment - recycle!

Warning! Never dispose of batteries in a fire because they may explode.

UL Certified Travel Charger

The Travel Charger for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines:

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Display / Touch-Screen

Please note the following information when using your mobile device:

WARNING REGARDING DISPLAY

The display on your mobile device is made of glass or acrylic and could break if your mobile device is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

WARRANTY DISCLAIMER: PROPER USE OF A TOUCH-SCREEN MOBILE DEVICE

If your mobile device has a touch-screen display, please note that a touch-screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch-screen may damage the tempered glass surface and void the warranty. For more information, please refer to the "Standard Limited Warranty".

GPS

Certain Samsung mobile devices can use a Global Positioning System (GPS) signal for location-based applications. A GPS uses satellites controlled by the U.S. Government that are subject to changes implemented in accordance with the Department of Defense policy and the 2008 Federal Radio navigation Plan (FRP). Changes may affect the performance of location-based technology on your mobile device.

Even with GPS, when you make an emergency call:

- Always tell the emergency responder your location to the best of your ability; and
- Remain on the mobile device for as long as the emergency responder instructs you.

Navigation

Maps, directions, and other navigation-data, including data relating to your current location, may contain inaccurate or incomplete data, and circumstances can and do change over time. In some areas, complete information may not be available. **Therefore, you should always visually confirm that the navigational instructions are consistent with what you see before following them. All users should pay attention to road conditions, closures, traffic, and all other factors that may impact safe driving or walking. Always obey posted road signs.**


Emergency Calls

This mobile device, like any wireless mobile device, operates using radio signals, wireless and landline networks, as well as user-programmed functions, which cannot guarantee connection in all conditions, areas, or circumstances.

Therefore, you should never rely solely on any wireless mobile device for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel. Remember, to make or receive any calls, the mobile device must be switched on and in a service area with adequate signal strength.

Emergency calls may not be possible on all wireless mobile device networks or when certain network services and/or mobile device features are in use. Check with local service providers.

To make an emergency call:

1. If the mobile device is not on, switch it on.
2. From the Home screen, touch  to launch the Phone Dialer.

3. Key in the emergency number for your present location (for example, 911 or other official emergency number).

Emergency numbers vary by location.

4. Touch  to place the call.

If certain features are in use (call blocking, for example), you may first need to deactivate those features before you can make an emergency call. Consult your User Manual and your local cellular service provider. When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your mobile device may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Care and Maintenance

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

Keep your Samsung Mobile Device away from:

Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.

Do not use the mobile device with a wet hand. Doing so may cause an electric shock to you or damage to the mobile device.

Extreme heat or cold

Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

Microwaves

Do not try to dry your mobile device in a microwave oven. Doing so may cause a fire or explosion.

Dust and dirt

Do not expose your mobile device to dust, dirt, or sand.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device. Wipe it with a soft

cloth slightly dampened in a mild soap-and-water solution.

Shock or vibration

Do not drop, knock, or shake the mobile device. Rough handling can break internal circuit boards.

Paint

Do not paint the mobile device. Paint can clog the device's moving parts or ventilation openings and prevent proper operation.

Responsible Listening

Caution! Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations. Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cell phones, at high volume settings for long durations may lead to permanent noise-induced hearing loss.

This includes the use of headphones (including headsets, earbuds, and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound, and distorted hearing. Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings, and equipment.

You should follow some common sense recommendations when using any portable audio device:

- Always turn the volume down before plugging the earphones into an audio source.
- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- Be aware that you can adapt to higher volume settings over time, not realizing that the higher volume may be harmful to your hearing.

- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech, or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology

11730 Plaza American Drive, Suite 300
Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet:

<http://www.audiology.org/Pages/default.aspx>

National Institute on Deafness and Other Communication Disorders

National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD 20892-2320

Email: nidcdinfo@nih.gov

Internet:

<http://www.nidcd.nih.gov/>

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W., Suite 9200

Patriots Plaza Building

Washington, DC 20201

Voice: 1-800-35-NIOSH

(1-800-356-4674)

1-800-CDC-INFO (1-800-232-4636)

Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet:

<http://www.cdc.gov/niosh/topics/noise/default.html>

1-888-232-6348 TTY

Operating Environment

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

Using Your Mobile Device Near Other Electronic Devices

Most modern electronic equipment is shielded from Radio Frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless mobile device. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless mobile device and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the mobile device more than six (6) inches from their implantable medical device when the mobile device is turned ON;
- Should not carry the mobile device in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the mobile device OFF immediately if there is any reason to suspect that interference is taking place;

- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless mobile device with an implantable medical device, consult your health care provider.

For more information see: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html#>.

