

Samsung GALAXY S[®]4

S C H - R 9 7 0 C
A N D R O I D S M A R T P H O N E

User Manual

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



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Section 1: Getting Started

This section allows you to quickly start using your Samsung GALAXY S4 phone by installing the SIM and (optional) microSD cards, 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 223.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the manual, beginning on page 185.

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

Unless otherwise specified, all instructions in this manual assume that you are starting from the Home screen. To get to the Home screen, you may need to unlock the phone. (For more information, refer to “*Securing Your Phone*” on page 19.)

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

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

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

Special Text

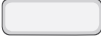
In this manual, you'll find text that is set apart from the rest. These are intended to point out important information, share quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

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

Text Conventions

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

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

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

Setting Up Your Phone

Before using your phone, you need to install the SIM card, the optional microSD card, and the battery.

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

Removing the Battery Cover

1. Locate the cover removal opening.



2. Place your fingernail in the opening and pry the cover away from the device.

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

Installing the Battery Cover

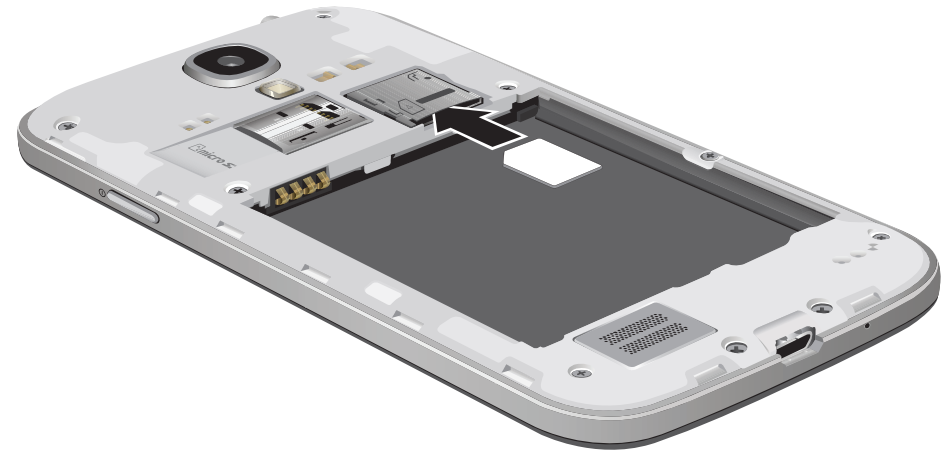
- Align the cover and press it firmly into place, making sure it snaps into place at the corners.



Installing the SIM Card

When you subscribe to a 4G LTE cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, available optional services, and many others features. This SIM card will only work with this device.

1. Remove the battery cover. (See “*Removing the Battery Cover*” on page 8.)
2. Locate the SIM card slot on the top inside of the phone.
3. Make sure the gold contacts of the SIM card face downward and that the notched corner of the card faces outward to the right (as shown).
4. Carefully slide the SIM card into the SIM card socket (as shown) until the card locks into place.



Note: If the SIM card is not inserted correctly, the phone cannot make a network connection.

Once the SIM card is inserted, do not remove it.

Removing the SIM Card

1. Remove the battery cover.
2. Remove the battery.
3. Firmly press the card into the slot and release it. The card should pop partially out of the slot.
4. Remove the card from the slot.
5. Replace the battery cover.

Installing a Memory Card

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

1. Remove the battery cover. See “*Removing the Battery Cover*” on page 8.
2. Locate the microSD card slot on the top inside of the phone.
3. With the gold contacts facing down, carefully slide the memory card into the slot (as shown), pushing gently until it clicks into place.



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

Removing a Memory Card

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

1. Press  **Home**, and then touch  **Menu** → **Settings** → **More** → **Storage** → **Unmount SD card**.
For more information, refer to “*Memory Card*” on page 183.
2. Remove the battery cover. (See “*Removing the Battery Cover*” on page 8.)
3. Firmly press the Memory card into the slot and carefully release it. The card should pop partially out of the slot.
4. Remove the card from the slot.
5. Replace the battery cover. For more information, refer to “*Installing the Battery Cover*” on page 8.

Battery

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

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

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

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

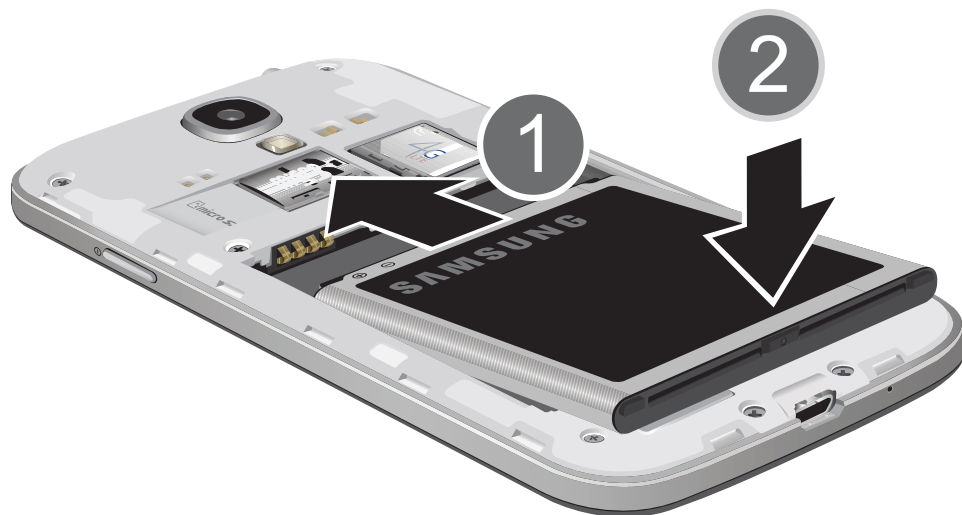
Note: Failure to unplug the wall charger before you remove the battery, can cause damage to the phone.

Battery Indicator

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

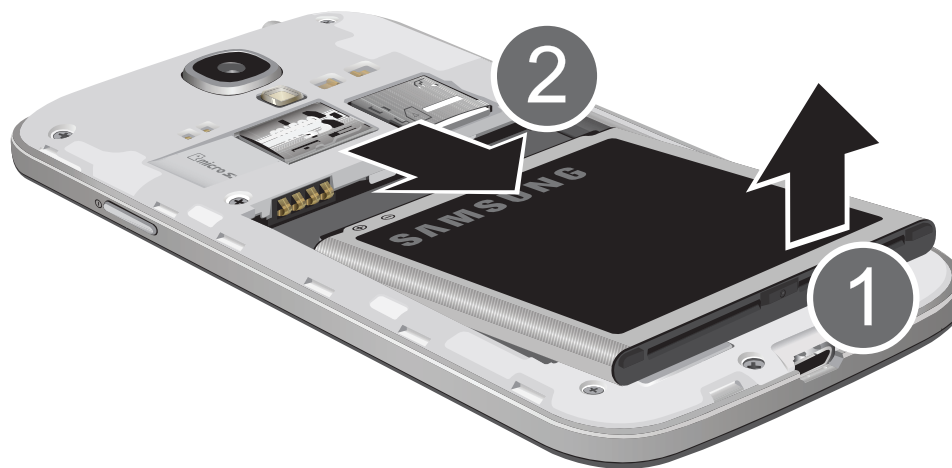
Installing the Battery

1. Remove the battery cover. (See “*Removing the Battery Cover*” on page 8.)
2. Slide the battery into the compartment (1) so that the tabs on the end align with the slots at the bottom of the phone, making sure the connectors align.
3. Gently press down to secure the battery (2).



Removing the Battery

1. Remove the battery cover. (See “*Removing the Battery Cover*” on page 8.)
2. Lift the battery up by the slot provided (1).



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

Charging the Battery

Your phone is powered by a rechargeable Li-ion battery. A wall charger, which is used for charging the battery, is included with your phone. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Before using your phone for the first time, you must fully charge the battery. A discharged battery recharges fully in approximately 4 hours.

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

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

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



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

2. Connect the USB cable to the charging head.



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

Caution! 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, then disconnect the USB cable connector from the device.

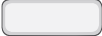
Caution! If your handset has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty. For more information, refer to *“Standard Limited Warranty”* on page 210.

Turning Your Phone On

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

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

Unlocking Your Phone

1. If needed, press Press  **Home** to wake the screen. The Lock screen displays.

Note: If you purchased your phone online, the first time you power your phone on, the Activation Wizard **Welcome** screen displays.

2. If there are no Notification icons on the Lock screen, swipe the screen in any direction to unlock it.
— or —

Swipe the **Camera** shortcut () upward, from the bottom right corner of the screen, to unlock the phone and display the Camera viewfinder screen.

3. Follow the prompts to activate and set-up your phone.

Note: You can choose to configure lock settings to prevent unauthorized use of your device. For more information, refer to “*Lock Screen*” on page 151.

Turning Your Phone Off

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

Initial Device Configuration

When you first turn on your device, you are asked to set up a few things. To complete setup, read and follow the instructions on the screen. You can touch Skip on some screens, while others require reading or other information (touch Next). Touch Back to re-display the information. Some screens display depending on the options you choose.

1. Select a language from the Select language pull down.
2. If required, touch **Accessibility** to change the accessibility settings and tap **Next**.
3. Touch **Next** when the Activate device screen displays.
4. Configure a Wi-Fi connection if you plan to use the device with Wi-Fi. For more information, refer to “*Wi-Fi*” on page 129.
5. Sign in or create a Samsung account, or touch **Skip**.
6. Touch Yes when the **Got Google** screen displays if you have an account, or touch **No** to cancel.
7. Touch **Get an account** or **Not Now** when the **Make it Google** screen displays.
8. Select the appropriate check boxes on the Google and your location screen, and then touch **Next**.

9. Enter your name on the **This phone belongs to...** screen to personalize the phone, and then touch **Done**.
10. Create a Dropbox account or touch **Sign in**, and read the disclaimer. Or touch **Skip**.

Important! If you skip setting up the free 50 GB Dropbox account, your Dropbox account space is limited to 10 GB after initial configuration.

11. Tap each item on the Learn about key features screen to learn more about the feature, then tap **Next**.
Your Device name and model code display.
12. Enter a new device name in this field if you want to change the device name.
This information displays when you use Bluetooth, Wi-Fi Direct, tethering, and other features.
13. Touch **Done → Finish**.
The Home screen displays.

TTY Mode

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

For more information, refer to “*TTY Mode*” on page 74.

Voicemail

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

Setting up Voicemail

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

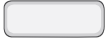
Important! Always use a password to protect against unauthorized access.

Checking Voicemail

1. Press  **Home**, and then touch  **Phone**, and then touch and hold .
2. Follow the automated instructions to create a password, greeting, and a display name.

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

Displaying Your Phone Number

- Press  **Home**, and then touch  **Menu** → **Settings** →  **More** → **About device** → **Status**.
Your phone number displays under **My phone number**.

Your Google Account

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

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

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

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

Creating a Samsung Account

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

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

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 Status Bar of the display. For more information, refer to “*Mobile networks*” on page 149.

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

Note: Contact your Wireless Provider for more information about your coverage area and service plan.

Securing Your Phone

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

For more information about creating and enabling a Screen unlock pattern, see “*Lock Screen*” on page 151.

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

Locking the Phone Manually

- Press the  ① **Power/Lock** key on the top right side of the phone.

Unlocking the Phone

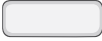
For information on unlocking your phone, see “*Unlocking Your Phone*” on page 15.

Unlocking with a Personal Screen Unlock Pattern

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

For more information, refer to “*Lock Screen*” on page 151.

Unlocking with a Password

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

Section 2: Understanding Your Phone

Features

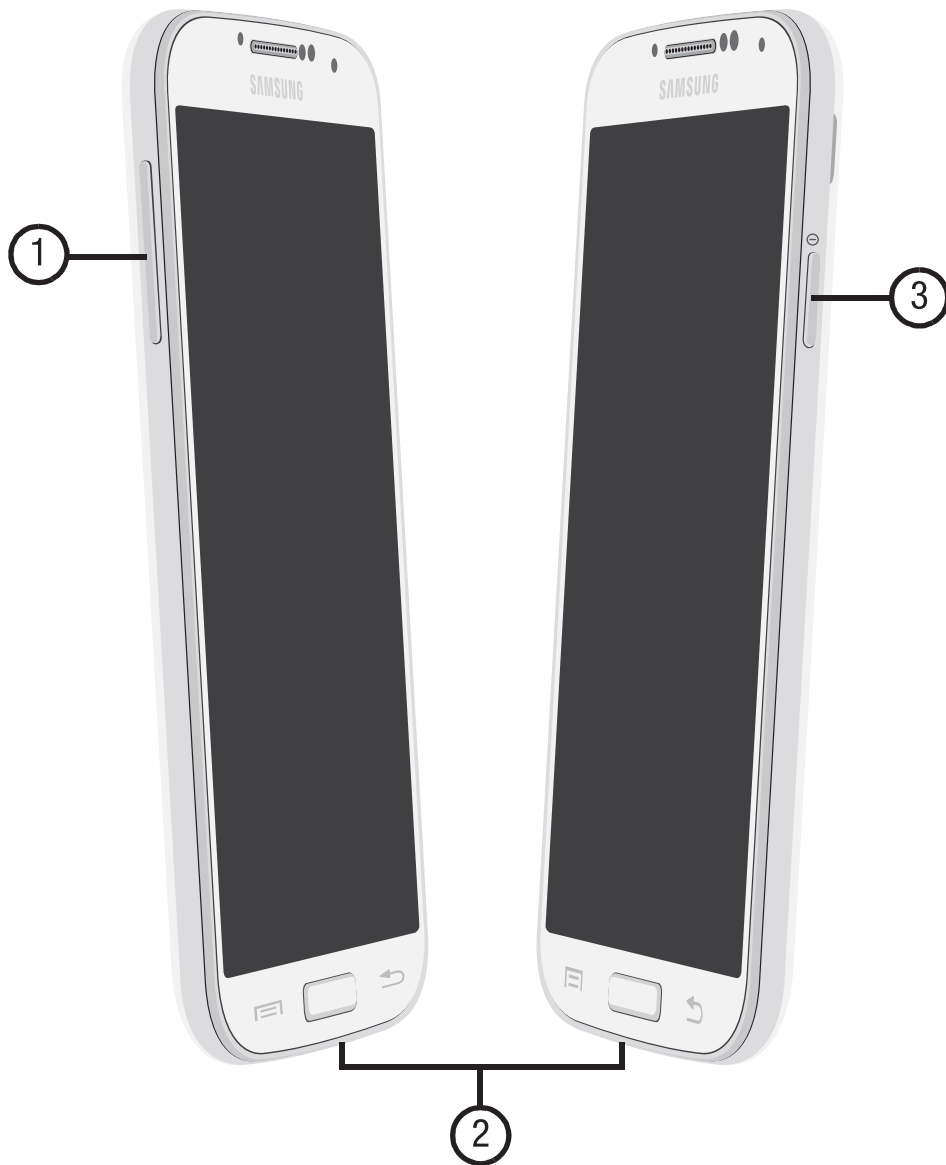
- 5.0-inch 1920x1080 Super AMOLED Full HD touch screen
- CDMA 1X/EV-DO Rev-A /LTE Wireless Technology
- 1.9 gigahertz quad-core processor
- Android® 4.4 platform
- Google Play™ Store, plus pre-loaded applications
- SAFE™ Certified
- Galaxy Gear™ compliant. For a list of compatible smart phones, please visit: www.samsung.com/us/galaxygearsupport.
- Support for Air View® and Air Gestures®.
- Connections
 - Wi-Fi 802.11 a/b/g/n/ac
 - Tethering (USB and Bluetooth)
 - NFC
 - S Beam
 - AllShare Cast
 - WatchON® – Rich TV experience with Infrared (IR) remote
 - Portable Wi-Fi Hotspot
 - Bluetooth 4.0
 - VPN
 - Android Beam
 - Wi-Fi Direct
 - DLNA
 - USB 2.0
 - Printing
- Samsung Link™ to share your media content across connected devices. Cloud connectivity is enabled via the use of an external Web storage service.
- Messaging Services
 - Text Messaging
 - Video Messaging
 - Email
 - Mobile Instant Messenger (IM)
 - Picture Messaging
 - Voice Messaging
 - Gmail
 - Chat
- 13 Megapixel Camera-Camcorder with LED flash and 2 Megapixel Front Camera-Camcorder
- Picture Gallery
- Video Player (1080p–MP4 and 3GP)
- DivX Certified® to play DivX® video up to HD 720p, including premium content
- Music Player (AAC, AAC+, eAAC+, MP3, and WMA)
- Speakerphone
- Support for microSD™ and microSDHC™ memory cards up to 64GB capacity

Front View



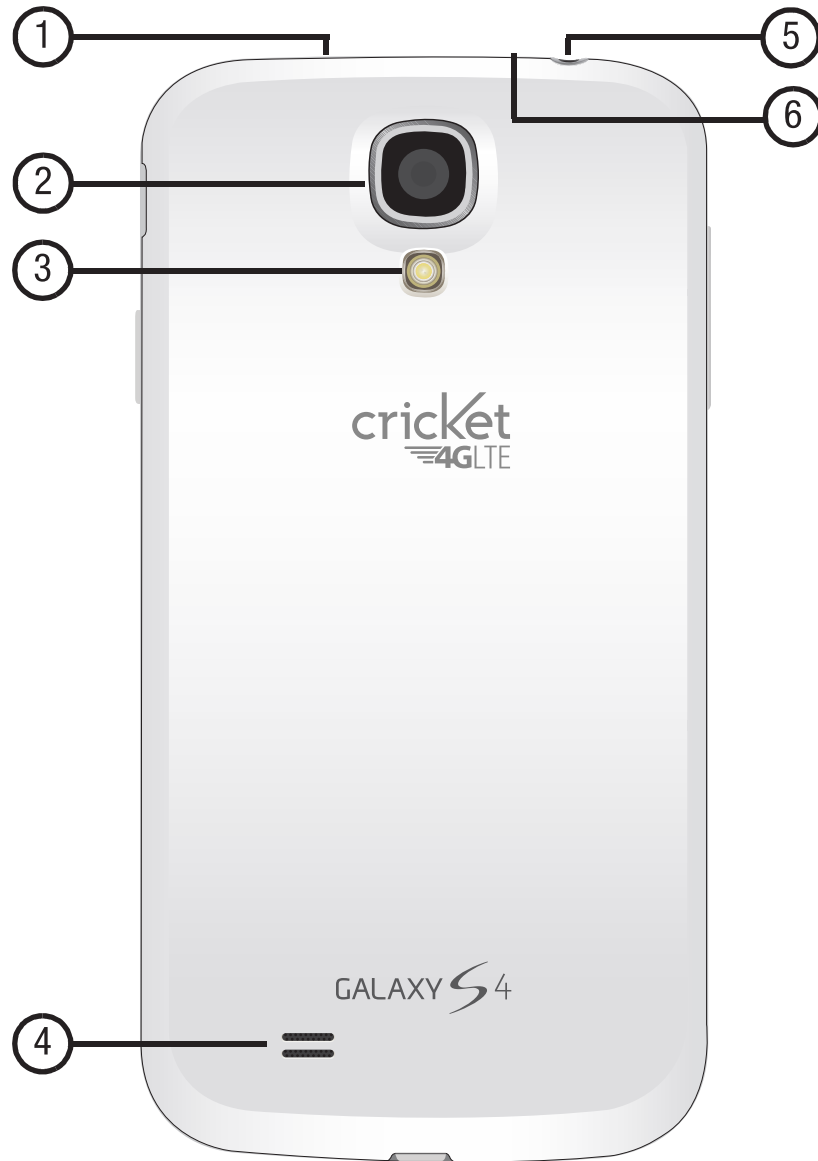
1. **Earpiece:** Use during calls to listen to callers.
2. **LED Indicator:** Flashes or glows to alert you to alert notifications or phone status.
3. **Menu Key:** Press to display options for the current screen.
4. **Home Key:** Press to display the Home screen, or Lock screen if the phone is locked. Press and hold to display recent applications or to launch Task Manager.
5. **Microphone:** Use during calls to allow callers to hear your voice, and when recording.
6. **Back Key:** Press to return to the previous screen or option.
7. **2 Megapixel Front Camera:** Use for taking pictures and recording video.
8. **Proximity and Light Sensors:** Detect the presence of nearby objects to control device functions or blank the screen display, such as when you hold the phone to your ear during a phone call. Detect ambient light to determine screen brightness when **Brightness** is set to **Automatic brightness** (see “*Brightness*” on page 154), and when taking pictures with the Front camera.

Side Views



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

Back View



1. **Infrared Transmitter:** Use when controlling media devices remotely.
2. **13 Megapixel Camera Lens:** Use when taking photos or recording videos.
3. **Camera Flash:** Use when taking photos.
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.
6. **Noise Cancellation Microphone:** Captures background noise that the phone uses to produce a quiet background during calls and video chats.

Google Search Bar

The Google Search Bar provides you an on-screen Internet search engine powered by Google.

1. From the main Home screen, tap the Google Search bar .
2. Use the on-screen keypad to enter the item you want to search for, then tap .
3. Tap  to use Google Voice Search and follow the prompts.

Navigation

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

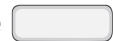
Warning! Please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty. (For more information, see “*Warranty Information*” on page 210.)

Command Keys

Menu Key

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

Home Key

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

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

Back Key

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

Finger motions

Touch

Touch items to select or launch them. For example:

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

Touch and hold

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

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

Swipe

Swipe your finger vertically or horizontally across the screen. For example:

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

Pinch

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

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

Palm Swipe

Swipe the side of your hand horizontally across the screen. For example:

- Creating a screen capture

Motions and gestures

By activating the various motion and gesture features, you can access a variety of time saving functions.

Air Gestures

Your phone recognizes motion near its screen. You can control several functions of your phone by moving your hand near the screen. (To enable Air gestures, see “*Motions and Gestures*” on page 172.)

- **Quick glance:** When this option is set to On and your phone is lying on its back with the screen is off, you can see selected important information (such as the time and date, notification icons, missed calls, unread messages, battery charge level, and current music information) by reaching upward toward your phone’s screen.
- **Air jump:** When this option is set to On, you can scroll web pages or email messages by moving the edge of your hand up or down near the screen.
- **Air browse:** When this option is set to On, you can browse pictures, pages, or music tracks by moving the edge of your hand left or right near the screen.

- **Air move:** When this option is set to On, you can move app shortcuts to other home screen panels or Apps screen panels by touching and holding a shortcut with one hand, then moving the edge of your hand left or right near the screen.
- **Air call-accept:** When this option is set to On, you can answer incoming calls by waving your hand left and right parallel to the screen.

Motions

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

To use motions to control your phone, enable the **Motion** settings. (For more information, see “*Motions and Gestures*” on page 172.)

- **Pick up:**
 - **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 be automatically notified of missed calls, messages, and alerts that occurred while the phone was stationary.

- **Tilt:**
 - **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:**
 - **Browse an image:** When this option is set to On, moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Turn over:**
 - **Mute/pause:** When this option is set to On, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.

Palm motions

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

- **Capture screen:** 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.
- **Mute/pause:** When this option is set to On, covering the screen with your hand mutes or pauses media playback.

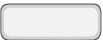
Using Multi Window

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

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

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

Enabling Multi Window

1. Press  **Home**, and then touch  **Menu** → **Settings**.
2. Touch the  **My device** tab. The **My device** menu displays.
3. Under **Personalization**, touch **Display**, and then touch **Multi window** to enable the feature. A check mark displays in the check box to indicate that the **Multi window** feature is enabled.

