

Samsung GALAXY S4[®]

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

User Manual

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Section 1: Getting Started

This section allows you to quickly start using your Samsung SCH-R970 phone by installing the SIM and 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 219.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 182.

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

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

 **Menu** → **Settings** →  → **Wi-Fi.**”

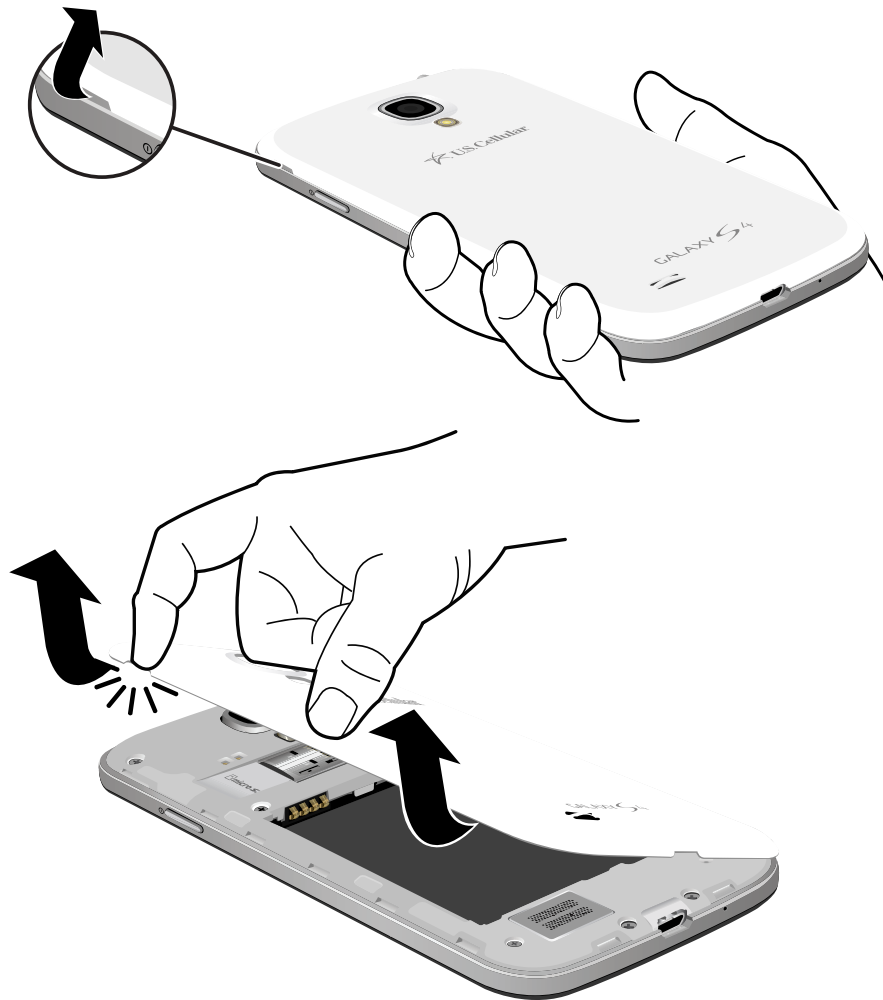
Setting Up Your Phone

Before using your phone, you need to install the SIM card, the microSD card, and the battery into their respective internal slots and compartment.

Important! Before removing or replacing the battery cover, make sure the phone is switched off. To turn the phone off, hold down the power key until the power-off image displays, then touch **Power off**.

Removing the Battery Cover

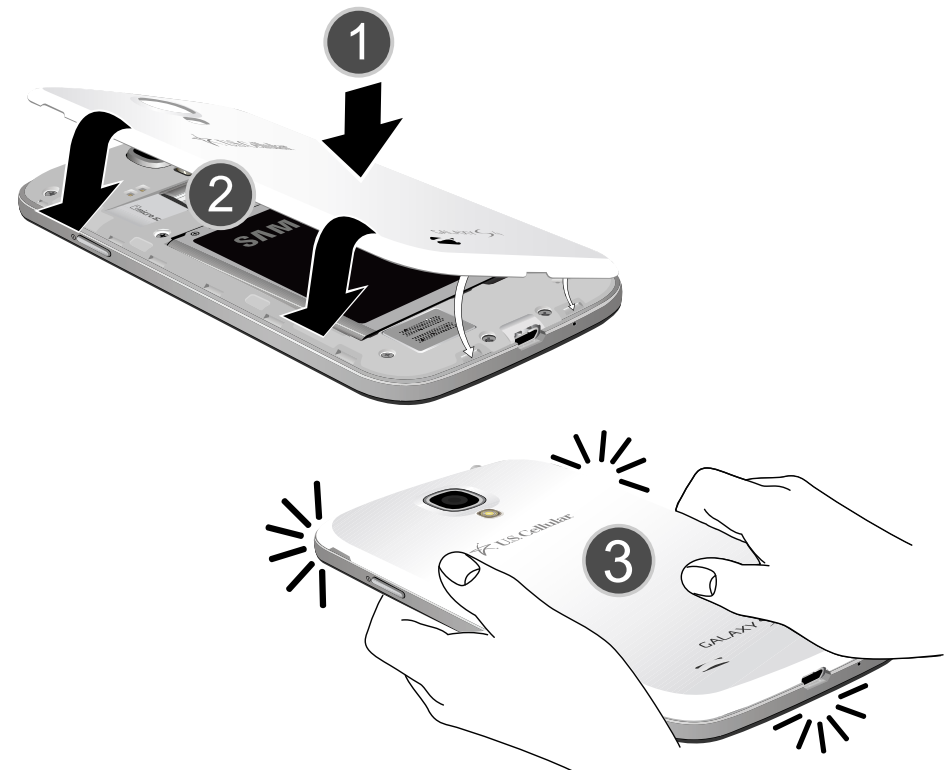
1. Locate the cover removal opening.
2. Place your fingernail in the opening and pry the cover away from the device.



