

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 the Samsung GALAXY S III phone by installing an optional microSD card, 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 224. Also included is important safety information that you should know before using this phone. Most of this information is near the back of the guide, beginning on page 187.

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

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 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 18.)

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. This special text is intended to point out important information, to 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:** Provides an example of the feature or procedure.
- **Important:** Provides important information about the current feature that could affect performance.
- **Caution:** Provides information to avoid possible damage.
- **Warning:** Brings to your attention important information to prevent loss of data or functionality or even to 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, then touch  Menu →
Settings →  **Connections** → Wi-Fi."

Setting Up Your Phone

Before using your phone, install the SIM card, the microSD™ card, and the battery into their respective internal slots and compartments.

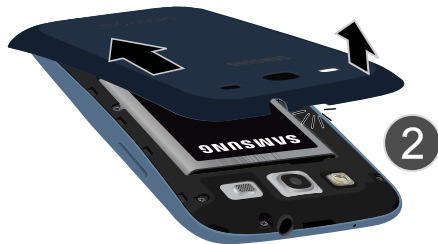
Important! Before removing or replacing the battery cover, make sure the phone is switched off.

To turn the phone off, press and hold down the Power key until the **Device options** pop-up displays, and then touch **Power 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).

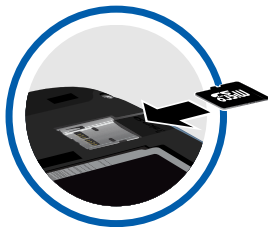
Caution! Do not bend or twist the back cover excessively. Doing so may damage the cover.



Installing a Memory Card

This phone 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. (See *“Removing the Battery Cover”* on page 6.)
2. Locate the microSD card slot on the bottom inside of the phone.
3. With the gold contacts facing down, carefully slide the memory card into the slot (as shown), pushing gently until the memory card clicks into place.



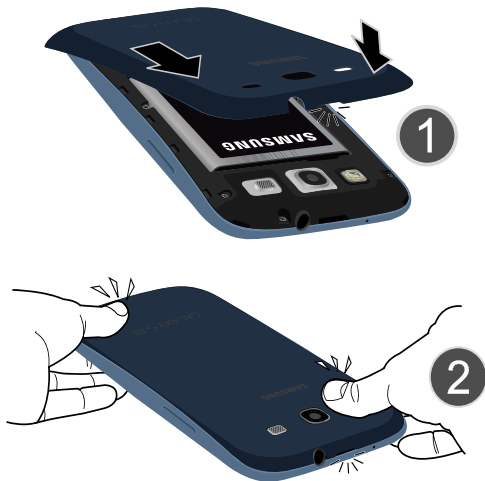
Important! Be sure to align the gold contact pins on the memory card with the phone's contacts.

Caution! Applications, personal settings, and other stored data may be lost or may not function properly if the memory card is removed without first unmounting it.

For more information about mounting/unmounting, formatting, or uninstalling a memory card, see *“Mounting the SD Card”* on page 42, *“Unmounting the Memory Card”* on page 42, or *“Formatting a Memory Card”* on page 43.

Replacing the Battery Cover

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



Removing a Memory Card

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

1. Press Home, then touch  **Menu** → **Settings** →  **More** → **Storage** → **Unmount SD card**.
2. Remove the battery cover. (See “*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 “*Replacing the Battery Cover*” on page 8.)

Battery

This 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: This phone is shipped with the battery partially charged. Please charge the battery fully before using the phone for the first time.

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

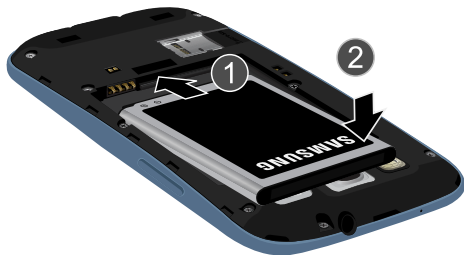
Warning! Use only Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage. Failure to unplug the wall charger before you remove the battery can cause damage to the phone.

Battery Indicator

The battery icon  in the Status bar shows the battery power level. Two to three minutes before the battery becomes too low to operate the phone, the empty battery icon flashes and a tone sounds. If you continue to operate the phone without charging the battery, the phone powers off.

Installing the Battery

1. Remove the battery cover (see “*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. Ensure that the connectors align.
3. Gently press down to secure the battery (2).



Removing the Battery

1. Remove the battery cover (see “Removing the Battery Cover” on page 6).
2. Lift the battery up using the slot provided (1).



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

Charging the Battery

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

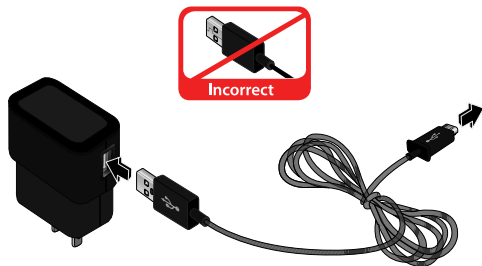
Important! It is recommended that you fully charge the battery before using the device for the first time.



1. Insert the USB cable into the phone's Charger/Accessory jack.

Note: This illustration displays both the **correct** and **incorrect** orientation for connecting the USB cable. Failure to connect the USB cable correctly may damage the accessory port and void 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.

Turning the 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, then displays the Locked screen and any active Notification alerts.



Note: The 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 the Phone

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



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

Turning the Phone Off

1. Press and hold the  **Power/Lock** for two seconds until the Device options screen displays.
2. At the prompt, touch **Power off**.
3. Touch **OK** at the prompt.

Restarting the Phone

1. Press and hold the  **Power/Lock** until the Device options screen displays.
2. Touch **Restart** → **OK**.

Important! 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 211.)

Setting Up Your Phone

When you first turn on the phone, you are asked to set up a few things. To do that, the following screens display. Touch **Skip >** to skip some screens, or touch **Back** to redisplay them. (Some screens may or may not display depending on the options you choose.)

Note: If your screen dims or turns off, momentarily press the Power/Lock key to continue.

Welcome

1. Under **Select language**, touch the language you want this phone to use, such as **English**.
2. If you want to use some or all of the enhanced accessibility features of your phone, touch **Accessibility**.
3. Touch **Next >**. The **Activate device** screen appears. Your phone will automatically activate itself.

Wi-Fi

Make sure the Wi-Fi **OFF / ON** icon is set to ON, and choose one of the following options:

- Touch **Add Wi-Fi network** to enter a Network SSID that is not listed.
- Touch **Scan** to make sure you have an accurate list of Wi-Fi networks.
- Touch one of the Wi-Fi networks in the list, enter the password, and touch **Connect**. Touch and connect to another Wi-Fi network or touch **Next >** to continue.

Touch **Skip >** to perform this task later. (For more information, refer to “Wi-Fi” on page 127.)

Samsung Account

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

1. If you already have a Samsung account, on the **Samsung Account** screen, touch **Sign in** and follow the prompts to connect your phone to your existing Samsung account.
2. If you do not have a Samsung account, touch **Create new account** and follow the on-screen instructions to create a Samsung account.
3. Read the Terms and conditions, and then touch the **I accept all the terms above** check box.
4. Touch **Agree**.
5. Enter the required information and touch **Sign up**.
6. At the Welcome screen, touch **Next**.
7. Follow the on-screen instructions to verify your email address and activate your account.

Got Google?

To use all of the Android features of your phone, you need to create a Google™ Account the first time you use your phone. With a Google Account, Google applications, including Gmail, Maps, Navigation, Google Talk, and Google Play, are always in sync between your phone and computer.

The **Got Google?** screen lets you create and sign in to a new Google Account or simply sign in to an existing Google Account.

Note: If you skipped Wi-Fi setup, the Wi-Fi setup screen displays and you must connect through a Wi-Fi network.

Respond to the “**Do you have a Google Account?**” as follows:

1. Touch **Yes** if you already have a Google Account. The **Sign in** screen displays.
 - Touch the **Email** field and enter your Google Account Email ID and touch **Next** on the keyboard.
 - Enter your Google Account password and touch **Done** on the keyboard.

— or —

Touch **No** if you do not have a Google Account.

 - The **Make it Google** screen displays. Touch **Get an account** to create and sign in to a new Google Account. (Or touch **Not now** to bypass this step and proceed.)
 - Touch **OK**.
2. Once you enter your Google Account information, you are prompted to agree to the Google Terms of Service and Privacy Policy.
3. The **Signing in** screen displays until the phone links to your Google Account. (For more information, refer to “*Setting Up Your Gmail Account*” on page 83.)

Resetting Your Google Account Password

A Google Account password is required for Google applications. If you misplace or forget your Google Account password, follow these instructions to reset it:

1. From your computer, use an Internet browser to navigate to google.com/accounts.
2. When the web page loads, click the **Can't access your account?** link.
3. Under the title **Having trouble signing in?**, follow the password reset prompts.

Entertainment

Sign up for Google Wallet—a fast, easy, and safe way to pay for purchases in the Google Play Store and other sites.

(This screen displays only when you are signed in to your Google Account.)

- Touch **Set up credit card** and enter purchase information for your Google Account.
 - or –
- Touch **Not now**.

Backup and Restore

You can use your Google Account to back up your apps, settings, and other data.

(This screen displays only when you are signed in to your Google Account.)

1. Read the backup and restore information.
2. Enable either or both options.
3. Touch ► to continue .

If you selected **Restoring from my Google Account to this phone**, the Restoring screen displays while your information is restored.

Google and Location

- Enable the desired settings related to location information, then touch ► to continue.

This Phone Belongs To...

To personalize the phone with your name:

1. Touch the First and Last fields and use the on-screen keyboard to enter you first and last name.
2. Touch ► to continue.

Setup Complete

Congratulations! Your phone is set up and ready to use.

- Touch **Finish**.

Displaying Your Phone Number

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

Your phone number displays in the **My phone number** field.

Voicemail

All unanswered calls to the phone are sent to voicemail, even if the phone is turned off. Set up your voicemail and personal greeting as soon as you activate the phone.

Setting Up Voicemail

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

Checking Voicemail

1. Press  **Home**, touch  **Phone**, and 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.

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 () displays in the Annunciator Line (Notification Bar) of the display.

Tip: You can set your phone's roaming behavior. For more information, refer to *"Mobile Networks"* on page 147

During roaming, some services may not be available. Depending on your coverage area and service plan, extra charges may apply when you make or receive 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 the phone manually. You can unlock the phone using one of the default Unlock screens. 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 153.

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 the Phone*” on page 12.

Unlocking with a Personal Screen Unlock Pattern

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

For more information, refer to “*Lock Screen*” on page 153

Unlocking with a Password

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

TTY Mode

This phone is fully TTY-compatible, allowing you to connect a TTY device to the phone's headset jack. Before you can use this phone with a TTY device, enable TTY Mode.

For more information, refer to “*Other call settings*” on page 68.

Section 2: Understanding Your Phone

Features

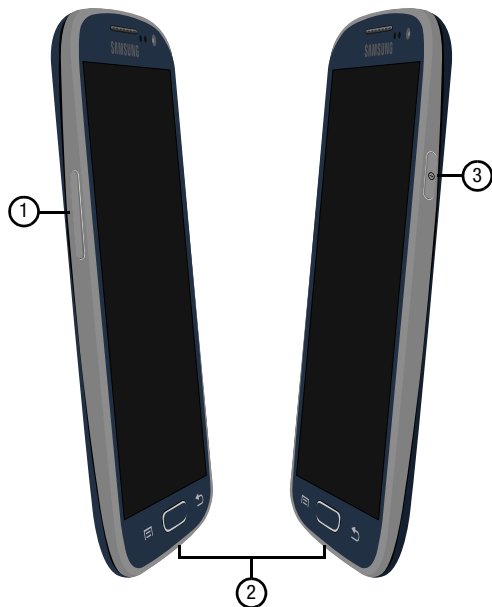
- 4.8-inch 1280x720 Super AMOLED HD touch screen
- CDMA 1X/EV-DO Rev-A /LTE Wireless Technology
- 1.5 gigahertz dual-core processor
- Android® 4.3 platform
- Google Play™ Store, plus pre-loaded applications
- SAFE™ Certified
- Connections
 - Wi-Fi 802.11 a/b/g/n
 - Mobile Hotspot
 - Bluetooth 4.0
 - Tethering
 - VPN
 - NFC
 - Android Beam
 - S Beam
 - Wi-Fi Direct
 - AllShare Cast
 - DLNA
 - USB 3.0
- Galaxy Gear™ compliant. For more information, please visit: www.samsung.com/us/galaxygearsupport
- 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
- Picture Gallery
- Video Player (720p — 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:** Touch to display options for the current screen.
4. **Home Key:** Press to display the Home screen or, if the phone is locked, the Lock screen. Press and hold to display recent applications or to launch Task Manager.
5. **Microphone:** Use when recording and during calls, to allow callers to hear your voice.
6. **Back Key:** Touch 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:** Detects the presence of nearby objects to control phone functions or blank the screen display, such as when you hold the phone to your ear during a phone call. Detects ambient light to determine screen brightness when **Brightness** is set to **Automatic brightness** (see “*Brightness*” on page 155), and when you take pictures with the Front camera.

Side Views



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

Navigation

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

Warning! 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 211.

Context-Sensitive Menus

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

To access context-sensitive menus:

1. Touch  **Menu**.
2. 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  **Home** to display the Home screen.

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

Back Key

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

Motions

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 application 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:

- Unlock the screen.
- Scroll 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 outward to zoom in on pictures or screens.
- Pinch inward to zoom out on pictures or screens.

Motions

Your phone recognizes motion to allow you to navigate 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 168.)

- **Direct call:** When this option is set to On, you can lift the phone to your ear to call a contact displayed in a Messaging, Contacts, or Call Log screen.
- **Smart alert:** When this option is set to On, you can lift the phone to automatically receive notification of missed calls, messages, and alerts that occurred while the phone was stationary.

- **Double tap to top:** When this option is set to On, a double tap on the top of the phone takes you to the top of the list.
- **Tilt to zoom:** When this option is set to On, touching and holding with your thumbs on the screen while in Gallery or Internet, then tilting the phone forward and back, causes the screen to zoom in or out.
- **Pan to move icon:** When this option is set to On, touching and holding on the screen, then moving the phone in a side-to-side motion, moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images:** When this option is set to On, moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Shake to update:** When this option is set to On, shaking the phone causes Bluetooth or Wi-Fi screens to scan for devices.
- **Turn over to mute/pause:** When this option is set to On, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.

Hand Motions

Use your hand to swipe across the screen, or cover the screen.

- **Palm swipe to capture:** When this option is set to On, swiping the screen with the side of your hand (left to right, or right to left) captures a screen shot.
- **Palm touch to mute/pause:** When this option is set to On, covering the screen with your hand mutes or pauses media playback.

Using Multi Window

This feature allows you to run multiple applications on the current screen at the same time.

Note: Only applications found within the Multi window panel can be active atop another current application on the screen.

When launching applications that contain multimedia files (music/video), audio from both files will be played simultaneously.

Tip: You can use Multi window with your phone either upright or rotated onto its side. You can also rotate your phone with Multi window already running two applications.

Enabling Multi Window

Enabling Multi window on the Notification screen:

1. In a single motion, touch the Status bar to reveal the Notifications tab, and then drag it to the bottom of the screen to open the Notifications screen (1).
2. Swipe the row of Quick Settings buttons to the left until the **Multi window** icon appears.
3. Touch  **Multi window** to enable the feature. The icon turns green  when active.

Showing the Multi window tab:

1. If the Multi window tab  is not showing on the current screen, touch and hold  **Back**. The Multi window tray appears briefly (by default) on the left side of the screen, then closes, leaving only the Multi window tab showing.
2. Touch the Multi window tab  to open the Multi window tray, showing some of the available Multi window apps.
3. Swipe the tray upwards to show more Multi window apps.

Hiding 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

Any of the apps found within the Multi window panel can be run at the same time as a current on-screen app.

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

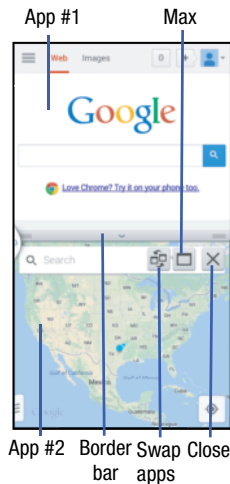
1. Launch an application, such as Internet.
 - From the Home screen, touch  **Internet**.
2. Enable the Multi window feature. (See “Enabling Multi Window” on page 27.)
3. Touch the Multi window tab  to display the apps tray.
4. Touch and hold the desired app, such as  **Maps**, until it detaches from the tray.
5. In a single motion, drag the app over the current app and drop the new Multi window app over either the top or bottom half of the current on-screen app.
The device displays a split screen view containing both the initial app and the new Multi window app. Each application is still 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 running in the Multi window screen, touch and hold the Border bar, then drag it to resize the desired window.



To separate the current applications:

1. With the two applications running in the Multi window 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.

To close an application:

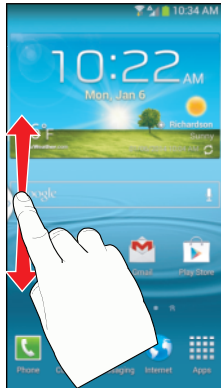
1. With the two applications running in the Multi window screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch  **Close app**. The current apps swap places.

Moving the Multi Window Tab and Tray

You can move the Multi window tab along any edge of the screen (top, bottom, left, or right). This is a quick way to get the tab out of the way if you can't get to a button or option behind it.

To move the tab:

1. Enable the Multi window feature. (See “Enabling Multi Window” on page 27.)
2. In a single motion, touch and hold the tab  for a second, then slowly drag it to its new location **along the current screen edge**.



To relocate the Multi window tray:

1. Enable the Multi window feature. (See “Enabling Multi Window” on page 27.)
2. Touch the tab to display the apps tray (containing the scrollable apps).

Note: Notice that when the apps are visible, the tab turns a dark grey. Its only in this state that the apps tray can be relocated.

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



Customizing the Multi Window tray

You can customize the contents of the Multi window tray by rearranging, removing, or adding apps.

To rearrange the Multi window apps:

1. Enable the Multi window feature. (See “Enabling Multi Window” on page 27.)
2. Touch the Multi window tab  to open the apps tray.
3. In a single motion, touch and hold a desired app until it detaches from the tray, 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 app:

1. Enable the Multi window feature. (See “Enabling Multi Window” on page 27.)
2. Touch the Multi window tab  to open the apps tray.
3. Touch **Edit** (located at the bottom of the list) to reveal the staging area containing any previously removed apps.
4. Follow the prompt to remove apps from the Multi window tray to the staging area.

5. When you are finished, touch **Done**.

To add a Multi window app:

1. Enable the Multi window feature. (See “Enabling Multi Window” on page 27.)
2. Touch the Multi window tab  to open the apps tray.
3. Touch **Edit** (located at the bottom of the list) to reveal the staging area containing any previously removed apps.
4. In a single motion, touch and hold a desired app until it detaches from the staging area, then carefully drag it to a new location in the current list of apps.
5. When you are finished, touch **Done**.

Notifications

The Notification area indicates new message events (data sync status, new messages, calendar events, call status, etc). You can expand this area to reveal the Notifications screen that provides more detailed information about the current on-screen notification icons.