Displaying and Hiding the Multi Window Tab

To display the Multi window tab and tray:

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

To hide the Multi window tab:

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

Using Multi Window to Run Multiple Apps on the Same Screen

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

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

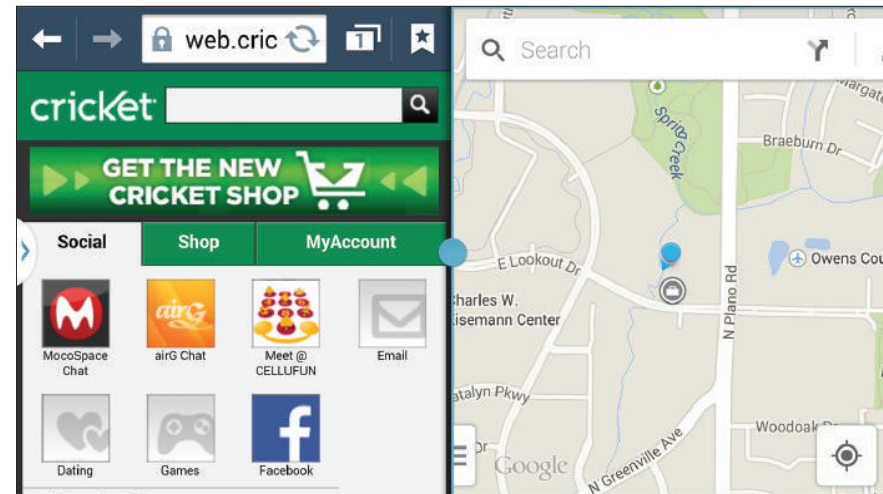
If you run two apps that play multimedia files (music/video), sound from both apps will play at the same time.

1. Launch an app.

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

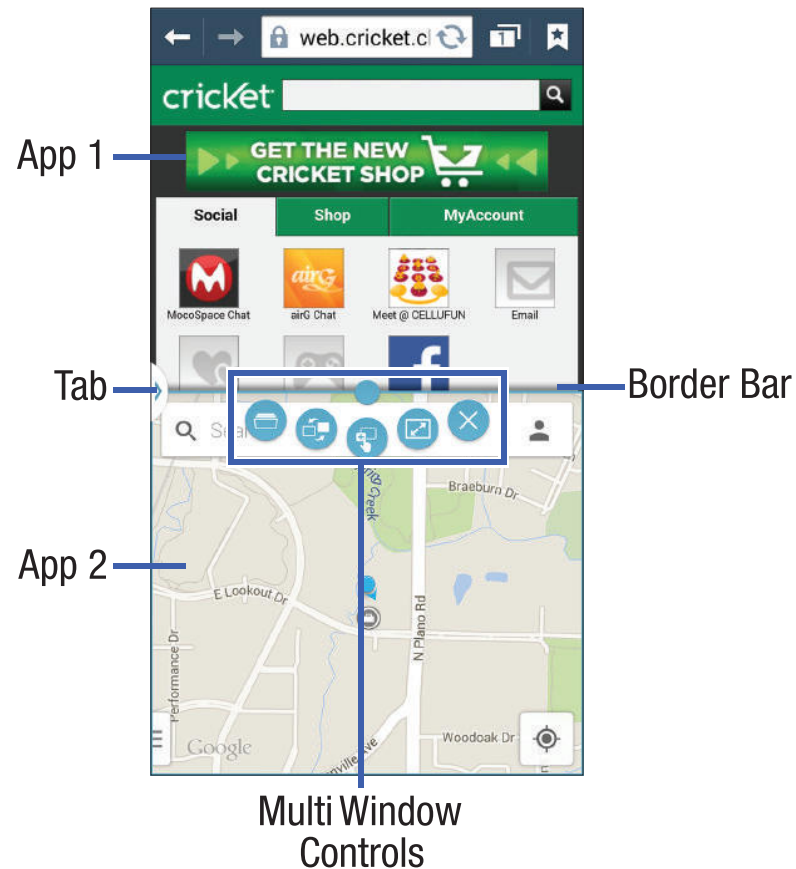
2. Position the phone in either portrait or landscape orientation.
3. Display the Multi window tab. (See “*To display the Multi window tab and tray:*” on page 27.)
4. Touch the Multi window tab to display the apps tray.
5. Touch and hold the desired app, such as  **Maps**, until it detaches from the tray.

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



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

Window Controls



Select an application window and touch  in the middle of the windows. Window controls appear:

-  Open a recent app in Multi Window.
-  Switch locations between Multi Window applications.
-  Share items between the application windows. Drag an item to share from one window to another. Some applications may not support this feature.
-  Maximize the application.
-  Close the application.

Creating a Paired Window

Use this feature to save the combination of current running Multi Window applications.

On the Multi Window panel:

1. Touch  to access the panel controls.
2. Touch  **Create**.
3. Enter a title and then touch **OK**.

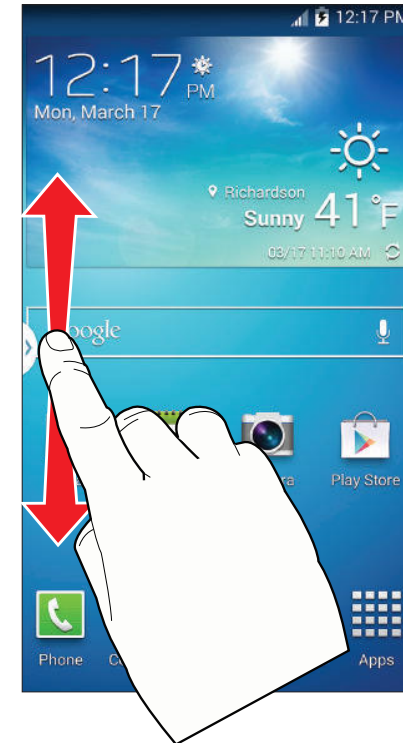
Moving the Multi Window Tab

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

To move the tab along a side:

1. Display the Multi window tab. (See *“To display the Multi window tab and tray:”* on page 27.)
2. Touch and hold the tab for approximately one-second, then slowly drag it to its new location **along the current** screen edge.

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



To move the tab and tray to another side:

1. Display the Multi window tab. (See *“To display the Multi window tab and tray:”* on page 27.)
2. Touch the tab to display the apps tray (containing the scrollable apps).

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

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



Customizing the Multi Window Tray

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

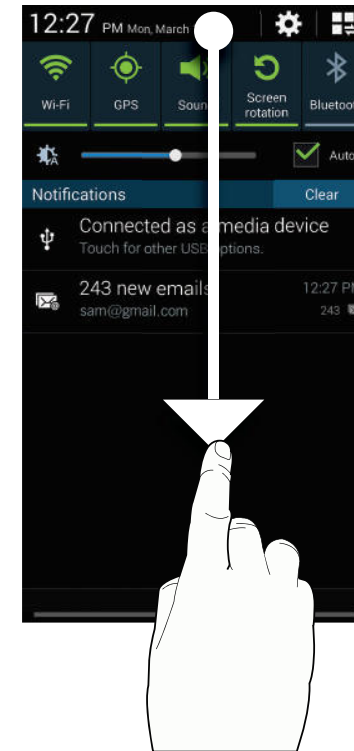
You can rearrange the apps on the Multi window panel, add new apps or remove apps.

On the Multi Window panel:

1. Touch  to access the panel controls.
2. Touch  **Edit**.
3. Configure apps:
 - To remove an app from the panel, drag it off of the panel and place it in the storage area.
 - To add an app to the panel, drag it from the storage area to the panel.
 - To relocate an app, drag it to a new location.
4. Touch  **Back** to return to the previous screenw

Notifications

Notifications shows information about connections, alerts and other items.



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

Quick Setting Bar

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

- **Wi-Fi:** Turn Wi-Fi On or Off. (For more information about using Wi-Fi, see “*Wi-Fi*” on page 129.)
- **GPS:** Turn Standalone GPS services on or off. (For more information, see “*Location Services*” on page 177.)
- **Sound:** Touch to switch between your sound settings, and the two Silent modes, Mute and Vibrate. (For more information, see “*Volume*” on page 157.)
- **Screen rotation:** Enable or disable the Auto rotation setting, to control whether the screen automatically updates when you rotate the phone. (See “*Auto-Rotate Screen*” on page 154.)
- **Bluetooth:** Turn Bluetooth On or Off. (For more information about using Bluetooth, see “*Bluetooth*” on page 133.)
- **Reading mode:** allows you to activate an optimized reading mode for selected applications. This menu allows you to assign available applications (such as Calculator, Camera, Contacts, etc...) for enhancement using the Reader mode.
- **Mobile data:** Activate or deactivate your phone’s access to mobile data. (For more information, see “*Mobile networks*” on page 149.)
- **Blocking mode:** Enable or disable the Blocking mode setting, to control which notifications you receive. (For more information, refer to “*Blocking Mode*” on page 162.)
- **Power saving:** Enable or disable Power saving mode. (For more information, see “*Power Saving Mode*” on page 164.)
- **Multi window:** Enable or disable Multi window mode. (For more information, refer to “*Using Multi Window*” on page 27.)

Changing Quick Settings Bar

You view and use all of the available Quick Setting buttons, and select which buttons appear at the top of the Notifications shade.

1. Display the notifications panel by touching and dragging downward from the top of the screen.
2. Touch . The Notifications shade is replaced by an array of the available Quick Setting buttons.
3. Touch  **Edit**.
4. Follow the instructions under **Set the quick setting buttons**.

Clearing Notifications

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

Home Screen

The Home screen is the starting point for using your phone. Place shortcut icons, widgets, and other items to customize your phone to your needs.



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. **Multi Window Tab:** Access Multi window tray. (See “*Using Multi Window*” on page 27.)
3. **Primary Shortcuts:** Shortcuts to your phone's common apps. (See “*Primary Shortcuts*” on page 38.)
4. **Panel Indicator:** Shows what panel of 7 available Home screen panels displays.
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 apps. (See “*Shortcuts*” on page 38.)
6. **Widget:** Apps that run on the Home screen. This widget is found on the Home screen by default, and you can add your favorites. (See “*Widgets*” on page 39.)

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 148.



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



Voice Call: A voice call is in progress.



Speakerphone: Speakerphone is enabled.



Missed Call: Displays when there is a missed call.



Mute: Voice or playback volume is muted.



Battery Level: Shown fully charged.



Battery Charging: Battery is charging.



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



GPS Location Active: One or more GPS location services are active. See “*Location Services*” on page 177.



Missing SIM: No LTE SIM is installed.



No Network: No wireless network is available.



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



4G LTE Connection: Phone is active on a 4G LTE system.



DLNA Active: Displays when your device is connected and being used to control streaming media. The device is connected to a Digital Living Network Alliance (DLNA) certified device using the Samsung Link application.



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:



Silent mode: All sounds except media and alarms are silenced, and Vibrate is not active. See “*Volume*” on page 157.



Vibrate: All sounds are silenced, and Vibrate is active. See “*Volume*” 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.



Bluetooth Active: Bluetooth is turned on.



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



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



Wi-Fi Action Needed: Action needed to connect to Wi-Fi network. For more information about configuring Wi-Fi, see “*Wi-Fi*” on page 129.



TTY: TTY Mode is active.

Display Settings

You can customize display settings to your preferences. For more information, see “*Display Settings*” on page 153.

Extended Home Screen

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

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

Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add Shortcuts:** For more information, see “*Shortcuts*” on page 38.
- **Add Widgets:** For more information, see “*Widgets*” on page 39.
- **Add Folders:** For more information, see “*Folders*” on page 39.
- **Change the Wallpaper:** For more information, see “*Wallpaper*” on page 40.

Adding and Removing Home Screen Panels

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

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

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

2. Use these controls to configure panels:



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



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



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

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

Primary Shortcuts

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

Editing the Primary Shortcuts

To add Primary Shortcuts:

1. To a Home screen panel, add a shortcut that you want to make a Primary Shortcut. (For more information, see “Shortcuts”.)
2. Touch and hold the added shortcut, then drag it from the Home screen to the Primary Shortcuts.

If the Primary Shortcuts bar already holds five shortcuts, adding another shortcut automatically moves the closest existing Primary Shortcut to the Home screen.

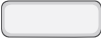
To remove Primary Shortcuts:

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

Shortcuts

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

Adding Shortcuts to the Home Screen From the Home Screen

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

Adding Shortcuts from Apps

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

Removing Shortcuts

- Touch and hold the shortcut until  **Remove** displays, then drag the shortcut to the Remove icon.

Widgets

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

Adding Widgets to the Home Screen

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

Adding Widgets from Apps

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

Removing Widgets

- Touch and hold the widget until  **Remove** displays, then drag the widget to the **Remove** icon.

Folders

Place folders on the Home screen to organize items.

Adding Folders

1. Press the  **Home** key.
2. Touch and hold on the screen to display the **Home screen** menu, then under **Add to Home screen** touch **Folder**.
– or –
Touch  **Menu** → **Create folder**.
3. Enter a name for the folder and touch **OK**.

Removing Folders

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

Wallpaper

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

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

Tip: You can also set Wallpaper in Settings. (For more information, see *“Wallpaper”* on page 153.)

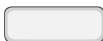
Apps

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”* on page 83.)

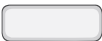
You can place shortcuts to apps on the Home screen, for quick access to the app. (For more information, see *“Adding Shortcuts from Apps”* on page 38.)

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

Customizing the Apps Screens

Choosing a View

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

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

Apps Screen Options

1. Press the  **Home** key, and then touch  **Apps**.
2. Touch  **Menu** for options:
 - **Play Store**: Launch Google Play Store, to browse for new apps to download.
 - **Edit**: Touch and hold an app icon for these options:
 - Drag it to a new location.
 - Drag it to  to create a new folder to contain the icon.
 - Drag it to  to create a new apps screen and place the icon on it.
 - Drag it to  to launch Application manager to view information about the app. (For more information, refer to “Application Manager” on page 182.)
 - Drag it to  (if available) to Uninstall the app.

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

- **Create folder**: Add folders in which to group your apps.

- **Uninstall:** Remove an app that you downloaded from your phone. Pre-loaded apps cannot be un-installed.
- **Downloaded applications:** Display all apps you've downloaded.
- **View type:** Configure the apps screen.
- **Share apps:** Share apps you've downloaded with others using *Add to Dropbox, Bluetooth, ChatON, Copy to clipboard, Drive, Email, Flipboard, Gmail, Google+, Hangouts, Messaging, S Memo, or Wi-Fi Direct.*
- **Hide applications/Show hidden applications:** Control whether selected apps icons appear on Apps panels. Hiding an icon does not uninstall the app from your phone.

Entering Text

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

Keyboards and Input Methods

There are three text input methods available:

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

(To change the input method, see *"Default Input Method"* on page 167.)

Using the Google Voice Typing Feature

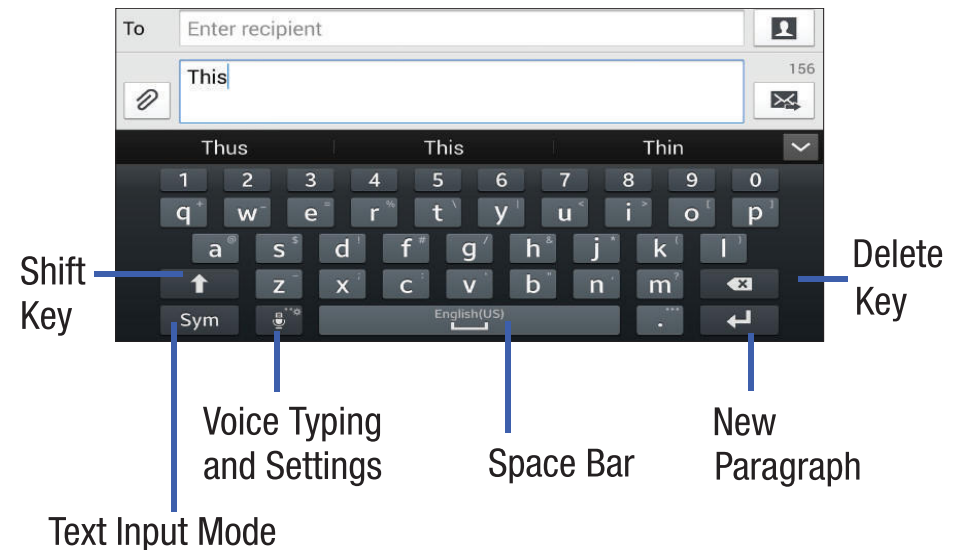
You can use your voice to enter text using the Google Voice typing feature.

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

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

Entering Text Using the Samsung Keyboard

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



Changing the Text Input Mode—Keypad

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

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

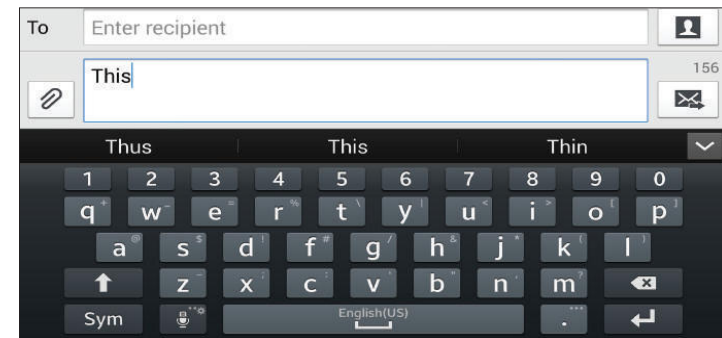
Sym **Symbol/Numeric Mode:** Activates the number, symbol, and emoticon keys.

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

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

Using ABC Mode

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



3. Touch the desired letter or number keys.

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

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

Using Symbol/Numeric Mode

Use Symbol/Numeric Mode to add numbers or symbols.

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



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

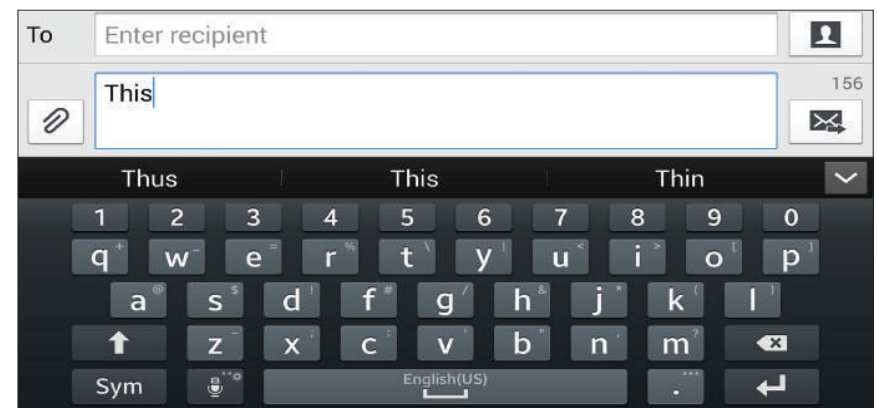
Predictive Text

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

Note: Predictive text is turned ON by default.

Turning Predictive Text ON:

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



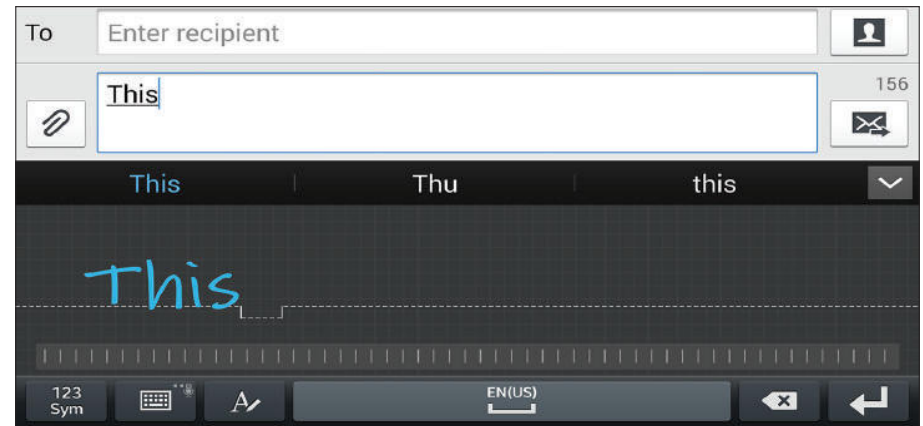
4. Continue typing your message. Touch  to send the message or press  **Menu** for more options. (For more information, refer to “*Creating and Sending Messages*” on page 75.)

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

Entering Text Using Handwriting

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

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



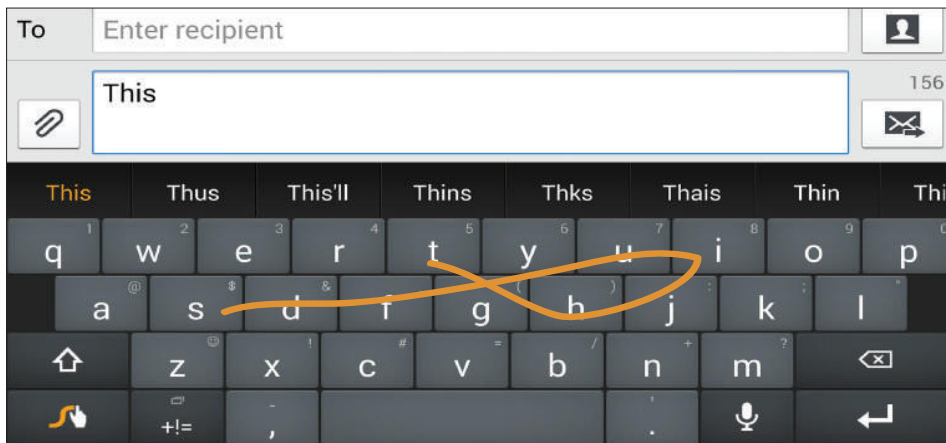
Samsung Keyboard Settings

For information on how you can configure your Samsung keyboard settings, see “*Samsung Keyboard*” on page 167.

Entering Text Using Swype

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

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



Swype Text Entry Tips

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

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

Enabling and Configuring Swype

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

To enable Swype:

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

Swype Settings

For information on how you can configure your Swype settings, see “Swype” on page 169.

Section 3: Accounts and Contacts

Accounts

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

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

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

Setting Up Your Accounts

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

For information about setting up other, non-synchronized email accounts, see “*Configuring Email Accounts*” on page 80.

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

Adding an Account

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

Controlling Synchronization

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

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

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

3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account displays listing some or all of the following synchronization settings:

- Sync App Data
- Sync Calendar
- Sync Contacts
- Sync Drive
- Sync Email
- Sync Gmail
- Sync Google Photos
- Sync Google Play Books
- Sync Google Play Magazines
- Sync Google Play Movies & TV
- Sync Google+
- Sync Google+ Auto Backup
- Sync People details
- Sync Google Play Music
- Sync Internet
- Sync Picasa Web albums
- Sync Memos
- 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.

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

Google Account Privacy Settings

Personalize the Privacy settings for Google accounts:

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

Managing Accounts

1. From the Home screen, touch  **Menu** →  **Settings** →  **Accounts**.
2. Under **My accounts**, touch the desired account type. The related account type screen displays.
3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account displays. (For more information, refer to “*Controlling Synchronization*” on page 49.)
4. To enable or disable a synchronization setting, touch it. When enabled, a check mark displays in the check box.
5. To invoke the enabled synchronization settings for the selected account, touch **Sync now**.
6. To remove the selected account from your phone, touch **Remove account**. A **Remove account?** pop-up prompts you to confirm the removal.
To remove the selected account, touch **Remove account**.

Contacts

To access Contacts:

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

Contact tips:

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

Adding Contacts

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

Add contact.

- If you have defined accounts (Google, Samsung, and so on), the **Save contact to** pop-up displays. Select **Device** or the account to receive the new Contact entry.
- If you have not defined any accounts, the **Save contact** pop-up displays. The following options are available:
 - **OK**: Saves your contacts in “**my device contacts**”.
 - **Add new account**: Lets you define an account to which your device will save your contacts. The **Add new account** screen displays. (For more information, refer to “*Setting Up Your Accounts*” on page 49.)

2. Touch **Device** to store the contact on your phone, or touch an account to store the contact.
3. Touch each field to enter information. To add an additional entry, touch . To delete an entry, touch .
 - Touch  **Add Photo ID** to choose a picture to identify the contact.
 - Touch the **Name** field to enter a name for the contact. Touch  to display additional name fields.
 - Touch the **Phone number** field to enter a phone number. Touch  to choose a label for the number.
 - Touch the **Email** field to enter an email address. Touch  to choose a label for the email address.
 - Touch **Groups** to assign the contact to a group.
 - Touch **Ringtone** to select a ringtone to identify a contact's calls.
 - Touch **Message alert** to choose a ringtone to play for new messages from the contact.
 - Touch **Vibration pattern** to choose a vibration to play for new calls or messages from the contact.
 - Touch **Add another field** for additional contact fields.
4. When you are finished entering information, touch **Save**.

Creating Contacts from Recent Calls

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

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

Creating Contacts from the Phone Keypad

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

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to contacts**, then select **Create contact** from the pop-up menu.
4. Continue entering contact information. (For more information, refer to “*Adding Contacts*” on page 52.)