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

Replacing the Battery Cover

- Align the cover (1) and press it firmly into place (2), making sure it snaps into place at the corners (3).



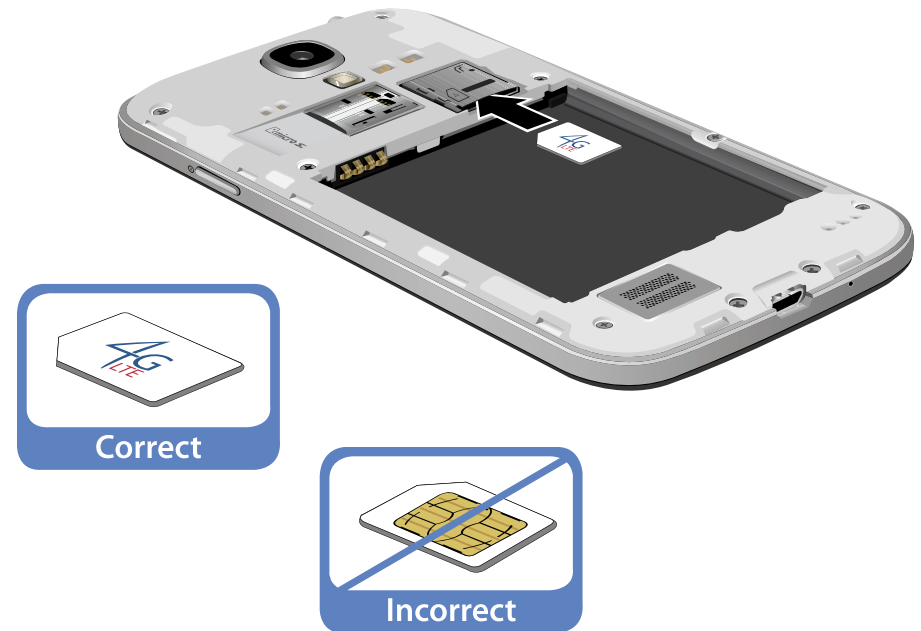
Installing the SIM Card

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.

Important! The SIM card must be installed for your phone to establish a network connection.

The plug-in SIM card information and its contacts can be easily damaged by scratching or bending, so be careful when handling, inserting, or removing the card. Keep all SIM cards out of reach of small children.

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 toward the slot to the left (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.

If your SIM card is ever separated from the device or damaged, your device will not function. If you experience any issues with your device, contact Customer Service at 888-944-9400 or visit your nearest U.S. Cellular[®] retail location.

SIM Card Limited Warranty

Subject to the exclusions contained below, United States Cellular Corporation (“U.S. Cellular”) warrants to the original purchaser (“You” or “Your”) of the handset with which the SIM card was provided that the SIM card will be free from defects in material and workmanship for a period of one (1) year from the date You purchased the handset (the “Warranty Period”). This warranty is not transferable. Should a defect appear during the Warranty Period, U.S. Cellular will send a replacement SIM card to Your address within the United States without charge provided that you request the replacement SIM card during or within thirty (30) days following the Warranty Period by calling U.S. Cellular Customer Service at 888-944-9400 (or dialing 611 on Your U.S. Cellular handset) or by visiting a U.S. Cellular retail store.

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Removing the SIM Card

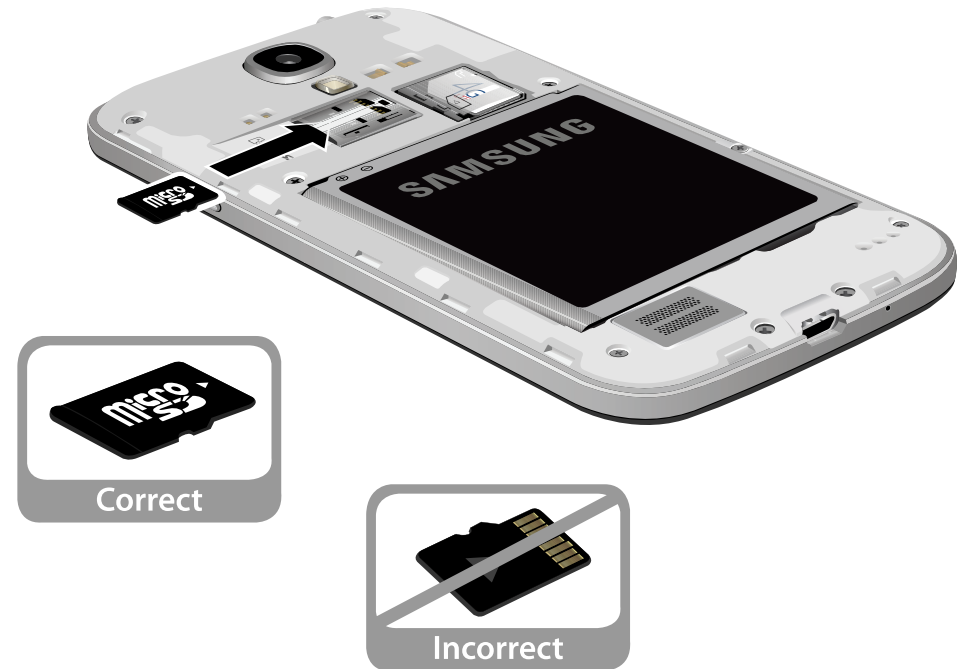
1. Remove the battery cover.
2. Remove the battery.
3. Press the card into the slot and carefully release it. The card should pop partially out of the slot.
4. Remove the card from the slot.
5. Replace the battery and the battery cover.