Opening the Notifications Screen

1. In a single motion, touch and drag the Status bar down to the bottom of the screen to display notifications.
2. Touch a notification entry to open the associated application.
3. Touch **Clear** to clear all Notifications.



Quick Settings Menu

Use the Quick Settings buttons at the top of Notifications to control popular settings. Slide your finger left to view icons hidden on the right.

- **Wi-Fi:** Turn Wi-Fi On or Off. (For more information about using Wi-Fi, see “*Wi-Fi*” on page 127.)
- **GPS:** Turn Standalone GPS services on or off. (For more information, see “*Location Services*” on page 178.)
- **Sound:** Touch to switch between your sound settings and the two Silent modes, Mute and Vibrate.
- **Screen Rotation:** Enable or disable the Auto rotation setting to control whether the screen automatically updates when you rotate the phone. (For more information, see “*Auto-Rotate Screen*” on page 156.)
- **Bluetooth:** Turn Bluetooth On or Off. (For more information about using Bluetooth, see “*Bluetooth*” on page 128.)
- **Mobile data:** Activate or deactivate your phone’s access to mobile data. (For more information, see “*Turning Mobile Data On or Off*” on page 145.)
- **Blocking mode:** Enable or disable blocking of select notifications you receive. (For more information, refer to “*Blocking mode*” on page 159).

- **Power saving:** Enable or disable Power saving mode. (For more information, refer to “*Power saving mode*” on page 160.)
- **Multi window:** Enable or disable the Multi Window feature that lets you run two applications on the same screen at the same time. (For more information, refer to “*Using Multi Window*” on page 26.)
- **Screen Mirroring:** Enable or disable sharing of screens on your device with other devices. (For more information, refer to “*Screen Mirroring*” on page 139.)
- **Brightness:** Set to Auto. Deselect and drag the slider left to decrease or right to increase screen brightness levels.

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 application.
– or –
Touch **Clear** to clear all notifications.

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 35.)
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. **Primary Shortcuts:** Shortcuts to your phone's common apps. (For more information, see *"Primary Shortcuts"* on page 38.)
4. **Panel Indicator:** Indicates which of 7 available Home screen panels display on the screen.
5. **Shortcuts:** Shortcuts to common apps. These shortcuts are found on the Home screen by default, and you can add more shortcuts to your favorite applications. (For more information, see *"Adding an Application Shortcut to the Home Screen"* on page 39.)
6. **Widgets:** Apps that run on the Home screen. These widgets are found on the Home screen by default, and you can add your favorites. (For more information, see *"Widgets"* on page 38.)

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 146.)



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: There is a missed call.



Battery Level: Battery is 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 currently active. (See “*Location Services*” on page 178.)



Missing SIM: No LTE SIM is installed.



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.



Silent Mode: All sounds except media and alarms are silenced, and Vibrate is not active.



Mute: Voice or playback volume is muted.



Vibrate: All sounds are silenced, and Vibrate is active. (See “*Vibrations: Choose or create a vibration pattern to use when vibration is enabled.*” on page 157.)



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



SD Card Removed: A memory card was uninstalled.



SD Card Unexpectedly Removed. The memory card was removed improperly.



Bluetooth Active: Bluetooth is turned on.



Bluetooth Connected: Your phone is connected with another Bluetooth device.



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



Wi-Fi Action Needed: Action is needed to connect to Wi-Fi network. (For more information about configuring Wi-Fi, see “*Wi-Fi Settings*” on page 142.)



TTY: TTY Mode is active.

You can customize display settings to your preferences. (For more information, refer to “*Display*” on page 155.)

Extended Home Screen

The Home screen consists of the Home panel, plus 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.

Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add Apps and Widgets:** For more information, see “*Adding an Application Shortcut to the Home Screen*” on page 39.
- **Add Folders:** For more information, see “*Place folders on the Home screen to organize items.*” on page 39.
- **Change the Wallpaper:** For more information, see “*Wallpaper*” on page 40.

Adding and Removing Home Screen Panels

Your phone comes with 7 Home screen panels. You can customize the Home screen to include up to the seven default panels and set one panel as Home.

1. From the Home screen, touch  **Menu** → **Edit page**.
2. Slide your finger across the screen to scroll the panels.

Use these controls to configure panels:



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



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



Set as Home: Touch to assign a panel as the Home screen. The panel set as Home displays when you press the  **Home** key.

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

Primary Shortcuts

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

Editing the Primary Shortcuts

To add or remove shortcuts:

- Touch and hold a shortcut and drag it from the Primary shortcuts to the Home screen or from the Home screen to the Primary shortcuts.

To remove shortcuts:

- Touch and hold the shortcut until  **Remove** displays, and 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. From the Home screen, swipe to a Home screen panel. Touch and hold on the screen to display the **Home screen** menu.
2. Touch **Apps and widgets**.
3. Touch the **Widgets** tab; then touch and hold a widget to add it to the Home screen.

Adding Widgets from the Widgets Tab

1. From the Home screen, swipe to a Home screen panel.
2. Touch  **Apps**, and then touch the **Widgets** tab.
3. Touch and hold a widget to add it to the Home screen.

Removing Widgets

- Touch and hold the widget until  **Remove** displays. Drag the widget to the **Remove** icon.

Shortcuts

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

Adding an Application Shortcut to the Home Screen

1. Swipe left or right to select a screen location for your new shortcut.
2. Touch  **Apps** to displays all the currently available applications. By default, applications display in grid mode.
3. Scroll across the screens and locate your desired application.
4. Touch and hold the on-screen icon. The new shortcut then hovers over the current screen.
5. While still holding the on-screen icon, position it on the current screen. Release the screen to lock the shortcut into its new position.

Move and Delete Items

- Touch and hold the item you want to move or delete and drag it to another location or to the Trash Can icon at the bottom of the screen.

Folders

Place folders on the Home screen to organize items.

Adding Folders

1. From the Home screen, touch and hold on the screen to display the **Home screen** menu. Touch **Folder** then enter a folder name in the field and touch **OK**.
– or –
Touch  **Menu** → **Create folder**.
The folder displays on the Home screen.
2. Enter a folder name in the field and touch **OK**.

Removing Folders

- Touch and hold the folder until  **Remove** displays, and 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 that you have taken with the Camera or downloaded.

1. From the Home screen, touch and hold on the screen to display the **Home screen** menu.
2. Touch **Set wallpaper** → **Home screen**, **Lock screen**, or **Home and lock screens**.
3. Choose a wallpaper image source:
 - **Gallery:** Choose a picture stored on your phone or on an optional installed memory card. Touch a picture to select it, and 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; then touch **Set wallpaper**.
 - **Wallpapers:** Choose from pre-loaded wallpaper images. Touch a wallpaper; then touch **Set wallpaper**.

Note: You can also set Wallpaper in Settings. (For more information, see “*Wallpaper*” on page 155.)

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 105.

You can place shortcuts to applications on the Home screen for quick access to the application.

1. From the Home screen, touch  **Apps**.
2. Slide your finger left or right to scroll the Applications screens.
3. Touch an icon to launch the application.

Customizing the Apps Screens

Choosing a View

By default, application icons display in Grid view. You can change the view to list view.

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

Apps Screen Options

1. From the Home screen, touch  **Apps**.
2. Touch  **Menu** for options:
 - **Play Store**: Launch Google Play Store to browse for new applications to download.
 - **Edit**: Touch and hold an application 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 application screen and place the icon on it.

- Drag it to  to launch Application manager to view information about the application. (For more information, refer to “*Application Manager*” on page 181.)
 - Drag to  **Uninstall** (if available) to remove the icon. The trash can is available only for applications you’ve installed. Pre-loaded applications cannot be removed.
- **Create folder**: Create a folder for organizing shortcuts.
 - **Uninstall**: Remove an application that you downloaded from your phone. Preloaded applications cannot be uninstalled.
 - **View type**: Configure the application screen.
 - **Share apps**: Select applications that you have downloaded (not available for pre-loaded applications) to share using Bluetooth, Dropbox, Email, Flipboard, Gmail, Google+, Messaging, S Memo, or Wi-Fi Direct.
 - **Hide applications /Show hidden applications**: Control whether application icons are visible in Apps. Hiding an icon does not remove the application from your phone.

Section 3: Memory Card

Your phone lets you use a microSD™ (SD) or microSDHC™ card to expand available memory space. This secure digital card enables you to exchange images, music, and data between SD-compatible devices. This section addresses the features and options of your phone's SD functionality. The phone has a USB SD card mode.

Mounting the SD Card

To store additional photos, music, videos, and other applications, you must mount (install) the SD card before use. Mounting the SD card establishes a USB connection with your computer.

1. Insert the microSD card into the internal, microSD card slot. (For more information, see *"Installing a Memory Card"* on page 7.)
2. The phone scans the SD card and views the available information stored on it.

Unmounting the Memory Card

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

1. From the Home screen, touch  **Menu** → **Settings** →  **More** → **Storage** → **Unmount SD card**.
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 **microSD** slot and carefully release the card. The card pops partially out of the slot.
4. Remove the card from the **microSD** slot.
5. Replace the battery cover. (For more information, refer to *"Replacing the Battery Cover"* on page 8.)

SD Card Available Memory Status

To view the memory allocation for the external SD card:

1. From the Home screen, touch  **Menu** → **Settings** →  **More** → **Storage**. The **Storage** screen displays.
2. View the available memory for the device and SD card under the **Total space** or **Available space** heading.

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** →  **More** → **Storage**. The **Storage** screen displays.
2. Under **SD card**, touch **Mount SD card**. (SD card must be mounted in order to format it.)
3. After mounting the SD card, touch **Format SD card**, and follow the prompts to confirm the deletion of all information from the card.

Caution! Performing the next step erases all data stored on the SD card.

4. Touch **Delete all** to format the SD card.

Section 4: 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, email accounts, see *"Creating Additional Email Accounts"* on page 82.

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

Adding an Account

1. From the Home screen, touch  **Menu** → **Settings** →  **Accounts**.
2. Under **My accounts**, touch  **Add account**.
3. Select an account type, then follow the prompts to enter your credentials and sign in.
4. If needed, the phone communicates with the provider's server to set up your new 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** →  **Accounts**.
2. Under **My accounts**, touch the account type that contains data to synchronize. The account type screen displays.
3. Under **Accounts**, touch the account that contains data to synchronize. The **Sync settings** screen for the selected account displays and lists some or all of the following synchronization settings:
 - Sync App Data
 - Sync Calendar
 - Sync Chrome
 - Sync Contacts
 - Sync Email
 - Sync Gmail

- Sync Google Photos
 - Sync Google Play Books
 - Sync Google Play Magazines
 - Sync Google Play Movies & TV
 - Sync Google Play Music
 - Sync Google+
 - Sync Google+ Auto Backup
 - Sync Internet
 - Sync People details
 - Sync Picasa Web Albums
 - Sync S Memo
 - Sync Tasks
4. Touch these settings to enable/disable synchronization of the associated file types. When enabled, a check mark displays in each setting 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 type.

Tip: You can also control automatic synchronization using the **Sync** toggle in the Quick Settings menu on the Notifications screen. (For more information, refer to “Quick Settings Menu” on page 33.)

Managing Accounts

For more information, refer to “Accounts” on page 170.

1. From the Home screen, touch  **Menu**, then touch **Settings** →  **Accounts**.
2. Under **My accounts**, touch an account type to manage. The account type screen displays.
3. Under **Common settings/General settings**, touch **Settings/Account settings**. The related **Settings** screen displays.

Google Account Privacy Settings

Personalize the Privacy settings for Google Accounts:

1. From the Home screen, touch  **Menu**, then touch **Settings** →  **Accounts**.
2. Under **My accounts**, touch **Google**. The Google account type screen displays.
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.

Contacts

The Contacts application lets you store and manage contacts from a variety of sources, including contacts you enter and save directly on your phone as well as contacts synchronized with your Google account, your Samsung account, your PC, email accounts (including Exchange Server accounts), and your Facebook friends.

To access Contacts:

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

Contact tips:

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

Adding Contacts

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

Note: The first time you add a contact to your Contacts list, a pop-up displays:

- If you have defined one or more accounts (Google, Samsung, and so on), the **Save contact** pop-up displays, select **Device** or the account to receive the new Contact entry.
 - If no accounts are defined, the **Save contact** pop-up displays, select **OK** to save your contacts in “**my device contacts**” or select **Add new account**.
-

2. Touch the Storage location button to select a location where to save this contact (available options depend on the accounts you define to your device):
 - **Device:** Save to “my device contacts”.
 - **Google:** Save to your Google Account.
 - **Samsung account:** Save to your Samsung account.
 - **Microsoft Exchange ActiveSync account:** Save to your Microsoft Exchange ActiveSync account.

- **Add new account:** Allows you to define an account in which to save your contacts. The **Add new account** screen displays. (For more information, refer to “*Setting Up Your Accounts*” on page 44.)
3. Touch  **Photo ID** to choose a picture to identify the contact.
 4. Touch **Name** to enter a name for the contact. Touch  to enter a **Name prefix**, **First name**, **Middle name**, **Last name**, or **Name suffix**.
 5. Under **Phone**, the following options are available:
 - **Mobile** button: Touch to choose a phone number label [**Mobile**, **Home**, **Work**, **Main**, **Work Fax**, **Home Fax**, **Pager**, **Car**, **Company Main**, **MMS**, **Radio**, **Assistant**, **Other**, **Callback**, or **Custom** (create a new label)]. The labels displayed depend upon the Storage location for this contact.
 - **Phone number:** Enter a phone number.
 - To add another number, touch .
 6. Under **Email**, the following options are available:
 - **Home** button: Touch to choose a label [**Home**, **Work**, **Other**, or **Custom** (create a new label)].
 - **Email address:** Enter an email address.
 7. Touch **Groups** to assign the contact to a group. For more information about Groups, see “*Groups*” on page 54.
 8. Touch **Ringtone** to choose a ringtone for the contact.
 9. Touch **Message alert** to select the alert tone to play when you receive a message from this contact.
 10. Touch **Vibration pattern** to choose a vibration pattern to play when you receive a call or message from this contact.
 11. Touch **Add another field** to add more fields, including **Phonetic Name**, **Organization**, **IM**, **Address**, **Notes**, **Nickname**, **Website**, **Internet call**, **Events**, or **Relationship**.
 12. Touch **Save** when you finish selecting and entering information.
 - To add an address, touch .

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 Recent Calls*” on page 63.

Creating Contacts using the Phone Keypad

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

1. From the Home screen, touch  **Phone**.
2. On the **Keypad**, touch the digits of the phone number.
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, then touch  **Edit**.

— or —

Touch and hold a contact, then select **Edit** from the menu.

3. Continue entering contact information. (For more information, refer to “*Adding Contacts*” on page 47.)

Updating Contacts using the Phone Keypad

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

1. From the Home screen, touch  **Phone**.
2. On the **Keypad**, touch the digits of the phone number.
3. Touch **Add to Contacts**, 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 Recent Calls*” on page 63.

Choosing Contacts to Display

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu** → **Contacts to display**:
 - **All contacts**: to show all contacts.
 - **Phone**: to show only show contacts saved to the phone.
 - **<Account>**: to only display contacts from the selected account.
 - **Customized list**: to select contact types for each account, or the phone.

Contacts Settings

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu** → **Settings**.
3. Select one of the following settings options:
 - **Only contacts with phones**: to show contacts with at least one stored phone number.
 - **List by**: to sort contacts by first or last name.
 - **Display contacts by**: to list contacts by first or last name.
 - **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.)
 - **Online search**: When enabled,

Other Contacts Options

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display it, then touch  **Menu** to select from these options:
 - **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.
 - **Link contact / Separate contact:** Manage multiple contacts as one. (For more information, refer to “*Linking Contacts*” on page 52.)
 - **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, then choose **Delete from reject list**.

- **Add shortcut to Home:** Add shortcut to this contact to Home screen.

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 using Bluetooth or as an attachment.

Creating My Local Profile

1. From the Home screen, touch  **Contacts**.
2. Under **ME** touch **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 using 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**, then touch **Share namecard via**.
4. Choose a sending method from the **Share namecard via** screen, then follow the prompts to send the profile.

Linking 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 representing one person.

Linking contact records allows you to see all the contact's numbers and addresses together. Linking 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.

Linking Contacts

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display its information.
3. Touch  **Menu**, then touch **Link contact**. A list of available contacts displays.
4. Select a contact to join to the displayed contact. The linked contact displays.

5. To link another contact, touch the **Connection** field. The Linked contact screen displays.

Touch **Link another contact**. A list of available contacts displays.

Select a contact to link to the displayed contact. The linked contact displays.

Separating Contacts

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display its information.
3. Touch the **Connection** field to display linked contacts.
4. Touch  to the right of a contact to remove it from the selected linked 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**, then touch **Import/Export**. The **Import/Export contacts** pop-up displays.
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.

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 **Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark displays in the check box for marked contacts.
4. Touch **Done**.
5. Select **Bluetooth**, **Drive**, **Email**, **Gmail**, **Messaging**, or **Wi-Fi Direct**, then follow the prompts to send the namecard(s).

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 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:
 - **Group name:** Enter a Group Name.
 - **Group ringtone:** Choose a ringtone for calls from members of this group.
 - **Message alert:** Choose an alert tone for messages from members of this group.
 - **Vibration pattern:** Choose a vibration to play for calls from members of this group.
 - **Add member:** 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 group**, then update information for the group. For more information, see *“Adding a New Group”* on page 54.

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 displays in the check box.

Note: You cannot delete pre-loaded groups.

4. Touch **Delete**, 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, then touch .
3. Touch contact(s) to mark them for addition, or touch **Select all** to mark all contacts. When selected, a check mark displays 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 displays 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, then touch **Done**.
The new message opens, with the marked contacts as recipients.
4. Continue creating the message, as desired. For more information, refer to “*Creating and Sending Messages*” on page 75 or see “*Composing and Sending Email*” on page 82.

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**, then touch **Speed dial setting**. A list of speed dials displays.
3. 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**, 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 to the contact.
 - **Delete:** Un-assign the speed dial from the contact.

Section 5: Calling

Making Calls

There are 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 **Recent**.
- Voice dial using **Voice Dialer**.

Making Calls Using the Phone Keypad

1. From the Home screen, touch  **Phone** then touch the  **Keypad** tab.
2. Enter the digits of the of the telephone number using 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.

More Dialing Options

After entering a number, you can access additional calling options.

- From the **Keypad** screen, touch  **Menu** for additional options:
 - **Send message** to send the current caller a text message while still maintaining the current call active.
 - **Add to Contacts** to add the current number to either a new or existing Contacts entry.
 - **Speed dial setting** to access the Speed dialing setting menu where you can assign a speed dial location to a current Contacts entry.
 - **Add 2-sec pause** to insert a two-second pause within a number string (the phone continues dialing after 2 seconds without any additional keys being pressed).

Tip: You can create pauses longer than two seconds by entering multiple 2 second pauses.

- **Add wait** to insert a hard pause within the number string (the phone waits for your input). A wait requires that any consecutive numbers be manually sent by touching **Yes**.
- **Call settings:** See *“Call Settings”* on page 64.

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**.
– or –
From the Phone **Keypad** screen, touch  **Contacts**.
2. 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. Press  **Home**, then touch  **Apps**, then touch the **Apps** tab. The **Apps** screen displays.
2. Touch  **S Voice**.
3. The first time you access S Voice, follow the prompts to confirm the Samsung Disclaimer and Terms of service.
4. Read the About S Voice screen and follow the prompts.
5. At the **What would you like to do?** screen, say “Hi Galaxy” to wake up S voice.
6. Say, “Call” followed by the name of a contact.