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

Updating Contacts

Make changes to update an existing contact.

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to view its information, and then touch  **Edit**.
3. Continue entering contact information. (For more information, refer to “*Adding Contacts*” on page 52.)

Updating Contacts from the Phone Keypad

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

1. From the Home screen, touch  **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to contacts**, then select **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 52.)

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 62.

Choosing Contacts to Display

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

Contacts Settings

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Settings**:
 - Select **Only contacts with phones** to show contacts with at least one stored phone number.
 - Touch **List by** to sort contacts by first or last name.
 - Touch **Display contacts by** to list contacts by first or last name.
 - Touch **Contact sharing settings** to set your preference for sending contacts name cards to other accounts or devices. (For more information about sending contacts, see “*Sending Namecards*” on page 56.)

Other Contacts Options

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display it, and then touch  **Menu**:
 - **History**: View calls and messages to and from this contact.
 - **Edit**: Modify contact information. For more information, refer to “*Updating Contacts*” on page 53.
 - **Delete**: Erase the contact record.
 - **Link contact/Separate contact**: Manage multiple contacts as one. For more information, refer to “*Linking Contacts*” on page 55.
 - **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 56.)
 - **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 **Remove 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 via Bluetooth or as an attachment to messages.

Creating My Local Profile

1. From the Home screen, touch  **Contacts**.
2. Under **ME** touch your Google account name or **Set up profile**.
3. Enter your information in the contact fields. (For more information, refer to “*Adding Contacts*” on page 52.)

Sending My Local Profile

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

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

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 for 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**, and then touch **Link contact**. A list of available contacts displays.
4. Select a contact to link to the displayed contact. The linked contact displays.

To link another contact:

1. While displaying a contact's information, touch . The *Linked contact* screen displays. Touch **Link another contact** and select a contact.

Separating Contacts

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to display its information.
3. Touch . The *Linked contact* screen displays.
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 from a memory card.

1. From the Home screen, touch  **Contacts**.
2. Touch  **Menu**, and then touch **Import/Export**.
3. Select an option, then follow the prompts to complete the operation:
 - **Import from USB storage:** Copy contacts that are saved in installed mass storage.
 - **Export to USB storage:** Copy contacts to installed mass storage.
 - **Import from SD card:** Copy contacts that are saved on an installed memory card.
 - **Export to SD card:** Copy contacts to an installed memory card.

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**, and then touch **Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. Contacts may be selected from the *Contacts*, *Favorites*, or *Groups* tabs.
4. Touch **Done**.
5. Choose a sending method from the **Share namecard via** pop-up, then follow the prompts to send the profile.

Favorites

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

Creating Favorites

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

– or –

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

Groups

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

Adding a New Group

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

Editing a Group

1. From the Home screen, touch  **Contacts** →  **Groups**.
2. Touch a Group to display it.
3. Touch  **Menu** → **Edit group**, and then update information for the group. For more information, see “Adding a New Group” on page 57.

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. 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, and then touch .
3. Touch contact(s) to mark them for addition, or touch **Select all** to mark all contacts. When selected, a check mark 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, and then touch **Send message** or **Send email**.
3. Touch contacts to mark them as recipients for the new message, and then touch **Done**.
4. The new message opens, with the marked contacts as recipients. Continue creating the message, as desired. (For more information, refer to “*Creating and Sending Messages*” on page 75, or “*Composing and Sending Email*” on page 80.)

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 60.

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

Assigning Speed Dials

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

Removing or Reassigning a Speed Dial

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

Section 4: Calling

Making Calls

Your phone offers multiple ways to make calls:

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

Making Calls Using the Phone Keypad

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

Making Calls Using Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact. (For more information about setting speed dials, see “*Speed Dials*” on page 59.)

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

Making Calls from Contacts

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

(For more information, refer to “*Contacts*” on page 52.)

1. From the Home screen, touch  **Phone**.
2. Touch the **Contacts** tab.
3. Locate the contact and touch it to open the Contact entry.
4. Touch  next to the number to dial.

Making Calls Using S Voice

Place a call by speaking the name or number.

1. From the Home screen, touch  **Menu** →  **Apps** →  **S Voice**.

– or –

From the Home screen, press  **Home** twice in quick succession.

2. Read and respond to the prompts.
3. Say “Hi Galaxy” to wake up S voice.
4. Follow the prompts to speak a command. You can say commands such as:
 - **Call <Name>**: Call an entry in your Contacts list.
 - **Dial <Phone number>**: Call a spoken phone number.
 - **Redial**: Repeat a recent call.

Making Calls Using Favorites

Favorites are contacts that you designate as favorites by starring them. (For more information about creating favorites, see “Favorites” on page 57.)

1. From the Home screen, touch  **Phone**.
2. Touch  **Favorites** to display favorites.
3. Find the contact and touch it to open the Contact entry.
4. Touch  next to the number to dial.

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**.
2. Touch  **Recent** to display recent calls.
3. Swipe your finger from left to right across the call to redial.
– or –
4. Touch  next to the number to dial.

Sending Messages Using Recent Calls

1. From the Home screen, touch  **Phone** →  **Recent**.
2. Swipe your finger from right to left across the call.
– or –
For a contact call, touch , and then touch  to create a message to the number.

Creating or Updating Contacts Using Recent Calls

1. From the Home screen, touch  **Phone** →  **Recent**.
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 52.

Managing Recent Calls

To delete records:

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

To filter records:

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

Answering a Call

When somebody calls you, the phone rings and displays the incoming call image. The caller's phone number, picture, or name if stored in Contacts List, displays.

- At the incoming call screen:
 - Touch and slide  in any direction to answer the call.
 - Touch and slide  in any direction to reject the call.
 - Touch and drag the **Reject call with message** tab upward and tap a predefined rejection message or tap **Create new message** to create a new custom outgoing response.

Pressing the Volume down button mutes the ringer.

Answering a Call with Air Gesture

1. Verify the Air Gestures feature is on and Air call-accept is active. For more information, refer to “*Motions and Gestures*” on page 172.
2. At the incoming call screen, wave your hand over the screen to accept the incoming call.

Managing Reject Calls

This feature allows you to categorize both known and unknown callers as rejected contacts. These Contacts are then added to your Rejection list which can be managed for individual entries from within the Contacts list or as a whole from the Call rejection screen.

1. From the Home screen, touch .
2. Press  **Menu** and then tap **Call settings** → **Call rejection**.
3. Tap the **Auto reject mode** field to configure your automatic rejection settings. Rejected calls are routed automatically to your voicemail. Choose from:
 - **Off**: disables the auto rejection feature.
 - **All numbers**: enables the features for all known and unknown numbers, including those contacts that are not assigned to the rejection list.
 - **Auto reject numbers**: automatically rejects all entries assigned to the Reject list/Blacklist.

Adding Numbers to the Rejection List

Entries can be added to the list via either the Contacts menu or via the Auto reject list menu. The Contacts menu option assigns all numbers for an individual as rejected. The Auto reject list allows to assign individual numbers.

To assign multiple numbers as rejected via Contacts:

1. From the Home screen, touch  **Contacts**.
2. Touch a contact to view its entry.
3. Press  **Menu** and then tap **Add to reject list**. All phone numbers associated with this entry are then added to the reject list.

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**.
2. While viewing calls, touch  **Menu**, and then touch **Call duration**.

International Calls

1. From the Home screen, touch  **Phone**
2. Touch and hold  until the device displays “+” on the screen.
3. Use the keypad to enter the country code, area code, and phone number.
4. Touch  once to delete a single digit.
– or –
Touch and hold  to delete all digits.
5. Touch .

Pause Dialing

You can dial or save phone numbers with pauses for use with automated systems, such as voicemail or financial phone numbers.

- **2-Second Pause** automatically sends the next set of numbers after a two-second pause. This is indicated in the number string as a comma (,).

1. From the Home screen, touch  and then touch the **Keypad** tab.
2. Use the on-screen keypad to enter the phone number.
3. Press  **Menu** and then tap **Add 2-sec pause**. This feature adds an automatic two-second pause.
4. Use the keypad to enter the additional numbers that will be dialed automatically after the second pause.

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

5. Tap .

Wait Dialing

Inserting a Wait into your dialing sequence means that the phone waits until it hears a dial tone before proceeding with the next sequence of numbers.

- **Wait** sends the next set of numbers only after tapping **Yes**. This is indicated in the number string as a semicolon (;).

Note: Do not add multiple Waits (;) to a number string as this will continue to prompt you after each sequence.

1. From the Home screen, touch  and then touch the **Keypad** tab.
2. Use the keypad to enter the phone number.
3. Press  **Menu** and then tap **Add wait**. This feature causes the phone to require your acceptance before sending the next set of entered digits.
4. Tap .
5. Once prompted to **Send the following tones?**, tap **Yes** to dial the remaining digits.

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 press .
4. Touch **Merge** to merge the calls into one conference call.
5. To end the call touch .

Answering Calls

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

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

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

Sending Calls to Voicemail

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

Rejecting a Call

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

Rejecting a Call with a Message

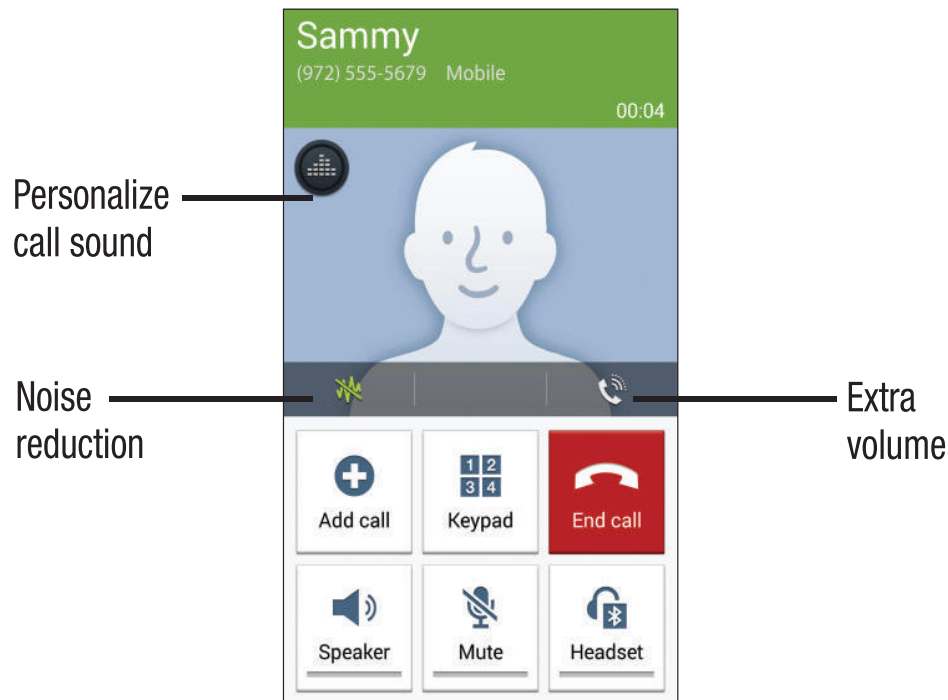
- Touch and drag **Reject call with message** toward the middle of the screen, then select an existing message, or **Create new message**.

Answering Call-Waiting Calls

When you receive a call while on a call:

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

Options During a Call



- **Add call:** Display the Dialer to set up a multi-party call.
- **Keypad:** Display a keypad to enter numbers.
- **End call:** End the phone call.
- **Speaker:** Enable or disable speakerphone.
- **Mute:** Mute or unmute your voice on the call.
- **Headset:** Switch the call's audio to a Bluetooth headset.
- Touch  **Menu** for options:
 - **Contacts:** Launch Contacts.
 - **Message:** Launch Messaging to view or create messages.
 - **Memo:** Launch S Memo to take notes in text, or create a drawing.

Ending a Call

- Touch .

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

Call Settings

Configure settings for calling with your phone.

Call Rejection

Manage your list of phone numbers which will be automatically rejected.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Call rejection** for options:
 - **Auto reject mode**: Set how the phone responds for rejected calls. Options: Off, All numbers, or Auto reject numbers (only those numbers listed on the Auto reject list).
 - **Auto reject list**: Enter phone numbers to reject. 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 rejecting incoming calls. Messages you create here are available from the incoming call screen when you use the *Reject with message* option.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Set up call rejection messages**.
3. Manage messages:
 - To create new messages, touch **Create**, then follow the prompts.
 - To modify an existing message, touch the message and edit the text.

Answering/Ending Calls

Manage settings for answering and ending calls.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Answering/ending calls**.
3. Configure options:
 - **The home key answers calls:** Answer an incoming call by pressing the  **Home Key**.
 - **Voice control:** Answer calls by speaking commands.
When enabled, you can answer or reject calls with the voice commands “Answer” and “Reject.” When you answer a call with a voice command, the speaker will automatically turn on for hands-free calls.
 - **The power key ends calls:** End a call by pressing the  ⓘ **Power/Lock Key**. In this case, pressing the Power/Lock Key during a call will not lock the screen.

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 phone to your ear.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Turn off screen during calls** to enable or disable the feature.

Call Alerts

Set options for sounds and vibrations to occur during calls.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Call alerts**.
3. Configure options:
 - **Vibrate on connection to network:** Vibrate the phone when a call connects to the network.
 - **Call-end vibration:** Vibrate the phone when the other caller ends the call.
 - **Call connect tone:** Play a tone when the person you called answers .
 - **Minute minder:** Play once per minute during a call.
 - **Call end tone:** Play a tone when the other caller ends the call.
 - **Alerts on call:** Play notifications for alarms and new messages play during calls.

Call Accessories

Configure options for using a headset (not included).

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Call accessories**.
3. Configure settings:
 - **Automatic answering:** When a headset is connected, incoming calls are answered automatically after a delay (set with the *Automatic answering timer* setting).
 - **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 device.
 - **Outgoing call conditions:** When a Bluetooth headset is connected, allow calls to be made even when the device is locked.

Ringtones and Keypad Tones

Choose tones and vibration to use for incoming calls and keypad touches.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Ringtones and keypad tones**.
3. Configure settings:
 - **Ringtones**: Choose a default ringtone for incoming calls.
 - **Vibrations**: Choose a vibration pattern, or create your own pattern, to occur when *Vibrate when ringing* is turned on.
 - **Vibrate when ringing**: Enable vibrations to occur with incoming calls.
 - **Dialing keypad tones**: Play tones when you touch the keypad.

Personalize Call Sound

Choose options for call audio, in cases where you might need the sound softer or more clear, or optimized for calling.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Personalize call sound**.
3. Touch **In-call sound EQ** to configure options:
 - **Adapt sound**: Find the best sound for you during calls. See “*Adapt Sound*” on page 161.
 - **Soft sound**: Use softer sounds during calls.
 - **Clear sound**: Use clearer sounds during calls.
 - **Off**: Turn off call sound enhancement.
4. Touch **Adapt sound** and follow the on-screen prompts to find the best sound for you.

Noise Reduction

Set the phone to suppress background noise during calls.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Noise reduction** to enable the feature.

Increase Volume in Pocket

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

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Increase volume in pocket** to enable the feature.

Voicemail

Configure options for voicemail.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Under **Voicemail**, configure options:
 - **Voicemail service:** By default, your device uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it here.
 - **Voicemail settings:** By default, the speed dial for calling voicemail for your service provider is *86 (*VM). If you wish to use another speed dial, touch Voicemail number to set a new one.
 - **Sound:** Choose a default ringtone for new voicemail.
 - **Vibrate:** Set a vibration to occur for new voicemail.

Auto Retry

Enable Auto retry to automatically redial the phone number until it is connected.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Auto Retry** to automatically redial a call if it receives a busy signal from the network.

TTY Mode

A TTY (teletypewriter, also known as a TDD or Text Telephone) is a telecommunications device that allows people who are deaf, hard of hearing, or who have speech or language disabilities, to communicate by telephone.

Your phone is compatible with select TTY devices. Please check with the manufacturer of your TTY device to ensure that it supports digital wireless transmission.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **TTY mode** to choose a mode: TTY Off, TTY Full, TTY HCO, or TTY VCO.

DTMF Tones

Set the length of Dual-Tone Multi-Frequency tones which play when you use the keypad during a call, such as when navigating device menus.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **DTMF tones** to select a tone length.

Voice Privacy

Enhanced voice privacy to improve the security of your phone calls.

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Touch **Voice privacy** to enable the feature.

Section 5: Messaging

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

Types of Messages

Your phone supports these types of messages:

- **Text messages:** Send and receive simple messages containing text to other mobile phones or email addresses (also known as SMS).
- **Multimedia messages:** Send and receive text messages with pictures, video, and/or sound to other mobile phones or email addresses (also known as MMS).
- **Mobile IMs:** Exchange Instant Messages with other users of popular messaging sites.
- **Email:** Send and receive email from your email accounts, including Corporate mail.
- **Gmail:** Send and receive Gmail from your Google account.
- **Hangouts:** Chat with other Hangout users.
- **ChatON:** Chat, share pictures, videos, animation messages (Scribbles), audio, Contacts, Calendar entries, and Location information.

Text and Multimedia Messaging

Your phone can send and receive text and multimedia messages.

Creating and Sending Messages

1. From the Home screen, touch  **Messaging** →  **New message**.
2. Touch **Enter recipient** and enter a name, phone number or email address, or touch  to add recipients from the following:
 - **Groups:** to select a recipient from the Group list.
 - **Favorites:** to select a recipient from the Favorites list.
 - **Contacts:** to select a recipient from your Contacts list (valid entries must have a wireless phone number or email address).
 - **Recent:** to select a recipient from a list of recently sent messages.
3. If adding a recipient from either Logs, Contacts, or Group, tap the contact to place a check mark then tap **Done**. The contact displays in the recipient field.

4. Touch **Enter message**, then enter the message text. The following options are available (which options are available depends on whether you include an attachment):

- Touch  **Attach** to add media (Image, Take a picture, Video, Record video, Audio, Record audio files) or content (S Memo text, Calendar events, Locations, Contacts) to the message (converts the message to MMS).
- Touch  **Menu** for options:
 - **Insert smiley**: Add a text emoticon to the message.
 - **Add text**: Select text from S Memo, Calendar, Location, Contacts or Text templates to add.
 - **Add to contacts**: Add the recipient to your Contacts. (This option only appears if the recipient is not already in your Contacts.)
 - **View contact**: Displays contact information.
 - **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 delivery date and time.

- **Discard**: Erase this message.
- **Translate**: Launches the Translator app.
- **Font size**: Select a font size (from Use device font sizes to Tiny through Huge) for Messaging screen text.

5. Touch  to send the message.

Managing Messages

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

1. From the Home screen, touch  **Messaging**.
2. Message threads display by contact, number, or address. While viewing message threads, you have these options:
 - Touch and hold a thread to choose options, including:
 - **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**: Add this number to message reject list. Messages from this number are automatically placed in the Spam messages folder.

- Touch  **Menu** for options, including:
 - **Search:** Enter characters to search messages and recipients.
 - **Delete threads:** Touch message threads to mark them for erasure, or touch **Select all** to mark all message threads.
 - **Draft messages:** Messages you have composed and saved for later reuse and/or to be sent to a recipient.
 - **Locked messages:** Messages you have locked to protect them from accidental deletion.
 - **Scheduled messages:** Messages you have set to be delivered at a selected date and time.
 - **Spam messages:** Messages received from numbers you have registered as spam senders.
 - **Font size:** Select a font size (from Use device font sizes to Tiny through Huge) for Messaging screen text.
 - **Settings:** Configure Messaging settings.

Messaging Settings

Configure settings for message storage, delivery, or alerts.

1. From the Home screen, touch  **Messaging**.
2. Touch  **Menu**, and then touch **Settings** for options:
 - **Default messaging app:** Choose Messaging or Hangouts as your default messaging app.
 - **General settings:**
 - **Delete old messages:** When enabled, messages are automatically erased when storage reaches default limits. When disabled, the phone will prompt 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 you send.

- **Multimedia message (MMS) settings:**

- **Group messaging:** When enabled, you can send a single message to multiple recipients.
- **Delivery reports:** When enabled, you receive a delivery report for multimedia messages 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, alerts you when a message changes mode to MMS.

- **Display:**

- **Bubble style:** Choose the appearance of messages in a message thread. Touch a bubble style for each side of the conversation, and then touch **Save**.
- **Background style:** Choose the appearance of the screen behind message threads. Touch a style, and 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:** Choose to have message alert repeat Once, Every 2 minutes, or Every 10 minutes.
- **Preview message:** When enabled, a preview of a received message displays in the Status bar.

- **Emergency message settings:**

- **Emergency alerts:** This device is designed to receive Wireless Emergency alerts from the Commercial Mobile Alert Service (CMAS), including Presidential alerts, Extreme alerts, Severe alerts, and AMBER alerts (missing persons). You may choose not to receive Imminent and AMBER alerts and/or Emergency alert text messages, but Presidential alerts cannot be disabled. All alerts are enabled by default (check mark shown). (For more information about Emergency alerts see “*Emergency alerts*” on page 79.)

- **Emergency notification preview:** Listen to an example of a Emergency alert tone (and vibration, if enabled). The Emergency alert tone plays at the same volume as your call ringtone.
- **Vibrate:** Configure vibration for Emergency alerts.
- **Alert sound:** When enabled, a sound plays for emergency alerts.
- **Alert reminder:** Choose whether, and at what interval, your phone plays a sound to notify you of a Emergency Alert after the Emergency Alert tone has stopped.
- **Signature settings:**
 - **Add signature:** When enabled, adds your signature text to the end of your outgoing messages.
 - **Signature text:** Enter text to be added to the end of your outgoing messages.
- **Spam message settings:**
 - **Spam settings:** When enabled, the Spam message settings are activated.
 - **Add to spam numbers:** Enter sender numbers whose messages are blocked automatically.
 - **Add to spam phrases:** Enter message text phrases that will cause messages to be blocked automatically.
 - **Block unknown senders:** When enabled, messages from “Unknown” senders are blocked automatically.

Emergency alerts

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

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

There are four types of Emergency Alerts:

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

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

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

Email

Send and receive email using popular email services.

Configuring Email Accounts

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

Configuring an Email Account

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

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

Composing and Sending Email

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

Managing Emails

Refreshing Your Email Account

Refresh your account to update your phone from the servers.

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

Email Account Settings

Use Account settings to configure handling of your email.

Note: Available settings depend on the email provider.

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

Gmail

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

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

Setting Up Your Gmail Account

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

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

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

Hangouts

Previously known as Google Talk, is an updated free web-based application for instant messaging offered by Google. Conversation logs are automatically saved to a Chats area in your Gmail account. This 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 “*Your Google Account*” on page 18.)
2. From the Home screen, touch  **Menu** →  **Apps** →  **Hangouts**.
3. Press  → **Help** for more information on using Hangouts.

ChatON

Provides a global service where you can chat with more than 2 buddies using a group chat. Share things such as pictures, videos, animation messages (Scribbles), audio, Contacts, Calendar entries, and Location information.

Important! Your Samsung account manages the access information (user name/password) to several applications, such as AllShare Play, ChatON, and Media Hub.

For more information, visit web.samsungchaton.com and see “*Accounts*” on page 49.

- From the Home screen, touch  **Menu** →  **Apps** →  **ChatON**.

Section 6: Applications

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

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

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

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

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

Accessing Applications

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

Moving Application Icons

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

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

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

3. Touch and hold an application icon, then drag it to a new location.
4. 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  **Apps**.
2. Touch  **Menu**, and then touch either of the following options:
 - **Downloaded applications**: Shows only those applications you have downloaded and installed on your phone.
 - **Hide applications**: Mark those applications you do not want to appear on the **Apps** screen by touching their icons (check marks appear in their check boxes), and then touch **Done**. The **Apps** screen displays without the hidden applications.

Calculator

Use your phone's Calculator to perform arithmetical calculations.

1. From the Home screen, touch  **Apps** →  **Calculator**.
2. To clear the calculator history, touch  **Menu** → **Clear history**.
3. Rotate your phone to the landscape position to display the scientific 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 39.)

1. From the Home screen, touch  **Apps** →  **Calendar**.
2. Touch a tab to choose a calendar view:
 - **Year:** Display the current year and scroll to other years.
 - **Month:** Display the current month and scroll to other months.
 - **Week:** Display the current week, and scroll to other weeks.