Other Medical Devices

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

Vehicles

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

Posted Facilities

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

Potentially Explosive Environments

Switch your mobile device off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised to switch the mobile device off while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

When your Device is Wet

Do not turn on your device if it is wet. If your device is already on, turn it off and remove the battery immediately (if the device will not turn off or you cannot remove the battery, leave it as-is). Then, dry the device with a towel and take it to a service center.

FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other assistive hearing devices.

When individuals employing some assistive hearing devices (hearing aids and cochlear implants) use wireless mobile devices, they may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and mobile devices also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless mobile devices to assist hearing device users find mobile devices that may be compatible with their

hearing devices. Not all mobile devices have been rated. Mobile devices that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Wireless mobile devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. M4 is the better/higher of the two ratings. M-ratings refer to enabling acoustic coupling with hearing aids that do not operate in telecoil mode.

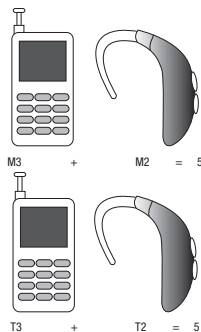
T-Ratings: Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

Under the standard, this should provide the hearing aid user with normal use while using the hearing aid with the particular wireless mobile device. A sum of 6 or more would indicate excellent performance.

However, these are not guarantees that all users will be satisfied. T ratings work similarly.



The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

HAC for Newer Technologies

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

Restricting Children's Access to Your Mobile Device

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

Keep the mobile device and all its parts and accessories out of the reach of small children.

FCC Notice and Cautions

FCC Notice

The mobile device may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the mobile device 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.

Cautions

Any changes or modifications to your mobile device not expressly approved in this document could void your warranty for this equipment and void your authority to operate this equipment. Only use approved batteries, antennas, and chargers. The use of any unauthorized accessories may be dangerous and void the mobile device warranty if said accessories cause damage or a defect to the mobile device.

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

Other Important Safety Information

- Only qualified personnel should service the mobile device or install the mobile device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.

- Check regularly that all wireless mobile device equipment in your vehicle is mounted and operating properly.
- When using a headset in dry environments, static electricity can build up in the headset and cause a small quick static electrical shock. To minimize the risk of electrostatic discharge from the headset avoid using the headset in extremely dry environments or touch a grounded unpainted metal object to discharge static electricity before inserting the headset.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the mobile device, its parts, or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including installed or portable wireless equipment near or in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your mobile device off before boarding an aircraft. The use of wireless mobile devices in aircraft is illegal and may be dangerous to the aircraft's operation. Check with appropriate authorities before using any function of a mobile device while on an aircraft.
- Failure to observe these instructions may lead to the suspension or denial of cell phone services to the offender, or legal action, or both.
- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing games for extended periods. If you feel any discomfort, stop using the device immediately.
- Reduce risk of repetitive motion injuries. When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop use and see a physician.
- If your device has a camera flash or light, do not use the flash or light close to the eyes of people or pets. [122011]

Section 10: Warranty Information

Standard Limited Warranty

What is covered and for how long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC (“SAMSUNG”) warrants that SAMSUNG’s handsets and accessories (“Products”) are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase by the first consumer purchaser and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Case/Pouch/Holster	90 Days
Other Phone Accessories	1 Year

What is not covered?

This Limited Warranty is conditioned upon proper use of the Product.

This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abnormal use, abnormal conditions, improper storage, exposure to liquid, moisture, dampness, sand or dirt, neglect, or unusual physical, electrical or electromechanical stress; (b) scratches, dents and cosmetic damage, unless caused by SAMSUNG; (c) defects or damage resulting from excessive force or use of a metallic object when pressing on a touch screen; (d) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (e) ordinary wear and tear; (f) defects or damage resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (g) defects or damage resulting from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (h) defects or damage resulting from external causes such as collision with an object, fire, flooding, dirt, windstorm, lightning, earthquake, exposure to weather conditions, theft, blown fuse, or improper use of any electrical source; (i) defects or damage resulting from cellular signal reception

or transmission, or viruses or other software problems introduced into the Product; or (j) Product used or purchased outside the United States. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery; (ii) any of the seals on the battery are broken or show evidence of tampering; or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's obligations?

During the applicable warranty period, provided the Product is returned in accordance with the terms of this Limited Warranty, SAMSUNG will repair or replace the Product, at SAMSUNG's sole option, without charge. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product, or may replace the Product with a rebuilt, reconditioned or new Product.

Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Products will be warranted for a period equal to the

remainder of the original Limited Warranty on the original Product or for ninety (90) days, whichever is longer. All replaced Products, parts, components, boards and equipment shall become the property of SAMSUNG. Except to any extent expressly allowed by applicable law, transfer or assignment of this Limited Warranty is prohibited.

What must you do to obtain warranty service?