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 54.)

1. From the Home screen, touch  **Phone**.
2. Touch  **Favorites** to display your favorite contacts.
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 Recent Calls

Return a call, or call a number from a recent call stored in Recent calls.

For more information, refer to “Recent Calls” 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, then touch .
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: Press the **Volume** key Up or Down to silence the ringtone for an incoming call.

Sending Calls to Voicemail

When the 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, then select an existing message, or **Create new message**. For more information about creating reject messages, see “*Set up call rejection messages*” on page 65.

Answering Call-Waiting Calls

When you receive a call during another 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.

— or —

Touch **Swap** to place a call on hold and return to the original call.

Options During a Call



While in a call, you can use these features:

- **Personalize 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.

- **Noise reduction on / Noise reduction off:** Enable or disable noise reduction to improve call audio quality in noisy environments.
- **Extra volume turned on / Extra volume turned off:** Increase/decrease volume for received voices.
- **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.
 - **Memo:** Launch S Memo to take notes or to create a drawing.
 - **Message:** Launches Messaging to compose a message.

Ending a Call

- Touch .

Recent Calls

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

Accessing Recent Calls

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

Making Calls Using Recent Calls

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

Sending Messages Using Recent Calls

1. From the Home screen, touch  **Phone** →  **Recent** to display recent calls.
2. Swipe your finger from right to left across any call to send a message.
– or –
For Contacts, touch the number, then touch  to send a message.

Creating or Updating Contacts Using Recent Calls

1. From the Home screen, touch  **Phone** →  **Recent** to display recent calls.
2. Touch and hold on a call, 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 Recent Calls

Deleting Records

1. From the Home screen, touch  **Phone** →  **Recent** to display recent calls.
2. While viewing the calls, touch  **Menu**, 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** →  **Recent** to display recent calls.
2. While viewing the calls, touch  **Menu**, then touch **View**.
3. Select a filter type, from **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** →  **Recent** to display recent calls.
2. While viewing calls, touch  **Menu**, then touch **Call duration**.

Call Settings

Configure settings for calling with the phone.

- To access Call settings, from the Home screen, touch  **Phone** →  **Menu** → **Call settings**.
– or –
Touch  **Menu** → **Settings** →  **My device** → **Call**.

Call block

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

- From the **Call settings** screen, touch **Call block** for these options:
 - **Block calls**: Touch **Off** to accept all calls, or you can reject calls from **All numbers** or reject calls from numbers on the **Call block list only**.
 - **Call block list**: Enter telephone numbers to reject when **Block calls** is set to ON. Turn on **Unavailable** to reject calls with no caller ID. 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.

Set up 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 up call rejection messages**. The **Reject messages** screen displays.
2. Touch **Create**, then follow the prompts to create a new message.
— or —
Touch a message, then edit the text to modify an existing message.

Answering/ending calls

Manage settings for answering and ending calls.

- From the **Call settings** screen, touch **Answering/ending calls**. Configure the following options:
 - **The home key answers calls**: When enabled, press  **Home** to answer an incoming.
 - **Voice control**: When enabled, you can answer an incoming call using voice commands. (For more information, refer to “*S Voice*” on page 121.)
 - **The power key ends calls**: When enabled, press  **Power/Lock** to end a call.

Turn off screen during calls

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

- From the **Call settings** screen, touch **Turn off screen during calls** to enable or disable the option.

Call alerts

Set options for sounds and vibrations to occur during calls.

- From the **Call settings** screen, touch **Call alerts**. The following options are available:
 - **Call vibrations:** Configure the conditions in which the phone vibrates for different call alerts.
 - **Vibrate on connection to network:** The phone vibrates when it connects to the network.
 - **Call-end vibration:** The phone vibrates when the other caller ends the call.
 - **Call status tones:** Touch this options to enable/disable sounds to play during calls.
 - **Call connect tone:** The phone plays a tone when the other caller answers a call.
 - **Minute minder:** A tone plays once per minute during a call.
 - **Call end tone:** The phone plays a tone when the other caller ends the call.
 - **Alerts on call:** When enabled, alarms and new messages play during phone calls. When disabled, these alerts are muted during a call.

Call accessories

Configure headset options for calls.

- From the **Call settings** screen, touch **Call accessories**. The following options are available:
 - **Headset settings for incoming calls:**
 - **Automatic answering:** When enabled, and a headset is connected to the Headset Jack, incoming calls are automatically answered 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.
 - **Bluetooth headset settings:**
 - **Outgoing call conditions:** When the phone is paired with a Bluetooth headset, you can choose to make calls Even when the phone is locked or Only when the device is unlocked.

Ringtone and sound settings

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:
 - **Ringtones**: Select the ringtone the phone plays to alert you of incoming calls.
 - **Vibrations**: Select the vibration pattern the phone uses to alert you of incoming calls.
 - **Vibrate when ringing**: Touch to enable/disable use of the selected **Device vibration**. When enabled, a check mark displays.
 - **Dial keypad tone**: Touch to enable/disable playing of a tone when you enter numbers with the Phone keypad. When enabled, a check mark displays.

Personalize call sound

This option personalizes the sounds you hear during a call whether or not you are using a headset.

- From the **Call settings** screen, touch **Personalize call sound**. Configure the following options:
 - **In-call sound EQ**: Select the sound quality: **Off**, **Soft sound**, **Clear sound**, **Adapt sound left**, or **Adapt sound right**.
 - **Adapt sound**: Touch this option, then follow the instructions and prompts to set the phone to deliver optimum sound for the left and right headset earphone.

Noise Reduction

Noise reduction suppresses background noise on your side of the conversation during an active call.

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

Increase volume in pocket

When 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.

Voicemail

Configure options for voicemail.

- From the **Call settings** screen, under **Voicemail**, the following options are available:
 - **Voicemail service:** By default, the phone uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it.
 - **Voicemail settings:** By default, the speed dial for calling voicemail (speed dial 1) is set to your phone number. Touch **Voicemail number** if you want to set up another voicemail service.
 - **Sound:** 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**, and configure the following options:
 - **Auto retry:** When enabled, your phone will automatically re-attempt a call when it encounters a network busy signal.
 - **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, that play when you use the keypad during a call, such as when navigating phone menus.
 - **Voice privacy:** When enabled, encrypts your voice calls for enhanced privacy.

Section 6: Entering Text

This section explains how to select the desired text input method when entering characters into the phone. This section also describes the predictive text entry system that reduces the amount of key strokes associated with entering text.

The phone comes equipped with an orientation detector that can tell if the phone is in an upright (Portrait) or sideways (Landscape) orientation. This feature is useful when entering text.

Text Input Methods

There are three text input methods available:

- **Samsung keyboard (default):** Samsung's on-screen QWERTY keyboard is used in both portrait and landscape orientation.
- **Google voice typing:** Enter text by speaking.
- **Swype™ keyboard:** The Swype on-screen keyboard allows you to slide your fingers from letter to letter in order to form words without lifting them as you would when typing text.

To change the input method, see *“Keyboards and Input Methods”* on page 163.

Entering Text Using the Samsung Keyboard

From a screen where you can enter text, rotate the phone counterclockwise to a Landscape orientation. The on-screen QWERTY keyboard displays.



Changing the Text Input Mode Keyboard

There are two main keyboard layout keys that will change the on-screen keys in the QWERTY keyboard.

The available Text Input modes are: **Sym** and **Abc**.

123
Sym

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

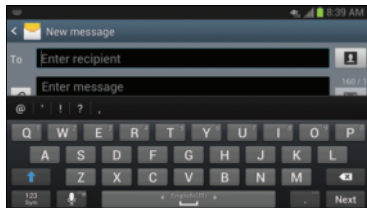
ABC

ABC Mode: Activate 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 displays. When in **Sym** mode, the **Abc/ABC/abc** button displays.

Using ABC Mode

1. If desired, rotate the phone counterclockwise to a Landscape orientation.
2. When you touch the **Enter message** field, the following screen displays:

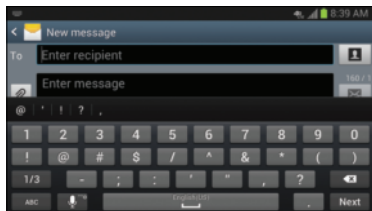


3. Touch the desired alphabetic characters.
4. The screen initially opens in ABC mode. After you type the first letter, the shift key (↑) changes to ↑ and following letters are lowercase.
5. Touch ↑ to input another uppercase letter or touch ↑ twice to switch to ABC mode. The shift key changes to ↑ in ABC mode. All following letters are uppercase until you touch the shift key again.

Using Symbol/Numeric Mode

Use Symbol/Numeric Mode to add numbers, symbols, or emoticons.

1. Rotate the phone counterclockwise to a Landscape orientation.
2. Touch  at the bottom of the screen. The following screen displays:

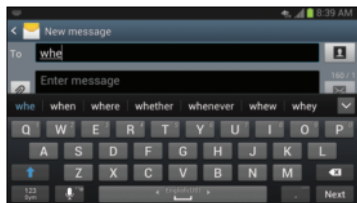


3. Touch the desired number, symbol, or emoticon characters.
4. Touch the  button to access additional symbols.
5. Touch  to return to Abc mode.

Predictive Text

By using the Predictive Text option, you can have next-letter prediction and regional error correction, which compensates for touching the wrong keys on the QWERTY keyboard. Predictive text is turned on by default.

1. To turn Predictive Text on or off, touch  **Apps** → **Settings** → **Language and input**.
2. Touch the  icon next to **Samsung keyboard**.
3. Touch the ON/OFF slider, located to the right of the **Predictive text** field, to .
4. In the text portion of the message screen, begin typing a word. A list of word options display. Touch one of the words to replace the word that was already typed or scroll the line of words to the left for more word choices.
5. Continue typing your message. Touch  to send the message or touch  for more options. (For more information, refer to *“Text and Multimedia Messaging”* on page 75.)

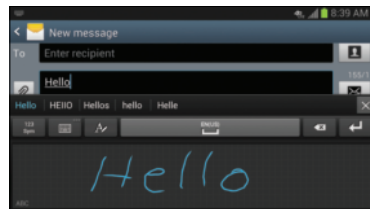


Note: You can also use Predictive Text mode in the portrait orientation.

Entering Text Using Handwriting

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

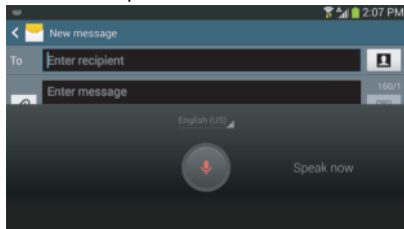
1. From the keyboard, touch and hold , then touch  **Handwriting**.
2. Use your finger tip to write out each character. You can print or use cursive.
3. You can write out the entire message using the Handwriting feature or touch  to switch back to Samsung keyboard mode.



Using the Google Voice Typing Feature

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

1. From the keyboard, touch the top of the screen and drag it down to display your notification panel.
2. Touch **Choose input method**.
3. Touch **Google voice typing**.
4. At the **Speak now** prompt, speak clearly and distinctly into the microphone.



5. If the red microphone turns gray, then the feature has timed out. Touch the microphone icon to start again. The text displays in the message as you speak.

Note: The feature works best when you break the message down into smaller segments.

Samsung Keyboard Settings

For information on how you can configure the Samsung keyboard settings, see “*Keyboards and Input Methods*” on page 163.

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 provides next-letter prediction and regional error correction, which compensates for users touching the wrong keys on QWERTY keyboards.

Enabling and Configuring Swype

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

1. From the keyboard, touch the top of the screen and drag it down to display your notification panel.
2. Touch **Choose input method**.
3. Touch **Swype**. The Swype keyboard displays.

Swype Keyboard Settings

For information on how you can configure the Swype keyboard settings, see “*Keyboards and Input Methods*” on page 163.

Section 7: Messaging

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

Types of Messages

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

Text and Multimedia Messaging

This phone can send and receive text and multimedia messages.

Creating and Sending Messages

1. From the Home screen, touch  **Messaging** →  **Compose**.
2. Touch **Enter recipient** and enter a name, phone number or email address.
– or –
Touch  → **Contacts** to select from one of the following:
 - **Contacts:** Select a recipient from your Contacts list (valid entries must have a wireless phone number or email address).
 - **Groups:** Select a recipient from the Group list.
 - **Favorites:** Select a recipient from the Favorites list.
 - **Recent:** Select a recipient from a list of recently sent messages.

3. If adding a recipient from either Contacts, Groups, Favorites, or Recent, touch the contact(s) (a check mark indicates selection), and touch **Done**. The contact(s) appear in the recipient field.

Note: Delete any unnecessary recipients by touching their name/number in the recipient area and selecting **Delete**.

4. Touch **Enter message**, and use the on-screen keypad to enter a message.
5. While entering the message, use these options (available options depend on attachment):
 -  **Attach** to add media or content to the message (converts the message to MMS).
 -  **Menu** for options:
 - **Insert smiley:** Add a text emoticon to the message.
 - **Add text:** Select text from S Memo, Calendar, Location, Contacts, or Text templates to add.
 - **View contact:** View the contact record.

- **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.)
 - **Scheduling:** Select a date and time for the message to be delivered.
 - **Discard:** To close and delete this message.
6. Touch  to send the message.

Note: If you exit a message before it sends, the message is automatically saved as a draft.

Managing Messages

Messages that 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:
3. Touch and hold a thread to choose options, including:
 - **Delete:** Erase the entire message thread.
 - **View Contact / Add to Contacts:** View the contact record, or save the sender/recipient's information.
 - **Add to spam numbers:** Lists this phone number as a spam number and sends future messages from this number to the Spam messages folder.
4. 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:** Displays a list of drafted messages.

- **Locked messages:** Displays list of messages that are locked to prevent deletion.
- **Scheduled messages:** Displays list of messages scheduled for later delivery.
- **Spam messages:** Displays a list of spam messages.
- **Settings:** Configure Messaging settings.

Message Settings

Configure settings for message storage, delivery, or alerts.

1. From the Home screen, touch  **Messaging**.
2. Touch  **Menu**, and touch **Settings** for options:

General settings:

- **Delete old messages:** When enabled, messages are automatically erased when storage reaches default limits. When 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 pre-loaded text template, or create your own.

Text message (SMS) settings:

- **Delivery reports:** When enabled, you receive a delivery report for text messages that you send.
- **Auto combination:** When enabled, displays multiple-segment messages as a single message.

Multimedia message (MMS) settings:

- **Group messaging:** When enabled, lets you send the same message to multiple recipients.
- **Delivery reports:** When enabled, you receive a delivery report for multimedia messages that you send.
- **Auto retrieve:** When enabled, MMS messages download automatically. When disabled, the phone prompts for download.
- **Roaming auto retrieve:** When enabled, MMS messages download and display automatically when roaming. When disabled, the phone prompts you to download new MMS messages.

- **MMS alert:** When enabled, plays an alert tone when message mode changes from text (SMS) to multimedia (MMS).

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 message threads. Touch a style, then touch **Save**.
- **Use the volume key:** When enabled, you can change the size of message text while viewing by pressing the Volume Key.

Notification settings:

- **Notifications:** When enabled, message alerts display in the Status bar.
- **Select ringtone:** Choose a sound for message alerts.
- **Vibrate:** Configure vibration for message alerts.
- **Message alert repetition:** Sets the number of times to alert you when a new MMS message is received.
- **Preview message:** When enabled, displays a preview of received messages.

Emergency message settings:

- **Emergency Alerts:** This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS), including Presidential Alerts, Imminent Alerts (Severe or Extreme), and AMBER Alerts (missing persons). You may choose not to receive Imminent and AMBER alerts, but Presidential Alerts cannot be disabled. All alerts are enabled by default (a check mark displays). (For more information, refer to “Emergency Alerts” on page 80.)
- **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:** When enabled, vibrates your phone for Emergency Alerts.
- **Alert sound:** When enabled, plays the Emergency notification tone for Emergency Alerts.
- **Alert reminder:** Choose whether, and at what interval, the phone plays a sound to notify you of a Emergency Alert after the Emergency Alert tone has stopped.

Signature settings:

- **Add signature:** When enabled, adds a signature to outgoing messages.
- **Signature text:** Enter the text for your message signature.

Spam message settings:

- **Spam settings:** When enabled, activates the following Spam message settings.
- **Add to spam numbers:** Registers numbers that were blocked when they send you a message.
- **Add to spam phrases:** Register phrases typically used in spam messages.
- **Block unknown senders:** When enabled, blocks messages from senders with “Unknown” numbers.

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 three types of Emergency Alerts:

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

You may choose not to receive Imminent Alerts and AMBER Alerts. Presidential Alerts, however, cannot be disabled. To disable Imminent Threat Alerts (Extreme and Severe) 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 (a check mark displays). Touch an alert to disable it.

Email

Send and receive email using popular email services.

Creating an Email Account

1. From the Home screen, touch  **Email**.
Your accounts screen displays with an Email setup screen displayed.
2. Enter your email address in the **account@example.com** field.
3. Enter your password in the **Password** field.

Tip: If you want to see your password as you type it, touch **Show password** to enable it.

4. Touch **Next**.
5. At the **Account options** screen, select any of the options you want to change or enable/disable.
6. Touch **Next**.
7. At the **Set up email** screen, enter a name for this email account (optional) and/or enter your name as you want it to appear in your outgoing messages.
8. Touch **Done**.

Creating a Microsoft Exchange Email Account

Use the following procedure to configure your phone to synchronize with a Microsoft Exchange email account.

1. From the Home screen, touch  **Menu** → **Settings** →  **Accounts** → **Add account** → **Microsoft Exchange ActiveSync**.

The **Add an Exchange ActiveSync account** screen appears.

2. Enter your email address in the **account@example.com** field.
3. Enter your password in the **Password** field.

Tip: If you want to see your password as you type it, touch **Show password** to enable it.

4. Touch **Manual setup** or **Next** (for automatic setup).
5. The **Exchange server settings** screen displays.
6. As needed, change or enter the Exchange server information for your account, then touch **Next**.
7. Follow the prompts to activate server communication functions, such as security, as required.

8. At the **Account options** screen, select any of the options you want to change or enable/disable.
9. Touch **Next**.
10. At the **Set up email** screen, enter a name for this email account (optional).
11. Touch **Done**.
12. Press  **Home** to return to the Home screen, then touch  **Email**.

Tip: If your Exchange ActiveSync account inbox does not appear, see “*Switching Between Email Accounts*” on page 82.

Creating Additional Email Accounts

To create additional email accounts after setting up your first account, follow these steps:

1. From the Home screen, touch  **Email**.
Your Email screen displays showing your emails from the active account.
2. Touch  **Menu** → **Settings** → **Add account**.
3. Enter the information required to set up another account. (For more information, refer to “*Creating an Email Account*” on page 80.)

Switching Between Email Accounts

1. From the Home screen, touch  **Email**.
Your Email screen displays showing your emails from the active account.
2. Touch the Inbox button  at the top of your screen that displays the optional name (such as Work, Personal and so on) you assigned to your email account. Your Email accounts screen displays.

3. Touch the Email account Inbox you want to access.

Tip: You can also select **Combined inbox** to list email messages from all of your accounts.

4. The new Email account displays.

Composing and Sending Email

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

Managing Emails

Refreshing Your Email Account

Refresh your account to update the phone from the servers.