- **Day:** Display today's schedule, and scroll to other days.
- **List:** Display events and tasks in a chronological list.
- **Task:** Display tasks in a chronological list.

3. Touch  **Menu** for options:
 - **Go to:** Display a specific date.
 - **Delete:** Delete an event.
 - **Delete memo:** Removes a memo saved to a specific date.
 - **Search:** Search for calendar events.
 - **Sync:** Synchronize your phones calendar with your account calendars. (For more information, refer to “*Setting Up Your Accounts*” on page 49.)
 - **Calendars:** Select calendars to display.
 - **Settings:** Customize the calendar.

Customizing the Calendar

1. From the Home screen, touch  **Apps** →  **Calendar**.
2. Touch  **Menu** → **Settings** for options:
 - **View settings:**
 - **View styles:** Choose Month view styles (Calendar view + list, Calendar view +pop-up), or Week view (Timeline or Analog).
 - **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 will 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**.
- **Weather:** Displays an Accuweather forecast for the next 5 days (including the selected day).
- **Event notification:**
 - **Set alerts and 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, and then touch **OK**.
 - **Vibration:** Enable/disable vibration for event notifications.
 - **Quick responses:** Pre-composed text to include with email notifications to meeting attendees, guests, and so on.

Sending Events

Send events as vCalendar files to other compatible devices.

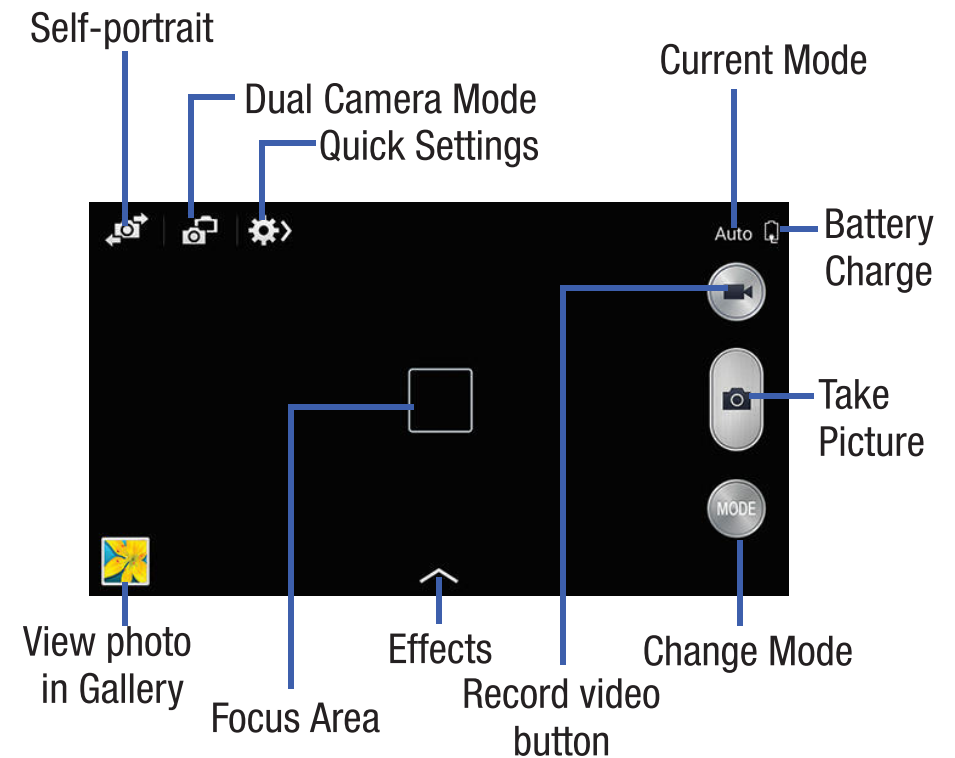
1. From the Home screen, touch  **Apps** →  **Calendar**.
2. Touch an event to display its details.
3. Touch  **Menu** → **Share via**.
4. Select the desired Sharing method from the **Share via** pop-up.
5. Follow the prompts to send a copy of a Calendar event to another device. (For more information, refer to “Connections” on page 129.)

Camera

Use your 13.0 megapixel Camera feature to take photos and save them in JPEG format. Your phone also functions as a camcorder to record videos and save them in MPEG format.

Note: When taking a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

1. From the Home screen, touch  **Apps** →  **Camera**. The Camera view finder screen displays.
2. Before you take a picture, use the **Up** and **Down** Volume keys to zoom in or out. You can magnify the picture up to x4 (400 percent).
– or –
Pinch the screen to zoom out or pinch outwards to zoom in.
3. If desired, before taking the photo, touch on-screen icons to access various camera options and settings.
4. Touch the screen to move the focus to a desired area of interest.
5. Touch  **Camera** until the shutter sounds.



Camera Modes

- Touch the Mode button  to change the mode to one of the following:
 - **Auto:** Use this mode to automatically adjust the exposure, color, and brightness settings. This mode allows single image shots or burst shots.
 - **Beauty face:** Use this to take photos with lightened faces for gentler images.
 - **Best photo:** Use this to take multiple photos in a short time, and then choose the best photos among them. Press the Shutter button to take multiple photos. When Gallery opens, touch and hold thumbnails of photos to save.
 - **Best face:** Use this to take multiple group shots at the same time and combine them to create the best possible image. Press the Shutter button to take multiple photos. When Gallery opens, touch the yellow frame on each face, and choose the best individual face for the subject. After choosing a pose for each individual, touch **Done** to merge the images into a single photo, and touch Save.
 - **Sound & shot:** Use this mode to enrich pictures by adding background sounds for a few seconds. The background sound is recorded for up to 9 seconds after taking the photo.
- **Drama:** Use this to take a series of photos of a moving object and then merge them together into one image.
- **Animated photo:** Use this to create a picture in which a few selected static objects move by animating objects detected by the device.
- **Rich tone (HDR):** Use this to take photos with richer colors and contrasts by merging images taken at different exposure levels.
- **Eraser:** Saves the best of 5 taken pictures and removes any passers by.
- **Panorama:** Use this to take wide panoramic photos. Press the Shutter button to take a photo, and then move the camera in any direction. When the blue frame aligns with the preview screen, the camera automatically takes another shot in the panoramic sequence. To stop shooting, press the Shutter button again.
- **Sports:** Use this to take fast action photos.
- **Night:** Use this to take brighter, clearer pictures in low light settings without the use of the flash.

Taking Dual Camera Photos

With the Dual Camera feature, you can take a picture with both the front and rear cameras at the same time.

To take a Dual Camera picture:

1. From the Home screen, touch  **Apps** →  **Camera**.
2. Touch  **Dual Camera** located at the top left side of the screen. The camera viewfinder displays an image from the front-facing camera within a mini picture frame on top of the main image displayed from the rear-facing camera.
3. Touch  **Camera** until the shutter sounds.

To resize the front camera image:

- Touch and hold the mini picture frame until the resize handles appear, then drag a corner to enlarge the image.

To reposition the front camera image:

- Touch and hold the mini picture frame to detach it and then place it in a desired location.

Camera and Camcorder Settings

This section describes the different settings that you can configure on your camera. Not all of the following options are available in both still camera and video camera modes. The available options vary by mode.

1. From the Home screen, touch  **Menu** →  **Apps** →  **Camera** →  **Quick Settings** →  **Camera Settings**.
2. The follow settings are located under the Camera, Camcorder, and General tabs. The settings that are displayed will depend on what camera mode you are in.

Camera:

- **Photo size:** Select a resolution for photos. Use higher resolution for higher quality. Higher resolution photos take up more memory.
- **Burst shot:** allows several photographs to be captured in quick succession by touching and holding the Camera button.
- **Face detection:** allows you to adjust the camera focus based on face detection technology.
- **Metering:** allows you to set how the camera measures or meters the light source: Center-weighted, Matrix, or Spot.

- **ISO:** determines how sensitive the light meter is on your digital camera. Choose from Auto, 100, 200, 400, or 800. Use a lower ISO number to make your camera less sensitive to light, a higher ISO number to take photos with less light, or Auto to let the camera automatically adjust the ISO for each of your shots.
- **Anti-shake:** compensates for camera movement.
- **Auto night detection:** activates or deactivates the night detection feature.
- **Save as:** allows you to assign rich tone usage to an image.

Camcorder:

- **Video size:** Select a resolution for videos. Use higher resolution for higher quality. Higher resolution videos take up more memory.
- **Video stabilization:** Activate or deactivate Optical Image Stabilization.

Settings:

- **Location tag:** attach a GPS location tag to the photo. To improve GPS signals, avoid shooting in locations where the signal may be obstructed, such as between buildings or in low-lying areas, or in poor weather conditions. Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the GPS tag setting.
- **Review:** set this option if you want to view each picture after you take it. Select a time value.
- **Volume key:** assigns a function to the volume key. Choose from The zoom key, The camera key, or The record key.
- **Timer:** Use this for delayed-time shots. You can set the timer to Off, 2 sec, 5 sec, or 10 sec.
- **White balance:** Select an appropriate white balance, so images have a true-to-life color range. The settings are designed for specific lighting situations. These settings are similar to the heat range for white-balance exposure in professional cameras.
- **Exposure value:** allows you to adjust the brightness level by moving the slider.
- **Guidelines:** Display viewfinder guides to help composition when selecting subjects.

- **Flash:** activate or deactivate the flash.
- **Voice control:** activates/deactivates voice control feature that allows you to verbally take a photo.
- **Contextual filename:** allows you to have your location added as part of the filename. You must first activate GPS tag described above.
- **Save as flipped:** when set to On, this option allows you to take and save a mirror-image video when using self-recording mode.
- **Storage:** Select the memory location for storage.
- **Reset:** Reset the camera settings.

Launching the Camcorder

Tip: When shooting video in direct sunlight or in bright conditions, it is recommended that you provide your subject with sufficient light by having the light source behind you.

1. From the Home screen, touch  **Apps** →  **Camera** to activate the camera mode.
-

Tip: The camera may not be able to properly record videos to a memory card with a slow transfer speed.

2. Using the camera's main display screen as a viewfinder, adjust the image by aiming the camcorder at the subject.
 3. Before you take a video, use the Volume control buttons to zoom in or out. You can magnify the video up to x4 (400 percent).
-

Tip: Use either the Up and Down volume keys or spread/pinch the screen to zoom in or out. For more information, refer to “*Navigation*” on page 24

4. Touch the Video key () to begin shooting video. The red light will blink while recording.
5. Touch anywhere on the screen to re-focus the camera on that object. The camcorder auto-focuses on the new target area.
6. To capture an image from the video while recording, touch . This feature is not available while the anti-shake feature is activated.
7. Touch the Stop key () to stop the recording and save the video file to your Camera folder.
— or —
Touch the Pause key () to pause the recording.
8. Once the file has been saved, touch the image viewer, and then touch  (**Play**) to playback your video for review.
9. Press  to return to the viewer.

Accessing Videos

When you shoot a video, the file is saved in the Camera folder. You can view your videos immediately or view them anytime in the Camera folder.

1. From the Home screen, touch  **Apps** →  **Gallery**.
2. Select a folder location and touch a video icon to begin video playback.
3. Touch  (**Play**) to begin video playback.

— or —

Touch and hold the video icon from the main Gallery to select the video (indicated by a colored border) and display the following video menu context options:

- **Share via** : allows you to share the video via ChatON, Add to Dropbox, Bluetooth, Drive, Email, Gmail, Google+, Messaging, Picasa, Wi-Fi Direct, or YouTube.
- **Delete** : allows you to delete the current video. Choose either OK or Cancel.

— or —

Touch and hold a listed video file to place a check mark alongside and then press  for additional options:

- **Slideshow:** allows you to see your files in a slideshow or access the slideshow settings.
- **Copy:** allows you to create a duplicate of the selected file.
- **Move:** allows you to move a selected file to a new location.
- **Rename:** allows you to rename the filename of the currently selected video.
- **Details:** displays video file information.
- or –

With the video displayed on-screen (but not playing), press  for additional options:

- **Favorite:** tags the current video as a favorite file.
- **Slideshow:** allows you to see your files in a slideshow or access the slideshow settings.
- **Rename:** allows you to rename the filename of the currently selected video.
- **Details:** displays video file information.
- **Settings:** provide access to the Galley settings page. From this page you can configure the SNS data management, Tags, and Sound & shot.

Sharing Pictures

Pictures are the best way of remembering the moment, but an even better treat is to share them with others.

Two new features allow you to either instantly share a series of pictures as they are taken or quickly share a picture without using email or messaging.

- **Share Shot** is a great way to instantly share a series of pictures among a group of users. The best example for this feature is having multiple users instantly sharing each others pictures at a company or family gathering. As each person takes a separate picture with their own device, they are all pooled together and instantly appear in each user's Gallery.

No more “Email your pictures to me later”. Each person walks out of the event with all the pictures taken by everyone.

This method of image transfer requires that both devices have Wi-Fi Direct active and be paired prior to use.

Note: You can only share a shot with other external users who also have their Wi-Fi Direct feature active.

Enabling Share Shot

Share shot is a Wi-Fi Direct group sharing feature where multiple users can Wi-Fi connect their devices and then all share each others pictures in real-time. This is really useful in group events (ex: family gathering or company party) where you don't want to have to email everyone later and make sure you all can share your pics at a later date.

For more information, refer to “*Wi-Fi Direct*” on page 131

The general process is:

- Enable Wi-Fi Direct communication
- Pair your device with other users
- Enable Share shot

To enable Wi-Fi Direct:

Important! The target device must already be connected to the same Wi-Fi and have its Wi-Fi Direct feature active and scanning before you can your pairing.

1. From the Home screen, touch  **Menu** →  **Settings** → **Connections** tab.
2. Touch and slide the **Wi-Fi** slider to the right to turn it on. The slider color indicates the activation status.
3. Touch **Wi-Fi Direct**.
4. Touch **Scan** and select the single device name to begin the connection process to another Wi-Fi Direct compatible device.

– or –

Touch **Multi-connect** → **Scan** and select all the device names to begin the connection process to these Wi-Fi Direct compatible devices.

Note: The target device must also have Wi-Fi Direct service active and running before it can be detected by your device.

5. Touch **Done**. The direct connection is then established. Confirm  appears in the Status bar.
6. When prompted to complete the connection, the recipient should touch **OK**. Your status field now reads “Connected” and your connected device is listed within the Wi-Fi Direct devices listing.
7. Each partner (including yourself) must then touch **Accept** to consent to the new Wi-Fi Direct pairing.

To enable Share shot on Camera:

1. From the Home screen, touch  **Menu** →  **Apps** →  **Camera** →  **Quick Settings** →  **Share** →  **Share shot**.
2. If you are prompted to activate your Wi-Fi Direct connection, touch **OK** and follow the activation procedures for Wi-Fi Direct.

To configure your Share Shot options:

1. Confirm the Share Shot viewfinder is active ( appears at the top of the screen).
2. Touch  (**Devices for sharing with**) to display list of current share shot participants.
 - Stop sharing images with select participants by touching the entry and removing the green check mark.
3. Touch  (**Shooting modes**) to regain access to the Share menu.
4. Touch  → **Off** to disable share shot while maintaining a Wi-Fi Direct connection.

To take share shot images:

1. Touch  (**Camera**) until the shutter sounds.
2. From the Home screen, touch  **Apps** →  (**Gallery**) to locate your newly shot images located in their default storage location.
 - External users will be able to locate their images in either a downloaded or **RECV** (received) folder.
3. Confirm  (**Share shot images delivered/received**) appears in the Notifications area of the screen.

Using S Beam to Share Pictures

This feature (when activated via NFC) allows you to beam large files directly to another compatible device that is in direct contact. These files can be larger, such as Videos, HD pictures, and other large files. You can beam images and videos from your gallery, music files from your music player, and more.

1. From the Home screen, touch  **Menu** →  **Settings** → **Connections** tab.
2. If not already active, in a single motion touch and slide the **NFC** slider to the right to turn it on.
3. Touch **S Beam** and make sure the feature is turned on.
4. If not already active, in a single motion touch and slide the **S Beam** slider to the right to turn it on.
5. On the source device (containing the desired image or video), touch  **Apps** →  **Gallery**.

6. Locate and touch the selected image to open it in the preview window.

Important! Neither device must be in Lock mode or displaying the Lock screen. They must both be active and unlocked. It is recommended that the target device be on the Home screen.

7. Place the two active NFC-enabled devices back to back to begin.

Note: If the **Touch to beam** screen does not appear on the source device:

- Pull them apart
- Verify the image is visible in the preview window on the source device (providing the file)
- Place them together again

8. From the **Touch to beam** screen, touch the reduced image preview to begin the transfer. After a few seconds (depending on file size) the recipient will then see the transferred file displayed on their screen.

Taking a Screen Shot

Also known as a screen capture, this feature allows you to mimic the print screen function on most computers.

1. From the Home screen, touch  **Menu** →  **Settings** →  **My device** tab → **Motions and gestures**.

Note: At least one feature must be activated before Palm motion can be activated.

2. In a single motion, slide a feature's activation slider to the on position.
3. With the current screen showing the desired image, in a single motion, place the side of your palm along the one side of the device and then slowly swipe it in the opposite direction over the screen.

ChatON

Provides a global service where you can chat with more than 2 buddies using a group chat. Share things such as pictures, videos, animation messages (Scribbles), audio, Contacts, Calendar entries, and Location information.

Important! Your Samsung account manages the access information (user name/password) to several applications, such as AllShare Play, ChatON, and Media Hub.

(For more information, visit web.samsungchaton.com and see “Accounts” on page 49.)

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

Chrome

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

Clock

The Clock application includes these features:

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

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

Alarm

This feature lets you set an alarm to ring at a specific time.

1. From the Home screen, touch  **Apps** →  **Clock** → **Alarm** → **Create alarm**. The following options are available:
2. Use the arrow symbols to enter adjust the hour, and minutes, and then touch **AM** or **PM** (toggles depending on which was last selected).

3. Touch the **Alarm repeat** field and touch the number of times you want this alarm to repeat. Selections are: day blocks or **Repeat Weekly**. Selected day blocks turn blue when active.
4. Tap the **Alarm type** field and select one of the following: **Melody**, **Vibration**, **Vibration and melody**, or **Briefing**.
5. Tap the **Alarm tone** field and either select an available tone or select **Add** to use locate a sound to use as an alarm ringtone. Tap **OK** to activate the ringtone.
6. Slide the slider bar left or right in the **Alarm volume** field to decrease or increase the alarm volume. A sample of the volume level plays.
7. Touch the slider next to one of the following options to activate the option:
 - **Location alarm:** When activated, the alarm only sounds when you are at a specific location. Touch and slide the slider to the right to turn it on  then follow the on-screen instructions to enter a location.
 - **Snooze:** Use this option to set Snooze Interval (3, 5, 10, 15, or 30 Minutes) and Snooze repeat (1, 2, 3, 5, or 10 Times). Touch the OFF/ON slider to activate.

- **Smart alarm:** Tracks body movements and calculates the best time for sounding the alarm. Place the phone somewhere on your bed then the phone's movement sensor (also known as accelerometer) is sensitive enough to work from any part of the bed. Set the Interval and the Tone. Touch the OFF/ON slider to activate.

8. Touch **Name** to set a specific name for the alarm. The name displays on the screen when the alarm activates.

Turning Off an Alarm

- Touch and slide  any direction to stop an alarm when it sounds.

Setting the Snooze Feature

- To activate the Snooze feature after an alarm sounds, touch and sweep the  icon in any direction. Snooze must first be set in the Alarm settings. (For more information, refer to “Alarm” on page 98.)

Deleting Alarms

To delete multiple alarms, follow these steps:

1. From the Home screen, touch  **Apps** →  **Clock** → **Alarm**.
2. Touch  **Menu** → **Delete**.

World Clock

World Clock allows you to view the time of day or night in other parts of the world. World Clock displays time in hundreds of different cities, within all 24 time zones around the world.

1. From the Home screen, touch  **Apps** →  **Clock** → **World Clock**. The clock for your time zone displays.
2. Touch **Add city** to add another city to the World Clock.
3. Scroll through the list of cities to find the city to add, and then touch the city name.
4. Press and hold a city, and then touch **DST settings** to set Daylight Savings time.
5. Select **Automatic**, **Off**, or **1 hour**.
6. If Daylight Savings Time is selected, a sun symbol on the World Clock listing displays.

Stopwatch

You can use this option to measure intervals of time.

1. From the Clock screen, touch **Stopwatch**.
2. Touch **Start** to start the stopwatch and touch **Lap** to mark a unit of time per lap.
3. Touch **Stop** to stop the stopwatch.
4. Touch **Restart** to continue or touch **Reset** to erase all times recorded.

Timer

You can use this option to set a countdown timer. Use a timer to count down to an event based on a preset time length (hours, minutes, and seconds).

1. From the Home screen, touch  **Apps** →  **Clock** → **Timer**.
2. Tap the **Hours**, **Minutes**, or **Seconds** field and use the on-screen keypad to enter the hour, minute, or seconds. The timer plays an alarm at the end of the countdown.
3. Tap **Start** to start the timer.
4. Tap **Stop** to stop the timer or **Reset** to reset the timer and start over.
5. Tap **Restart** to resume the timer counter.

Desk clock

You can use the Desk clock when you have a desk dock and you want your phone to display the time, day, date, location, and weather conditions when it is docked.

1. From the Home screen, touch  **Apps** →  **Clock** → **Desk clock**.

The default Desk clock displays.

Note: You might have to scroll across the tabs to locate the Desk clock tab at the far right.

2. Press  **Menu** → **Settings** to make changes. The following options are displayed while in full-screen mode:
 - **Calendar:** when this is checked, the calendar displays. Tap to uncheck.
 - **Weather:** when this is activated, the location, temperature, and weather condition displays. Touch and slide the slider to the right to turn it on.
 - **Dock:** allows you to set your Dock settings such as Dock sound, Audio output mode, Desk home screen display, Automatic unlock, and Audio output. For more information, refer to “*Accessibility Settings*” on page 165

3. Tap  to display the Desk clock in full-screen mode.
4. To make changes in full screen mode, press  **Menu** and then touch:
 - **Edit shortcuts:** allows you to edit the shortcuts shown at the bottom of full screen mode.
 - **Hide/Show shortcuts:** allows you to hide or view the current on-screen shortcuts located along the bottom of the full screen mode.
 - **Settings:** provides access to the Desk clock settings menu from where you can alter the following: Hide status bar, Wallpaper, Calendar, Weather, and Dock.

Contacts

Contacts lets you access and manage your Contacts list, Contacts Groups, Favorites list, and Speed dial settings (see “*Contacts*” on page 52).

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

For more information, refer to “*Accounts and Contacts*” on page 49.

Cricket Navigator

Subscribe to Cricket Navigator to access GPS navigation information with maps and traffic information. Find local places of interest, weather, and fuel prices. (For more information, visit mycricket.com/support/topic/how-to-use-cricket-navigator.)

- From the Home screen, touch  **Apps** →  **Cricket Navigator**.

Cricket Shop

Cricket Shop gives you secure, direct access to your Wireless Provider’s web site where you can shop for games, ringback tones, ringtones, and graphics.

Note: If you are connected to a Wi-Fi network, Cricket Shop requires you to log in for access. If you use your Wireless Provider’s data network, you are automatically logged in.

- From the Home screen, touch  **Apps** →  **Cricket Shop**.

Cricket Data Connect

Data Connection Optimizer is a free service that runs in the background to automatically connect your phone to Wi-Fi hotspots.

- From the Home screen, touch  **Apps** →  **Data Connect.**

Downloads

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

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

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

Drive

Use the Google Drive app to open, view, rename, and share your Google Docs and files.

Note: This app requires a Google account.

- From a Home screen, touch  **Apps** →  **Drive.**

Dropbox

Dropbox is a “cloud” file storage service. The Dropbox app lets you create an account with Dropbox or link with your existing Dropbox account. For more information, visit dropbox.com.

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

Email

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

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

EvolveMoney

This application provides a fast and simple way to pay your bills.

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

Flipboard

This application creates a personalized digital magazine out of everything being shared with you. Access news stories, personal feeds, and other related material.

For more information, go to flipboard.com.

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

Gallery

The Gallery is where you can view your photos and videos. You can also perform basic editing tasks, view your photos and/or videos as a slideshow, set photos as wallpaper or as contact images, and share your pictures and videos in multimedia messages.