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

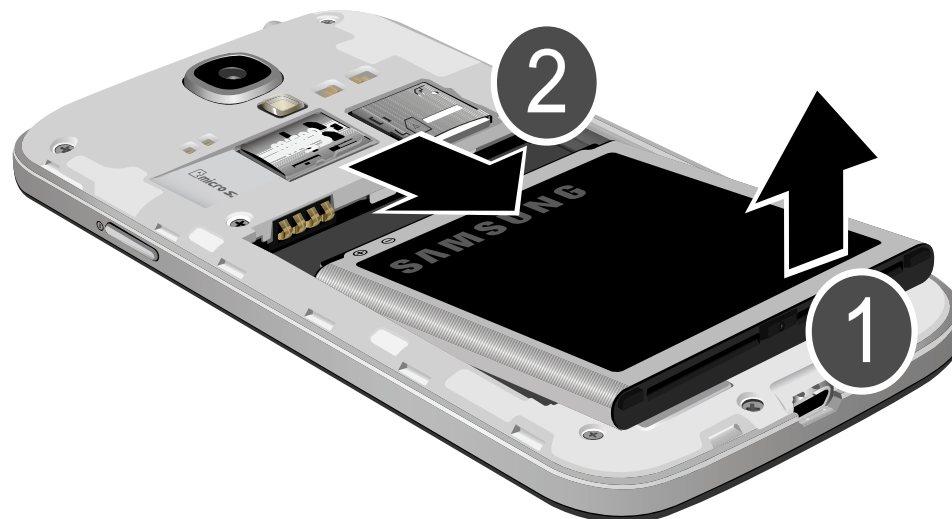
Installing the Battery

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.

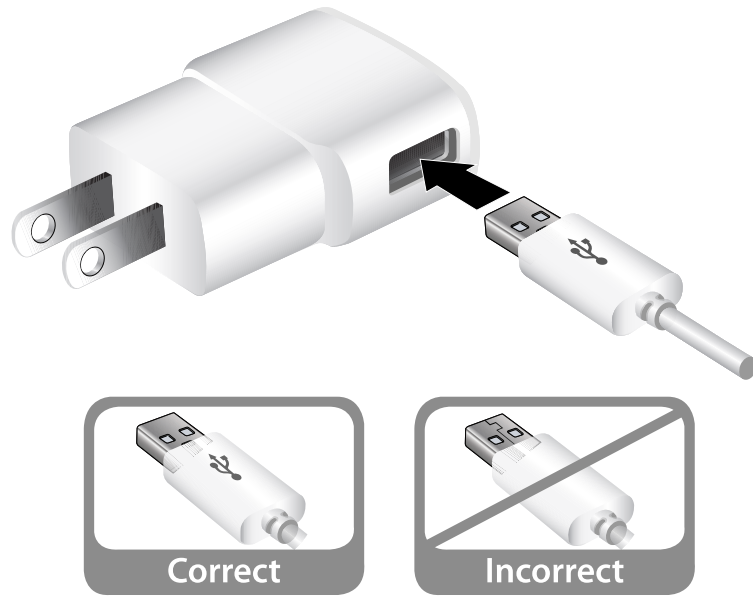
Important! It is recommended you fully charge the battery before using your device for the first time.

1. Insert the USB cable into the device's USP Power/Accessory Port at the bottom of the device.



Note: This illustration displays both the **correct** and **incorrect** orientation for connecting the USB cable. If the USB cable is incorrectly connected, damage to the USB Power/Accessory Port will occur therefore voiding the phone's warranty.

2. Connect the USB cable to the charging head.



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

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

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

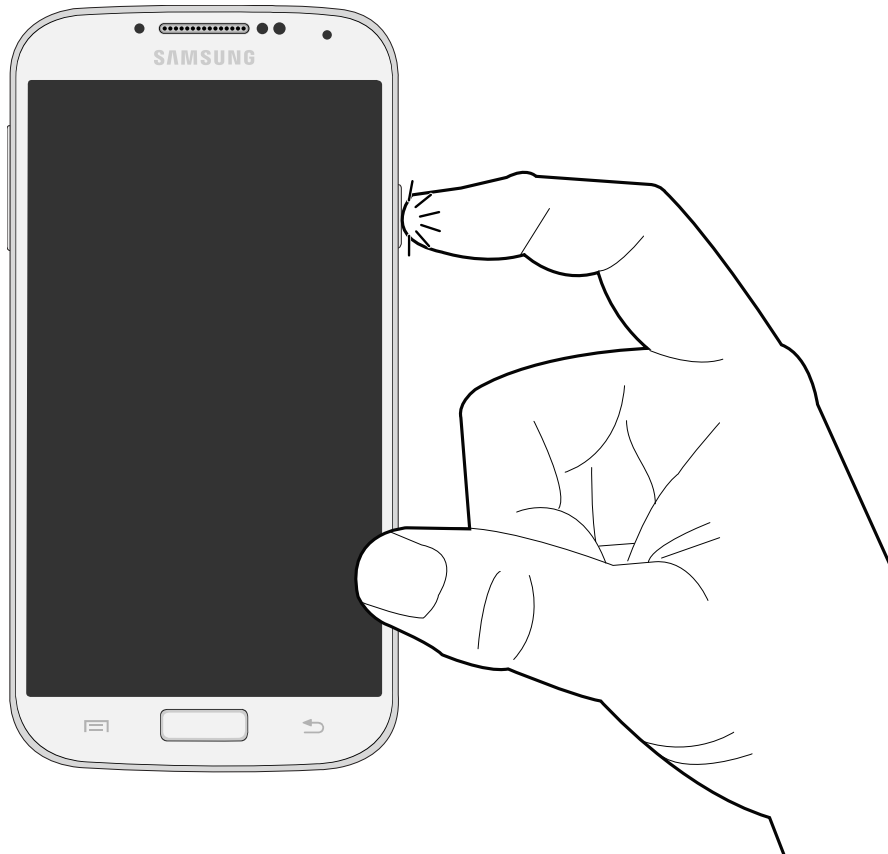
Important! If your handset has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty.