1. From the Home screen, touch  **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, touch  **Email**.
2. Touch  **Menu**, then touch **Settings**.
3. Touch an account name to set options.

Gmail

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

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

Setting Up Your Gmail Account

The first time you launch Gmail, the phone prompts you to set up your Google Account, unless you have already set up a Google Account during set up of your phone (see “*Got Google?*” on page 15).

1. From the Home screen, touch  **Apps** →  **Gmail**.
2. Touch **New** to create a new account, or **Existing** to sign in to a created 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 the 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 the phone.

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

Hangouts

Hangouts is a free Windows- and web-based application for instant messaging offered by Google. Conversation logs are automatically saved to a Chats area in your Gmail account. This feature allows you to search a chat log and store them in your Gmail accounts.

1. Log on to your Google Account if you have not already done so. (For more information, refer to “*Got Google?*” on page 15 and “*Adding an Account*” on page 44.)
2. From the Home screen, touch  **Apps** →  **Hangouts**.
3. Begin using Hangouts.
4. Touch  **Menu** → **Help** for more information on using Hangouts.

Note: The Network confirms your log-in. This process could take up to 5 minutes to complete.

Google+

Google+ makes messaging and sharing with your friends a lot easier. 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. Sign on to your Google Account. (For more information, refer to “Got Google?” on page 15 and “Adding an Account” on page 44.)
2. From the Home screen, touch  **Apps** →  **Google+.**
3. Select the account you want to use to sign in to Google+.
– or –
Touch **Existing** and sign in, or touch **New** and create a new account.
4. Follow the on-screen instructions to use Google+.
5. Visit google.com/mobile/+/ for more information.

Voice Recorder

The Voice Recorder allows you to record an audio file up to one minute long and then immediately share it using AllShare Play, Messaging, Gmail, or Bluetooth. Recording time varies based on the available memory within the phone.

1. From the Home screen, touch  **Apps** →  **Voice Recorder.**
2. To start recording, touch  **Record** and speak into the microphone.
3. During the recording process you can either touch  **Stop** to stop and save the recording or  **Pause** to temporarily halt the recording. After pausing, touch  **Record** to resume recording.
4. Once the audio recording has stopped, the message is automatically saved. Touch  **Cancel** to cancel the recording without saving.
5. Touch  **List** to display a list of all your voice recordings.
6. Touch a voice recording to play it.

7. Touch and hold a voice recording for these options:

- **Share via:** Share your recording using Bluetooth, Drive, Email, Gmail, Messaging, or Wi-Fi Direct.
- **Delete:** Delete the voice recording.
- **Rename:** Rename your voice recording.
- **Set as:** Set the voice recording as a Phone ringtone, Caller ringtone, or Alarm tone.
- **Details:** View details of the voice recording, such as Name, Last modified time, Location, Duration, and Size.

8. While viewing the list of voice recordings, touch



Menu and select from the following options:

- **Share via:** Select and share your recording(s) using Bluetooth, Dropbox, Email, Gmail, Group Play, Messaging, or Wi-Fi Direct.
- **Delete:** Delete 1 or more voice recordings. Select the recordings to delete and touch **Delete**.
- **Settings:** The following settings are available:
 - **Storage:** Select where your recordings are saved. Selections are **Phone** or **Memory card**.
 - **Recording quality:** Set the recording quality to **High** or **Normal**.

- **Limit for multimedia messages:** Select On or Off. Selecting On limits the message size so the recording size attaches to an MMS message.

- **Contextual filename:** Creates filenames based on your location using a GPS tag when connected to a network.

- **Default name:** Select the name prefix for recordings. For example, if your Default name is Voice, your recordings would be named Voice 001, Voice 002, and Voice 003.

- **Noise reduction:** When set to On, reduces background noise being recorded.

- **Recording volume:** Select High or Low.

- **Skip interval:** Select 10 sec., 30 sec., or 60 sec.

- **End:** Exit the Voice Recorder app.

9. While viewing the main Voice Recorder screen, touch



Menu and select from the following options:

- **Settings:** Configure Voice Recorder options.

- **End:** Exit the Voice Recorder app.

Section 8: Multimedia

Music

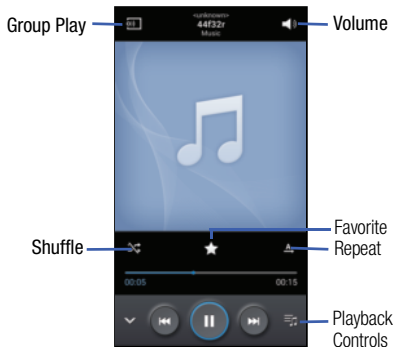
The Music application can play music files. The Music app supports files with extensions AAC, AAC+, eAAC+, MP3, and WMA. Launch Music to navigate through your music library, play songs, and create playlists (music files bigger than 300 KB display).

Playing Music

1. From the Home screen, touch  **Apps** →  **Music**.
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.

Tip: To play music in background, press  **Home**. The Music app screen closes and playback controls display on Notifications (see “Notifications” on page 32).

Music controls



The following Music controls are available:

-  **Pause** the song.
-  **Start** the song after pausing.
-  Touch and hold to **rewind** the song. Touch to go to previous song.



Touch and hold to **fast-forward** the song. Touch to go to next song.



Group Play: Share playback of a song with other, available Digital Living Network Alliance (DLNA) certified devices. (See “*Group Play*” on page 113.)



Control the **volume**.



Shuffle On: Randomly shuffle the current list of songs for playback.



Shuffle Off: Play songs in the listed order.



Favorite: Touch to add this song to the Favorites playlist. (Star changes color to )



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.



Reduced display: Reduces playback display to include the current song list.



Music List: Return to the current playlist.

Music options and settings

To access additional options, follow these steps:

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch  **Menu** and select from the following options (options vary depending on activity):
 - **Via Bluetooth:** Scan for devices and pair with a Bluetooth headset.
 - **Play via Group Play:** Share playback of this music file with other Group Play devices. (See “*Group Play*” on page 113.)
 - **Add to playlist:** Add the current music file to a playlist.
 - **Set as:** Assign this music file as the Phone ringtone, a Caller (Contact) ringtone, or an Alarm tone.
 - **Settings:** Change the following Music settings:
 - **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.
 - **SoundAlive:** Select music 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 auto off:** Activate to turn off music automatically after a set interval.
- **Lyrics:** Activate to display the song's lyrics, if available.
- **Smart volume:** When enabled, automatically adjust each track's playback volume to an equal level.
- **Voice control:** When enabled, use S Voice commands to control the Music app.
- **Details:** View file information list (Artist, Title, Album, Track length, Genre, Track number, Format, Bit depth, Sampling rate, Size, and Location).
- **End:** Close the Music application.

Music file options

1. From the Home screen, touch  **Apps** →  **Music**.
2. If needed, touch  **Music list**.
3. Scroll through the list of songs and touch and hold on an entry to access the following options:
 - **Delete:** Delete this music file from your phone.
 - **Add to playlist:** Add this music file to a playlist.
 - **Set as:** Assign this music file as the Phone ringtone, a Caller (Contact) ringtone, or as an Alarm tone.
 - **Details:** View file information list (Artist, Title, Album, Track length, Genre, Track number, Format, Bit depth, Sampling rate, Size, and Location).

Using Playlists

Playlists are used to assign songs to a list of preferred media that can then be grouped into a list for later playback. These Playlists are created using either the handset's Music Player options menu or from within a 3rd party music application (such as Windows Media Player) and then downloaded to the handset.

Creating a Playlist

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch  **Playlists**.
3. Touch  **Menu** → **Create playlist**.
4. Enter a name for this playlist in the field and touch **OK**.

Adding Music to a Playlist

To add files to the playlist:

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch  **Playlists**.
3. Touch the playlist name in which to add music.
4. Touch  **Menu** →  **Add**.
5. Touch a music file, or touch **Select all** to add all the music tracks to this playlist then touch **Done**.

Removing Music from a Playlist

To remove music files from a playlist:

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch  **Playlists**.
3. Touch the playlist name in which to delete music.
4. Touch  → **Remove**.
5. Touch the checkbox to the left of each track that you want to remove from this playlist, or touch **Select all** to remove all the music tracks from this playlist.
6. Touch **Remove**.

Editing a Playlist Name

Besides adding and removing music files in a playlist, you can also rename the playlist.

To edit a playlist:

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch  **Playlists**.
3. Touch  **Menu** → **Edit title**, and touch the playlist you want to rename.
4. In the **Edit title** pop-up, enter a new name for the playlist, and then touch **OK**.

Note: For information on downloading music for the phone, see *“Connecting as a Storage Device”* on page 138.

Setting a Song as a Ringtone

You can set a song as a ringtone for all voice calls, for calls from an individual contact, or as an alarm tone.

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch and hold on a song; then touch **Set as** and choose from these options:
 - **Phone ringtone:** Set the song as the default ringtone for all incoming voice calls.
 - **Caller ringtone:** Choose a contact to set the song as the ringtone for calls from the contact.
 - **Alarm tone:** Set the song as the alarm ringtone for a new alarm, or for an existing alarm.

Video

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

1. From the Home screen, touch  **Apps** →  **Video**.
2. Video Player scans for videos stored in phone memory, or on an installed memory card, and displays your videos on the **Thumbnails**, **List**, and **Folders** tabs.
3. Touch a video to play. While playing, touch the screen to display or hide on-screen playback controls:



Group Play: Share playback of a song with other, available Digital Living Network Alliance (DLNA) certified devices. (See “*Group Play*” on page 113.)



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



Full-screen in ratio view: The video is enlarged as much as possible without becoming distorted.



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



Original size view: The video plays in its original size.



Maximu diagonal view: The video plays in its original size.



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



Pause: Pauses playback.



Play: Plays the video.



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



Pop-up Player: The video plays in a small window so you can use the phone for other purposes while watching the video from the front screen instead of in the player. Double-tap the smal window to return to the player and normal size.

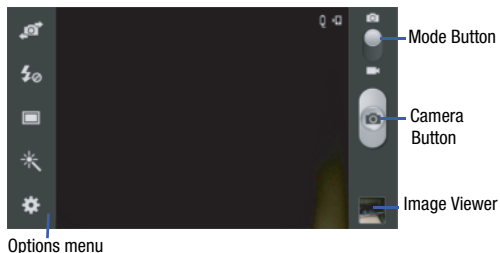
Note: The screen view icons (, , , and ) are a four-way toggle. The displayed icon indicates the mode used after you touch the icon.

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

Camera

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

- From the Home screen, touch  **Apps** →  **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 Home screen, touch  **Apps** →  **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 94.
3. Touch the **Camera** button () to take the picture.

4. After taking a picture, touch **Image Viewer** to view the picture. While viewing the picture, use these options:



Change player: displays this picture on other, available Digital Living Network Alliance (DLNA) certified devices. (See “Group Play” on page 113.)



Share via: send the picture using Group Play, Dropbox, Flipboard, Picasa, or See all (for more options).



Edit: launches Photo Editor application. The first time you touch **Edit**, you are prompted to download Photo Editor onto your device.



Delete to erase the picture (only visible with the screen in landscape mode).

You can also “Pinch” the screen, or touch the zoom icons, to zoom in or out, or double-touch to zoom all the way in or out.

5. Touch  **Menu** to access added options: **Favorite**, **Slideshow**, **Photo frame**, **Photo note**, **Copy to clipboard**, **Print**, **Rename**, **Buddy photo share**, **Rotate left**, **Rotate right**, **Crop**, **Get directions**, **Set as** (Contact photo, Home and/or Lock screen wallpaper), **Details**, or **Settings** (Accounts, SNS data management, Tags, and/or Sound & shot).

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 shot:** The camera automatically selects the best of 5 photos to save.
- **Best face:** The camera automatically selects the best facial shot out of 5 shots to save.
- **Sound & shot:** Record sound to play when viewing a picture.

- **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:** Use face recognition from pictures in your contacts to send your friends or family pictures of themselves.
- **Beauty:** Adjust 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:** Adjust the exposure to take better photos in low light conditions.



Color effects: Choose color theme for the photo: 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

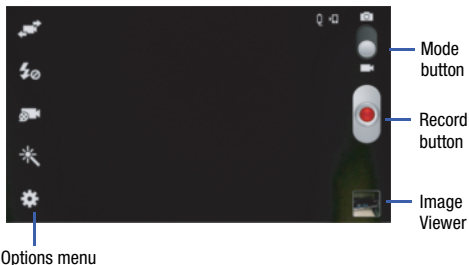
- **Edit shortcuts:** Select which function shortcuts display in the function menu.
- **Burst shot:** Automatically take multiple pictures in a row instead of a single picture.
- **GPS Tag:** Add GPS location information to photo details.
- **Self-portrait:** Set the front camera so you can take pictures 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.
- **Auto contrast:** Allow automatic light/dark adjustment.
- **Guidelines:** Enable or disable an on-screen grid to aid in photo composition.
- **Auto share shot:** Allows you to share photos quickly with other enabled devices by simply bringing them together (typically back to back).
- **Anti-Shake:** Minimize the effect of camera movement.
- **Contextual filename:** Set the video file name to a name describing the video content or location (e.g., South Padre Beach).
- **Voice control:** Lets you take photos by saying “Capture”, “Shoot”, “Smile”, or “Cheese”.
- **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 Home screen, touch  **Apps** →  **Camera** →  **Mode**.



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 Home screen, touch  **Apps** →  **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 98.
3. Touch the  **Record** button to start recording.
4. Touch  **Pause** to Pause the camcorder.
5. Touch  **Stop** to stop recording.
6. Touch **Image Viewer** to view the video after recording.

7. While viewing the video, use these options:

Pinch the screen to zoom in or out.



Play to review the video.



Favorite to mark this video as a Favorite.



Share via to send the video.



Delete to erase the video.

8. Touch  **Menu** to mark the video as a Favorite, to play the video as part of a Slideshow, to rename the video, to view details about the video, or to access Image Viewer settings (see “Taking Pictures” on page 93).
9. Touch  **Back** to return to the Camcorder to record more videos.

Camcorder Options

Configure the camcorder.

1. From the Home screen, touch  **Apps** →  **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: Negative, Sepia, Black and white, Cartoonify, Washed out, Red-yellow point, Blue point, Green point, Solarize, Posterize, Warm vintage, Cold vintage, or No effect.



Settings

- **Edit shortcuts:** Select which function shortcuts display 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.

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.

Note: You can increase Gallery photo and video storage by installing a memory card. For more information, see *“Installing a Memory Card”* on page 7.

1. From the Home screen, touch  **Apps** →  **Gallery**.

All of the Albums that hold your pictures and videos display with folder name(s) and number of files.

Note: If your device indicates that memory is full when you access Gallery, delete some of the files by using **My files** or another file management application and try again. For more information, refer to *“My Files”* on page 116.

2. Touch an Album and thumbnails of the contents display.

Viewing Pictures

1. From the Home screen, touch  **Apps** →  **Gallery**.
2. Select an album, then touch a picture to view it.
3. While viewing a picture, touch on the screen or touch  **Menu** for options.



Change player: displays this picture on other, available Digital Living Network Alliance (DLNA) certified devices. (See *“Group Play”* on page 113.)



Share via: send the picture using Group Play, Dropbox, Flipboard, Picasa, or See all (for more options).



Delete to erase the picture (only visible with the screen in landscape mode).



Camera: launches the Camera. (See *“Camera”* on page 93.)

4. Touch  **Menu** for the following additional options:
 - **Edit:** Edit the picture using the downloadable Photo Editor app.
 - **Favorite:** Mark the picture as a Favorite.
 - **Slideshow:** View a slideshow of your photos and videos.

- **Photo frame:** Apply a selected frame to this picture.
- **Photo note:** Add a note to the back of this picture.
- **Copy to clipboard:** Create a copy, to paste into other apps.
- **Print:** Print the picture using Wi-Fi to a compatible Samsung printer.
- **Rename:** Change the picture's filename.
- **Buddy photo share:** Send the picture to the Contacts whose Contact photos match faces in the picture.
- **Rotate left:** Rotate the image 90 degrees counter-clockwise.
- **Rotate right:** Rotate the image 90 degrees counter-clockwise.
- **Crop:** Select a portion of the picture to retain and discard the rest.
- **Get directions:** When enabled, adds Weather, Location, Person, and Date information to the photo.
- **Set as:** Assign the picture as a Contact photo, or as wallpaper.
- **Details:** View information about the picture.
- **Settings:** Select values for Accounts, SNS data management, Tags, and/or Sound & shot.

Viewing Videos

1. From the Home screen, touch  **Apps** →  **Gallery**, and select an album. A matrix or list of available videos displays.
2. To play a video, touch its thumbnail or list entry.
3. After touching a video thumbnail, touch on the screen or touch  **Menu** for options.



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



Trim: Remove unwanted frames from this video.



Delete: Erase this video.

4. Why playing a video, touch  **Menu** for the following additional options:
 - **Share via:** Send the video using Bluetooth, Email, Gmail, Google+, Picasa, Wi-Fi Direct, or YouTube.
 - **Chapter preview:** Displays matrix of video frames.
 - **Trim:** Remove unwanted frames from this video.

- **Via Bluetooth:** Send a copy of this video to another Bluetooth-capable device.
- **Video auto off:** When enabled, ends the Video app when playback of this video ends.
- **Settings:** Select values Mini controller, Brightness, Capture, Play speed, SoundAlive, Subtitles (CC), and/or Tag buddy.
- **Details:** View details 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 136.)

Google Play Books

Google Books is now Google Play Books. With Google Play Books, you can shop the world's largest selection of ebooks and read them anywhere you like—on a phone, phone, e-reader, or the Web.

1. From the Home screen, touch  **Apps** →  **Play Books**.
2. Sign on to your Google Account. (For more information, refer to “Got Google?” on page 15 and “Adding an Account” on page 44.)
3. Follow the on-screen instructions for using the Play Books application.

Google Play Magazines

Google Play Magazines is a subscription service where you can shop a wide selection of titles, from cooking to technology, travel, fashion, sports, photography, and more.

1. From the Home screen, touch  **Apps** →  **Play Magazines**.
2. Sign on to your Google Account. (For more information, refer to “Got Google?” on page 15 and “Adding an Account” on page 44.)
3. Follow the on-screen instructions for using the Play Magazines application.

Google Play Movies & TV

With Google Play Movies & TV, you can rent or purchase thousands of movies and TV shows. You can watch instantly or download your movie or TV show for offline viewing at a later time.

1. From the Home screen, touch  **Apps** →  **Play Movies & TV**.
2. Sign on to your Google Account. (For more information, refer to “Got Google?” on page 15 and “Adding an Account” on page 44.)
3. Following the on-screen instructions for renting and viewing movies.
4. Touch the **My Movies** tab to view movies that you have purchased or rented.
5. Touch the **My TV Shows** tab to view tv shows that you have purchased.
6. Touch the **Shop** tab to launch Play Store and browse for desired **MOVIES** and **TV**.
7. Touch  **Menu** for additional options.

Google Play Music

With Google Play Music, you can play music that you have added to your music file. While offline, you can listen to your music.

1. From the Home screen, touch  **Apps →**
 **Play Music.**
2. Music Player scans for songs stored in phone memory, or on an installed memory card, and displays your songs on the **My Library**, **Playlists**, or **Instant Mixes** tabs.
3. Touch a music file to begin playback.
4. Touch  **Menu** for the following options:
 - **Refresh:** Synchronize your music folders with the Google Play Music server.
 - **Settings:** View Open source licenses and the music version for the Play Music application.
 - **Help:** View a help file on the Google Support website.