Note: You can increase Gallery photo and video storage by installing a memory card. (For more information, refer to “*Installing a Memory Card*” on page 10.)

Tip: If your device indicates that memory is full when you access Gallery, use the  **My files** app to delete some of the files, and try again. (For more information, refer to “*My Files*” on page 117.)

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

3. Touch  to change the Gallery view. The following options are available:

- **Albums:** Lists the Albums in your Gallery.
- **All:** Shows thumbnails of all the photos and videos in your Gallery.
- **Time:** Lists photo and video thumbnails in order of when they were taken or recorded.
- **Locations:** Launches Maps app to show where all your photos and videos saved with location information were taken.
- **People:** Lets you take pictures and tag the people in them.
- **Favorites:** Lists thumbnails of photos and videos you've marked as your favorites.
- **Spiral:** Shows photo and video thumbnails in a spiral.

4. For additional options, touch  **Menu**.

- **Select album:** Lets you mark an Album to Share it, attach it to a Message, Delete it, or view it as a Slideshow.
- **Slideshow:** View photo and video thumbnails as a slide show.
- **Content to display:** Choose whether to display All content, Content in your device, Content in your Dropbox account, Content in your Facebook account, and/or Content in your Picasa account.

- **Scan for nearby devices:** Scan for other devices with which you can share your Gallery contents.
- **Settings:**
 - Configure synchronization settings for accounts, if available.
 - **SNS data management:** Enable **Sync only via Wi-Fi** to only sync photos and videos when connected to a Wi-Fi network.
 - **Tags:** Enable **Tag buddy** and **Face tag**. Tag buddy identifies each photo with information such as the weather, location, people in the photo, or date created. Face tag scans each photo to detect people's faces, which you can then tag with their name.
 - **Auto play sound:** Automatically play the recorded sound when viewing pictures taken in Sound & shot mode.
- **Help:** View explanations of Gallery functions.

Viewing Pictures

1. From the Home screen, touch  **Apps** →  **Gallery**.
2. Select an album, and then touch a picture to view it.
3. While viewing a picture, touch on the screen for options:
 - Touch  **Gallery** to return to the album view.
 - Touch  **Change player** to share this picture with Group Play.
 - Touch  **Share** to send the picture using ChatON, Group Play, Bluetooth, Dropbox, Drive, Email, Flipboard, Gmail, Google+, Messaging, Picasa, S Memo, or Wi-Fi Direct.
 - Touch  **Delete** to erase the picture.
 - Touch  **Camera** to take additional pictures or videos.

- Touch  **Menu** for the following additional options:
 - **Edit**: Launches photo editor to Rotate, Crop, adjust the Color balance, apply a selected color Effect, apply a selected Portrait effect, Sticker, Drawing, or Frame.
 - **Favorite**: Add your photo as a favorite.
 - **Slideshow**: View all of your pictures as a slideshow.
 - **Photo frame**: Add a selected frame to your photo.
 - **Photo note**: Add text note(s) to the ‘back’ of your photo.
 - **Copy to clipboard**: Copy the picture to your device’s clipboard memory for pasting into messages, notes, and so on.
 - **Print**: Print the picture to a printer connected to your device over the same Wi-Fi hotspot, using Wi-Fi Direct, or using a USB connection.
 - **Rename**: Change the picture’s file name.
 - **Buddy photo share**: Send the picture to the Contacts whose Contact photos match faces in the picture.
 - **Rotate left / Rotate right**: Change the picture’s orientation.
 - **Crop**: Change the picture’s size and/or remove portions of the picture.
 - **Detect text**: Launches Optical Reader to recognize text in a photo. You can Share the resulting text.
 - **Set as**: Assign the picture as a Contact photo, or as wallpaper.

- **Details:** View information about the picture.
- **Settings:**
 - Configure synchronization settings for accounts, if available.
 - **SNS data management:** Enable **Sync only via Wi-Fi** to only sync photos and videos when connected to a Wi-Fi network.
 - **Tags:** Enable **Tag buddy** and **Face tag**. Tag buddy identifies each photo with information such as the weather, location, people in the photo, or date created. Face tag scans each photo to detect people's faces, which you can then tag with their name.
 - **Auto play sound:** Automatically play the recorded sound when viewing pictures taken in Sound & shot mode.

Editing a Photo

You can edit your photos using the built-in Photo editor application on your device. The photo editor application provides basic editing functions for pictures that you take on your phone. Along with basic image tuning like brightness, contrast, and color it also provides a wide variety of effects used for editing the picture.

1. From the Home screen, touch  **Apps** →  **Gallery**.
2. Select a folder location and touch a file to open it.
3. With the image displayed, press  and then touch **Edit**.
 - **Edit:** allows you to edit the current image. Launches the Photo Editor application.

Note: To select the picture area, touch and hold the current picture.

4. Select an image area by touching and holding the image and then selecting an available option:
 - **Selection mode:** provides several on-screen selection options such as: Select area, Inverse selection, Selection size, and Selection mode (Magnetic, Lasso, Brush, Round, and Square).
 - **Select all:** select the entire area of the current image.

- **Clipboard:** copies the currently selected are to your device's clipboard.

5. Use the following editor controls to edit your picture:



Previous: lets you undo the current operation.



Next: lets you redo the previous operation.



Cancel/Delete: exits the current photo editing session.



Save: stores the currently edited photo.



Rotate: allows you to rotate a photo in all 4 directions. You can also mirror image a photo.



Crop: allows you to crop (cut-out) an area of a photo.



Color: allows you to Auto adjust color, Brightness, Contrast, Saturation, Adjust RGB, Temperature, Exposure, and Hue of a photo.



Effects: allows you to add various effects to your photo.



Portrait: allows you to apply various face correction effects such as: Red-eye fix, Airbrush face, Face brightness, Out-of-focus, Beauty face, Face reshaping, or Spot healing.



Sticker: allows you to place various pre-created on-screen stickers atop your current image.



Drawing: allows you to add draw directly on your current picture by using either a brush/pen or eraser.



Frame: places a pre-created border style atop your current image.

6. Press to access the following options:

- **Save as:** allows you to rename your current image and save it to your gallery.
- **Select image:** allows you to select a new image for editing.
- **Take picture:** allows you to activate the camera and take a new image for editing.
- **Share via:** allows you to share your saved photo via Add to Dropbox, Bluetooth, ChatON, Drive, Email, Flipboard, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct.
- **Set as:** assigns the currently saved image as either a: Contact photo, Home and lock screens, Home screen, or Lock screen.

Viewing Videos

1. From the Home screen, touch  **Apps** →  **Gallery**.
2. Select an album. A matrix or list of available videos displays.
3. To play a video, touch its thumbnail or list entry.
4. While viewing a video, touch on the screen for options:
 - Touch  **Gallery** to return to the album view.
 - Touch  **Share** to send the picture using ChatON, Bluetooth, Dropbox, Drive, Email, Gmail, Google+, Messaging, Picasa, Wi-Fi Direct, or YouTube.
 - Touch  **Trim** to remove selected frames from the video.
 - Touch  **Delete** to erase the picture.
 - Touch  **Menu** for the following additional options:
 - **Favorite**: Add this video to your Favorites.
 - **Slideshow**: View a slideshow of your photos and videos.
 - **Rename**: Change the video's filename.
 - **Details**: View information about the video.
 - **Settings**: Select an Account for synchronization, enable/disable Sync only via Wi-Fi, turn Tag Buddy ON or OFF, and/or enable/disable Face tag.

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 140.

Gmail

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

For more information, see “*Gmail*” on page 81.

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

Google

Use Google to search the Web.

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

Google Settings

Quickly and easily change Google app settings to suit your preferences.

Note: You must be signed in to the application in which you want to configure (example: sign in to Google+ to configure Google+ settings).

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

Google+

Stay connected and share life as it happens with Google+. Chat with friends, post a photo, or see what others are sharing while you're on the go.

Visit google.com/mobile/+ to learn more.

Note: This app requires a Google Account.

- From the Home screen, touch  **Apps** →  **Google+.**

Group Play

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

1. From the Home screen, touch  **Apps** →  **Group Play**.
2. Follow the on-screen instructions for configuring and using Group Play.

Hangouts

Previously known as *Google Talk*, Hangouts is an online place to meet friends and family, share photos, and host video calls.

Visit google.com/+/learnmore/hangouts to learn more.

Note: This app requires a Google Account.

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

Help

View brief instructions and videos on how to use the features and settings available on your phone.

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

Internet

Your phone is equipped with a full HTML Browser, which lets you browse web sites on the internet.

Tip: Internet displays as a Primary Shortcut on the Home screen. (For more information, refer to “*Primary Shortcuts*” on page 38.)

- From the Home screen, touch  **Apps** →  **Internet**.
Your Wireless Provider’s mobile home page displays in the Internet screen.

Knox

Samsung KNOX is a comprehensive enterprise mobile solution for use with both work and play. With the increasing use of smart phones in businesses, Samsung KNOX addresses the mobile security needs of enterprise IT without invading the privacy of its employees. This application must be downloaded to the device before use.

For more, visit samsung.com/knox.

1. From the Home screen, touch  **Apps** →  **KNOX**.
2. Tap **Install** and read the on-screen Terms and Conditions, agree to the terms and touch **Confirm**.
3. Follow the prompts.

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 177.)

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

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 the  **Messaging** shortcut.
- or –
- From the Home screen, touch  **Apps** →  **Messaging**.

Mobile Web

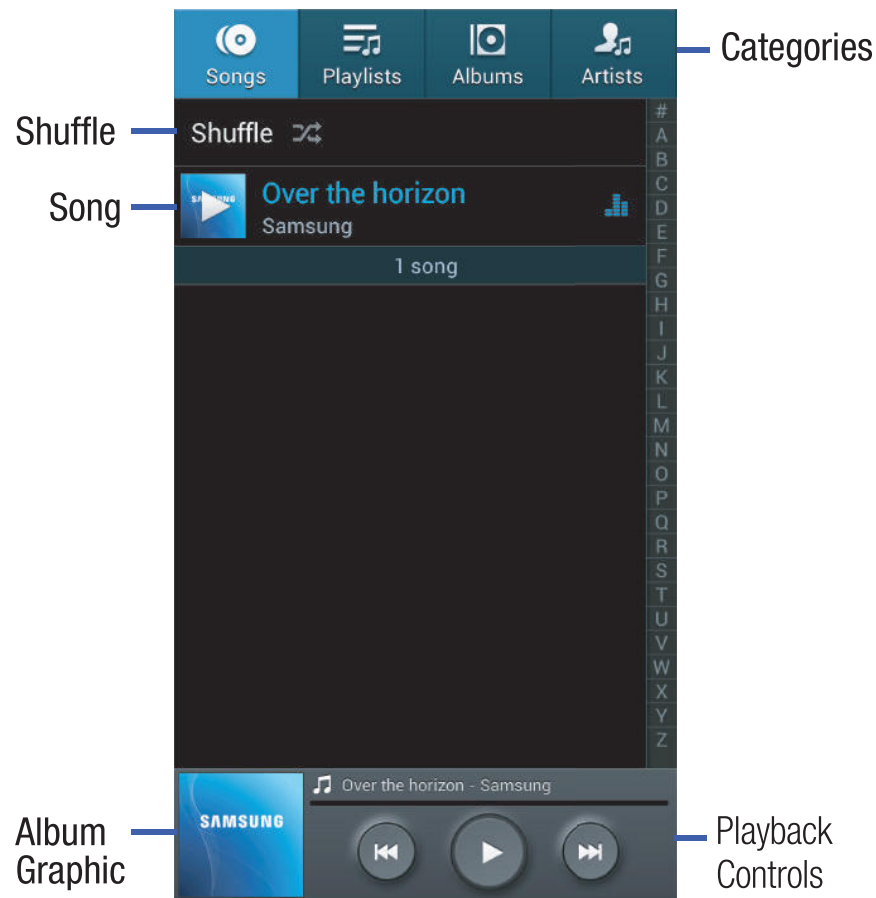
Mobile Web gives you secure, direct access to your Wireless Provider’s portal web site to purchase content, access Mobile Web services, and review your account information.

Note: If you are connected to a Wi-Fi network, Mobile Web requires you to log in for access. If you use your Wireless Provider’s data network, you are automatically logged in.

- From the Home screen, touch  **Apps** →  **Mobile Web**.

Music

Music is an application that can play music files. Music supports files with extensions AAC, AAC+, eAAC+, MP3, WMA, 3GP, MP4, and M4A. Using Music you can navigate through your music library, play songs, and create playlists.



Playing Music

1. From the Home screen, touch  **Apps** →  **Music**. Music's **Songs** screen displays.

2. If desired, touch another music category tab at the top of the screen (Songs, 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: When you return to the Home screen, Music playback continues in the background. Playback controls are available on the Notifications panel. (For more information, see “*Notifications*” on page 32.)

Music Full-Screen Player

Music provides a full-screen player that allows you more control over your music playback.

1. From a Music listing screen (Songs/Playlists/Albums/Artists/Folders), touch a song to begin playback.
2. Touch the song's album graphic to launch the full-screen player.



-  Press and hold to fast-forward the song. Tap to go to next song.
-  Volume control and SoundAlive.
-  Volume control showing volume muted.
-  Plays the entire song list once.
-  Replays the current list when the list ends.
-  Repeats the currently playing song.
-  Shuffles the current list of songs randomly.
-  Songs play in order and are not shuffled.
-  Lists the current playlist songs.
-  Returns the user to the music category screen.
-  Assign the current song as a Favorite.
-  Streams the current music file to another device via Samsung Link.

Music Playback Controls

- Use any of the following Music player controls:
 -  Pause the song.
 -  Start the song after pausing.
 -  Press and hold to rewind the song. Tap to go to previous song.

- From a Music player screen, touch  **Menu** for additional options:
 - **Add to playlist:** Add selected songs to a playlist.
 - **Via Bluetooth:** Scans for and pairs with a Bluetooth headset.
 - **Delete:** Delete songs or albums.
 - **Search:** Search the phone for music files.
 - **Scan for nearby devices:** Search for nearby Wi-Fi devices for sharing your music (available when Wi-Fi is turned On). (For more information, refer to “*Turn Wi-Fi On or Off*” on page 129.)
 - **Settings:** Change your Music Player settings. For more information, refer to “*Music Player Settings*” on page 114.
 - **End:** Close the Music Player app.

Music Player Settings

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

1. From the Home screen, touch  **Apps** →  **Music**.
2. Touch  **Menu** → **Settings**.

The follow settings are available:

- **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:** Set a type of equalization such as Normal, Pop, Rock, Jazz, Dance, Classic, etc.
- **Adapt Sound:** Adjust the sound playback characteristics to match your headphones.
- **Play speed:** Set the play speed anywhere between 0.5X and 2.0X using the slider.
- **Music auto off:** When activated, music will automatically turn off after a set interval.
- **Lyrics:** When activated, the lyrics of the song are displayed, if available.

- **Smart volume:** When enabled, automatically adjusts volume of each track to a common level.
- **Voice control:** When enabled, you can use voice commands to control music playback.

Using Playlists

Playlists are used to assign songs to a list of preferred media which can then be grouped into a list for later playback. These Playlists can be created via 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 the **Playlists** tab.
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 the **Playlists** tab.
3. Touch the playlist name in which to add music.
4. Touch  **Add music**.
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 the **Playlists** tab.
3. Touch the playlist name in which to delete music.
4. Touch  **Menu** → **Remove**.
5. Touch the check box to the left of each track you want to remove from this playlist, or touch **Select all** to remove all the music tracks from this playlist, and then 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 then touch the playlist you want to rename.
4. In the **Edit title** window, enter a new name for the playlist, and then touch **OK**.

Setting a Song as Options

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

- While in Music playback, touch  **Menu** → **Set as** and choose from these options:
 - **From the beginning**: When enabled, your ringtone plays from the beginning.
 - **Auto recommendations**: When enabled, only the best part of your ringtone plays.
 - **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.

Muve Music

Create playlists, Ringtones and more, and edit them all right on the phone. Browse or download playlists and share music with your friends.

Songs are stored locally on your phone or memory card.

1. From the Home screen, touch  **Apps** →  **Muve Music**.
2. Touch Accept to accept Google's terms of service.
3. Touch a category to get started and follow the prompts.

My Account

My Account gives you direct access to your wireless account. For more information, visit [mycricket.com/ community/videos/list/How-To:-My-Account](http://mycricket.com/community/videos/list/How-To:-My-Account).

1. From the Home screen, touch  **Apps** →  **My Account**.
2. Follow the prompts to sign in to your account.

My Files

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

1. From the Home screen, touch  **Apps** →  **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. Use these controls while browsing files:
 - Touch  **Home** to go back to the root directory.
 - Touch  **Up** to go back up to a higher directory.
 - Touch  **Menu** for options.

My Backup

This is a fast and secure way to automatically back u all of your phone's important contact information. Access mybackup.mycricket.com to view and edit all of your contacts any time.

1. From the Home screen, touch  **Apps** →  **My Backup**.
2. Follow the prompts to backup contacts.

Optical Reader

Use Optical Reader to scan printed text into a Note.

- From the Home screen, touch  **Apps** →  **Optical Reader**.

Phone

The Phone application allows you to access the dialer keypad, call logs, and favorites. (For more information, refer to “*Calling*” on page 60.)

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

Photos

The Google Photos application backs up and enhances your photos and videos.

Note: This app requires a Google account.

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

Play Books

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

Visit play.google.com/store/books to learn more.

Note: This app requires a Google Account.

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

Play Games

Discover hundreds of exciting games for purchase at the Google Play Store.

Visit play.google.com/store/apps/category/GAME to learn more.

Note: This app requires a Google Account.

- From the Home screen, touch  **Apps** →  **Play Games**.

Play Movies & TV

Watch movies and TV shows purchased from Google Play. You can stream them instantly, or download them for viewing when you're not connected to the Internet. You can also view videos saved on your phone.

Visit play.google.com/about/movies to learn more.

Note: This app requires a Google Account.

- From the Home screen, touch  **Apps** →  **Play Movies & TV**.

Play Music

Play millions of songs on Google Play, listen to custom radio stations, enjoy playlists handcrafted by experts, and access your own music collection. All your music is stored online, so no need to worry about syncing or storage space.

Visit play.google.com/about/music to learn more.

Note: This app requires a Google Account.

- From the Home screen, touch  **Apps** →  **Play Music.**

Play Newsstand

Formally *Google Play Magazines*, Play Newsstand combines Play Magazines and Google Currents—bringing you free and paid news, magazine subscriptions, and much more all in one place.

Visit play.google.com/store/newsstand to learn more.

Note: This app requires a Google Account.

- From the Home screen, touch  **Apps** →  **Play Newsstand.**

Play Store

All your favorite apps, movies and tv shows, music, books, magazines, and games are available in Google Play Store.

Visit play.google.com/store to learn more.

Note: This app requires a Google Account.

- From the Home screen, touch  **Apps** →  **Play Store.**

Polaris Office 5

View and edit various kinds of documents, such as Microsoft Word, Excel, PowerPoint, and Adobe PDF.

- From the Home screen, touch  **Apps** →  **Polaris Office 5.**

S Health

Manage your wellness by recording your activity level, food consumption, and other health-related issues like blood glucose level, blood pressure, and weight.

- From the Home screen, touch  **Apps** →  **S Health.**

Before You Start Exercising

This app can be used to monitor your exercise. While moderate physical activity, such as brisk walking, is safe for most people, health experts suggest that you talk with your doctor before you start an exercise program, particularly if you have any of the following conditions:

- Heart disease;
- Asthma or lung disease;
- Diabetes, or liver or kidney disease;
- Arthritis.

You should also check with your doctor if you have symptoms suggestive of heart, lung, or other serious disease, such as:

- Pain or discomfort in your chest, neck, jaw, or arms during physical activity;
- Dizziness or loss of consciousness;
- Shortness of breath with mild exertion or at rest, or when lying down or going to bed;
- Ankle swelling, especially at night;
- A heart murmur or a rapid or pronounced heartbeat;
- Muscle pain when walking upstairs or up a hill that goes away when you rest.

Finally, the American College of Sports Medicine recommends that you see your doctor before engaging in vigorous exercise if two or more of the following apply:

- You are a man older than age 45 or a woman older than age 55;
- You have a family history of heart disease before age 55;
- You smoke or quit smoking in the past six months;
- You have not exercised for three months or more;
- You are overweight or obese;
- You have high blood pressure or high cholesterol.
- You have impaired glucose tolerance, also called pre-diabetes.

When in Doubt—Check It Out

If you are unsure of your health status, have several health problems, or are pregnant, you should speak with your doctor before starting a new exercise program. Working with your doctor ahead of time is a good way to plan an exercise program that is right and safe for you. Consider it the first step on your path to physical fitness.

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 Home screen, touch  **Apps** →  **S Memo**.
2. Touch  **Menu** → **Help** to learn more about S Memo.

S Translator

Quickly translate typed or spoken phrases in nine languages, and hear the translations aloud. View a list of common phrases by category, such as greetings, business, emergencies, and transportation.

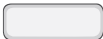
Note: This app requires a Samsung Account.

- From the Home screen, touch  **Apps** →  **S Translator**.

S Voice

Use voice commands to perform common operations on your phone, and to input criteria for searches. Speak naturally, and S Voice understands what you are looking for. Use S Voice to find everything from directions to trivia answers to the current weather forecast.

1. From the Home screen, select  **Apps** →  **S Voice**.
2. Say “Hi Galaxy”, or touch  to wake up S Voice.
3. Speak a command or question. Touch  for a list of commands. Touch a command to see examples.
4. Touch  **Menu** → **Settings** for options.

Tip: You can launch S Voice from most unlocked screens by pressing the  **Home Key** twice. Launch S Voice, and then touch  **Menu** → **Settings** → **Open via the home key**.

Samsung Apps

Browse and download new apps from a variety of categories.

Note: This app requires a Samsung Account.

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

Samsung Hub

Browse and purchase new music, videos, books, and games.

- From the Home screen, touch  **Apps →**
 **Samsung Hub.**

Samsung Hub Notices

- Any media item (Media Content) may be rented or purchased after you create an account in Samsung Hub.
- Media Content that is purchased and downloaded may be viewed concurrently on up to five (5) devices with Samsung Hub (or “the service”) that are also registered to the same account.
- You may remove a device from your account no more than once every 90 days.

- You may remove Media Content from a device as many times as you’d like. You will have the ability to re-download the Media Content later subject to content re-download availability and content provider permissions.
- You may need network coverage to access Media Content you have acquired through the Service.
- You can use 3G, 4G, or Wi-Fi connectivity to download Media Content.
- Unlike purchased Media Content, rented Media Content will be viewable on only 1 device in your account at a time.
- Media Content is downloaded and saved to your authorized device's SD card. No SD Card included out of box.
- Your Media Content may pause/stop or not download in networks where there is a weak signal.
- You may begin watching downloaded Media Content as soon as a) license acquisition has occurred and b) sufficient amount of the Media Content has been buffered.
- You must finish watching Media Content within the time limit set out for each piece of content (which may be as short as 24 consecutive hours).

- Stopping, pausing or restarting rented Media Content does not extend the available viewing time.
- In no event will rented Media Content be available for a period of more than thirty (30) days (or shorter on a title-by-title basis) after the Media Content has been rented (e.g., if you begin viewing rented Media Content on the 29th day after the rental transaction, but do not finish viewing the entire title, that rented Media Content may not be available for the entire twenty-four (24) consecutive hour period if such period would extend the viewable time beyond the thirty (30) day rental window).

Unless otherwise restricted by the Content Providers, you can download Media Content to your TV using HDMI connections; otherwise, you cannot play Media Content downloaded from your mobile device output. (4/1/2013)

Samsung Link

Share media content with other DLNA certified™ (Digital Living Network Alliance) devices.

Note: This app requires a Samsung Account.

Important! All devices must be connected to the same Wi-Fi network. For more information, refer to “Wi-Fi” on page 129.

- From the Home screen, select  **Apps** →  **Samsung Link**.

Settings

Configure your phone's features. For more information, see “Settings” on page 144.

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

Story Album

Create an album with your story on one timeline.

- From the Home screen, touch  **Apps** →  **Story Album**.

TripAdvisor

Access travelers' reviews and opinions on hotels, restaurants and more. You can also compare prices and check availability on hotels, flights, and car rentals.

Note: This app requires a Samsung Account.

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

Video

Play video files (3GP or MP4) stored on your phone or microSD memory card.