For more information, refer to “*Standard Limited Warranty*” on page 206.

Turning Your Phone on

- Press and hold the  **Power/Lock** key (on the upper right side of the phone) for three seconds.

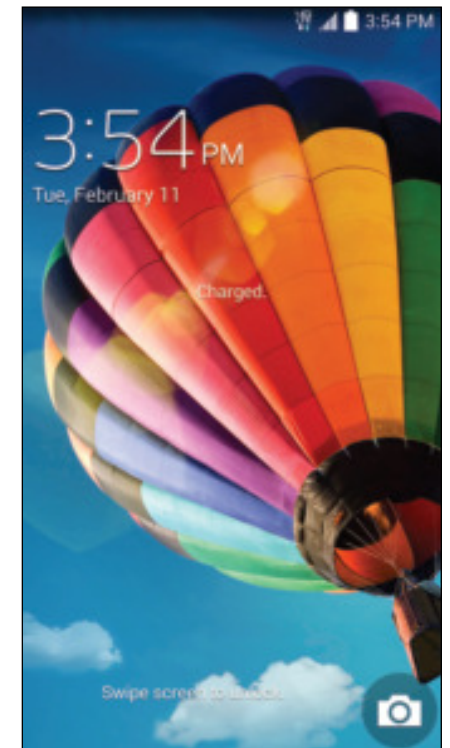
While powering on, the phone connects with the network, then displays the Locked screen and any active Notification alerts.



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.
2. If there are no Notification alerts (such as for calls or messages) on your phone, swipe across the lower half of the screen to unlock it.
The Home screen displays.



Note: If you have purchased your phone online, the first time you power your phone on and unlock the screen, the Setup Wizard displays.

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

Turning Your Phone off

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

TTY Mode

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

(For more information, refer to “*Other Call Settings*” on page 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**, then touch  **Phone**, then touch and hold .
2. Follow the automated instructions to set up your new password and record a greeting.

Checking Voicemail

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

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

Displaying Your Phone Number

1. Press  **Home**, then touch  **Menu** → **Settings** →  **More**.
2. Touch **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 Store. 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. From the Home screen, touch  **Menu** → **Settings** → .
2. Touch **Add account** → **Google**.
3. Follow the onscreen instructions to sign in if you already have a Google Account, or to create a new Google Account.

Creating a Samsung Account

An active Samsung account is required to use applications such as Group Play, Samsung Hub, and WatchON.

1. From the Home screen, touch  **Menu** → **Settings** → .
2. Touch **Add account** → **Samsung account**.
3. Follow the on-screen instructions to sign in if you already have a Samsung Account, or to create a new Samsung 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 screen.

Tip: You can set your phone's roaming behavior. (For more information, refer to “*Mobile Networks*” on page 144.)

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 147.

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

Locking the Phone Manually

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

Unlocking the Phone

For information on unlocking your phone, see “*Unlocking Your Phone*” on page 16.