To obtain service under this Limited Warranty, you must return the Product to an authorized phone service facility in an adequate container for shipping, accompanied by the sales receipt or comparable proof of sale showing the original date of purchase, the serial number of the Product and the seller's name and address.

To obtain assistance on where to deliver the Product, please call SAMSUNG Customer Care at 1-888-987-4357. If SAMSUNG determines that any Product is not covered by this Limited Warranty, you must pay all parts, shipping, and labor charges for the repair or return of such Product.

You should keep a separate backup copy of any contents of the Product before delivering the Product to SAMSUNG for warranty service, as some or all of the contents may be deleted or reformatted during the course of warranty service.

What are the limits on SAMSUNG's liability?

THIS LIMITED WARRANTY SETS OUT THE FULL EXTENT OF SAMSUNG'S RESPONSIBILITIES, AND THE EXCLUSIVE REMEDY REGARDING THE PRODUCTS.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SAMSUNG BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR FOR, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY SORT; LOSS OF USE, TIME, DATA, REPUTATION, OPPORTUNITY, GOODWILL, PROFITS OR SAVINGS; INCONVENIENCE; INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES; OR DAMAGES ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT. SOME STATES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE DISCLAIMER OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND DISCLAIMERS MAY NOT APPLY TO YOU.

SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE

OR SUITABILITY OF ANY THIRD-PARTY SOFTWARE OR EQUIPMENT USED IN CONJUNCTION WITH THE PRODUCT, OR THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE. RESPONSIBILITY FOR THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT RESTS SOLELY WITH THE USER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT.

Nothing in the Product instructions or information shall be construed to create an express warranty of any kind with respect to the Products. No agent, employee, dealer, representative or reseller is authorized to modify or extend this Limited Warranty or to make binding representations or claims, whether in advertising, presentations or otherwise, on behalf of SAMSUNG regarding the Products or this Limited Warranty.

This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

What is the procedure for resolving disputes?

ALL DISPUTES WITH SAMSUNG ARISING IN ANY WAY FROM THIS LIMITED WARRANTY OR THE SALE, CONDITION OR PERFORMANCE OF THE PRODUCTS SHALL BE RESOLVED EXCLUSIVELY THROUGH FINAL AND BINDING ARBITRATION, AND NOT BY A COURT OR JURY.

Any such dispute shall not be combined or consolidated with a dispute involving any other person's or entity's Product or claim, and specifically, without limitation of the foregoing, shall not under any circumstances proceed as part of a class action. The arbitration shall be conducted before a single arbitrator, whose award may not exceed, in form or amount, the relief allowed by the applicable law. The arbitration shall be conducted according to the American Arbitration Association (AAA) Commercial Arbitration Rules applicable to consumer disputes. This arbitration provision is entered pursuant to the Federal Arbitration Act. The laws of the State of Texas, without reference to its choice of laws principles, shall govern the interpretation of the Limited Warranty and all disputes that are subject to this arbitration provision. The arbitrator shall decide all issues of interpretation and application of this arbitration provision and the Limited Warranty.

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are \$5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant SAMSUNG its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or \$50.00 of such fees, whichever is less, and SAMSUNG shall pay the remainder of such fees. Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees, exceed \$5,000.00 ("Large Claim") shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction. This arbitration provision also applies to claims against SAMSUNG's employees, representatives and affiliates if any such claim arises from the Product's sale, condition or performance.

You may opt out of this dispute resolution procedure by providing notice to SAMSUNG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product. To opt out, you must send notice by e-mail to optout@sta.samsung.com, with the subject line: "Arbitration Opt Out." You must include in the opt out e-mail (a) your name and address; (b) the date on which the Product was purchased; (c) the Product model name or model number; and (d) the IMEI or MEID or Serial Number, as applicable, if you have it (the IMEI or MEID or Serial Number can be found (i) on the Product box; (ii) on the Product information screen, which can be found under "Settings;" (iii) on a label on the back of the Product beneath the battery, if the battery is removable; and (iv) on the outside of the Product if the battery is not removable). Alternatively, you may opt out by calling 1-888-987-4357 no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product and providing the same information. These are the only two forms of notice that will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the benefits of the Limited Warranty.

Severability

If any portion of this Limited Warranty is held to be illegal or unenforceable, such partial illegality or unenforceability shall not affect the enforceability of the remainder of the Limited Warranty.

Precautions for Transfer and Disposal

If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

Important! Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

Samsung Telecommunications America, LLC
1301 E. Lookout Drive
Richardson, Texas 75082
Phone: 1-800-SAMSUNG
Phone: 1-888-987-HELP (4357)

No reproduction in whole or in part allowed without prior written approval. Specifications and availability subject to change without notice. [111611]

End User License Agreement for Software

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