YouTube

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

1. From the Home screen, touch  **Apps →**
 **YouTube.**
2. Follow the on-screen instructions for using the YouTube application.

Section 9: 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.

Tip: To open applications quickly, add the icons of frequently-used applications to one of the Home screens. (For details, see “*Customizing the Home Screen*” on page 37.)

You can also add an application icon as a Primary Shortcut that displays on all Home screens. If you add an application as a primary shortcut, the application icon does not display in the Apps menu. (For more information, refer to “*Editing the Primary Shortcuts*” on page 38.)

Accessing Applications

1. Press  **Home**, touch  **Apps**, then touch the **Apps** tab. The **Apps** screen displays on the screen.
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 Screens

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.

1. From the **Apps** screen, touch  **Menu** → **View type**. The available options are:
 - **Customizable grid:** Arrange application icons in the order you prefer, including organizing them into folders.
 - **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 Home screen, touch  **Menu** → **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.

1. From the Home screen, touch  **Menu**, then touch **Hide applications**.
2. Mark those applications you do not want to appear on the **Apps** screen by touching their icons (check marks appear in their check boxes).
3. Touch **Done**. The **Apps** screen displays without the hidden applications.

Creating Application Folders

You can create application folders to hold similar applications if you wish.

To create a folder follow these steps:

1. From the **Apps** menu, touch  **Menu** → **Create folder**.
2. Enter a folder name and touch **OK**. The new folder displays on the **Apps** menu.
3. Touch  **Menu** → **Edit**.
4. Touch and hold an application that you would like to move to a folder.

The folder icon displays with the application icon displayed on top of it.

5. Repeat step 4 to add additional apps to the folder.
6. To view information on an application, touch and drag the application shortcut up to the **Info**  icon.
7. Touch **Save**.

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 38.

1. From the Home screen, touch  **Calendar**.
— or —
From the **Apps** screen, touch  **Calendar**.
2. Touch one of the following tabs 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 left or right across the screen to view other days, or weeks.
 4. Swipe up or down the screen to view other events.
 5. Use the on-screen keyboard to enter a search term. Possible events display as you type.

6. 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**, then touch **Settings** to configure these settings:
 - **View settings:**
 - **View styles:**

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:** When enabled, sets 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, then 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 **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 127.

Camera

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

- From the Home screen, touch  **Camera**.
— or —
From the **Apps** screen, touch  **Camera**.

For more information, refer to “*Camera*” on page 93 and “*Camcorder*” on page 97.

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 touch **Accept and Continue**.
3. If you have an existing Chrome account, touch **Sign in** to bring your open tabs, bookmarks, and omnibox data from your computer to the phone, otherwise touch **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 clock:** 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 displays 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**.
— or —
From the **Apps** 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 using  **Play Store** are also managed with that app, and do not appear in the **Downloads** list.

Drive

Drive is a “cloud” file storage service. The Drive app lets you save files to your drive account and access them from multiple devices. You can also copy your files to a device for off-line access.

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

Email

Send and receive email using popular email services. (For more information, see “*Email*” on page 80.)

- From the Home screen, touch  **Email**.
– or –
From the **Apps** screen, touch  **Email**.

G+ Photos

G+ Photos allows you to share your photos more easily using the Google+ application.

1. Sign on to your Google account. (For more information, refer to “*Got Google?*” on page 15 and “*Adding an Account*” on page 44.)
2. From the **Apps** menu, touch  **G+ Photos**.
3. Follow the on-screen instructions to use G+ Photos.

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.

For more information, refer to “*Gallery*” on page 100.

Note: You can increase Gallery photo and video storage by installing a memory card. For more information, see “*Installing a Memory Card*” on page 7.

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

Game Hub

Provides a premium one-stop service center that let's you play, connect, and share games on compatible Samsung Android devices.

1. From the **Apps** screen, touch  **Game Hub**.
2. Read the on-screen disclaimer and tap **Confirm**.
3. Follow the on-screen instructions and navigate to your favorite games and services.

Gmail

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

For more information, see “*Gmail*” on page 83.

- 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 “*Widgets*” on page 38.

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

Google Settings

As Google has become more intertwined with other applications, this menu provides a quick and ready access point to configure preferences for Google+, Maps & Latitude, Locations, and so on. You can also use the Search function to initiate a Google Search from this menu.

1. From the **Apps** menu, touch  **Google Settings** and select an on-screen option.
2. Touch one of the Google Settings options.
3. Follow the on-screen prompts to modify your 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+.

For more information, refer to “Google+” on page 85.

- From the **Apps** menu, touch  **Google+.**

Group Play

Using Group Play, you can share documents or photos you are viewing, or music you are listening to, with other Digital Living Network Alliance (DLNA) certified devices connected to the same Wi-Fi network with your device.

1. From the **Apps** menu, touch  **Group Play.**
The **Welcome to Group Play!** screen displays.
2. For instructions on using Group Play, touch **Next.**

Hangouts

Hangouts is a free Windows and 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.

For more information, refer to “Hangouts” on page 84.

1. From the **Apps** menu, touch  **Hangouts.**

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** menu, touch  **Help**.
The **Help** screen displays.
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.

(For Internet browser usage information, see “*Internet*” on page 130.)

Internet browser options and settings

1. From the Home screen, touch  **Internet**.
— or —
From the **Apps** menu, touch  **Internet**.
2. Touch  **Menu** and select from these options:
 - **New window**: Displays a new window so you can browse multiple URLs. (For more information, refer to “*Using Browser Windows*” on page 131.)
 - **Add bookmark**: Lets you add a URL to your bookmark list
 - **Add shortcut to home screen**: Lets you add a shortcut to your Home screen.
 - **Share page**: Lets you share the page using Gmail or as a message.
 - **Find on page**: Allows you to search in the current page.

- **Desktop view:** Allows you to assign the browser to display the current page in the desktop view (to closely mimic the display as it would display on a desktop computer).
- **Save for offline reading:** Allows you to store the current page in memory to read later even if you lose your Internet connection.
- **Brightness:** Allows you to adjust the brightness of the display.
- **Downloads:** Displays the download history.
- **Print:** Lets you print the screen or web page on a Samsung printer using Wi-Fi Direct.
- **Settings:** Lets you tailor the Internet browser to suit yourself.

KNOX

Samsung KNOX is a comprehensive enterprise mobile solution for use with both work and play. This application must be downloaded to the device before use.

1. From the **Apps** menu, touch  **KNOX**.
2. Touch **OK** and follow the on-screen instructions.

Maps

Use Google Maps to find your current location, get directions, and other location-based information. The Google Maps shortcut displays 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 178.)

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

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 75.)

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

– or –

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

Music

Music is an application that can play music files. Music supports files with extensions AAC, AAC+, eAAC+, MP3, and WMA. Launching Music lets you navigate through your music library, play songs, and create playlists (music files bigger than 300 KB display).

(For more information, refer to “*Music*” on page 87.)

- From the **Apps** menu, touch  **Music**.

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** menu, touch  **My Files**.
2. Touch 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.



Menu for options.

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 the Home screen, touch  **Phone**.

– or –

From the **Apps** menu, touch  **Phone**.

Play Books

Google Books is now Google Play Books. With Google Play Books, you can shop the world's largest selection of ebooks and read them anywhere you like—on a phone, phone, e-reader, or the Web.

For more information, refer to “*Google Play Books*” on page 102.

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

Play Games

Play Games allows you to discover new games and to unify your gaming activities.

Note: Play Games requires that you have or create a Google+ profile.

- From the **Apps** menu, touch  **Play Games**.

Play Magazines

Google Play Magazines is a subscription service where you can shop a wide selection of titles, from cooking to technology, travel, fashion, sports, photography, and more. Buy new issues or back issues, subscribe and get free 14 or 30-day trials, and customize your reading experience for the phone.

For more information, refer to “*Google Play Magazines*” on page 103.

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

Play Movies & TV

With Google Play Movies & TV, you can rent or purchase thousands of movies and TV shows. You can watch instantly or download your movie or TV show for offline viewing at a later time.

For more information, refer to “*Google Play Movies & TV*” on page 103.

- From the **Apps** menu, touch  **Play Movies & TV**.

Play Music

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

For more information, refer to “*Google Play Music*” on page 104.

- From the **Apps** menu, touch  **Play Music**.

Play Store

Discover the 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 Home screen, touch  **Play Store**.
– or –
From the **Apps** menu, touch  **Play Store**.
2. The first time you open Google Play Store, read the Terms of Service, then touch **Accept** to continue.
3. Browse for applications to download, then follow the prompts.

S Memo

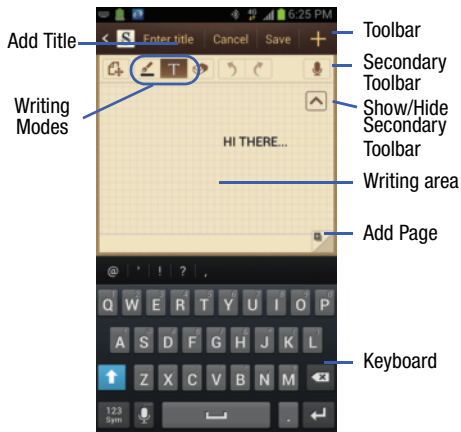
The S Memo application allows you to create memos using the keypad, your finger, or both. You can add images, handwriting, voice recordings, and typewritten text all in one place.

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

Touch  to start a new memo in text mode with the keypad displayed or touch  to start a new memo in drawing mode using your finger or an optional compatible stylus, such as the [Samsung Galaxy S III C Pen](#). You can change back and forth in a memo to add text with the keypad and the stylus.



The icons that you see displayed on the screen are described in the following table:

- | | |
|---|--------------------------|
|  | Add a new memo. |
|  | 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  to access the following options:

- **Rename:** Change the current memo title.
- **Share via:** Share your memo using Group Play, Dropbox, Flipboard, Picasa, Paper Artist, 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 touch **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, Lock screen wallpaper, or Home and lock screens.
- **Print:** Print the screen or web page on a Samsung printer using Wi-Fi.

4. When you have finished creating your memo, touch **Save** on the top menu bar.

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

S Voice

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

1. From the **Apps** menu, 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 Vlingo Terms of Service then touch **Agree** to continue.
4. Read the information on the **About S Voice** screen, then touch **Next**.
5. Read the information on the **Say what you want** screen, then touch **Next**.
6. Read the information on the **Wake up S Voice** screen, then touch **Next**.
7. Read the information on the **Edit what you said** screen, then touch **Next**.
8. Read the information on the **Help** screen, 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 “*Samsung Account*” on page 14.)

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

Samsung Link

This application wirelessly synchronizes your device with your TV, streams content and even keeps tabs on who calls or sends text messages with real-time, on-screen monitoring. Samsung Link makes staying connected easy.

Allows users to share their in-device media content with other external devices using DLNA certified™ (Digital Living Network Alliance) Devices. These external devices must also be DLNA-compliant. Wi-Fi capability can be provided to TVs using a digital multimedia streamer.

Important! Your Samsung account manages the access information (username/password) to several applications, such as Samsung Link.

AllShare/Samsung Link Definitions:

Samsung Link/ AllShare Play

This new feature builds on the previous AllShare Play functionality. It includes features such as Web storage integration and social networking integration. This is a Web service that requires using a Samsung account.

Group Play

A subset feature of Samsung Link, this allows you to mirror photos and multimedia presentations with other members of your current Wi-Fi group. Users must be on the same Wi-Fi and provide an access code to join the group.

AllShare Cast (with Hub accessory)

This feature functions with an external AllShare Cast Hub to fully mirror what is currently displayed on your device to the external TV.

Important! You must connect both of your communicating devices to the same Wi-Fi and use an active/registered Samsung account prior to using this application.

For more information, refer to “*Wi-Fi Settings*” on page 142.

For more information, refer to “*Add account*” on page 170.

1. Confirm you have already logged in to your Samsung account.
2. From the **Apps** menu, touch  **Samsung Link**.
3. If prompted with an on-screen notification about no Wi-Fi detected, touch **Cancel** (to continue by using your network connection) or **Connect** to continue.
4. Touch **Sign in**.
5. If prompted to log into your Samsung account, touch **Sign in** and follow the on-screen instructions.

Note: If the main screen still shows a **Sign in** box, close the application and restart it.

6. Follow the on-screen prompts.
7. Touch  to reveal the **DEVICES & STORAGE** list, scroll down the screen. The **DEVICES & STORAGE** list contains two separate streaming media options:
 - **Registered devices** allows you to stream/share selected multimedia content from your device to DLNA compliant device connected to the same Wireless Access Point.

- **Registered storage:** allows you to receive and playback media stored externally (server, laptop, and so on) directly on your device by allowing you to add a Web storage service for streaming content.

Configuring Samsung Link Settings

The Samsung Link application must first be configured prior to its initial use. You must setup parameters such as connected Wi-Fi, Items to share, source server address, and external device acceptance rights.

1. From the **Apps** menu, touch  **Samsung Link**.
2. Touch  and then touch **Settings** and configure the following settings as desired:
 - **Registered storage:** allows you to add a Web storage location. Without a storage service/location added, you cannot use Samsung Link.
 - **Save to:** allows you to save your media to your internal phone memory or to an SD card.
 - **Auto upload:** allows you to enable automatic upload of images from your device to those storage locations specified within the Web storage list. Move the slider to the on position to activate the feature.

- **Video optimization:** allows you to setup the video quality for streamed video content. Move the slider to the on position to activate the feature.
- **Password lock:** allows you to restrict access to Samsung Link by requiring a user enter the currently active and associated Samsung account password. Move the slider to the on position to activate the feature.
- **My account:** displays Samsung account information.
- **Customer support:** allows you to contact the Samsung Link team using a new email from an available email account.
- **About this service:** displays application information.

Setting Up Web Storage

Web storage services allow you to use storage space to store your files and share them on the “Cloud”.

Note: If you are using another Web storage service, log into that service first before using Samsung Link.

1. From the **Apps** menu, touch  **Samsung Link**.
2. Touch   → **Add storage**.

Note: When adding storage, an N Drive is added.

3. Choose from: SugarSync, Dropbox, or SkyDrive.
– or –
Touch  → **Settings** → **Registered storage** → **Add storage**.
4. Follow the on-screen instructions to register or log into your cloud service.
5. Once the process is successfully completed, the Web storage icon or name appears in the Web storage area of the main screen.
6. From the main screen, select a connected device and then touch on the media that you would like to share.
 - A file with  in the upper-left indicates it is stored remotely on a Web storage location. Selecting this media causes your device to access the file currently stored on your services' servers.

To de-register Web storage service:

1. From the Samsung Link application, touch  and then touch **Settings** → **Registered storage**.
2. Select **Delete** → **Delete**.
3. Select a current storage service and touch **OK**.

Sharing Media over Samsung Link to a Target Device

Important! Make sure all communicating devices are connected to the same Wi-Fi.

1. Launch AllShare Play/Samsung Link on the target device (such as an Internet TV, Samsung tablet, and so on).
 2. From the **Apps** menu, touch  **Samsung Link**.
-

Note: You must be signed in to your Samsung Account before you can use this feature.

3. Touch  and select your device name from the **Registered devices** area.
4. Touch an available category tab (Pictures, Music, Movies, Files, or Info) and select a file.
 - A file with  in the upper-left indicates it is stored remotely on a Web storage location. Selecting this media causes your device to access the file currently stored on your services' servers.
5. Touch an available on-screen file, image, or video to place a green check mark alongside it.

6. Touch  **Stream to connected devices** and select an available target device to begin streaming.
 7. On a target device (ex: Internet TV) select the on-screen **Allow** button to continue.
-

Note: At this stage your device is requesting access to share media with the external source.

8. Confirm  **Samsung Link Controller enabled** appears in the Notification area at the top of the device to indicate you are using your device as the media source.

Settings

Tailor your phone to your preferences.

For more information, see “*Settings*” on page 140.

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

Video

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

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

- From the **Apps** menu, touch  **Video**.

Voice Recorder

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

For more information, refer to “Voice Recorder” on page 85.

- From the **Apps** menu, 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** menu, 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**.

YouTube

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

1. From the **Apps** menu, touch  **YouTube**.
2. Follow the on-screen instructions for using the YouTube application.

Accessing Widgets

1. Press  **Home**, then sweep your finger right or left to scroll to a particular Home screen panel.
2. Touch  **Apps → Widgets** tab. The **Widgets** screen appears.
– or –
Touch and hold on the displayed Home screen panel until the **Home screen** menu pops-up, then touch **Apps and widgets → 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, then position the widget on the Home screen panel.
5. If needed, follow any prompts to configure the widget.

Section 10: Connections

This section describes the various connections the phone can make, including Wi-Fi, Bluetooth, accessing the Internet with your Browser, and Connecting your PC.

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).

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

Configuring Wi-Fi Settings

Configure the phone's Wi-Fi settings. (For more information, see *“Wi-Fi Settings”* on page 142.)

Turning Wi-Fi On or Off

When you turn Wi-Fi service on, the 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, swipe 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 Wi-Fi Off.

Scanning and Connecting to a Wi-Fi Network

1. Turn Wi-Fi on (See *“Turning Wi-Fi On”*). The phone scans for available hotspots and displays a list of any it finds.
2. To connect to a hotspot, touch it on the pop-up list.
 - If the Wi-Fi network is open, you are 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** →  **Connections** → **Wi-Fi**. The **Wi-Fi** options screen displays. (For more information, refer to “*Accessing Settings*” on page 140.)
2. Touch the **Wi-Fi** slider  to turn Wi-Fi ON.
3. Touch **Add Wi-Fi network**, then 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.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 206.

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 the phone's Bluetooth settings. (For more information, see “*Bluetooth Settings*” on page 145.)

Note: Bluetooth profiles are specifications for services supported by individual devices. (For a list of profiles the phone supports, see “*Bluetooth Profiles*” on page 144.)

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 the phone and the device.

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

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

1. Activate the target device's discoverable mode.
2. Turn on Bluetooth from the phone (see *"Turning Bluetooth On or Off"* on page 129). A list of detected devices displays.
3. From the list of detected devices, touch the target device the 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 or touch **Cancel** to retain the pairing only.

Connecting with a Bluetooth Device

1. Turn Bluetooth ON. (See “Turning Bluetooth On or Off” on page 129.)
2. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **Bluetooth**. The **Bluetooth** screen displays.
3. Under **Available devices**, touch a previously paired device. The device connects with the phone.

Internet

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

- From the Home screen, select  **Internet**. Your Wireless Provider's mobile home page displays in the Internet screen.

Note: This phone also comes with the Google Chrome mobile browser. (For more information, refer to “*Chrome*” on page 110.)

Navigating the Web

Selecting Items on a Page

While browsing web pages, use gestures and menus to navigate:

- Touch an item to select it.
- Touch a hyperlink to follow the link.
- Touch and hold on a hyperlink for options.

Command Keys

- Touch  **Back** or touch  **Back** to return to the previous page.
- Touch  **Forward** to go to the next page.

Touching and Dragging

- Touch and drag your finger on the screen to navigate pages and to reposition pages within the screen.

Entering Text in a Field

- While browsing, touch a text field to display the virtual QWERTY keyboard to enter text.