Section 2: Understanding Your Phone

Features

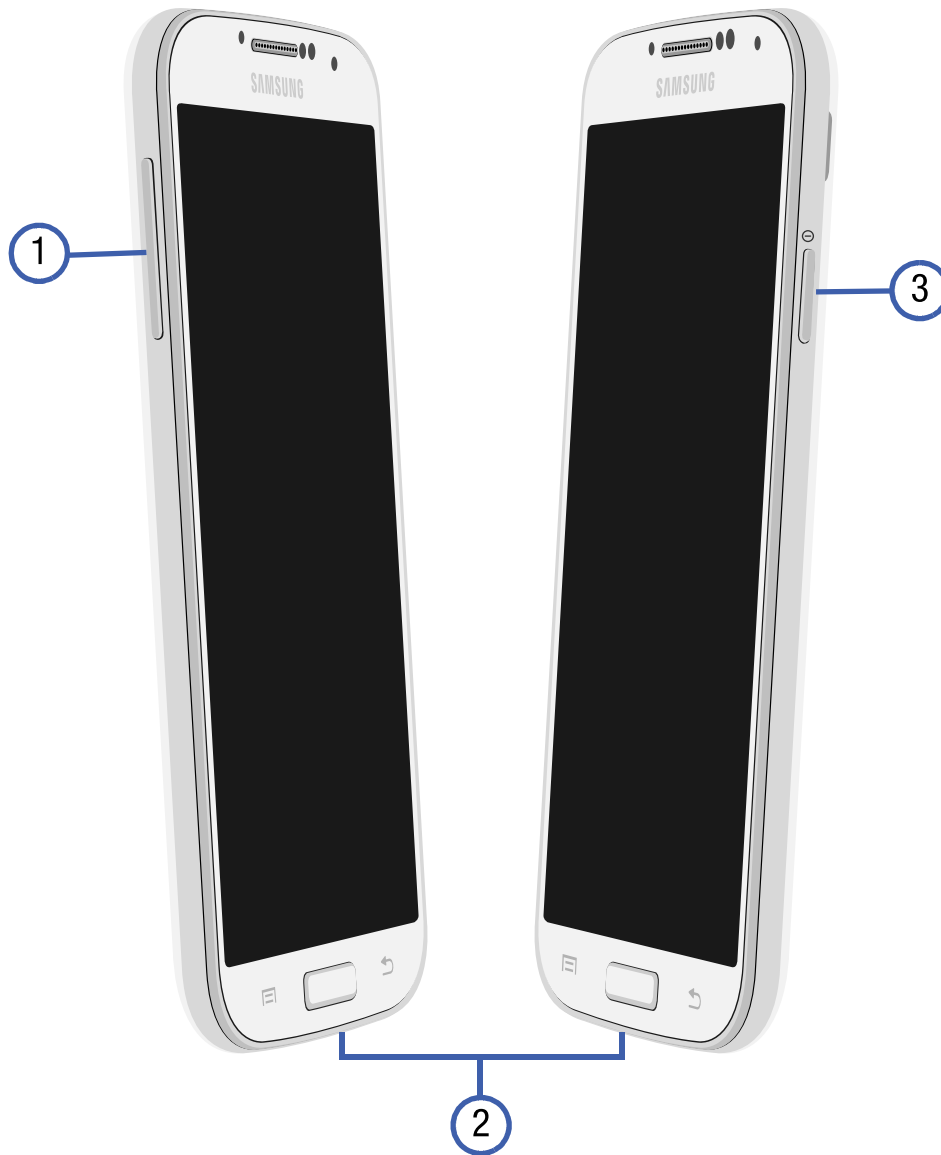
- 5.0-inch 1920x1080 Super AMOLED Full HD touch screen
- CDMA 1X/EV-DO Rev-A /LTE Wireless Technology
- 1.9 gigahertz quad-core processor
- Android® 4.4 platform
- Google Play™ Store, plus pre-loaded applications
- SAFE™ Certified
- Galaxy Gear™ compliant. For a list of compatible smart phones, please visit samsung.com/us/galaxygearsupport.
- Smart Switch™ compliant. For more information, visit samsungsmartswitch.com.
- Support for Air View® and Air Gestures®.
- Connections:
 - Wi-Fi 802.11 a/b/g/n (2.4 GHz band or 5 GHz band)
 - Tethering (USB and Bluetooth)
 - NFC
 - S Beam
 - AllShare Cast
 - USB 2.0
 - Portable Wi-Fi Hotspot
 - Bluetooth 4.0
 - VPN
 - Android Beam
 - Wi-Fi Direct
 - DLNA
- WatchON®—Rich TV experience with Infrared (IR) remote
- Samsung Link™ to share your media content across connected devices. Cloud connectivity is enabled by using 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 + 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



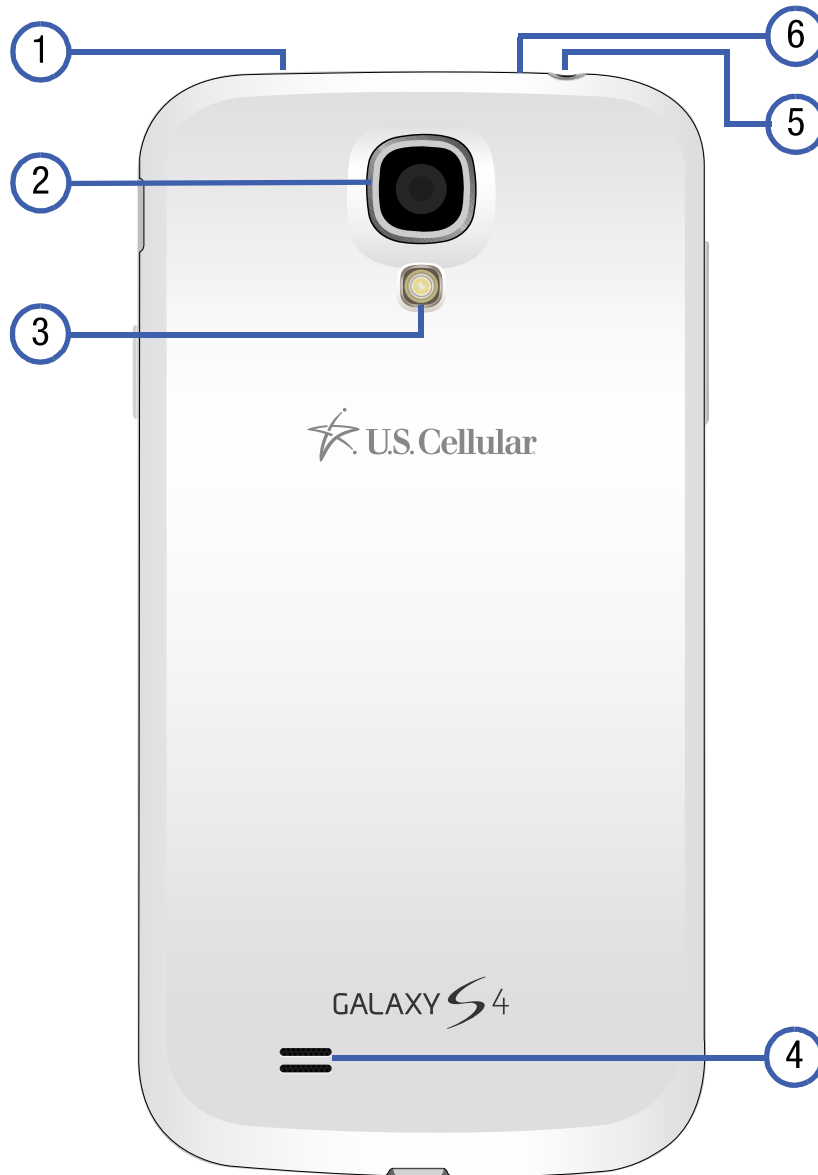
1. **Earpiece:** Use during calls to listen to callers.
2. **LED Indicator:** Flashes or glows to alert you to alert notifications or phone status.
3. **Menu Key:** Press to show options for the current screen.
4. **Home Key:** Press to display the Home screen, or Lock screen if the phone is locked. Press and hold to display recent applications, or to launch the Task Manager or Google Now.
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 151), 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 Lens:** 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 cancelation 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 onscreen Internet search engine powered by Google.