1. From the Home screen, touch  **Apps** →  **Video**.
All videos on your phone and memory card are listed.
2. Touch the video that you want to play. During playback, these video controls are available:

-  Pause the video.
-  Start the video after being paused.
-  Press and hold to rewind the video. Touch to go to previous video.
-  Press and hold to fast-forward the video. Touch to go to next video.
-  Streams the current music file to another device via Samsung Link.
-  Volume control.
-  Volume control showing volume muted.
-  Full-screen in ratio view. The video is enlarged as much as possible without becoming distorted.

-  Full-screen view. The entire screen is used, which may cause some minor distortion.
-  Original size view. The video will be played in its original size.
-  Stretch to fit. The video is enlarged to fit the screen without becoming distorted.
-  Play a video as a small pop-up while viewing another screen. Touch and drag the pop-up video to the desired location on the screen. Double-tap the pop-up to return to full screen mode.

Note: The screen view icons are a four-way toggle. The icon that is displayed, is the mode that will display after the icon is touched.

3. During playback, touch Menu for options:

- **Share via:** Share the video. Touch an option, such as Bluetooth, and follow the on-screen instructions.
- **Chapter preview:** If chapter information is recorded in the video file, display the chapters. Touch a chapter to begin playing the video at that point.
- **Edit:** Edit the video using the downloadable Video Editor app.

- **Via Bluetooth:** Turn Bluetooth on to use Bluetooth services.
- **Video auto off:** Set the option Off or set your video to turn off automatically by touching one of the time values.
- **Settings:** View additional video settings.
- **Details:** Provides details about the video, such as Name, Size, Resolution, and so on.

4. While viewing the list of videos, touch Menu for options:

- **Sign in:** Sign in to your Samsung Account for use with Samsung Hub.
- **Scan for nearby devices:** Scan for available devices for sharing videos.
- **Sort by:** Display videos by Title (default), Date, Size, or Type.
- **View as:** View videos in a list, thumbnail, or folder format.
- **Share via:** Share the video. Touch an option, such as Bluetooth, and follow the on-screen instructions.
- **Delete:** Touch videos to select them for deletion or touch **Select all** to delete all videos.
- **Edit:** Edit a video using the downloadable Video Editor app.
- **Auto play next:** Touch to enable or disable automatic playing of videos in the order they appear.

- **Information:** View app details.
- **Settings:** Configure app settings.
- **Help:** View information on using Video Player.

Voice Recorder

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

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

WatchON

Use the Samsung WatchON application to use your phone as a remote control for your TV, set top box, DVR, Blu-Ray/DVD, stereo or other device.

Important! Before initiating use, verify you have an active Internet connection available (either mobile network or Wi-Fi connection).

For more information, visit to samsungwatchon.com.

1. Turn off your television.
2. From the Home screen, touch  **Apps →**
 **WatchON.**

Set Up WatchON

1. From the Home screen, select  **Apps** →  **WatchON**.
2. Follow the prompts to configure WatchON options, such country/region, TV service provider, channel list setup, etc.

Note: Touch  **Menu** → **Help** to learn more about WatchON.

Configure Your Device as a Remote

1. From the toolbar, touch  **Remote Control**.
2. Touch **Set up now** at the prompt.
3. Follow the prompts to find your TV or other devices and configure your phone to control their operation.

YouTube

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

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

Section 7: Connections

Wi-Fi

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

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

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

Turn Wi-Fi On or Off

When Wi-Fi is turned on, your phone will notify you of available Wi-Fi networks, and you can connect to the Wi-Fi networks.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**.
3. Touch **OFF/ON** to turn Wi-Fi on or off.

Tip: You can also quickly turn Wi-Fi on or off using Quick Settings. From the Home screen, sweep your finger downward to display the Notification Panel. Touch the **Wi-Fi** button to turn Wi-Fi on (green) or off (gray).

Scan and Connect to a Wi-Fi Network

When you turn on Wi-Fi, your device searches for available Wi-Fi connections and displays them.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on.
3. When your device completes a scan, touch a Wi-Fi network to connect. If the Wi-Fi network is open, you will be automatically connected. If the Wi-Fi network is secured, enter the password at the prompt to connect.

Add a Wi-Fi Network Manually

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on.
3. On the pop-up Wi-Fi settings screen, touch **Add Wi-Fi Network** (below the scanned networks), then enter these fields:
 - **Network Name (SSID)**: Enter the name of the Wi-Fi network.
 - **Security**: Select the type of security used by the Wi-Fi network.
 - **Password**: If the network is secured, enter the password. Touch **Show password** to display it.
 - **Show advanced options**: Select the Proxy settings and IP settings for the network.
4. Touch **Connect** to save the settings and connect to the network.

Wi-Fi Status Indicators

The following icons show your Wi-Fi connection status:



Displays when Wi-Fi is connected, active, and communicating with a Wireless Access Point (WAP).



Displays when there is a Wi-Fi access point available but you are not connected to it. May also display if there is a communication issue with the target Wireless Access Point (WAP).



Displays when connected to another device using Wi-Fi Direct. For more information, refer to “*Wi-Fi Direct*” on page 131.

Advanced Settings

Set up and manage wireless access points.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on.
3. Touch  **Menu** for options:
 - **Advanced:**
 - **Network notification:** Send a notification when an open network is available.
 - **Passport:** Connect to passpoint-enabled Wi-Fi Access Points automatically.
 - **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).
 - **Always allow scanning:** Allow Google location service and other apps to scan for networks, even when Wi-Fi is turned off.
 - **Install certificates:** Install certificates from a memory card.
 - **MAC address:** View your device's MAC address (not configurable).
 - **IP address:** View your device's IP address (not configurable).

- **WPS push button:** Set up a connection to a WPS (Wi-Fi Protected Setup) router or other equipment.
- **WPN PIN entry:** View the PIN used by your phone to set up a PIN-secured connection to a Wi-Fi router or other equipment (not configurable).
- **Help:** Learn about setting up and using Wi-Fi networks.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection.

For example, your phone can use Wi-Fi Direct to share photos, contacts and other content with other Wi-Fi Direct devices. Many of the apps on your device provide options for sharing via Wi-Fi Direct under  **Menu**.

Turn Wi-Fi Direct On

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on. (Wi-Fi must be enabled to use Wi-Fi Direct.)
3. Touch **Wi-Fi Direct** to turn Wi-Fi Direct on.

Turn Wi-Fi Direct Off

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**.
3. Touch **Wi-Fi Direct** to view connections.
4. Touch **End connection** to turn Wi-Fi Direct off and terminate all Wi-Fi Direct connections

Note: Turning Wi-Fi off also turns off Wi-Fi Direct and terminates all Wi-Fi Direct connections

Connect to Wi-Fi Direct Devices

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on. (Wi-Fi must be enabled to use Wi-Fi Direct.)
3. Touch **Wi-Fi Direct** to turn Wi-Fi Direct on.
4. Enable Wi-Fi Direct on the target device. Consult the target device's documentation for more information.
5. On your phone, touch **Wi-Fi Direct** to scan for the other device.
6. In the scanned list, touch the target device to connect with it, or touch **Multi-connect** to connect to multiple devices (not all devices support multi-connect).
7. Follow the prompts on both devices to complete the connection.

Bluetooth

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet. If the devices are in range, you can exchange information between them, even if they are in different rooms.

Your device can use Bluetooth to share photos, contacts and other content with other Bluetooth devices. Many of the apps on your device provide options for sharing via Bluetooth under  **Menu**.

Turn Bluetooth On or Off

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Bluetooth**.
3. Touch **OFF/ON** to turn Bluetooth on or off.

Tip: You can also quickly turn Bluetooth on or off using Quick Settings. From the Home screen, slide your finger downward to display the Notification Panel. Touch the **Bluetooth** button to turn Bluetooth on (green) or off (gray).

Note: Due to different specifications and features of other Bluetooth-compatible devices, display and operations may be different, and functions such as transfer or exchange may not be possible with all Bluetooth-compatible devices.

Pair with a Bluetooth Device

Pairing initiates a connection between your phone and the target device, usually by using a passcode or PIN. After pairing, your phone and the target device recognize each other and exchange information without having to enter a passcode or PIN.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Make sure that the target device is discoverable, so that your phone can find it. Refer to the target device's documentation for more information.
4. Touch **Scan**. Your phone will start to scan for Bluetooth devices within range.

5. From the list of scanned devices, touch the target device and follow the prompts to complete the pairing:
- If the target device requires a PIN, enter a PIN for the target device and touch **OK**. When prompted, enter the PIN on the target device.
 - If the device allows automatic or smart pairing, your device will attempt to pair with the device automatically. Follow the prompts on your phone and the target device to complete the pairing.

Note: The pairing and connection status is displayed below the target device in the Bluetooth devices section. When you are connected to the target device,  **Bluetooth connected** displays in the Status bar.

Bluetooth Status Indicators

The following icons show your Bluetooth connection:

-  Displays when Bluetooth is active.
-  Displays when Bluetooth is connected (paired) and communicating.

Reconnect to a Bluetooth Device

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Make sure that the target device is discoverable.
4. Touch the target device's name in the Bluetooth devices section.
5. If prompted to enter a passcode, try 0000 or 1234, or consult the target device's documentation.

Disconnect or Unpair from a Bluetooth Device

Disconnect from a Bluetooth Device

You can disconnect your phone from a Bluetooth device, such as a headset. Disconnecting does not un-pair the Bluetooth device. The next time you connect, your phone and the target device will recognize each other and exchange information without having to enter a passcode or PIN.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Tap the connected device, and then touch **OK** to disconnect.

Unpair from a Bluetooth Device

You can make your phone forget its pairing connection with another Bluetooth device. To connect to the other device again, you may need to enter or confirm a passcode again.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. In the Bluetooth devices section, tap  next to the device, and then tap **Unpair**.

Bluetooth Settings

When Bluetooth is on, additional settings are available.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch  **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Tap your phone's name to enable or disable visibility to other Bluetooth devices. When your phone is visible, other devices can find your phone during a scan. Your phone remains visible for the period of time set in the Visibility timeout setting.
4. Touch  beside a paired device for options:
 - **Rename**: Enter a new name for the paired device.
 - **Unpair**: Delete the Bluetooth connection to this device. To connect to the other device again, you may need to enter or confirm a passcode again.
5. Touch  **Menu** for options:
 - **Visibility timeout**: Set the length of time your phone is visible to other devices when you turn on visibility.
 - **Received files**: View files transferred to your phone via Bluetooth.
 - **Help**: Learn about Bluetooth, and other settings.

Tethering and Portable Hotspot

Use feature lets you share your phone's mobile data connection via USB, Wi-Fi, or Bluetooth.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Tethering and portable hotspot** for options:
 - Touch **Portable Wi-Fi hotspot** to share your mobile data connection. For more information, refer to “*Portable Hotspot*” on page 136
 - **USB tethering**: Share your mobile data connection via USB.
 - Connect your phone to your PC using a USB cable and touch **USB tethering** to activate the feature. Follow the on-screen instructions to use USB tethering.
 - **Bluetooth tethering**: Share your mobile data connection via Bluetooth.
 - Activate Bluetooth and make sure your device is visible, then touch **Bluetooth tethering** to activate the feature. For more information, refer to “*Bluetooth*” on page 133
 - Touch **Help** for additional information

Portable Hotspot

Use your phone as an Internet Access Point (AP) via Portable mobile hotspot. This allows up to ten other devices to connect to the AP via a Wi-Fi network, giving the connected devices access to the Internet.

Turn On Hotspot

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**. Touch **OFF/ON** to enable Portable Wi-Fi hotspot.
4. Touch  to control which devices may connect to your Hotspot:
 - **Allow all devices**: Allow all devices to connect.
 - **Only allowed devices**: Limit connections to only those devices in your Allowed devices list.

Connect a Device

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**. Touch **OFF/ON** to enable Portable Wi-Fi hotspot.
4. If the other device is not in your Allowed devices list, tap  → **Allow all devices**.
5. On the other device, activate Wi-Fi and scan for Wi-Fi hotspots. Select the name of your phone and enter your Hotspot password (if required).

Note: Follow the other device's instructions for activating Wi-Fi and connecting to your phone.

Allowed Devices

You can limit connections to your Hotspot to only those devices in your Allowed Devices list.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**. Touch **OFF/ON** to enable Portable Wi-Fi hotspot.
4. Touch **Allowed devices** to view the Allowed Devices list.
5. To add a new device to the Allowed devices list:
 - Touch  **Add device**.
 - Enter the device's name and MAC address.
6. To remove a device from the Allowed devices list:
 - Touch  **Delete**.
 - Touch each device you want to delete, or tap **Select all**.
 - Touch **Delete**.

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

Portable Hotspot Settings

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**.
4. Touch **Configure** for options:
 - **Network SSID:** Enter a name for your phone. This name will be displayed in the other device's Wi-Fi networks listing.
 - **Hide my device:** Do not display your phone's name in the other device's Wi-Fi networks listing.
 - **Security:** Set the network connection to Open (no security) or WPA2 PSK (requires a password).
 - **Password:** Enter a security password. Touch **Show password** to display it.
 - **Show advanced options:**
 - **Broadcast channel:** Select 2.4 GHz or 5 GHz as the broadcast channel. If 2.4 GHz is selected, tap Auto to select a different channel.
5. Touch  **Menu** for additional options:
 - **Timeout settings:** Set the amount of time your device will be available as a portable Wi-Fi hotspot.

Bluetooth Tethering

Before starting, pair your computer with your device, and then configure your computer to obtain its network connection via Bluetooth.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Tethering and portable hotspot**.
3. Connect the other device to your device via USB cable.
4. Touch **Bluetooth tethering** to enable tethering.

Important! Tethering consumes battery power and increases your data usage. Roaming while using tethering will incur extra data charges.

VPN

Set up and manage Virtual Private Networks (VPN).

Note: VPN settings include storage of login credentials on your phone. You must configure a screen unlock pattern, PIN or password before setting up a VPN.

Configure a Basic VPN

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **VPN**.
3. Touch  **Add VPN** to add a new VPN:
 - **Name:** Enter the name of the VPN.
 - **Type:** Choose the type of VPN: PPTP, L2TP/IPSec PSK, L2TP/IPSec RSA, IPSec Xauth PSK, IPSec Xauth RSA, or IPSec Hybrid RSA.
 - **Server address:** Enter the VPN server address.
 - **PPP Encryption (MPPE):** Touch to enable, if applicable.
 - **Show advanced options:** Touch to set other options, depending on the type of VPN.
4. Tap **Save** to save the VPN.

NFC and Beaming

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

NFC beams transmits files using two protocols: Android Beam and S Beam.

- Use **Android Beam** for sending smaller files such as browser pages, YouTube videos, contacts, pictures, etc.
- Use **S Beam** for sending larger files, such as HD videos.

Note: Each app determines what kind of data is beamed. Not all apps use NFC, and not all files can be transmitted using NFC.

Turn NFC On or Off

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **NFC**.
3. Touch **OFF/ON** to turn NFC on or off.

Android Beam

Use Android Beam to share smaller files, such as browser pages, YouTube videos, contacts, pictures, etc.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **NFC**.
3. Touch **OFF/ON** to turn NFC on. When you turn on NFC, Android Beam is automatically turned on.
4. Turn on Android Beam on the target device. Refer to the target device's documentation for instructions on using Android Beam.
5. With the file you wish to share displayed or opened on your phone, simply touch your phone to the target device (typically back-to-back). Your phone will vibrate to indicate it is able to transmit the file.
6. After the vibration, touch your screen to send the file to the target device.
7. Follow the prompts on the target device for receiving the beamed file.

S Beam

Use S Beam for sending larger files, such as HD videos, between your phone and another NFC-capable device by touching the devices together (typically back-to-back).

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **OFF/ON** to turn S Beam on. (When you turn on S Beam, NFC is automatically turned on).
3. Turn on S Beam on the target device. Refer to the target device's documentation for instructions on using S Beam.
4. With the file you wish to share displayed or opened on your phone, simply touch your phone to the target device (typically back-to-back). Your phone will vibrate to indicate it is able to transmit the file.
5. After the vibration, touch your screen to send the file to the target device.
6. Follow the prompts on the target device for receiving the beamed file.

Nearby Devices

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

To share with nearby devices, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

Important! Use care when enabling file sharing for nearby devices. When enabled, other devices can access data on your device.

Turn File Sharing On or Off

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **Nearby devices**.
3. Touch **OFF/ON** to turn file sharing on or off.

Configure File Sharing

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **Nearby devices**.
3. Under **Advanced**, touch options to control how content is shared from your device:
 - **Shared contents:** Choose the type of content to share.
 - **Allowed devices list:** View and manage devices allowed to connect to your device.
 - **Not-allowed devices list:** View and manage devices restricted from connecting to your device.
 - **Download to:** Choose a location to save downloaded content (Device or SD card).
 - **Upload from other devices:** Choose how to handle incoming files from other devices (Always accept, Always ask, or Always reject).

Screen Mirroring

Use the Screen Mirroring feature to share media files on your phone with an HDMI device, such as an HDMI TV.

Note: This feature requires an optional AllShare Cast dongle accessory (not included).

1. Connect the AllShare Cast dongle to the HDMI device using an HDMI A-to-A cable.
2. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
3. Touch **Screen Mirroring**. Your phone will scan for available devices.
4. Touch a device, and follow the on-screen prompts.

Note: Press  **Menu** → **Help** for more information.

Connect to a Computer

Connect your device to a computer to transfer data between your device and the computer. Use the USB cable that comes with your device, or use one of the pre-loaded apps on your device to connect wirelessly.

Transfer Data

Connect your device to a computer, via USB cable, to transfer data as a Media device using MTP (Media Transfer Protocol), or as a Camera using PTP (Photo Transfer Protocol).

1. Attach your device to the computer with a USB data cable. Your device recognizes the connection as the last connection method you used, and displays a connection alert in the Status bar and Notifications.
2. From the Home screen, sweep your finger downward to display Notifications, then touch the alert.
3. Select a connection method:
 - **Media device (MTP):** Transfer media files with Windows, or using Android file transfer on a Mac (see android.com/filetransfer).
 - **Camera (PTP):** Transfer photos using camera software, and transfer files to computers that do not support MTP.

4. On your computer, choose a method for accessing your device. Available options depend on the programs installed on your computer.
5. Transfer files to the memory card. When finished, you can disconnect the USB cable.

Section 8: Settings

Accessing Settings

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

— or —

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

— or —

Pull down the Notifications shade, and then touch  **Settings**. (For more information, refer to “Notifications” on page 32.)

Settings Tabs

Your phone’s 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: Connect to wireless networks, manage mobile networks, and connect to other devices.



My device: Personalize your phone, including the display, sounds, the lock screen, accessibility features, language and input methods, and more.



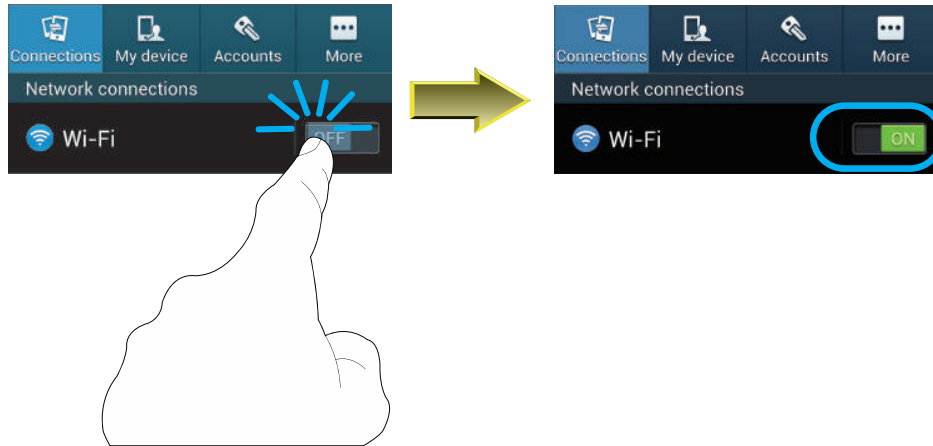
Accounts: Add and manage your email and other accounts, and back up or reset your data.



More: Manage location services, security, storage, and other features of your phone.

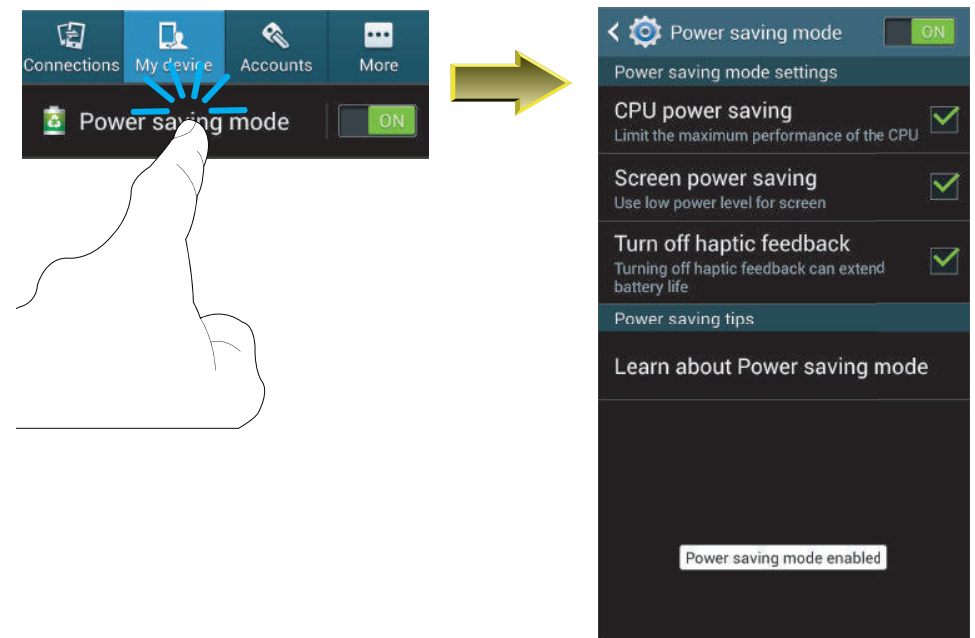
Using Setting Sliders

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



Accessing Additional Options

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



Wi-Fi Settings

Your device supports Wi-Fi a/b/g/n. Use Wi-Fi settings to manage your device's Wi-Fi connections.

For more information about using your phone's Wi-Fi features, see “*Wi-Fi*” on page 129.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection.

For more information about using your phone's Wi-Fi Direct features, see “*Wi-Fi Direct*” on page 131.

Bluetooth

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

For more information about using Bluetooth to exchange information with other Bluetooth devices, see “*Bluetooth*” on page 133.

Data Usage

Monitor data usage, and control your phone's connection to mobile data service.

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

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **Data usage** → **Mobile data** to enable or disable your phone's connection to mobile data service.
 - When disabled, you will not be able to use the Internet, sync email, or use any app that requires a data connection unless you are connected to a Wi-Fi network.
3. Touch **Set mobile data limit** to disable the mobile data connection when the specified limit is reached.

View Mobile Data Usage

1. Touch the **Data usage cycle** drop-down menu and select a time period.

A chart displays the total mobile data usage during that time period, followed by a breakdown of data usage by each application.

2. Set data usage limits:

- Touch and drag the horizontal **red limit bar** to set the maximum data limit. When data usage reaches this limit, mobile data will be disabled.

Warning! When disabled, you will not be able to use the Internet, sync email, or use any app that requires a data connection unless you are connected to a Wi-Fi network.

- Touch and drag the horizontal **yellow warning bar** to set a warning level. You will be notified when data usage reaches this level.
- Touch and drag the **two vertical white bars** to adjust the time period displayed.

- Touch an **application** to view its data usage. Touch **Restrict background data** to force the application to sync background data only when connected to a Wi-Fi network.

3. Touch  **Menu** for options:

- **Data roaming:** Allow your phone to use mobile data when roaming. Additional charges may apply. See your service plan for details.
- **Restrict background data:** Prevent the phone from connecting to the mobile data network in the background for synchronization or other services.
- **Auto sync data:** Synchronize with accounts automatically, at any time.
- **Show Wi-Fi usage:** Display data usage while connected to Wi-Fi.
- **Mobile hotspots:** Select Wi-Fi networks that are mobile hotspots. You can restrict apps from using these networks, and you can configure apps to warn you before using these networks for large downloads.