Zoom

Note: Some web pages do not support the Zoom function.

- Using two fingers, make a pinch motion on the screen.
 - Pinch in to zoom in on a web page.
 - Pinch out to zoom out on a web page.
- To return a web page to original size, double tap on it.

Entering a URL

Access a website quickly by entering the URL.

1. Touch the **URL** field at the top of the Internet screen, then enter the URL using the virtual QWERTY keyboard. If the **URL** field is not visible, touch and swipe downward until the **URL** field displays.

2. As you enter characters, potential matches display. Continue entering characters, or touch a match to complete the URL, then touch **Go** to load the page.

Copying Text

Copy information from a web page.

1. From the Internet screen, browse to the desired website.
2. Touch and hold on the text to enable the text selector, then use the on-screen tools.

Using Browser Windows

You can have multiple windows open at one time, and you can switch between windows.

- To open a new window, on the Internet screen, touch  **Windows** →  **New window**.
- To switch to another open window, touch  **Windows**. Touch and swipe to the desired window thumbnail, then touch it to display the window.
- To close a window, touch  **Windows**. Touch  **Close** beside a window to close it.

Going Incognito

The Incognito feature lets you view Internet sites without leaving records in your browser history or search history, and without traces (such as cookies) stored on your device.

Note: Any downloaded files are preserved and stay on your device after you exit the incognito mode.

To add an Incognito window:

1. From the Home screen, touch **Internet** , then touch  **Windows** →  **Incognito**.
2. A new Incognito window displays.

Note: The incognito icon displays in the upper-left of the new browser window while you are in this mode.

3. Browse to the desired web site(s).

To exit from the incognito window:

1. From your browser window, touch  **Windows**.
2. Scroll across the available windows and locate the Incognito window.
3. Touch  next to the Incognito window to delete it.

Using Bookmarks

While browsing, bookmark a site to quickly access it later.

Creating a bookmark

1. From the Home screen, touch **Internet** , then browse to the desired website, then touch  **Bookmarks** →  **Add bookmark**. The **Add bookmark** screen displays.
2. Edit the **Name** and **Address** of the new bookmark as needed, then select the **Folder** where you want it added.
3. Touch **Save** to save the new bookmark.

Accessing Bookmarks and History

Launch a bookmarked page, or reload recent pages.

1. From the Internet screen, touch  **Bookmarks**.
2. On the tabs, use these options:
 - Touch an item to load the page.
 - Touch and hold on an item for options.
 - Touch  **Menu** for more options.

Deleting Bookmarks

1. From the Bookmarks page, touch and hold the bookmark you want to delete.
2. Touch **Delete bookmark**.
3. In the **Delete** confirmation pop-up, touch **OK**.

Mobile Hotspot

Use Mobile Hotspot to share your phone's internet connection with up to 10 other devices 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 Mobile Hotspot is active, the phone's applications use the Mobile Hotspot data feature allowance.

Configuring Mobile Hotspot Settings

Configure the phone's Mobile Hotspot settings, including the phone's name and password, and set the visibility of the 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 148.)

Turning Mobile Hotspot ON

Turn Mobile Hotspot ON to allow other devices to use your phone's internet connection.

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **More networks** → **Tethering and portable hotspot**.
2. Slide **Mobile Hotspot**  to the right and follow the prompts to turn Mobile Hotspot ON.

Connecting a Device Using Mobile Hotspot

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

On your phone:

1. Turn Mobile Hotspot ON. (For more information, refer to *"Turning Mobile Hotspot ON"* on page 133.)

On the other devices:

2. Activate Wi-Fi.
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 148.)
4. At the prompt, enter your phone's Mobile Hotspot password.

Tip: By default, the Mobile Hotspot password is your phone number. (For information on changing your phone's Mobile Hotspot password, see *"Configuring Mobile Hotspot"* on page 148.)

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 can print from the phone using Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **Wi-Fi**.
2. Slide **Wi-Fi**  to the right to turn Wi-Fi ON. Wi-Fi must be on to use Wi-Fi Direct.
3. Touch **Wi-Fi Direct**. The **Wi-Fi Direct** screen displays, and the phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.

Connecting to Wi-Fi Direct Devices

1. First, enable Wi-Fi on your device. From the Home screen, touch  **Menu** → **Settings**.
2. Slide **Wi-Fi**  to the right to turn Wi-Fi ON. Wi-Fi must be on to use Wi-Fi Direct.
3. Enable Wi-Fi Direct on the other device(s). Consult the other device's documentation for more information.

4. On your phone, touch **Wi-Fi Direct** (below the list of networks) to scan for the other device(s).
5. In the **Available devices** list, touch a device to connect with it, or touch **Multi-connect** to connect to multiple devices (not all devices support multi-connect).
6. Follow the prompts on both devices to complete the connection.

Wi-Fi Direct Settings

1. First, enable Wi-Fi on your device. From the Home screen, touch  **Menu** → **Settings**.
2. Slide **Wi-Fi**  to the right to turn Wi-Fi ON. Wi-Fi must be on to configure Wi-Fi Direct settings.
3. Touch **Wi-Fi Direct**.
4. Touch  **Menu** to configure:
 - **Rename device:** Change the name of your phone.
 - **Help:** Read additional information about Wi-Fi Direct.

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** → **Settings** →



Connections → **NFC**

2. Slide **NFC**  to turn NFC ON.

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. Turn **NFC** ON. (See “NFC”.) NFC must be ON to use Android Beam.
2. Slide **Android Beam**  to the right to turn Android Beam On.

Using Android Beam

1. Turn **Android Beam** On. (See “*Turning Android Beam On or Off*” .)
2. Launch the desired feature or application or browse to the desired web page (See “*Applications and Widgets*” on page 105.)
3. Place the phone back-to-back with the device to receive your “beamed” content, then touch the screen on the 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 displays on the screen of that device.

S Beam

When S Beam is turned ON, 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. Turn **NFC** ON (see “*NFC*” on page 135). NFC must be ON to use S Beam.
2. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **S Beam**
3. Slide **S Beam**  to the right to turn S Beam ON.

Using S Beam

1. Turn **S Beam** ON. (See “Turning S Beam On or Off”.)
2. Launch  **Camera**,  **Music Player**, or  **Gallery** (See “Applications and Widgets” on page 105). When using Gallery, you can select multiple files to S Beam.
3. Place the phone back-to-back with the device to receive your “beamed” content, then touch the screen on the 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 displays on the screen of that device.

Tethering

Use Tethering to share the 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 149

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **More networks** → **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen displays.
2. Choose a tethering method:
 - **USB tethering**: Connect the computer to the phone using a USB cable, then touch **USB tethering** to turn tethering On or Off. A check mark displays to indicate activation.
 - **Bluetooth tethering**: Connect the phone with the computer using Bluetooth. Consult the computer’s documentation for more information about using your computer to make a Bluetooth connection. Touch **Bluetooth Tethering** to turn tethering On or Off. A check mark displays when activated.
 - **Help**: Provides assistance with tethering.

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

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 the phone's installed and card memory as removable storage drives.

Kies air: Lets you wirelessly synchronize files on the 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 samsung.com/kies (for Windows/Mac).

Note: 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 air 2.0 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 display 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 displays 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 displays 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 the phone's memory and memory card (if installed).

Screen Mirroring

Screen Mirroring lets the 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 dlna.org.

1. Connect the phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to “Wi-Fi” on page 127.)
2. On the phone press  **Home**, then touch  **Menu** → **Settings** →  **Connections** → **Screen Mirroring**. The **Screen Mirroring** screen displays with **Screen Mirroring** already active and begins scanning for available devices. All detected DLNA certified devices are listed under **Available devices**.
3. Touch the desired device to establish a connection. You can now view the contents of the phone's display on the connected device.

Nearby Devices

Share files with nearby Digital Living Network Alliance (DLNA) certified devices over Wi-Fi. For more information, refer to “Nearby Devices” on page 152.

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

1. Connect the phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to “Wi-Fi” on page 127)
2. On the phone press  **Home**, then touch  **Menu** → **Settings** →  **Connections** → **Nearby devices**. The **Nearby devices** screen displays.
3. Slide **Nearby devices**  to the right to turn Nearby devices ON.
4. Touch **Allowed devices list** to select a device to share contents with.

Section 11: Settings

Accessing Settings

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

– or –

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



Settings.

The **Settings** menu displays.

Settings Tabs

The Settings are divided into 4 main groups. When the Settings screen displays, the following 4 tabs are located at the top of the screen:



Connections:

This tab provides access to the settings related to the connection of your device to external sources. Features include: Wi-Fi, Bluetooth, Data usage, More networks (Airplane mode, Mobile networks, Tethering, and VPN), NFC, S Beam, Nearby devices, and Screen Mirroring.



My device:

This tab provides access to device configuration and customization features. Features include: Lock screen, Display, LED indicator, Sound, Home screen mode, Call, Blocking mode, Hands-free mode, Power saving mode, Accessory, Accessibility, Language and input, Motion, Smart screen, and Voice control.



Accounts:

This tab provides both the ability to create and modify your accounts (such as: Samsung account, Email, Google account, and so on) and access Backup and reset features.



More:

This tab provides access to the remaining set of device settings not listed under the other three tabs. These include: Location services, Security, Application manager, Battery, Storage, Date and time, and About device.

Note: The settings for your device are described below in the order that they appear within the Settings menu. Options under the **Connections** tab are listed first, followed by **My device**, **Accounts**, and **More**.

Connections

To access the Connections settings:

- From the Settings screen, touch the **Connections**  tab.

The **Connections** menu displays.

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 127.

Turning Wi-Fi On or Off

Turn the phone's Wi-Fi service on or off. When you turn Wi-Fi service ON, the phone automatically searches for nearby available Wi-Fi networks.

Tip: When you turn Wi-Fi service ON, the phone automatically searches for available networks and displays them.

You can also turn Wi-Fi ON or OFF from the Notifications panel, Quick Settings menu. (For more information, refer to “*Quick Settings Menu*” on page 33.)

Turn Wi-Fi ON:

- From the **Connections** menu, touch **Wi-Fi**  .
– or –

From the Home screen and others, touch and swipe the Status Bar downward, then touch  **Wi-Fi** in the Quick Settings menu.

Turn Wi-Fi OFF:

- From the **Connections** menu, touch **Wi-Fi**  .
– or –

From the Home screen and others, touch and swipe the Status Bar downward, then touch  **Wi-Fi**.

Wi-Fi Settings

Configure and manage connections to Wi-Fi access points.

1. From the **Connections** menu, touch **Wi-Fi**. The **Wi-Fi** 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 128).
 - **Scan:** Search for available Wi-Fi networks.
 - **Wi-Fi Direct:** Access Wi-Fi Direct settings (see “Wi-Fi Direct” on page 143.)
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 **Connections** menu, touch **Wi-Fi** →  **Menu** → **Advanced**.
2. Configure settings:
 - **Wi-Fi notifications:** When enabled, the phone notifies you of nearby Wi-Fi networks when you launch a high data-usage application.
 - **Sort by:** Select whether WAPs are listed in Alphabet order or Signal Strength order.
 - **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.
 - **Always allow scanning:** When enabled, Google location service and other apps scan for Wi-Fi networks, even when Wi-Fi is set to OFF.
 - **Auto network switch:** When enabled, your device automatically switches between the carrier network and a Wi-Fi network (only active when SIM card is installed).

- **Install certificates:** Installs optional security certificates from an installed microSD card. (For more information, refer to *“Installing a Memory Card”* on page 7.)
- **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.

Example: Some printers support Wi-Fi Direct, allowing you to print from your phone using Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

1. From the **Connections** menu, touch the **Wi-Fi** slider  to turn Wi-Fi ON.

Note: Wi-Fi must be ON to use Wi-Fi Direct.

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**.

(For information on connecting the phone to other Wi-Fi Direct devices, see *“Connecting to Wi-Fi Direct Devices”* on page 134.)

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 **Connections** menu, touch **Bluetooth** .

Turn Bluetooth OFF:

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

Tip: You can also turn Bluetooth ON or OFF at the Notifications Panel.

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 **Connections** menu, touch **Bluetooth**.
2. Touch a setting to configure Bluetooth:
 - Touch **Bluetooth**  to turn Bluetooth ON.
 - Under **My device**, 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 (see *"Pairing with a Bluetooth Device"* on page 129).
 - Touch  **Menu** to access the following options:
 - **Visibility timeout:** 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 **Connections** menu, touch **Data usage**. The **Data usage** screen displays.
2. Touch the **Data usage cycle** drop-down menu and select a date.

The data usage displays as a visual (chart) and also displays a list of each application with a breakdown of how much data was used per application.

Note: Data is measured by your device. Your service provider may account for data usage differently.

3. Touch  **Menu** to display additional options. Touch each check box to enable the feature or option.
 - **Data roaming:** When enabled, includes data roaming usage in the graph. (For more information about roaming, see *"Roaming"* on page 18.)
 - **Restrict background:** When enabled, stops some apps and services unless your device is connected to a Wi-Fi network.

- **Auto sync data:** When enabled, lets your accounts synchronize automatically. (When disabled, reduces mobile data usage and conserves battery power, but you must manually sync your accounts.)
- **Show Wi-Fi usage:** When enabled, two buttons appear at the top of the Data usage screen:
 - **Mobile:** Shows Mobile data usage.
 - **Wi-Fi:** Shows Wi-Fi data usage.
- **Mobile hotspots:** Lets you block background apps from using selected, expensive mobile hotspots for large downloads.

More networks

- From the **Connections** menu, touch **More networks**. The **More networks** menu displays.

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 **More networks** menu, touch **Airplane mode** to enable or disable airplane mode. When enabled, a check mark displays in the check box.
2. At the **Turn on Airplane mode** prompt, touch **OK**. The Airplane mode icon  displays at the top of the screen.

Mobile Networks

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

1. From the **More networks** menu, touch **Mobile networks**. The **Mobile networks** menu displays.
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 18.)
 - **System select:**
 - **Home only:** Restricts the phone to using your Wireless Provider's mobile network.
 - **Automatic:** Permits the phone to automatically roam to networks other than that provided by your Wireless Provider.

Tethering and portable hotspot

Mobile Hotspot

Turning ON Mobile Hotspot turns your phone into an Wi-Fi Internet access point (hotspot) and allows up to 10 other devices to connect to it using a Wi-Fi connection. These devices have Internet access through your Wireless Provider's data network.

To enhance security, you can create an allowed device list and set the connection mode for Allowed devices only.

This feature enables mobile data and consumes more battery power.

Note: Using this device as a Wi-Fi hotspot requires a subscription to data service. For more information, contact your Wireless Provider.

Turning Mobile Hotspot On or Off

1. From the **More networks** menu, touch **Tethering**. The **Tethering** menu displays.
2. Touch the **Mobile Hotspot** slider  to turn **Mobile Hotspot ON**.

Note: Using the phone as a mobile hotspot consumes uses data service and battery power:

While Mobile Hotspot is active, the phone's applications will use your Wireless Provider's data service.

Roaming while using the phone as a mobile hotspot will incur extra data charges.

Configuring Mobile Hotspot

1. From the **More networks** menu, touch **Tethering** → **Mobile Hotspot**. The **Mobile Hotspot** screen displays.
2. Touch the Mobile Hotspot name to select whether **All devices** or **Allowed devices only** can access your Mobile Hotspot. (For more information, refer to “*Allowed Devices*” on page 149.)

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

- **Network SSID:** View and change the name of your Mobile Hotspot.
- **Hide my device:** When enabled, your Mobile Hotspot is not visible to other Wi-Fi devices during a scan. Other devices can still connect to your Mobile Hotspot, but a manual connection is required that uses 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:** Enable to make the Password field visible.
- **Show advanced options:** Enable to access advanced options, including Broadcast channel, to specify the channel your device uses for Mobile Hotspot.

Allowed Devices

Restrict what devices can connect to your Mobile Wi-Fi Hotspot with the Allowed devices list. After you add devices to the list, they can connect to your device using your device's Wi-Fi hotspot name (SSID) and password.

Note: Using the phone as a mobile hotspot consumes battery power and uses data service. While Mobile Wi-Fi Hotspot is active, the phone's applications will use your Wireless Provider's data service. Roaming while using the phone as a mobile hotspot will incur extra data charges.

1. From the **More networks** menu, touch **Tethering and portable hotspot** → **Mobile Hotspot**. The **Mobile Hotspot** screen displays.
2. Touch **Allowed devices** → , then enter the other device's Device name and MAC address.
3. Touch **OK** to add the device to the **Allowed devices** list.

Tip: For information about connecting to your Mobile Hotspot, see *"Mobile Hotspot"* on page 133.

Tethering

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

For more information about connecting computers to the phone using Tethering, see *"Tethering"* on page 137.

1. From the **More networks** menu, touch **Tethering**. The **Tethering** screen displays.
2. Choose a tethering method:
 - **USB tethering:** Connect the computer to the phone using a USB cable, then touch **USB Tethering** to enable or disable tethering. When enabled, a check displays 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 enable or disable tethering. When enabled, a check displays in the check box.

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

VPN

Set up and manage Virtual Private Networks (VPNs).

1. From the **More networks** menu, touch **VPN**.

Depending on your device's Lock screen setting, the **VPN** screen appears.

Note: If **Lock screen** is not set to **Pattern**, **PIN**, or **Password**, you are prompted to change your Lock screen setting to one of these options.

2. Touch  **Tap to add VPNs**. The **Add VPN** pop-up appears. The following options are available:

- **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

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.

- From the **Connections** menu, touch the **NFC** slider

 to turn NFC ON.

— or —

Touch the **NFC** slider  to turn NFC OFF.

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

Android Beam

When Android Beam is ON, 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.

1. From the **Connections** menu, touch **NFC**.
2. Turn **NFC** ON (see “*NFC*” on page 150).
3. Touch the **Android Beam** slider  to turn Android Beam ON.

– or –

Touch the Android Beam slider  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), then touch the screen.

1. Turn **NFC** ON (see “*NFC*” on page 150).
2. From the **Connections** menu, touch the **S Beam** slider  to turn S Beam ON.

– or –

Touch the **S Beam** slider  to turn S Beam OFF.

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 **Connections** menu, touch **Nearby devices**. The **Nearby devices** screen displays.
2. Touch the **Nearby devices** slider  to turn Nearby devices ON.
— or —
Touch the **Nearby devices** slider  to turn Nearby devices OFF.
 - **Device name:** View your device's name. (To change the Device name, see “About Device” on page 184.)

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**.
 - **Allowed devices list:** Lists Wi-Fi devices allowed to access your device.
 - **Not-allowed devices list:** Lists Wi-Fi devices blocked from accessing your device.
 - **Download to:** Choose a location to save downloaded content, **Device** (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**.

Screen Mirroring

Screen Mirroring lets the phone share the contents of its display with other Digital Living Network Alliance (DLNA) certified devices, such as Smart televisions or HDTVs connected to an optional AllShare Cast dongle.

Note: To view more information about DLNA certified products visit dlna.org.

1. From the **Connections** menu, touch **Screen Mirroring**. The **Screen Mirroring** screen displays.
2. Touch the **Screen Mirroring** slider  to turn Screen Mirroring ON. Screen Mirroring begins scanning for Available devices.
– or –
Touch the **Screen Mirroring** slider  to turn Screen Mirroring OFF.
3. To scan for Available devices, touch **Scan**.
4. Touch  **Menu** → **Help** for information on using Screen Mirroring.