1. From the main Home screen, touch the Google Search bar .
2. Use the onscreen keypad to enter the item you want to search for, then touch .
3. Touch  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 206.)

Context-Sensitive Menus

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

To access context-sensitive menus:

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

Command Keys

Menu Key

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

Home Key

- Press the  **Home** key to display the Home screen.
- Press and hold the  **Home** key to launch a menu of recently used features and applications, and to access the following options:

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

Touch and Hold

Activate onscreen 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.

Swipe and Palm Swipe

To swipe, lightly drag your finger vertically or horizontally across the screen. Use swipe when:

- Unlocking the screen
- Scrolling through the Home screen or a menu

To palm swipe, swipe the side of your hand horizontally across the screen. Use palm swipe when:

- Capturing the screen

Motions and Gestures

Your phone recognizes motion, gestures over its surface, or motions on its surface, to let you navigate and access features by moving the phone in specific patterns.

To use hand and phone motions and gestures to control your phone, turn the respective settings on. (For more information, see *“Motions and Gestures”* on page 169.)

Note: Finger motions are always active.

Air Gestures

Air gestures (you make them an inch or so above the display, and near the top of the phone) can control the following functions:

- **Quick glance:** With the display off, reach your hand toward the top of your phone’s display to view selected information, such as Time and date, Notification icons, Missed calls, Unread messages, Battery power, or Current music info.
- **Air jump:** Scroll web pages or email message lists by moving your hand up or down above the display.

- **Air browse:** Go to the previous or next by your hand to the right or left above the display.
- **Air move:** Move app shortcuts to different home screen panels or apps lists, or move Calendar events to different pages. Just touch and hold the app shortcut or Calendar event with one hand, then move your other hand left or right above the display.
- **Air call-accept:** Accept incoming calls by waving your hand above the display. You can have your phone answer accepted calls in speakerphone mode by enabling **Auto start speakerphone**.

Tip: Air gesture is set to off by default. (For information about setting this feature to on, see *“Motions and Gestures”* on page 169.)

Phone Motions

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 (in an arc side-to-side or up and down) while viewing an enlarged (zoomed in) image moves your viewpoint 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 alert sounds.

Palm Motions

Use your hand to swipe across 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.

Finger Motions

Touch

Touch items to select or launch them.

For example:

- Touch the onscreen keyboard to enter characters or text.
- Touch an item to select it.
- Touch an app's icon to launch the application.
- **Double touch to top:** When this option is set to on, a double touch on the top of the phone takes you to the top of a list.

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.

Multi Window

When enabled and activated, the Multi window feature lets you run two applications on the current screen at the same time.

Note: Only applications found within the Multi window tray can be active along with another, currently running application on the screen.

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



Enabling Multi Window

1. From the Home screen, touch  **Menu** → **Settings** →  → **Display**. The **Display** settings menu displays.
2. Under **General**, touch **Multi window**.
 - A check mark displays in the check box on the **Multi window** option to indicate that it is enabled.
 - The Multi window tray displays on the left side of the screen (by default) for a few seconds, then closes leaving the Multi window tab showing.

Activating and Deactivating Multi Window

To activate Multi window:

1. If the Multi window tab  is not showing on the current screen, 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. Touch the tab  to open the Multi window tray, showing some of the available Multi window apps.
3. Swipe the tray upwards to show more Multi window apps.

To deactivate Multi window:

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

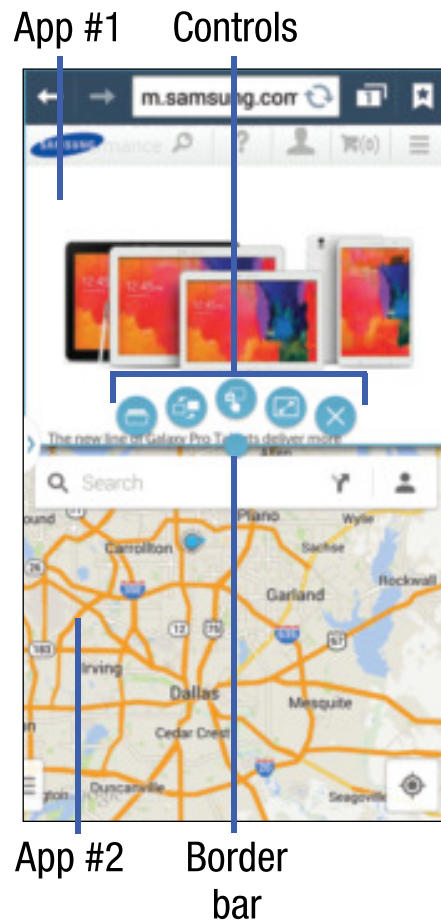
Using Multi Window to Run Multiple Apps on the Same Screen

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

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

1. Launch an application, such as Internet.
 - From the Home screen, touch  **Internet**.
2. Activate the Multi window feature.
3. Touch the Multi window tab to display the apps tray.
4. Touch and hold the desired app, such as  **Maps**, until it detaches from the tray.
5. In a single motion, drag the app over the current app and drop the new Multi window app over either the top or bottom area of the current onscreen app.