More networks

Access additional options for configuring connections between your phone and other devices.

Airplane mode

Enabling Airplane mode turns off calling, messaging, and data network features. It also turns off other connectivity features, such as Wi-Fi and Bluetooth.

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

To use Wi-Fi and Bluetooth when Airplane mode is enabled, turn them on in Settings, or on the Notifications panel.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Airplane mode** to enable or disable the option.

Note: You can also set Airplane mode from the *Device options* menu. Press and hold the **Power/Lock Key**, then touch **Airplane mode**.

Default messaging app

This option lets you choose the messaging application you prefer as your default messaging app.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Default messaging app**. You can choose from **Messaging** or **Hangouts**.

Printing

Set options for printing files stored on your device to a printer connected to the same Wi-Fi network.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Printing** → **Samsung Print Service Plugin** for options:
 - **Samsung Print Service Plugin:** When set to ON, an information pop-up appears. Read the information, then touch **OK** to confirm that you have read the information. Your device begins searching for printers.
 - **Printer(s):** Select a printer to connect with it.

Mobile networks

Set options for network selection and data service.

Important! Depending on your service plan, changes you make to mobile networks settings may incur extra charges. Consult your service provider for more information.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Connections**.
2. Touch **More networks** → **Mobile networks** for options:
 - **Mobile data:** Enable or disable your device's connection to the mobile data network.
 - **Data Roaming:** Enable or disable connection to data services when your device is roaming on another network.
 - **Network mode:** Choose a preferred network mode.
 - **System select:** Change CDMA roaming mode.

Tethering and portable hotspot

Use feature lets you share your phone's mobile data connection via USB, Wi-Fi, or Bluetooth.

For more information about using tethering and portable mobile hotspot, see “*Tethering and Portable Hotspot*” on page 136.

VPN

Set up and manage Virtual Private Networks (VPNs).

For more information about connecting to VPNs on your phone, see “*VPN*” on page 139.

NFC

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

For more information about sharing information with NFC, see “*NFC and Beaming*” on page 139.

Android Beam

Use Android Beam to share smaller files, such as browser pages, YouTube videos, contacts, pictures, etc.

For more information on using Android Beam, see “*Android Beam*” on page 140.

S Beam

Use S Beam for sending larger files, such as HD videos, between your phone and another NFC-capable device by touching the devices together (typically back-to-back).

For more information on using S Beam, see “*S Beam*” on page 140.

Nearby Devices

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

To share with nearby devices, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

For more information about sharing files with nearby devices, see “*Nearby Devices*” on page 141.

Screen Mirroring

Use the Screen Mirroring feature to share media files on your phone with an HDMI device, such as an HDMI TV.

For more information on using Screen Mirroring, see “*Screen Mirroring*” on page 142.

Lock Screen

Choose settings to unlock your phone.

For more information about using the lock and unlock features, see “*Securing Your Phone*” on page 19.

Screen Lock

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Lock screen** → **Screen lock** and select a screen lock. Then configure the displayed options for that screen lock:
 - **Swipe**: Unlock your phone by swiping your finger across the screen. This is the default screen lock, and offers no security.
 - **Multiple widgets**: Display multiple widgets on your Lock screen.
 - **Lock screen widgets**: Customize your clock and personal message.
 - **Shortcuts**: Select which application shortcut (if any) displays on the lock screen. (The default shortcut is **Camera**.)
 - **Unlock effect**: Show a ripple effect or light effect on the lock screen when you slide your finger over the screen.
 - **Help text**: Show help information on the Lock screen.

- **Wake up in lock screen**: Wake up the screen by speaking a command.
- **Set wake-up command**: Set a command to wake up the screen.
- **Face unlock**: Unlock your phone by looking at the screen. This option offers low security, because someone who looks similar to you could unlock your phone. Touch the option for more information, and to set up Face unlock.
 - **Lock screen widgets**: Customize your clock and personal message.
 - **Improve facial recognition**: Have your face captured in different conditions.
 - **Presence check**: Require a blink to unlock your phone.
 - **Make pattern visible**: Display the security pattern.
 - **Lock automatically**: Automatically lock the phone when the screen has turned off after a selected amount of time.
 - **Lock instantly with power key**: Instantly lock your phone by pressing the **Power/Lock Key**.

- **Face and voice:** Unlock your 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 your phone. Touch the option for more information, and to set up Face and voice unlock.
 - **Lock screen widgets:** Customize your clock and personal message.
 - **Improve facial recognition:** Have your face captured in different conditions.
 - **Presence check:** Require a blink to unlock your phone.
 - **Make pattern visible:** Display the security pattern.
 - **Lock automatically:** Automatically lock the phone when the screen has turned off after a selected amount of time.
 - **Lock instantly with power key:** Instantly lock your phone by pressing the **Power/Lock Key**.
- **Pattern:** Draw a pattern on the screen to unlock your phone. Touch the option, then follow the prompts to create or change your screen unlock pattern.
 - **Lock screen widgets:** Customize your clock and personal message.
 - **Make pattern visible:** Display the security pattern.
 - **Lock automatically:** Automatically lock the phone when the screen has turned off after a selected amount of time.
 - **Lock instantly with power key:** Instantly lock your phone by pressing the Power/Lock Key.
- **PIN:** Enter a numeric PIN (Personal Identification Number) to unlock your phone. With PIN screen lock, you can also set the *With swipe* lock and Lock screen options.
 - **Lock screen widgets:** Customize your clock and personal message.
 - **Lock automatically:** Automatically lock your phone 5 seconds after the screen turns off.
 - **Lock instantly with power key:** Instantly lock your phone by pressing the **Power/Lock Key**.

- **Password:** Enter an alphanumeric password to unlock your phone.
 - **Lock screen widgets:** Customize your clock and personal message.
 - **Lock automatically:** Automatically lock the phone when the screen has turned off after a selected amount of time.
 - **Lock instantly with power key:** Instantly lock your phone by pressing the **Power/Lock Key**.
- **None:** Disable all custom screen lock settings, to use the default swipe unlock screen.

Display Settings

Configure settings for your phone's display.

Wallpaper

Customize the background of the Home and Lock screens. For more information, refer to “*Wallpaper*” on page 40.

Notification Panel

Configure options for the Notification panel, available when you swipe your finger down from Status bar at the top of the screen.

For more information, refer to “*Notifications*” on page 32.

Multi Window

Enable or disable the Multi window feature. For more information, refer to “*Using Multi Window*” on page 27.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Multi window** to enable/disable this feature.

Screen Mode

Choose a screen mode to match the content being viewed.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Screen mode** for options:
 - **Adapt display:** Touch the check box to enable or disable automatic optimization of the screen to match the type of image being displayed and other criteria, such as battery level.
 - When **Adapt display** is disabled, select a specific screen mode to match the content you display.

Reading Mode

Optimize the screen for reading. This mode is only available for selected applications.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **OFF/ON** next to **Reading mode** to turn the feature ON.
3. Touch **Reading mode** for options:
 - **Applications** that currently use Reading mode are listed.
 - Touch **Edit** to select other apps that should use Reading mode. Your selections display in the **Applications** list.

Brightness

Adjust the screen brightness to suit your surroundings, or to your personal preference.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Brightness**.
3. Touch **Automatic brightness** to allow the phone to adjust the brightness based on your surroundings.
— or —

To set a custom brightness level, clear the Automatic brightness check mark and then touch and drag the **Brightness level** bar.

Auto-Rotate Screen

Allow the phone to switch the display orientation automatically when you rotate the phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Auto rotate screen** to enable the feature.

Screen Timeout

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Screen timeout** to choose a time period.

Daydream

The Daydream setting controls what the screen displays when the phone is docked, or while charging. You can choose to display a Colors screen, or display photos stored on your phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **OFF/ON** next to Daydream to turn the feature on, and then touch **Daydream** for options:
 - **Colors**: Display screen full of colors.
 - **Flipboard**: Display pictures from Flipboard. Touch  to choose pictures to display.
 - **Google Photos**: Display pictures from Google Photos. Touch  to choose pictures to display.
 - **Photo Frame**: Display pictures in a photo frame. Touch  to choose pictures to display.

- **Photo Table**: Display pictures in a photo table. Touch  to choose pictures to display.
- Touch **Start now** to preview Daydream mode. Touch the screen to cancel.
- Touch **Select dream time** to choose when daydream displays: While docked, While charging, or All.

Font Style

Select the font style for standard display text.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Font style** to choose a font.

Tip: To find new fonts, touch **Get fonts online** to access new fonts in the Google Play Store app.

Font Size

Select the font size for standard display text.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Font size** to choose a size.

Touch Key Light Duration

Set the length of time the  **Menu Key** and  **Back Key** remain lit after you touch them.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Touch key light duration** to choose a time period.

Show Battery Percentage

The battery charge level displays as an icon on the Status bar by default. This option displays the battery icon plus the percentage of remaining battery charge.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Show battery percentage** to turn the option on.

Edit After Screen Capture

Set screen captures you take to be automatically opened for editing.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Edit after screen capture** to turn the option on.

Auto Adjust Screen Tone

Allow your phone to automatically analyze the screen and adjusts the brightness to conserve battery power.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Auto adjust screen tone** to turn the option on.

Increase Touch Sensitivity

Increase the sensitivity of the touch screen so you can control the device while wearing gloves.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device** → **Display**.
2. Touch **Increase touch sensitivity** to turn the option on.

LED Indicator

This option allows you to turn on your LED lights for charging, missed events, and incoming notifications. The light will turn on by default unless you turn them off.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **LED indicator** for options:
 - **Charging:** The red LED lights up when you charge your device while the screen is off.
 - **Low battery:** The red LED blinks when the battery power is low while the screen is off.
 - **Notifications:** The blue LED blinks when you have missed calls, messages, or app notifications while the screen is off.
 - **Voice recording:** The blue LED blinks when you record voice while the screen is off.

Sound Settings

Configure settings for your phone's sound and audio.

Volume

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

Note: You can also set System volume from the Home screen by pressing the **Volume Key**.

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

Vibration Intensity

Set the vibration intensity for incoming calls, notifications, and haptic feedback.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound** → **Vibration intensity**.
3. Touch and drag sliders for:
 - **Incoming call**: Vibration intensity for incoming calls.
 - **Notifications**: Vibration intensity for alerts and other events.
 - **Haptic feedback**: Vibration intensity for Haptic feedback.

Ringtones

Choose a ringtone for incoming calls.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound** → **Ringtones**.
3. Touch a ringtone to select it. As you touch a ringtone, a sample plays.
4. Touch **Add** to choose a music track from Google Music, a sound file from Dropbox, or use Sound picker to choose a song from Music player.

Tip: You can also set songs as ringtones for a selected contact. For more information, see “*Setting a Song as Options*” on page 116.

Vibrations

Choose a vibration pattern to use when vibration is enabled.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound** → **Vibrations**.
3. Touch a vibration pattern to select it. As you touch a pattern, a sample of the vibration occurs.
4. To create your own pattern, touch **Create**. Touch **Touch to create** and tap the screen to enter a new pattern.

Default Notification Sound

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

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound** → **Notifications**.
3. Touch a sound to select it. As you touch a sound, a sample plays.

Vibrate When Ringing

Vibrate the phone for calls and notifications, along with the ringtone or sound.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Vibrate when ringing** to enable/disable the option.

Dialing Keypad Tone

Play tones when you touch keys on the keypad.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Dialing keypad tone** to enable/disable the option.

Touch Sounds

Play tones when you touch keys on the phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Touch sounds** to enable/disable the option.

Screen Lock Sound

Play tones when you touch the screen to lock or unlock it.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Screen lock sound** to enable/disable the option.

Haptic Feedback

Vibrate when softkeys are touched and for certain software actions.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Haptic feedback** to enable/disable the option.

Emergency Tone

You can choose to have a tone play, or have your phone vibrate, periodically during an emergency call.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Emergency tone** to select a tone:
 - **Off**: No tone or vibration plays during emergency calls.
 - **Alert**: A tone plays during emergency calls.
 - **Vibrate**: A vibration plays during emergency calls.

Samsung applications

These options are shortcuts to sound settings for the related applications.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Sound**. Under **Samsung applications**, the following options are available:
 - **Call**: Directly access Call sound settings. (For more information, refer to “*Call Settings*” on page 69.)
 - **Message**: Directly access Messages sound settings. (For more information, refer to “*Notification settings*” on page 78.)
 - **Email**: Directly access Email sound settings. (For more information, refer to “*Email Account Settings*” on page 81.)
 - **Calendar**: Directly access Calendar sound settings. (For more information, refer to “*Customizing the Calendar*” on page 85.)

Key-Tap Sound

Play a sound when you touch a key.

1. From the Home screen, touch  **Apps** →
 **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Key-tap sound** to enable/disable the option.

Key-Tap Vibration

Vibrate when you touch a key.

1. From the Home screen, touch  **Apps** →
 **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Key-tap vibration** to enable/disable the option.

Audio Output

Set HDMI output to stereo or surround mode.

1. From the Home screen, touch  **Apps** →
 **Settings** →  **My device**.
2. Touch **Sound**.
3. Touch **Audio output** and select *Stereo* or *Surround*.

Adapt Sound

Find the best sound for you during calls and media playback.

Note: This setting uses earphones to ensure the best sound during setup. You must connect optional earphones (not included) to the phone to configure this setting.

1. From the Home screen, touch  **Apps** →
 **Settings** →  **My device**.
2. Touch **Sound** → **Adapt Sound**.
3. Read the information about Adapt Sound and connect optional earphones (not included).
4. Touch **Start**, and then follow the prompts.

Home Screen Mode

Your phone offers two Home screen modes:

- **Standard mode** provides a conventional layout for apps and widgets on the Home screen.
- **Easy mode** provides an easier experience for the first-time smart phone user.

You can choose the Home screen mode at any time.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Home screen mode**.
3. Touch **Standard mode** or **Easy mode**, then touch **Apply**.

Call Settings

To configure call settings, see “*Call Settings*” on page 69.

Blocking Mode

When Blocking mode is enabled, notifications for selected features are blocked, and you only receive the notifications you choose. You can choose to block notifications by feature or contact, and choose blocking all the time, or during a specific time period.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **OFF/ON** next to **Blocking mode** to turn the feature ON.
3. Touch  **Blocking mode** for options:
 - **Block incoming calls:** Notifications for incoming calls will not be displayed.
 - **Turn off notifications:** Notifications for new messages will not be displayed.
 - **Turn off alarm and timer:** Notifications for alarms and timers will not be displayed.
 - **Turn off LED indicator:** The LED indicator will not light up.

4. Set a time period for Blocking mode:

- **Always:** Block notifications at all times.
- To set a specific time period to block notifications each day, disable the Always option, and then set a starting time (**From** field) and ending time (**To** field).

5. Set up Allowed contacts (contacts whose notifications will not be blocked):

- Touch **Allowed contacts**, and then choose an option:
 - **None:** Block notifications from all contacts.
 - **All contacts:** Allow notifications from any contact.
 - **Favorites:** Only allow notifications from contacts tagged as favorites.
 - **Custom:** Allow notifications from contacts you specify. Create a list of allowed contacts by touching  **Add** and selecting contacts.
- Touch **Allowed contacts list** to view your custom list of allowed contacts.

Hands-Free Mode

When enabled, alarm and scheduled alarm information is read aloud.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **OFF/ON** next to Hands-free mode to enable or disable the setting.
3. Touch  **Hands-free mode** for options:
 - **Incoming call:** Read out callers' information when receiving incoming calls.
 - **ChatON:** Read out callers' information when receiving incoming ChatON messages.
 - **Air call-accept:** Wave your hand over the screen to accept incoming calls.
 - **Message:** Read out senders' information when new messages arrive.
 - **Alarm:** Read out alarm information when alarms sound.
 - **Schedule:** Read out scheduled alarm information when alarms sound.

Power Saving Mode

Configure Power saving mode settings to conserve battery power.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch  **OFF/ON** next to Power saving mode to enable or disable the setting.
3. Touch **Power saving mode** for options:
 - **CPU power saving:** Limit the maximum performance of the CPU (Central Processing Unit). This does not affect normal usage, such as browsing and video playback.
 - **Screen power saving:** Use low power level for the screen.
 - **Turn off haptic feedback:** Turn off haptic feedback to save power.

Note: Touch **Learn about power saving** for more information.

Accessory Settings

Configure your phone's behavior when it is connected to an optional dock (not included).

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Accessories** for options:
 - **Dock sound:** When enabled, a sound plays when you dock or undock the phone.
 - **Audio output mode:** When enabled and the phone is docked, audio plays through speakers connected to the dock.
 - **Desk home screen display:** When enabled, the desk home screen displays when the phone is docked.
 - **Automatic unlock:** When enabled, flipping the S View cover open unlocks the screen, provided Screen lock is set to Swipe or None.
 - **Show in-call screen:** When enabled, during a call, the screen turns on automatically when you move your phone away from you ear.
 - **Audio output:** Set HDMI audio output to Stereo or Surround mode.

Accessibility Settings

Your phone offers features to make using the phone easier for those with certain physical disabilities. Use the Accessibility settings to configure these features.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Accessibility** for options:
 - **Auto rotate screen**: Enable automatic rotation of the screen when you rotate the phone.
 - **Screen timeout**: Set a period of time for the screen to remain lit-after which it will dim and lock.
 - **Speak passwords**: Read aloud password information.
 - **Answering/ending calls**: Accept calls by pressing the Home Key or end calls by pressing the **Power/Lock Key**.
 - **Easy touch mode**: Touch to stop/snooze alarms, calendar events, and timer alerts, and to accept/reject incoming calls.
 - **Show shortcut**: Display a shortcut to Accessibility settings on the Device options menu. (The Device options menu displays when you press and hold the **Power/Lock Key**.)
 - **Manage accessibility**: Choose settings for exporting, updating, and sharing the accessibility settings as a file.
 - **TalkBack**: Activate the TalkBack feature and configure options.

- **Font size**: Change the size of the fonts used on the screen.
- **Magnification gestures**: Control whether your phone recognizes gestures to pan, and zoom in or out.
- **Negative colors**: Reverse the display of on-screen colors from White text on a Black background to Black text on a White background.
- **Color adjustment**: Adjust the color of the screen if you are color blind or have difficulty reading the display because of the screen color. Touch **OFF/ON** to turn color adjustment on, then touch Color adjustment for options.
- **Notification reminder**: Play a beep when a notification for a call, message, and so on, has been missed. Touch **OFF/ON** button to turn notification reminder on, then touch Notification reminder to set the Reminder interval.
- **Accessibility shortcut**: Control whether your phone recognizes a gesture to quickly enable accessibility features. To use the gesture, press and hold the **Power/Lock Key** until you hear a sound or feel a vibration, then touch and hold two fingers on the screen until you hear an audio confirmation.

- **Text-to-speech options:** Configure options for converting text to speech. (For more information, see “*Text-to-speech options*” on page 171.)
- **Sound balance:** Control the signal sent to the left and right when using earphones.
- **Mono audio:** Enable stereo audio to be compressed into a single mono audio stream for use with a single earphone.
- **Turn off all sounds:** Mute every sound made by the phone during touch, selections, notifications, etc.
- **Hearing aids:** Turn on hearing aid compatibility.
- **Flash notification:** Set the camera flash to blink when notifications occur.
- **Google subtitles (CC):** When set to **ON**, displays Google subtitles (captions) and lets you select Language, Text size, and Caption style, and colors for the text Font, Background, and Caption window.
- **Samsung subtitles (CC):** When set to **ON**, displays Samsung subtitles (captions) and lets you select text Alignment, Font, Size, and Edge.
- **Assistant menu:** Display a special menu to improve phone accessibility for users with reduced dexterity. Touch **OFF/ON**, then touch **Assistant menu** for options.
 - **Dominant hand:** Display the Assistant menu on the left or right side of the screen.
 - **Edit:** Reorder or remove items on the Assistant menu.
- **Press and hold delay:** Select a time interval for using the *Touch and hold* gesture.
- **Interaction control:** Adjust how your phone interprets motions and screen touches. You can turn motions and screen timeout on or off. You can also block areas of the screen from touch interaction, turn Auto rotate and hard key functions (Power/Lock Key, Volume Key, etc.) off, and display app notifications only on the Notification panel and Status bar. Touch **OFF/ON**, then touch **Interactive control** for options.

Language and Input

Use Language and input settings to choose a default language for your phone's operations, plus settings for text entry and other inputs.

Default Language

Choose the default language for operating your phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input** → **Language** to select a default language.

Default Input Method

Select default input method you will use when accessing the keyboard.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input** → **Default** to select Samsung keyboard or Swype.

Samsung Keyboard

The Samsung Keyboard is an on-screen QWERTY keyboard, so you can enter text by “typing” on the keyboard. Samsung keyboard is enabled by default.

For more information, see “*Entering Text Using the Samsung Keyboard*” on page 43.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input**.
3. **Samsung keyboard** is enabled by default. Touch  to configure options:
 - **English (US)**: Select the default Samsung keyboard format (Qwerty keyboard or 3X4 keyboard).
 - **Select input language**: Choose language(s) for use with Samsung keyboard. When you have more than one language enabled, you can slide your finger on the space bar while entering text to switch languages.

- **Predictive text:** When set to **ON**, Predictive text suggests words matching your text entries, and optionally, complete common words automatically. Touch **Predictive text** to configure options:
 - **Live word update:** Automatically update with popular new words every day.
 - **Personalized data:** When enabled, predictive text uses personal language data you have entered to make better predictions. Samsung keyboard can collect all the text you enter, including personal data and credit card numbers, in order to give better prediction results.
 - **Learn from Facebook:** Log into Facebook to allow your phone to learn from your Facebook postings.
 - **Learn from Gmail:** Log into Gmail to allow your phone to learn from your Gmail email.
 - **Learn from Twitter:** Log into Twitter to allow your phone to learn from your Twitter postings.
 - **Learn from Messages:** Allow your phone to learn from your text and multimedia messages.
 - **Learn from Contacts:** Allow your phone to learn from your Contacts entries.
- **Clear remote data:** Delete your information stored on the personalization server.
- **Clear personal data:** Remove all personalized data you have entered.
- **Privacy policy:** Read the privacy policy.
- **Auto replacement:** Complete or replace the word you are typing with the most probable word when you touch the space bar.
- **Auto capitalization:** When enabled, automatically capitalizes words in your text based on common usage, such as, at the beginning of sentences.
- **Auto spacing:** When enabled, automatically inserts spaces between words.
- **Auto punctuate:** When enabled, automatically enters a period and space to end a sentence when you touch the space bar twice.

- **Keyboard swipe:**

- **None:** Disable swipe mode.
- **SwiftKey flow:** Enter text by sliding your finger across the keys on the keyboard.
- **Cursor control:** Slide your finger across the keyboard to move the cursor to begin entering text.

- **Key-tap feedback:**

- **Sound:** When enabled, a sound plays when a key is touched.
- **Vibration:** When enabled, device vibrates when a key is touched.
- **Character preview:** When enabled, a large character bubble displays when a key is touched.

- **Help:** Learn about Samsung Keyboard.

- **Reset settings:** Return settings to the defaults.

Swype

Swype lets you enter text by sliding your finger between letters to spell out a word. For each word, place your finger on the first letter and slide to the subsequent letters, lifting on the last letter.

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

 **Settings** →  **My device.**

2. Touch **Language and input.**

3. Swype is enabled by default. Touch  to configure:

- **Settings:** Set Swype options:

- **Vibrate on keypress:** Vibrate when you touch a key.
- **Sound on keypress:** Play a tone when you touch a key.
- **Pop-up on keypress:** Characters display above keys as you enter text.
- **Long-press delay:** Select delay time to display alternate character options.
- **Show complete trace:** When enabled, displays the trace of each word until you start the next word.
- **Auto-capitalization:** Capitalize the first word of sentences.
- **Auto-spacing:** Automatically insert spaces between words as you complete them.

- **Next word prediction:** Let Swype predict the next word based on the previous word.
- **Show Voice key:** Display a voice entry button on the keyboard.
- **Themes:** Select Landscape keyboard width, Keyboard height, and/or Word choice list font size.
- **My Words:** View and manage words in your Swype dictionary, used for word completion, suggestions, and spell checking.
- **Languages:** Choose the current language for Swype, and download additional languages.
- **Gestures:** Learn about shortcuts you can use on the keyboard to quickly accomplish common tasks.
- **Help:** Learn about using Swype.
- **Updates:** Check for updates to Swype.