My device

- From the **Settings** screen, touch  **My device**. The **My device** menu displays.

Lock Screen

Choose settings for locking and unlocking the phone.

For more information about using the lock and unlock features, see “*Securing Your Phone*” on page 18.

- From the **My device** menu, 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:** When enabled, you unlock the phone by swiping your finger across the screen. This is the default screen lock, and offers no security.
 - **Face unlock:** When enabled, you 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:** When enabled, you 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:** When enabled, you draw a pattern, which you create, on the screen to unlock the phone. Touch the option, then follow the prompts to create or change your screen unlock pattern.
- **PIN:** When enabled, you enter a numeric PIN (Personal Identification Number), which you create, to unlock the phone.
- **Password:** When enabled, you 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 displays with the following additional options available depending on the Screen Lock type that you have selected:
 - **Swipe options:**
 - Multiple widgets** When enabled, displays multiple widgets on your lock screen. Appears as an option after you set **Screen lock** to an option other than **None**.

Lock screen widgets allows you to lock the widgets that are displayed on your home screens.

Shortcuts: When enabled, application shortcuts appear 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.

Unlock effect sets the effect you receive when unlocking the phone. You can select None, Ripple effect, or Light effect.

Help text: Touch this option to enable/disable showing text explanations of lock screen features. When enabled, a check mark displays in the check box.

Wake up in lock screen: Touch this option to enable/disable unlocking the phone by saying the S Voice wake-up command. When enabled, a check mark displays in the check box. (For more information about S Voice, see “S Voice” on page 121.)

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 121.)

— **Face unlock options:**

Lock screen widgets allows you to lock the widgets that are displayed on your home screens.

Improve facial recognition allows you to improve your device's face matching capability by capturing your face in different lighting, with or without glasses, and bearded or clean-shaven. Follow the on-screen instructions.

Presence check When enabled, requires that you blink when using the Face unlock feature. This will increase the security of the feature.

Lock automatically lets you set a time-out for the screen to lock automatically.

Lock instantly with power key When enabled, you can instantly lock the screen by pressing the Power-Lock key.

– **Pattern options:**

Lock screen widgets allows you to lock the widgets that are displayed on your home screens.

Make pattern visible allows you to see the pattern as you draw it.

Lock automatically lets you set a time-out for the screen to lock automatically.

Lock instantly with power key When enabled, you can instantly lock the screen by pressing the Power-Lock key.

– **PIN and Password options:**

Lock screen widgets allows you to lock the widgets that are displayed on your home screens.

Lock automatically lets you set a time-out for the screen to lock automatically.

Lock instantly with power key When enabled, you can instantly lock the screen by pressing the Power-Lock key.

Display

- From the **My device** menu, touch **Display**.

The following options display:

- **General:**

- **Wallpaper:** Assigns a wallpaper for the Home screen, Lock screen, or both.
- **Notification panel:** Touch this option to enable/disable Brightness adjustment from the Notification panel, and to set which quick setting buttons display on the Notification panel.
- **Multi window:** When enabled, Multi window lets you run two apps at the same time. (For more information, refer to “Using Multi Window” on page 26.)
- **Page buddy:** Allows context related pages to be created on the Home screen. You can select Earphones page, Docking page, and Roaming page. Touch Page buddy help for more information. Touch and slide the Page buddy slider to the right to turn it on .

- **Screen:**

- **Brightness:** Configures the LCD Brightness levels. Touch Automatic brightness to allow the phone to self-adjust or drag the slider and touch OK.

- **Auto rotate screen:** When enabled, automatically switches the display orientation when you rotate the phone.
- **Screen timeout:** Adjust the delay time before the screen automatically turns off. Selections are: 15 seconds, 30 seconds, 1 minute, 3 minutes, 5 minutes, and 10 minutes.
- **Daydream:** When set to ON, lets you configure the screen that appears when your phone is docked or sleeping. Touch the **Daydream** slider  to turn it ON.

Tip: When turned ON, your Daydream settings take the place of the Desk home screen display setting. (For more information, refer to “Accessory” on page 161.)

- **Font:**

- **Font style:** Select the text font style that appears in screens. You can also touch **Get fonts online** to choose from a wider selection.
- **Font size:** Select the size of the text that appears in screens.

- **More settings:**

- **Touch key light duration:** Select the inactive time the Menu and Back keys remain lit.

- **Show battery percentage:** When enabled, the battery charge percentage appears next to the battery charge icon at the top of the display.
- **Auto adjust screen tone:** When enabled, saves power by having the phone analyze the displayed screen images and adjust the display brightness.

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 **My device** menu, touch **LED indicator**.

The following options display:

- **Charging:** When enabled, LED indicator lights red while the phone’s battery is charging.
- **Low battery:** When enabled, LED indicator flashes red when the phone’s battery charge level becomes low.
- **Notifications:** When enabled, LED indicator flashes blue when you have missed calls, new messages, or application events.
- **Voice recording:** When enabled, LED indicator flashes blue when you are recording a voice note.

Sound

- From the **My device** menu, touch **Sound**.

The following options display:

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

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

- **Vibration Intensity:** Set the level for vibration to accompany ringtones, notifications, and Haptic feedback.
- **Ringtones and notifications:**
 - **Ringtones:** Choose a ringtone for incoming calls. You can Add music files to the list for use as a ringtone.

Tip: You can set songs as ringtones for all calls, or for a selected contact. For more information, refer to “*Music*” on page 116.

- **Vibrations:** Choose or create a vibration pattern to use when vibration is enabled.

- **Default notification sound:** Choose a default sound to play for notifications, such as for new messages and event reminders.

Tip: You can set songs as notification ringtones. (For more information, refer to “*Music*” on page 116.)

- **Vibrate when ringing:** When enabled, vibration is played at the same time as sounds for calls and alerts.
- **System:**
 - **Dialing keypad tone:** When enabled, a tone sounds when you touch keys on the Phone keypad.
 - **Touch sounds:** When enabled, a tone sounds when you touch keys on the Phone keypad.
 - **Screen lock sound:** When enabled, the screen lock sound plays when you lock or unlock the screen.
 - **Haptic feedback:** When enabled, the phone vibrates to indicate screen touches and other interactions.

- **Auto haptic:** When turned ON, haptic vibrations occur in response to sounds from downloaded apps, such as games. Touch the Auto haptic slider  to turn the feature ON.

Note: Some downloaded apps do not support this feature.

- **Emergency Tone:** You can set the phone Emergency tone to Off, or to play an Alert tone, or to Vibrate during an emergency call (for example, calls to 911).
- **Samsung keyboard:**
 - **Key-tap sound:** When enabled, a tone sounds when you touch keys on the Samsung keypad.
 - **Key-tap vibration:** When enabled, your device vibrates when you touch keys on the Phone keypad.
- **HDMI:**
 - **Audio output:** Choose to have your phone play Stereo or Surround sounds over the HDMI output.

Home screen mode

Select the Home screen layout that best suits your needs.

1. From the **My device** menu, touch **Home screen mode**.
The **Home screen mode** screen displays.
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 confirm.

Call

For information about Call settings, see “*Call Settings*” on page 64.

Blocking mode

When enabled, Blocking mode lets you select which notifications you receive.

1. From the **My device** menu, touch the **Blocking mode** slide  to turn this feature ON.

2. Touch **Blocking mode** to access the following options:

- **Features:**

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

- **Set time:**

- **Always:** When enabled, Blocking mode stays 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.

Hands-free mode

Hands-free mode allows you to select whether your phone announces in plain language incoming calls and messages, alarm information, and/or schedule alarm information from your Calendar.

1. From the **My device** menu, touch **Hands-free mode**.
2. Touch the ON/OFF slider, located to the right of **Hands-free mode**, to turn it ON .
3. Touch the following options to create a check mark and enable them:
 - **Incoming call**: When enabled, your phone reads out caller information for incoming calls.
 - **Message**: When enabled, your phone reads out sender information for incoming messages.
 - **Alarm**: When enabled, your phone reads out alarm information.
 - **Schedule**: When enabled, your phone reads out Calendar event alarm information.

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 displays.
2. Touch the **Power saving mode** slide  to turn Power saving ON.

Tip: **Power saving** must be set to ON () 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 displays in its check box.):
 - **CPU power saving**: When enabled, the phone's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.
 - **Screen power saving**: When enabled, the screen uses reduced frame refresh rate and lower brightness.
 - **Turn off haptic feedback**: When enabled, no vibration plays when you touch the screen.
4. Under **Power saving tips**, touch **Learn about power saving** to read information about Power saving options.

Accessory

This menu allows you to select the Audio output mode when using a car or desk dock.

1. From the **My device** menu, touch **Accessory**.
2. Touch the following **Dock** settings to enable or disable them. (When an option is enabled, a check mark displays in its check box.):
 - **Dock sound**: When enabled, sounds play when inserting or removing the phone from the optional dock.
 - **Audio output mode**: When enabled, you can use optional external dock speakers when the phone is docked.
 - **Desk home screen display**: When enabled, the desk home screen displays when the phone is docked.
3. Touch **Audio output** to set your HDMI Audio output to Stereo or Surround.

Accessibility

Accessibility services are special features to make using the device easier for those with certain physical disabilities. Use the Accessibility settings to activate these services.

Note: You can download accessibility applications from Play Store and manage their use here.

1. From the **My device** menu, touch **Accessibility**.
2. The following options are available:
 - **Auto rotate screen**: When enabled, automatically rotates the screen from landscape to portrait when you rotate your phone.
 - **Screen timeout**: Set the length of inactive time after which the display turns off.
 - **Speak passwords**: When enabled, reads out password information.
 - **Answering/ending calls**: accept incoming calls by pressing the Home key, by touching the accept call button, or by using Voice control. End calls by pressing the Power-Lock key.
 - **Show shortcut**: Adds an Accessibility settings option or a TalkBack settings option to the **Device options** menu that appears when you press and hold the Power-Lock key.

- **Services:**

- **TalkBack:** When set to ON, the TalkBack feature speaks feedback to help blind and low-vision users.

Important! TalkBack can collect all of the text you enter, except passwords, including personal data and credit card numbers. It may also log your user interface interactions with the device.

- **Vision:**

- **Font size:** Change the size of the fonts used on the device within menus, options, and so on. Choose from: Tiny, Small, Normal, Large, or Huge.
- **Magnification gestures:** When set to ON, you can use exaggerated gestures such as triple-tapping, double pinching, and dragging two fingers across the screen.
- **Negative colors:** When enabled, reverses the display of on-screen colors from White text on a Black background to Black text on a White background.

- **Accessibility shortcut:** When set to ON, allows you to quickly enable accessibility features in 2 quick steps. Follow the on-screen instructions.

- **Text-to-speech options:** Set the your text-to-speech options. (For more information, refer to “*Speech*” on page 166.)

- **Hearing:**

- **Sound balance:** Use the slider to set the Left and Right balance when using a stereo device.
- **Mono audio:** When enabled, combines stereo audio to into a mono audio stream for use with a single earphone headsets (wired or Bluetooth).
- **Turn off all sounds:** When enabled, mutes every sound made by your device during touches, selections, notifications, and so on.
- **Flash notification:** When enabled, the camera flash blinks whenever you receive a notification.

- **Mobility:**

- **Touch and hold delay:** Select a time interval for this action. Choose from: Short, Medium, Long, or Custom.

Language and Input

- From the **My device** menu, touch **Language and input**. The **Language and input** screen displays.

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**, the following options are available:
 - **Default:** Select the default method for manually entering text.
 - **Samsung keyboard:** Touch  beside Samsung keypad to configure the following options.

Note: This option cannot be disabled.

- **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.

- **Select input languages:** Choose which languages are loaded onto your phone.
- **Predictive text:** When set to ON, suggests words matching your text entries and optionally, complete common words automatically. Touch **Predictive text**  to set Predictive text ON. Touch **Predictive text** to configure the following options:

Personalized data: When enabled, Predictive text uses personal language data 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 Messages: 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.

- **Auto replacement:** When set to ON, lets you complete or replace the word you are typing with the most probable word by touching the space bar or a punctuation mark.
- **Auto capitalization:** When enabled, T9 automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.
- **Auto spacing:** When enabled, spaces are automatically inserted between words.
- **Auto punctuate:** a period and space are automatically entered to end a sentence, when you touch the space bar twice.
- **Keyboard swipe:** Choose None (disables Keyboard swipe), T9 Trace (lets you type words by swiping between letters), or Cursor control (lets you move the cursor by sliding your finger across the keyboard).
- **Key-tap feedback:**
Sound: When enabled, a sound plays for your key touches.

Vibration: When enabled, a vibration plays for your key touches.

Character preview: When enabled, characters available on the key you touch display briefly as you enter text.

- **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.

Note: This option cannot be disabled.

— **Basic settings:**

Vibrate on keypress: When enabled, your phone vibrates when you enter text using the on-screen keyboard.

Sound on keypress: When enabled, a sound plays when you touch a keyboard key.

Pop-up on keypress: When enabled, displays a character above an on-screen key while typing.

Show complete trace: When enabled, displays the complete Swype path for a word.

– **Prediction:**

Auto-capitalization: When enabled, automatically capitalizes the first letter of a sentence.

Auto-spacing: When enabled, automatically inserts a space between words. When you finish a word, just lift your finger or stylus and start the next word.

Next word prediction: When enabled, predicts the next word in your text string based on your current text entries.

Note: If incorrect words are being entered as you type, disabled this feature.

– **Voice and Handwriting:**

Show Voice key: When enabled, displays the Voice recognition key on the Swype keyboard.

– **My Words:**

Backup & Sync: allows you to backup your Swype dictionary and sync your Swype dictionary across multiple devices.

Living Language: When enabled, this feature automatically updates your Swype dictionary with popular new words.

Social integration: When you sign in, Swype learns information from your Facebook, Twitter, and Gmail accounts to help you use Swype.

Edit my dictionary: Edit your personal Swype dictionary.

Clear language data: Deletes all of your personal language data, including your words.

Contribute usage data: When enabled, allows the Nuance® application to collect usage data for better word predictions.

Cellular data: When enabled, activates cellular data usage by the Swype application so it can receive program updates, language downloads, and other related features via your existing data connection.

– **Languages:** Activate and select the current text input language. Default language is US English.

Touch **English** to change the current language. After you change the language, it will be displayed instead of English. You must first select the Download languages option and download another language before it will appear here.

Touch **Download languages** to download more languages.

Touch a language under the **Active** heading to make it current.

– **Gestures:** View helpful information on using gestures while using Swype.

– **Help:** View an on-screen manual for Swype.

– **Updates:** Update Swype if new software is available.

- **Google voice typing:** When enabled, 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 enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
 - **Offline speech recognition:** Enables voice input using Google voice typing while the phone is offline.

Speech

This menu allows you to set the speech settings for Voice input.

1. From the **Language and input** menu, touch **Voice recognizer** to select a speech recognition engine. Options are: **Samsung powered by Vlingo** and **Google**.
2. Touch **Voice search** to configure the following:
 - **Language:** Choose a language for your voice input.

- **Speech output:** Sets whether you will use speech output always or only when using hands-free.
- **Block offensive words:** When enabled, blocks recognized offensive words from the results of your voice-input Google searches.
- **Hotword detection:** When enabled, you can launch voice search by saying the word “Google”.
- **Offline speech recognition:** Lets you download speech recognition software for different languages. Touch the ALL tab to display all available languages, then touch the language that you want.
- **Personalized recognition:** Improve voice recognition based on your speech. (This option is only available when you are signed in to a Google Account.)
- **Google Account dashboard:** View and manage your collected data. (This option is only available when you are signed in to a Google Account.)
- **Bluetooth headset:** When enabled, records audio through a Bluetooth headset, if connected.

3. Touch **Text-to-speech options**. The following options are available:

- **Preferred TTS engine**: Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine**.
- **Speech rate**: Set the speed at which the text is spoken.
- **Listen to an example**: Play a sample of speech synthesis (available if voice data is installed).

4. Touch  next to the Preferred TTS engine to configure the following settings:

Note: Options may be different depending on the TTS engine you select.

- **Language**: allows you to set the language for spoken text.
- **Settings for Samsung text-to-speech engine**: Allows you to select the language-specific voice for spoken text.
- **Settings for Google Text-to-speech Engine**: Allows you to select the language-specific voice for spoken text. The following options are also available:
 - **Auto-update voices**: Touch to enable/disable.
 - **Update voices over Wi-Fi only**: When enabled, saves on data usage charges.

- **View Open Source Licenses**: Display information about the Open Source Licenses involved in Google Text-to-speech Engine.

- **Install voice data**: Download and install language-specific voice data for speech synthesis.

5. Under **General**, the following options are available:

- **Speech rate**: Select the speed at which text is spoken.
- **Listen to an example**: Plays a short sample of speech synthesis.

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.

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*” on page 25.

1. From the **My device** menu, touch the **Motion** slider, to turn Motion features ON .
 2. From the **My device** menu, touch **Motion**.
 3. Touch the following options to create a check mark and enable them:
 - **Direct call:** Once enabled, the device will dial the currently displayed on-screen Contact entry as soon as you place the device to your ear.
 - **Smart alert:** Once enabled, pickup the device to be alerted and notified of you have missed any calls or messages.
 - **Double tap to top:** Once enabled, double tap the top of the device to be taken to the top of the current on-screen list.
- **Tilt to zoom:** Once enabled, you must be on a screen where content can be zoomed. In a single motion, touch and hold two points on the display then tilt the device back and forth to zoom in or out.
 - **Pan to move icon:** Once enabled, touch and hold a desired application shortcut icon or widget on the screen. Once it detaches, move the device left or right to migrate it to a new location.
 - **Pan to browse images:** Once enabled, touch and hold a desired on-screen image to pan around it. Move the device left or right to pan vertically or up and down to pan horizontally around the large on-screen image.
 - **Shake to update:** Once enabled, shake your device to re-scan for Bluetooth devices, re-scan for Wi-Fi devices, Refresh a Web page, etc.
 - **Turn over to mute/pause:** Once enabled, mute incoming calls and any playing sounds by turning the device display down on a surface. This is the opposite of the Pickup to be Notified Gesture.

Sensitivity settings and tutorial:

4. Touch **Sensitivity settings**, then select Tilt to zoom, Pan to move icon, or Pan to browse images.
5. Adjust the selected **Sensitivity** setting by touching and dragging the slider to the left or right, then touch **OK**.
— or —

Touch **Test** and try out a new setting, then touch



Back → OK.

6. Touch **Learn about motions** to read tutorial type information about motion settings.

Hand motions:

7. Touch these Hand motions to create a check mark and enable them:
 - **Palm swipe to capture:** When enabled, you can capture any on-screen information swiping across the screen. In a single motion, press the side of your hand on the screen and swipe from left to right. The image is then copied to the clipboard.

- **Palm touch to mute/pause:** Once enabled, you can pause any on-screen video or mute any current sound by simply covering the screen with your hand. Once you remove your hand from the screen, the device goes back to normal by either continuing to play the current video or un-muting the current sound.

8. Touch **Learn about hand motions** to read tutorial type information about hand motions.

Smart screen

The Smart screen options allow you to customize your screen settings to make the screen more responsive and easier to use.

1. From the **My device** menu, touch **Smart screen**.
2. Touch any of the following options to create a checkmark and activate the features:
 - **Smart stay:** When enabled, disables the screen timeout if your phone detects that your face is watching the screen.
 - **Smart rotation:** When enabled, disables the auto screen rotation by checking the orientation of your face and the device.