Multi Window Controls



To increase the size of an application window:

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

To open a recent application in Multi window:

You can open recent applications in Multi window (the application must be Multi window-compatible).

- Touch the  **Border bar**, and then touch  **Recent apps** to replace the current Multi window application. Swipe down to scroll through recent applications, and then double-tap to open.

To swap the locations of the applications:

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

To drag content from one application to the other:

In selected apps, you can drag text or images between apps.

- Touch the  **Border bar**, and then touch  **Swap apps** to select content and drag it to the other application.

To separate the current applications:

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

To close an application:

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

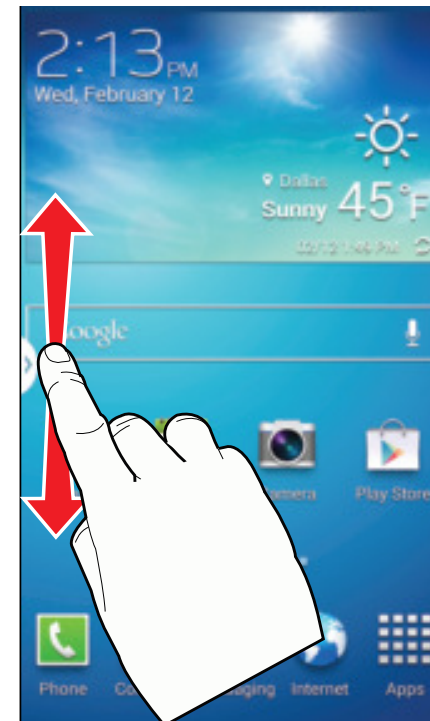
Repositioning the Multi Window

The Multi window contains two components: tab and apps tray. The tab can be manually moved across the screen. The apps tray (containing the scrollable apps) can be relocated to launch from the left or right side of the screen.

To move the tab:

1. Activate the Multi window feature. See “*To activate Multi window:*” on page 29.
2. Touch and hold the tab  for approximately one-second, then slowly drag it to its new location along the edge of the screen.

Note: This is a quick way to get the tab out of the way if you can't get to a button or option behind it.



To relocate the Multi window tray:

1. Activate the Multi window feature. See *“To activate Multi window:”* on page 29.
2. Touch the tab to display the apps tray.
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 the opposite screen edge (2).



Customizing the Multi Window Tray

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

To rearrange the Multi window applications:

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

To remove a Multi window application:

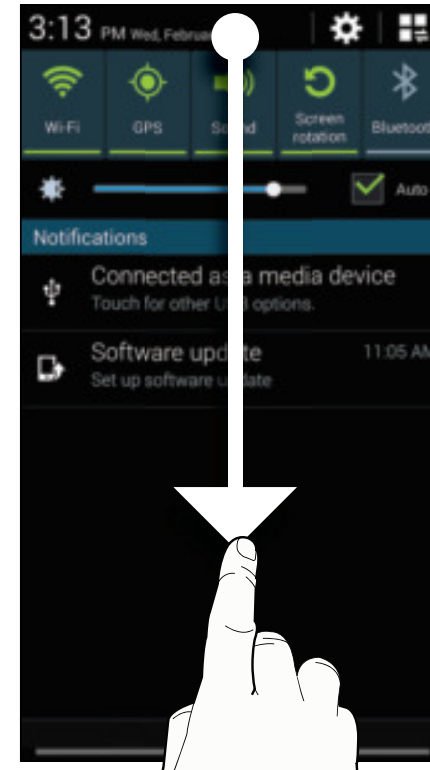
1. Activate the Multi window feature.
2. Touch the tab to display the Multi window tray.
3. Touch  **Panel options** (located at the bottom of the list).
4. Follow the prompt to remove apps from the Multi window tray to the revealed staging area.
5. Touch **Done** once you have completed the removal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

To restore a Multi window application:

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

Notifications Shade

The Notifications shade shows information about connections, alerts, applications, and other items.



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

Quick Settings Menu

Use Quick Settings toggles at the top of Notifications to control popular settings. Slide your finger right and left across the Quick Settings menu to see all of the toggles.