Google Voice Typing Settings

Google voice typing allows you to speak your entries. When you enable Google voice typing, it's available for use when you touch a field to enter text.

For more information, see *“Using the Google Voice Typing Feature”* on page 43.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input**.
3. Touch the **Google voice typing** check box to enable it.
4. Touch  beside **Google voice typing** for options:
 - **Choose input languages:** Choose Automatic language selection or choose a particular language.
 - **Block offensive words:** Hide words many people find offensive are in results of Google voice searches. Offensive words are replaced in results with a placeholder (#####).
 - **Offline speech recognition:** Download and install speech recognition engines, to allow you to use voice input while not connected to the network, such as during Airplane mode.

Voice Search Settings

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input** → **Voice search** for options:
 - **Language:** Choose a language for voice searching.
 - **Speech output:** Set whether search results use speech output Always, Informative only, or Hands-free mode only.
 - **Block offensive words:** Hide words many people find offensive from the results of Google voice searches. Offensive words are replaced in results with a placeholder (#####).
 - **Hotword detection:** Launch a voice search by saying the word “Google.”
 - **Offline speech recognition:** Install a language module for offline speech recognition.
 - **Personalized recognition:** Adapts your device’s speech recognition to more closely match your voice.
 - **Google Account dashboard:** Lets you manage the data collected and stored in your Google account.
 - **Bluetooth headset:** Record audio through an optional Bluetooth headset (not included).

Text-to-speech options

Text-to-speech (TTS) provides audible readout of text, such as the contents of text messages.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input** → **Text-to-speech options** for options:
 - **Preferred TTS engine**
 - Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine** as your default TTS engine. Touch  to configure.
 - **General**
 - **Speech rate:** Choose a speed at which the text is spoken.
 - **Listen to an example:** Play a sample of speech synthesis.
 - **Default language status:** Indicates how well selected Text-to-speech engine supports your chosen default language.

Mouse/Trackpad

This option sets the pointer speed for an externally connected mouse or trackpad (not included).

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Language and input** → **Pointer speed**.
3. Touch and drag along the scale to set the pointer speed.

Motions and Gestures

Configure various motion and gestures features.

Air Gesture

Control your phone by making smooth, steady movements up to 3 inches above the screen.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Motions and gestures** → **Air gesture**, then touch **OFF/ON** to enable each feature:
 - **Learn about sensor and icon:** View information about using the air gesture sensor.
 - **Quick glance:** When the screen is off, reach towards your device to see important information at a glance. Touch **OFF/ON** to enable the feature, and then touch **Quick glance** for options.
 - **Air jump:** Scroll email messages in screen-sized jumps.
 - **Air browse:** Move between pictures, pages, or music tracks. Touch **OFF/ON** to enable the feature, and then touch **Air browse** for options.
 - **Air move:** Move app shortcuts or S Planner events to different pages.

- **Air call-accept:** Answer incoming calls. Touch **OFF/ON** to enable the feature, and then touch **Air call accept** for options.

Motion

Control your phone with natural hand movements, such as putting the phone to your ear to call a displayed contact.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Motions and gestures** → **Motion**, then touch **OFF/ON** to enable each feature:
 - **Direct call:** Lift the phone to your ear while viewing a contact to call the contact.
 - **Smart alert:** Lift the phone to receive notifications of missed calls and notifications that occurred while the phone was stationary.
 - **Zoom:** Tilt the phone to zoom in or out when viewing pictures in Gallery.
 - **Browse an image:** Move the phone in a side-to-side motion to pan from side to side while viewing an image.
 - **Mute/pause:** Mute incoming calls and pause playback by turning the phone screen-side down.

Palm Motion

Control the phone by touching the screen with the palm of your hand.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Motions and gestures** → **Palm motion**, then touch **OFF/ON** to enable the feature:
 - **Capture screen:** Create a screen capture by swiping the screen right to left or vice versa with the side of your hand.
 - **Mute/pause:** Mute incoming calls and pause playback by covering the screen with your hand.

Smart Screen

Smart screen features use the front camera to detect when you are facing the screen. Some factors that may affect the ability of the front camera to detect your face are:

- When the phone is not docked or held upright, for example when placed on a table.
- When the front camera cannot detect your face and eyes.
- When the front camera is being used for the current application.
- When the source of light is behind you, or when using the phone in the dark.

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

 **Settings** →  **My device.**

2. Touch **Smart screen** for options:

- **Smart stay:** When enabled, keeps the screen on as long as you are looking at it.
- **Smart rotation:** When enabled, rotates the screen according to the orientation of your face.
- **Smart pause:** When enabled, pauses video playback when the device detects that you are facing away from the screen.
- **Smart scroll:** When set to ON, scrolls up or down by tilting your head or device while looking at the screen. Touch **Smart scroll** for further options.

Air View

Preview information when you hover your finger over the screen. For example, you can hover your finger over a scheduled item in your calendar to see more details.

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

 **Settings** →  **My device.**

2. Touch **Air view** slider to set the feature to **ON** or **OFF**, and then touch **Air view** for options:

- **Information preview:** When set to ON, displays information previews, extended text, and enlarged images when you hover your finger over the screen.
- **Progress preview:** When set to ON, lets you preview a scene or displays elapsed time when you hover your finger over the progress bar while watching a video.
- **Speed dial preview:** When set to ON, displays the contacts and their speed dial numbers when you hover your finger over them in your contacts list.
- **Web page magnifier:** When set to ON, displays magnified links on web pages when you hover your finger over them.
- **Sound and haptic feedback:** When set to ON, plays a sound and your device vibrates when you hover your finger over Air view items.

Voice Control

Use voice commands to control functions of your phone.

Note: If you set the alert type for calls or notifications to vibrate, voice command is not available.

1. From the Home screen, touch  **Apps** →  **Settings** →  **My device**.
2. Touch **Voice control** slider to set the feature to **ON** or **OFF**, and then touch **Voice control** for options:
 - **Incoming calls:** When enabled, lets you answer or reject calls with the voice commands “Answer” and “Reject.” When you answer a call with the voice command, the speaker will automatically be turned on for hands-free operation.
 - **ChatON:** When enabled, lets you answer or reject ChatON Voice & Video Chat calls with the voice commands “Answer” or “Reject.” The speaker will turn on when you answer a call with a voice command.
 - **Alarm:** When enabled, lets you stop or snooze alarms with the voice commands “Stop” and “Snooze.”

- **Camera:** When enabled, lets you take pictures with the voice commands “Smile”, “Cheese”, “Capture”, and “Shoot.”
- **Music:** When enabled, lets you control the Music app with the voice commands “Next”, “Previous”, “Pause”, “Play”, “Volume Up”, and “Volume Down.”

Add an Account

Add an account to your phone to share information between your phone and the account.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Accounts**.
2. Touch **Add account** and select an account type. Follow the prompts to enter your credentials and set up the account on your device.

For more information about managing applications, see “*Accounts*” on page 49.

Cloud

Configure options for synchronizing and backing up your data using online storage.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Accounts**.
2. Touch **Cloud**.
3. Sign **Add account** to sign in to your Samsung Account or create a new account. You can sync Contacts, Calendar, Memo, and Internet data. You can back up logs, text messages, multimedia messages, and current wallpaper settings.
4. Touch **Link Dropbox account** to sign in to your Dropbox account, or set up a new account, to sync pictures, videos and documents.

Backup and Reset

Back up application data, Wi-Fi passwords, and other settings to Google servers.

Backup Your Data

1. From the Home screen, touch  **Apps** →  **Settings** →  **Accounts**.
2. Touch **Backup and reset** → **Back up my data** to enable automatic back up of your data to a Google Account.
3. Touch **Backup account** to set up a Google Account for backups. You can create a new Google Account, or sign in to an existing account.
4. Touch **Automatic restore** to restore an app's settings and other information from the backup (if available) when you reinstall that app.

Factory Data Reset

Reset all settings to the factory defaults, and permanently delete all data from the phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **Accounts**.
2. Touch **Backup and reset** → **Factory data reset** → **Reset device**.
3. Follow the prompts to perform the reset.

Location Services

These settings allow you to configure how the phone determines its location.

Note: Some apps may require one or more location services be turned on for full functionality.

GPS signals may be affected by your surroundings, including:

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

Note: E911 location service is standard on all mobile phones, to allow sharing of GPS information with emergency personnel when you make a call to emergency services, such as 911.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Locations** for options:
 - Touch and slide the **Locations**  slider to the right to turn **Locations** ON.
 - **Mode**: Select locating method (High accuracy, Power saving, or GPS only).
 - **Recent location requests**: Lists apps that have recently requested your location information.
 - **Google Location Reporting**: Turn Location Reporting and/or Location History for your Google account(s) On or Off.
 - **My places**: Save your favorite locations for use with services that require location information.
 - Touch **Home**, **Office**, or **Car**, and follow the prompts to configure options for identifying the location.
 - Tap  to set up a different location.

Security Settings

Configure options for securing information on your phone.

Encryption

You can encrypt accounts, settings, downloaded apps and their data, media, and other files. After encryption, you must enter the PIN or password you set each time you turn on your phone. You can also encrypt information stored on an optional installed memory card (not included).

Encryption may take an hour or more to complete. Start with a charged battery, and keep the phone on the charger until encryption is complete. Interrupting the encryption process may result in the loss of some or all data.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security**, and then touch an option:
 - **Encrypt device**: Touch **Set screen lock type** to start, and then follow the prompts to encrypt information.
 - **Encrypt external SD card**: Touch **Set screen lock type** to start, and then follow the prompts to encrypt information.

SIM Card Lock

Prevent another user from using your SIM card to make unauthorized calls or from accessing information stored on your SIM card by protecting the information using a PIN code.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Set up SIM card lock**.
3. Touch **Lock SIM card** to enable the option, then enter your SIM PIN code, and touch **OK**.
4. Touch **Change SIM PIN**.
 - Enter your old SIM PIN code and touch **OK**.
 - Enter your new SIM PIN code and touch **OK**.
 - Re-enter your new SIM PIN code and touch **OK**.

Make Passwords Visible

When enabled, password characters display briefly as you enter them.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Make passwords visible** to enable the option.

Device Administration

Some applications, such as Corporate email, may require you allow access to your phone by device administrators in certain circumstances, such as if your phone is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the device is restored to factory settings
- Automatically locking the device.
- Restoring factory settings on the device.

Device Administrators

View, add or remove device administrators.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Device administrators**, and then touch the agent(s) to use.

Unknown Sources

Allow applications from sources other than the Google Play Store to be installed on the phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Unknown sources** to enable the option.

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

Block or display a warning before installing apps that might cause harm to the phone.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Verify apps** to enable the option.

Change Security Level

Set the security level to block unauthenticated actions or explicit threats.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Change Security Level** for options:
 - **High:** Block all unauthenticated actions.
 - **Normal:** Block actions of explicit threats only.

Security Update Service

Set options for updating your security policy and settings.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Security policy updates**. The following options are available:
 - **Automatic updates:** When enabled, this option automatically checks for changes to the security policy and downloads any updates to improve security and service.
 - **Preferred networks:** Select whether your device automatically downloads security policy updates when connected to **Wi-Fi or mobile networks**, or when connected to **Wi-Fi networks only**.

- **Check for updates:** Manually check for changes to the security policy.

Send security reports

When enabled, this option automatically sends security reports to Samsung for threat analysis.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security** → **Send security reports** to enable this option.

Credential Storage

You can install credentials from an optional installed memory card (not included), and use credential storage settings to allow applications to access the security certificates and other credentials.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Security**.
3. Touch **Storage type** to select the type of credential storage.
4. Touch **Trusted credentials** to view installed certificates.
5. Touch **Install from phone storage** and choose a certificate and follow the prompts to install.
6. Touch **Clear credentials** and follow the prompts to clear stored credentials and reset the password.

Application Manager

You can download and install applications from the Google Play Store or Samsung Apps, or create applications using the Android SDK and install them on your phone. Use Application manager to manage applications on your 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 Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Application manager**.
3. Touch **DOWNLOADED**, **SD CARD**, **RUNNING**, or **ALL** to view the status of applications and services. Touch an app or service for more information and for app options, such as stopping or uninstalling.

Battery

View what is using battery power.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Battery** to view battery usage for apps and services. Touch an item for more information, or to configure options for managing power use.

Storage

Manage the use of memory resources in your phone's memory and on an optional memory card (not included).

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Storage** to view information about memory usage and options:
 - **Device memory:** View memory usage for the different types of information stored on your phone's memory. Touch an item for more information.
 - **SD card:** View total space and available space on an optional memory card (not included).

Memory Card

Your device supports optional microSD or microSDHC memory cards of up to 64GB capacity (not included), for storage of music, pictures, and other files.

Install a Memory Card

For information on installing a memory card, see “*Installing a Memory Card*” on page 10.

Remove a Memory Card

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

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Storage** → **Unmount SD card**.
3. At the prompt, read the warning and select **OK** to continue. Wait for **SD card safe to remove** to appear in the Status bar.

4. Remove the back cover, then remove the battery.
5. Slide the memory card out from its slot.
6. Replace the battery and back cover.

Format a Memory Card

Use the Format SD card setting to remove all data from an installed memory card.

Important! Data cannot be recovered after formatting.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Storage** → **Format SD card**, then follow the prompts to confirm the deletion of data from the card.

Date and Time

By default, your 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 and time settings.

1. From the Home screen, touch  **Apps** →  **Settings** →  **More**.
2. Touch **Date and time**.

3. Touch a setting to configure:

- **Automatic date and time:** When enabled, the phone takes date and time updates from the wireless network.
- **Set date:** Enter the current date (only available when Automatic date and time is disabled).
- **Set time:** Enter the current time (only available when the Automatic setting is disabled).
- **Automatic time zone:** When enabled, the phone takes the time zone from the wireless network.
- **Select time zone:** Choose your local time zone (only available when the Automatic setting is disabled).
- **Use 24-hour format:** Set the format for time displays.
- **Select date format:** Set the format for date displays.

About Device

View information about your phone, including status, legal information, hardware and software versions, and a tutorial.

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



Settings →



More.

2. Touch **About device**.
3. Touch a setting to view details:

- **Software update:** Check availability and install updates.
- **Status:** View information about your phone's current status.
- **Legal information:** Display Open source licenses, Google legal information, and Licence settings.
- **Device name:** View your phone's name. Touch to change the phone's name.
- **Model number:** View your phone's model number.
- **Android version:** View the firmware version of your phone.
- **Baseband version:** View the baseband version of your phone.
- **Kernel version:** View the kernel version of your phone.
- **Build number:** View the build number of your phone.
- **SE for Android status:** View the status of SELinux.
- **Secure boot status:** View your phone's secure boot status.
- **Hardware version:** View the hardware version of your phone.
- **Security software version:** View the security software version of your phone.

Section 9: Health and Safety Information

This device is capable of operating in Wi-Fi™ mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with Mobile Satellite Services (MSS). Therefore, this device is restricted from being used outdoors when operating in frequencies between 5.15-5.25 GHz.

This section outlines the safety precautions associated with using your phone. The terms “mobile device” or “cell phone” are used in this section to refer to your phone. **Read this information before using your mobile device.**

Exposure to Radio Frequency (RF) Signals

The U.S. Food and Drug Administration (FDA) has published information for consumers relating to Radio Frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

Do cell phones pose a health hazard?

Many people are concerned that cell phone radiation will cause cancer or other serious health hazards. The weight of scientific evidence has not linked cell phones with any health problems.

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

The low levels of RF cell phones emit while in use are in the microwave frequency range. They also emit RF at substantially reduced time intervals when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects.

The biological effects of radio frequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays, can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues including DNA, the genetic material.

The energy levels associated with radio frequency energy, including both radio waves and microwaves, are not great enough to cause ionization of atoms and molecules.

Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat), and other forms of electromagnetic radiation with relatively low frequencies.

While RF energy does not ionize particles, large amounts can increase body temperatures and cause tissue damage. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

Research Results to Date: Is there a connection between RF and certain health problems?

The results of most studies conducted to date say no. In addition, attempts to replicate and confirm the few studies that have shown a connection have failed.

The scientific community at large therefore believes that the weight of scientific evidence does not show an association between exposure to Radio Frequency (RF) from cell phones and adverse health outcomes. Still the scientific community has supported additional research to address gaps in knowledge. Some of these studies are described below.

Interphone Study

Interphone is a large international study designed to determine whether cell phones increase the risk of head and neck cancer. A report published in the International Journal of Epidemiology (June, 2010) compared cell phone usage for more than 5,000 people with brain tumors (glioma and meningioma) and a similar number of healthy controls.

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a

slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at

http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf.

Interphone is the largest cell phone study to date, but it did not answer all questions about cell phone safety. Additional research is being conducted around the world, and the FDA continues to monitor developments in this field.

International Cohort Study on Mobile Phone Users (COSMOS)

The COSMOS study aims to conduct long-term health monitoring of a large group of people to determine if there are any health issues linked to long-term exposure to radio frequency energy from cell phone use. The COSMOS study will follow approximately 300,000 adult cell phone users in Europe for 20 to 30 years. Additional information about the COSMOS study can be found at

<http://www.ukcosmos.org/index.html>.

Risk of Brain Cancer from Exposure to Radio Frequency Fields in Childhood and Adolescence (MOBI-KIDS)

MOBI-KIDS is an international study investigating the relationship between exposure to radio frequency energy from communication technologies including cell phones and brain cancer in young people. This is an international multi-center study involving 14 European and non-European countries. Additional information about MOBI-KIDS can be found at

http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39.

Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute

The National Cancer Institute (NCI) actively follows cancer statistics in the United States to detect any change in rates of new cases for brain cancer. If cell phones play a role in risk for brain cancer, rates should go up, because heavy cell phone use has been common for quite some time in the U.S. Between 1987 and 2005, the overall age-adjusted incidence of brain cancer did not increase. Additional information about SEER can be found at

<http://seer.cancer.gov/>.

Cell Phone Industry Actions

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

- Support-needed research on possible biological effects of RF for the type of signal emitted by cell phones;
- Design cell phones in a way that minimizes any RF exposure to the user; and
- Cooperate in providing users of cell phones with the current information on cell phone use and human health concerns.

The FDA also is working with voluntary standard-setting bodies such as the Institute of Electrical and Electronics Engineers (IEEE), the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and others to assure that safety standards continue to adequately protect the public.

Reducing Exposure: Hands-Free Kits and Other Accessories

Steps to Reduce Exposure to Radio Frequency Energy

If there is a risk from being exposed to radio frequency energy (RF) from cell phones - and at this point we do not know that there is - it is probably very small. But, if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your RF exposure.

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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.

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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):

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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: A3LSCHR970C [Model Number: SCH-R970C] 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 devices 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 device, this site uses the device FCC ID number which is usually printed somewhere

on the case of the device. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular device, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular device. 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.

Radio Frequency (RF) Energy

Understanding How Your Samsung Mobile Hotspot Operates

Your device functions as a radio transmitter and receiver. When it is turned on, it receives and transmits radio frequency (RF) signals.

Knowing Radio Frequency Safety

The design of your device complies with updated NCRP standards described below:

In 1991-92, the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI) joined in updating ANSI's 1982 standard for safety levels with respect to human exposure to RF signals. More than 120 scientists, engineers and physicians from universities, government health agencies and industries developed this updated standard after reviewing the available body of research.

In 1993, the Federal Communications Commission (FCC) adopted this updated standard in a regulation. In August 1996, the FCC adopted a hybrid standard consisting of the existing ANSI/IEEE standard and the guidelines published by the National Council of Radiation Protection and Measurements (NCRP).

For more information about RF exposure, visit the FCC Web site at www.fcc.gov.

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.
- **Caution: Some applications or prolonged usage may increase device temperature.** Prolonged skin contact with a device that is hot to the touch may produce skin discomfort or redness, or low-temperature burns. If the device feels hot to the touch, discontinue use and close all applications or turn off the device until it cools. Always ensure that the phone has adequate ventilation and air flow. Covering the device with bedding, your body, thick clothing or any other materials that significantly affect air flow may affect the performance of the phone and poses a possible risk of fire or explosion, which could lead to serious bodily injuries or damage to property.
- **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 nonSamsung-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> and follow the instructions to print out a free pre-paid postage label and then send your old mobile device or battery to the address listed, via U.S. Mail, for recycling.

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 & AGPS

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.

Certain Samsung mobile devices can also use an Assisted Global Positioning System (AGPS), which obtains information from the cellular network to improve GPS performance. AGPS uses your wireless service provider's network and therefore airtime, data charges, and/or additional charges may apply in accordance with your service plan. Contact your wireless service provider for details.

Your Location

Location-based information includes information that can be used to determine the approximate location of a mobile device. Mobile devices which are connected to a wireless network transmit location-based information. Additionally, if you use applications that require location-based information (e.g. driving directions), such applications transmit location-based information. The location-based information

may be shared with third-parties, including your wireless service provider, applications providers, Samsung, and other third-parties providing services.

Use of AGPS in Emergency Calls

When you make an emergency call, the cellular network may activate AGPS technology in your mobile device to tell the emergency responders your approximate location.

AGPS has limitations and **might not work in your area.**

Therefore:

- Always tell the emergency responder your location to the best of your ability; and
- Remain on the mobile device for as long as the emergency responder instructs you.

Navigation

Maps, directions, and other navigation-data, including data relating to your current location, may contain inaccurate or incomplete data, and circumstances can and do change over time. In some areas, complete information may not be available. **Therefore, you should always visually confirm that the navigational instructions are consistent with what you see before following them. All users should pay attention to road conditions, closures, traffic, and all other factors that may impact safe driving or walking. Always obey posted road signs.**

Emergency Calls

This mobile device, like any wireless mobile device, operates using radio signals, wireless and landline networks, as well as user-programmed functions, which cannot guarantee connection in all conditions, areas, or circumstances.

Therefore, you should never rely solely on any wireless mobile device for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel. Remember, to make or receive any calls, the mobile device must be switched on and in a service area with adequate signal strength.

Emergency calls may not be possible on all wireless mobile device networks or when certain network services and/or mobile device features are in use. Check with local service providers.

To make an emergency call:

1. If the mobile device is not on, switch it on.
2. From the Home screen, touch  to launch the Phone Dialer.

3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.

4. Touch  to place the call.

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 environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech, or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology

11730 Plaza American Drive, Suite 300
Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet:

<http://www.audiology.org/Pages/default.aspx>

National Institute on Deafness and Other Communication Disorders

National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD 20892-2320

Email: nidcdinfo@nih.gov

Internet:

<http://www.nidcd.nih.gov/>

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W., Suite 9200
Patriots Plaza Building
Washington, DC 20201

Voice: 1-800-35-NIOSH

(1-800-356-4674)

1-800-CDC-INFO (1-800-232-4636)

Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet:

<http://www.cdc.gov/niosh/topics/noise/default.html>

1-888-232-6348 TTY

Operating Environment

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

Using Your Mobile Device Near Other Electronic Devices

Most modern electronic equipment is shielded from Radio Frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless mobile device. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless mobile device and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the mobile device more than six (6) inches from their implantable medical device when the mobile device is turned ON;
- Should not carry the mobile device in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the mobile device OFF immediately if there is any reason to suspect that interference is taking place;

- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless mobile device with an implantable medical device, consult your health care provider.

For more information see: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html#>.

Other Medical Devices

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

Vehicles

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

Posted Facilities

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

Potentially Explosive Environments

Switch your mobile device off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised to switch the mobile device off while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine. 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

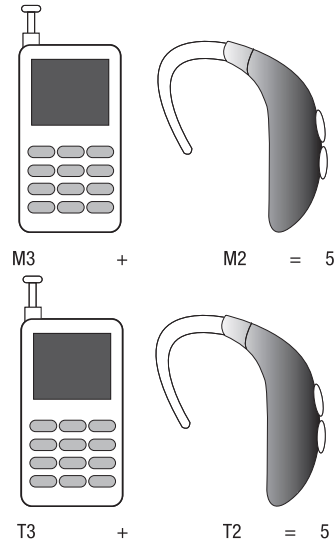
is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

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 10: Warranty Information

Standard Limited Warranty

What is covered and for how long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC (“SAMSUNG”) warrants that SAMSUNG’s handsets and accessories (“Products”) are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase by the first consumer purchaser and continuing for the following specified period of time after that date:

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

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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.

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