Voice control

The Voice control settings allow you to set up voice commands to control your device.

Note: If you set the Alert type for calls or alarms to vibration, Voice control will not be available.

1. From the **My device** menu, touch **Voice control**.
2. Touch the **Voice control** slider  to turn Voice control ON.
3. Touch the following options to create a checkmark and activate the feature:
 - **Incoming calls:** When enabled, lets you answer or reject calls using the commands **Answer** and **Reject**.
 - **Alarm:** When enabled, lets you stop or snooze an alarm by using the commands **Stop** and **Snooze**.
 - **Camera:** When enabled, lets you take pictures using the voice commands **Smile**, **Cheese**, **Capture**, or **Shoot**.
 - **Music:** When enabled, lets you control the Music app using the voice commands **Next**, **Previous**, **Pause**, **Play**, **Volume Up**, and **Volume Down**.

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.

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

- From the Settings screen, touch the **Accounts**  tab.

The **Accounts** menu displays.

Add account

1. From the **Accounts** menu, touch **Add account**.
2. Touch one of the account types.
3. Use the keyboard and follow the prompts to enter your credentials and set up the account.

A green circle will appear next to the account type once you have created an account. Your email account will also be displayed in the **Accounts** menu under **My Accounts**.

For more information on creating accounts:

- See “*Samsung Account*” on page 14.
- See “*Got Google?*” on page 15 and “*Adding an Account*” on page 44.
- See “*Creating an Email Account*” on page 80.
- See “*Creating a Microsoft Exchange Email Account*” on page 81.

Synchronizing Accounts

Select the items you want to synchronize on your account such as Books, Calendar, Contacts, and more.

1. From the **Accounts** menu, under **My accounts**, touch the account to be synchronized. The account type screen displays.
2. Touch the account name. The **Sync settings** screen displays.
3. Touch **Sync now** to synchronize your account or touch **Sync all** to synchronize all your accounts. Touch **Cancel sync** to stop the synchronization.

Samsung Account

1. From the **Accounts** menu, under **My accounts**, touch **Samsung account**. The **Samsung account** screen displays.
2. Under **General settings**, the following options are available:
 - **Account settings:**
 - **Profile** (password protected): Change password and view Email address, Date of birth, Title, First name, Last name, Zip code, and Receive notices status for your account.
 - **Terms and conditions:** Review Terms and conditions, Special terms, and Privacy policy information.
 - **Help:** Find your email address or password, Contact us with a text message, review Customer support information [My questions, FAQ (Frequently Asked Questions), or Contact us], About (Samsung account Version and date Last updated), About Samsung services (apps), and Terms and conditions.
 - **Storage usage:** View Total used and access Personal data management.
 - **Backup:**

- **Auto backup:** When set to On for at least an hour and 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.

Dropbox

1. From the **Accounts** menu, under **My accounts**, touch  **Add account → Dropbox**. The **Welcome to Dropbox!** screen displays.
2. Follow the prompts to set up a Dropbox account or a link to an existing account.

Email

1. From the **Accounts** menu, under **My accounts**, touch **Email**. The **Email** screen displays.
2. Under **Accounts**, touch an account to synchronize the account. (For more information, refer to “*Synchronizing Accounts*” on page 171.)

3. Under **Common settings**, touch **Settings**. The **Account settings** screen displays.
4. Select an Email account to configure. The following options are available:
 - **Sync settings:**
 - **Sync Email:** When enabled, synchronizes message folders on your phone with matching folders on the Email server.
 - **Sync schedule:** Peak/Off-peak schedule control.
 - **Size to retrieve emails:** Select the amount of new incoming message contents to include in your message list while in local area (Size to retrieve emails) or when roaming (While roaming).
 - **Signature:** When ON, adds pre-composed signature text to send messages. Touch to edit the signature text that displays at the end of email messages you send.
 - **Default account:** When enabled, sends email from this account by default.
 - **Password:** Change your Email account password to match that on the Email server.
 - **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:** When enabled, your phone vibrates with new email notifications.
5. Touch **More settings**. The following options are available:
- **Common settings:**
 - **Account name:** Enter a name to identify the account.
 - **Your name:** Enter your name to be used in emails.
 - **Always Cc/Bcc myself:** Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.
 - **Show images:** When enabled, images included in incoming messages are automatically downloaded and displayed.
 - **Security options:** Set advanced Email security options (Encrypt all, Sign all, Key management).
 - **Data usage:**
 - **Number of emails to load:** Select the number of messages (25, 50, 75, 100, 200, Total) that appear in your message list.
 - **Auto download attachments:** When enabled, items attached to incoming messages are automatically downloaded with the messages.

- **Auto resend times:** Select the number of times to attempt to send an outgoing message before marking it as un-sent.
- **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 displays.
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

1. From the **Accounts** menu, under **My accounts**, touch **Google**. The **Google** screen displays.
2. Under **Accounts**, touch the desired Google Account. The **Sync settings** screen displays listing the following options:
 - **Sync App Data:** Synchronize the phone's application data with the Google server.
 - **Sync Calendar:** Synchronize the phone's calendar with your on-line calendar.
 - **Sync Contacts:** Synchronize the phone's contacts list with your on-line contacts list.
 - **Sync Drive:** Synchronize the phone's Drive contents with the Google server.
 - **Sync Gmail:** Synchronize the phone's Gmail inbox with your on-line Gmail inbox.
 - **Sync Google Photos:** Synchronize the phone's gallery photos with your on-line Google Photos.
 - **Sync Google Play Books:** Synchronize the phone's ebooks library with your on-line ebooks library.

- **Sync Google Play Magazines:** Synchronize the phone's emagazines library with your on-line emagazines library.
- **Sync Google Play Movies & TV:** Synchronize the phone's movies library with your on-line movies library.
- **Sync Google+:** Synchronize the phone's Google+ inbox with the linked messaging servers.
- **Sync Google+ Auto Backup:** Synchronize the phone's Google+ inbox contents with the Google server automatic backup storage.
- **Sync Internet:** Synchronize the phone's Internet browser bookmarks with your on-line bookmarks list.
- **Sync People details:** Synchronize Contacts information with contacts on the Google server.
- **Sync Picasa Web albums:** Synchronize changes from Picasa to your web albums.
- **Sync now:** Synchronize all enabled options immediately.
- **Remove account:** Delete this account from the phone.

You can also access some Google application settings (Search, Location settings, Google+, and Ads).

LDAP

1. From the **Accounts** menu, under **My accounts**, touch  **Add account** → **LDAP**. The **Set up an LDAP account** screen displays.
2. Follow the prompts to set up an LDAP account link.

Microsoft Exchange ActiveSync

1. From the **Accounts** menu, under **My accounts**, touch **Microsoft Exchange ActiveSync**. The **Microsoft Exchange ActiveSync** screen displays.
2. Under **Accounts**, touch the desired account. The following options are available:
 - **Sync Calendar**: Synchronize the phone's calendar with the Exchange server's calendar.
 - **Sync Contacts**: Synchronize the phone's contacts list with the Exchange server's contacts list.
 - **Sync Email**: Synchronize the phone's Exchange ActiveSync Email folders with the Exchange server's Email folders.
 - **Sync Task**: Synchronize the phone's Task list with the Exchange server's Task list.
 - **Sync now**: Synchronize all enabled options immediately.
 - **Remove account**: Delete this account from the phone.

3. Under **Common settings**, touch **Settings**. The **Account settings** screen displays.
4. Touch the desired account. The following options are available:
 - **Sync settings**:
 - **Sync Email**: When enabled, synchronizes the phone's Exchange ActiveSync Email folders with the Exchange server's Email folders.
 - **Sync schedule**: Choose your email automatic synchronization schedule.
 - **Size to retrieve emails**: Choose how much of each message the phone retrieves and displays in the message list.
 - **Signature**: Touch to enter or change signature text. When set to ON, signature text is included in outgoing message text.
 - **Out of office settings**: Enable/disable and enter/change out of office auto-reply messages (internal and external). Optionally, set a period of time (by date and time) to send out of office auto-reply messages.
 - **Default account**: When enabled, this account is the default account for sending email from the phone.

- **Password:** Change your Email account password to match that on the Exchange server.
- **Notification settings:**
 - **Email notifications:** When enabled, displays a new email icon in the Annunciator line when new mail arrives.
 - **Select ringtone:** Assign a ringtone for new email notifications.
 - **Vibrate:** When enabled, your phone vibrates with new email notifications.

5. Touch **More settings**. The **More settings** menu displays with the following options available:

- **Common settings:**
 - **Account name:** Enter a name to identify the account.
 - **Your name:** Enter the name you want to appear on your outgoing messages.
 - **Always Cc/Bcc myself:** Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.
 - **Show images:** When enabled, images included in messages automatically display, without a confirmation pop-up.

- **Data usage:**
 - **Auto download attachments:** When enabled, automatically downloads attachments to recent messages, but only when your device is connected to a Wi-Fi network.
 - **Auto resend times:** Choose the number of times to automatically resend a message before marking it un-sent.
- **Exchange ActiveSync settings:**
 - **Folder sync settings:** Choose email automatic synchronization schedules for individual folders.
 - **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**).
 - **Empty server trash:** Delete your email account's trash bin remotely.
 - **In case of sync conflict:** Choose whether your Device has priority or the Server has priority during automatic synchronization.
 - **Security options:** Set advanced Email security options (Encrypt all, Sign all, Key management).
 - **Sync Contacts:** Synchronize the phone's contacts list with the Exchange server's contacts list.

- **Sync Calendar:** Synchronize the phone's calendar with the Exchange server's calendar.
- **Sync Task:** Synchronize the phone's Task list with the Exchange server's Task list.
- **Exchange server settings:** Change the server link settings on your device.

Back Up and Reset

Set options for backing up your information and resetting your device.

- From the **Settings** screen, under **Personal**, touch **Backup and reset**. The **Backup and reset** screen displays.

Backup and Restore

- From the **Backup and reset** screen, under **Backup and restore**, touch the check box next to each of the following options to enable it. (When enabled, a check mark displays in the check box.)
 - **Back up my data:** When enabled, 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 backup your app data, Wi-Fi passwords, and other phone settings.
- **Automatic restore:** When enabled, automatically restores 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 **Backup 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.

More

- From the **Settings** screen, touch  **More**. The **More** menu displays.

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 **More** menu, touch **Locations services**. The **Location services** screen displays.
 2. Touch the following options to enable/disable them. (When an option is enabled, a check mark displays in its check box.):
 - **Access to my location**: When enabled, lets applications that ask permission use your location information.

- **Use GPS satellites**: When enabled, applications can use GPS to pinpoint your location.

Note: **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 32.

Important! 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.

- **Use wireless networks**: When enabled, applications can use data from mobile networks and Wi-Fi to help determine your location.

Security

- From the **More** menu, touch **Security**. The **Security** menu displays. The following options are available:

- **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.

- **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 All information stored on a microSD memory card, or only files created by your phone, under a password you specify.

- **Passwords:**

- **Make passwords visible:** When enabled, briefly displays 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.

- **Device administrators:** View, add, or remove device administrators.
- **Unknown sources:** When 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.

- **Verify apps:** When enabled, a warning displays when your device determines an application may harm it.

- **Change security level:** Set your device's security level to Normal (blocks explicit threats) or High (blocks all unauthenticated actions).
- **Security update service:**
 - **Security policy updates:** When enabled, changes to security policy automatically download and update.
 - **Send security reports:** When enabled, changes to security policy automatically download only when your device is connected to a Wi-Fi network.

- **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.

- **Storage type:** Software only (this option cannot be changed).
- **Trusted credentials:** View, enable, or disable trusted CA certificates.
- **Install from device storage:** Install encrypted certificates from an installed memory card.

Note: To use this feature, you must first install a memory card containing encrypted certificates. (For more information, refer to *"Installing a Memory Card"* on page 7.)

- **Clear credentials:** Clear stored credentials and reset the password.

Note: This setting is only available if you have installed certificates.

Application Manager

You can download and install applications from the Google Play Store, the Samsung Apps, 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 **More** menu, touch **Applications manager**. The **Applications manager** screen displays.
2. Touch **DOWNLOADED**, **SD CARD**, **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 **SD CARD** tab shows used and free USB storage. 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.

Battery

See how much battery power is used by device activities.

1. From the **More** menu, touch **Battery**. The **Battery** screen displays.
2. View battery usage for applications and services currently running.
The battery level displays in percentage. The amount of time the battery was used also displays. Battery usage displays in percentages per application.
3. Touch **Screen**, **Cell standby**, **Android System**, **Android OS**, 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.

4. At the bottom of the **Battery** screen, touch **Show battery percentage** to enable/disable the display of battery charge percentage beside the battery status icon. (When an option is enabled, a check mark displays in its check box.)

Storage

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

- From the **Settings** screen, under **Device**, touch **Storage**. The **Storage** screen displays. 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.
 - **System memory:** Shows the minimum amount of device storage required to run the system.
 - **Used space:** Shows the total amount of storage space being used.
 - **Cached data:** Shows the total storage space being used to store app data for immediate reuse.
 - **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, see *“Installing a Memory Card”* on page 7 or see *“Removing a Memory Card”* on page 8.)
 - **Format SD card:** Deletes all data from the memory card, including music, videos, and photos. (For more information, see *“Formatting a Memory Card”* on page 43.)

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:** When enabled, 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:** When enabled, 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:** When enabled, uses 24-hour time display.

- **Select date format:** Set the format for date displays.

About Device

This menu contains legal information, system tutorial information, and other phone information such as the model number, firmware version, baseband version, kernel version, and software build number.

To access phone information:

1. From the **More** menu, touch **About device**.
2. The following information displays:
 - **System updates:** Lets you download and install updates to your phone's software, if available. (For more information, refer to "Software update" on page 185.)
 - **Status:** Displays the Battery status, Battery level (percentage), Network, Signal strength, Mobile network type, Service state, Roaming, Mobile network state, My phone number, MIN number, PRL version, MEID number, IP address, Wi-Fi MAC address (if Wi-Fi is set to ON), Bluetooth address (if Bluetooth is set to ON), Up time, and Device status.
 - **Legal information:** This option displays information about Open source licenses, Google legal information, Privacy Alert (downloadable application), and License settings. This information clearly provides copyright and distribution legal information and facts as well as Google Terms of Service, Terms of Service for Android-powered Phones, and much more pertinent information as a reference. Read the information and terms, then touch  to return to the **About device** screen.
 - **Device name:** Shows the default Device name used with your device's communications features. To change the Device name, touch this option, enter your desired changes, and touch OK.
 - **Model number:** Shows the phone's model number.
 - **Android version:** Shows the android version loaded on this handset.

- **Baseband version:** Shows the baseband version loaded on this handset.

Note: Baseband, kernel, and build numbers are usually used for updates to the handset or for support. For additional information please contact your Customer Care representative.

- **Kernel version:** Shows the kernel version loaded on this handset.
- **Build number:** Shows the software, build number.
- **SE for Android status:** Shows the status of SE for Android. SE for Android is a set of security policies/modules which is applied to the device to improve the overall security.
- **Hardware version:** Shows the hardware version composing this handset.

Software update

The AT&T Software Update feature enables you to use your phone to connect to the network and upload any new phone software directly to your phone. The phone automatically updates with the latest available software when you access this option.

Tip: For best results, before launching Software update, connect your device to a Wi-Fi Access Point. For more information, refer to “*Scanning and Connecting to a Wi-Fi Network*” on page 127.

1. From the **More** menu, touch **About device** → **System updates**.
2. Touch **Check now** to check for updates.
3. At the **Software update** prompt, touch **OK** to continue.
4. The phone automatically updates the software (if available), otherwise, when the **Your system is up to date** prompt displays, touch  **Back**.

5. When updating software, once the update file is downloaded, you can delay the update on the start screen by postponing it for a certain period of time. If you want to resume the update before the selected time, touch **Continue update**.
6. Set the following options as needed:
 - **Auto update**: When enabled, Software update periodically checks for updates automatically.
 - **Wi-Fi only**: When enabled, software updates download only over a Wi-Fi connection.

Section 12: 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/>.

The SAR information for this device can also be found on Samsung's website:

<http://www.samsung.com/sar>.

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 the Commercial Mobile Alerting System ("CMAS"; which may also be known as the Personal Localized Alerting Network ("PLAN")). If your wireless provider has chosen to participate in CMAS/PLAN, 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.
1. From the Home screen, touch  **Phone** then touch the  **Keypad** tab.
2. Enter the digits of the emergency number for your present location on the **Keypad** (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. 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. If the mobile device has a retractable camera lens, do not use soap and water to clean the lens. Use a blower or brush or lens cleaning paper dampened in a lens cleaning 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 environmental 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. 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.

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

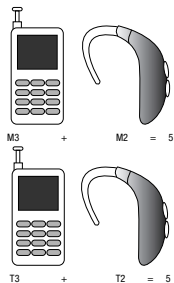
is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

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.

Cautions

Any changes or modifications to your mobile device not expressly approved by Samsung 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 13: 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:

Device	1 Year
Battery(ies)*	1 Year
Case/Pouch/Holster*	90 Days
Other Device Accessories*	1 Year

*If applicable.

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)

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End User License Agreement for Software

IMPORTANT. READ CAREFULLY: This End User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Samsung Electronics Co., Ltd. ("Samsung") for software, owned by Samsung and its affiliated companies and its third party suppliers and licensors, that accompanies this EULA, which includes computer software and may include associated media, printed materials, "online" or electronic documentation in connection with your use of this device ("Software").

This device requires the use of preloaded software in its normal operation. BY USING THE DEVICE OR ITS PRELOADED SOFTWARE, YOU ACCEPT THE TERMS OF THIS EULA. IF YOU DO NOT ACCEPT THESE TERMS, DO NOT USE THE DEVICE OR THE SOFTWARE.

1. GRANT OF LICENSE. Samsung grants you the following rights provided that you comply with all terms and conditions of this EULA: You may install, use, access, display and run one copy of the Software on the local hard disk(s) or other permanent storage media of one computer and use the Software on a single computer or a mobile device at a time, and you may not make the Software available over a network where it could be used by multiple computers at the same time. You may make one copy of the Software in machine readable form for backup purposes only; provided that the backup copy must include all copyright or other proprietary notices contained on the original.

Certain items of the Software may be subject to open source licenses. The open source license provisions may override some of the terms of this EULA. We make the applicable open source licenses available to you on the Legal Notices section of the Settings menu of your device.

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3. LIMITATIONS ON END USER RIGHTS. You may not reverse engineer, decompile, disassemble, or otherwise attempt to discover the source code or algorithms of, the Software (except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation), or modify, or disable any features of, the Software, or create derivative works based on the Software. You may not rent, lease, lend, sublicense or provide commercial hosting services with the Software.

4. CONSENT TO USE OF DATA. You agree that Samsung and its affiliates may collect and use technical information gathered as part of the product support services related to the Software provided to you, if any, such as IMEI (your device's unique identification number), device number, model name, customer code, access recording, your device's current SW version, MCC (Mobile Country Code), MNC (Mobile Network Code). Samsung and its affiliates may use this information solely to improve their products or to provide customized

services or technologies to you and will not disclose this information in a form that personally identifies you. At all times your information will be treated in accordance with Samsung's Privacy Policy, which can be viewed at: <http://account.samsung.com/membership/pp>.

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