- **Wi-Fi:** Enable Wi-Fi. (See “*Wi-Fi*” on page 124.)
- **GPS:** Enable standalone GPS services. (See “*Location*” on page 173.)
- **Sound:** Switch between your sound settings, Vibrate, and Mute. (See “*Volume*” on page 153.)
- **Screen rotation:** Enable auto-rotation of your screen when you rotate your device. (See “*Auto-Rotate Screen*” on page 151.)
- **Bluetooth:** Enable Bluetooth. (See “*Bluetooth*” on page 127.)
- **Reading mode:** Automatically adjust display settings for selected apps. (See “*Reading Mode*” on page 150.)
- **Mobile data:** Enable access to mobile data. (See “*Mobile Networks*” on page 144.)
- **Blocking mode:** Enable Blocking mode setting to control which notifications you receive. (See “*Blocking Mode*” on page 157.)
- **Power saving:** Conserve battery usage. (See “*Power Saving Mode*” on page 159.)
- **Multi window:** Enable Multi window mode. (See “*Multi Window*” on page 28.)
- **Screen Mirroring:** Share your display with other devices. (See “*Screen Mirroring*” on page 137.)
- **S Beam:** Share files with other S Beam-compatible devices. (See “*S Beam*” on page 135.)
- **NFC:** Share files with other NFC-compatible devices. (See “*NFC*” on page 134.)
- **Air View:** Preview the contents or view information in pop-up windows by holding your finger above the screen. (See “*Air View*” on page 171.)
- **Air gesture:** Control various phone functions by moving your finger above the screen. (See “*Air Gestures*” on page 26.)
- **Hands-free mode:** Incoming calls and notifications will be read out automatically. (See “*Hands-Free Mode*” on page 158.)
- **Smart stay:** Prevent screen time out, if you are using the phone. (See “*Smart Screen*” on page 170.)

- **Smart pause:** Share files with other NFC-compatible devices. (See “*Smart pause*” on page 170.)
- **Smart scroll:** Share files with other NFC-compatible devices. (See “*Smart scroll*” on page 170.)
- **Sync:** Allow mobile data networks to update your accounts. (See “*Controlling Synchronization*” on page 51.)
- **Airplane mode:** Disable all network connections. (See “*Airplane Mode*” on page 144.)

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.



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.
2. **Multi window tab:** Access Multi window tray. See “*Multi Window*” on page 28.
3. **Primary Shortcuts:** Shortcuts to your phone’s common apps. For more information, see “*Primary Shortcuts*” on page 39.
4. **Panel Indicator:** Shows which Home screen panel is currently displayed.
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. For more information, see “*Shortcuts*” on page 39.
6. **Widgets:** Apps that run on the Home screen. These widgets are found on the Home screen by default. For more information, see “*Widgets*” on page 40.

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 144.



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*” on page 173.



No SIM: No LTE SIM is installed.



Smart stay Active: Smart stay setting is on. The screen stays lighted while you look at it.



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.



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



New Message: You have new message(s).



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



New Email Message: You have new email.



Silent mode: All sounds except media and alarms are silenced, and Vibrate is not active. See “*Volume*” on page 153.



Vibrate: All sounds are silenced, and Vibrate is active. See “*Vibrations*” on page 154.



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 Connected: Your device is connected with another Bluetooth device.



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



Wi-Fi Action Needed: Action needed to connect to Wi-Fi network. See “*Wi-Fi*” on page 124.



TTY: TTY Mode is active. For more information, refer to “*Other Call Settings*” on page 74.



Blocking mode on: Notifications, alarm, timer, LED indicator, and all calls may be blocked. For more information, refer to “*Blocking Mode*” on page 157.

Display Settings

You can customize display settings to your preferences. For more information, see “*Display*” on page 149.

Extended Home Screen

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

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

Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add Shortcuts:** See “*Shortcuts*” on page 39.
- **Add Widgets:** See “*Widgets*” on page 40.
- **Add Folders:** See “*Folders*” on page 40.
- **Change the Wallpaper:** See “*Wallpaper*” on page 41.

Adding and Removing Home Screen Panels

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

1. From the Home screen, touch  **Menu**, 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 default total of six.



Default Home Screen: Touch to set this panel as the default Home Screen.

3. To change the order in which 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 or remove shortcuts:

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

To remove shortcuts:

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

Shortcuts

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

Adding Shortcuts to the Home Screen

Adding shortcuts from the Home screen

1. Press the  **Home** key, then touch and hold on the screen to display the **Add to Home screen** menu.

2. Touch **Apps and widgets** → **Apps** tab, then touch a selection.
3. Follow the prompts to configure the shortcut and add it to 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, then touch and hold on the screen to display the **Home screen** menu.
2. Touch **Add to Home screen**, then select **Apps and widgets**.
3. Touch the **Widgets** tab, then touch a widget and follow the prompts to configure the widget and place it on the Home screen.

Adding Widgets from Apps

1. Press the  **Home** key, and swipe to a Home screen panel.
2. Touch  **Apps**, then touch the **Widgets** tab.
3. Touch a widget, then follow the prompts to configure the widget and place it 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 select **Add to Home screen → Folder**.
– or –
Touch  **Menu → Create folder**.
3. The folder displays on the Home screen. Touch the folder to name it.

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** (Home screen only): Choose from pre-loaded animated wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.

- **Travel wallpaper** (Lock screen only): A pop-up describes Travel wallpaper as a slideshow of pictures from recommended travel destinations. Warns of possible data network charges. Touch **OK**. The **Travel wallpaper** screen displays. Touch **Slideshow interval** to select the time interval between downloads.
- **Wallpaper**: Choose from pre-loaded wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.

Note: You can also set Wallpaper in **Settings**. For more information, see “*Wallpaper*” on page 149.

Apps

Apps lists shortcuts for 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**.

Like the Home screen, the **Apps** screen consists of panels that extend beyond the display width to provide more space. Swipe your finger horizontally across the screen to scroll to the additional Apps panels. As you scroll, an indicator at the bottom of the screen shows your current position.

For more information about applications, see “*Applications and Widgets*” on page 84.

You can place shortcuts to apps on the Home screen, for quick access to the apps. For more information, refer to “*Adding shortcuts from the Home screen*” on page 39.

1. Press the  **Home** key, then touch  **Apps**.
2. Swipe 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, 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, 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 panel 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 177.)
 - Drag it to  (if available) to remove the icon. The trash can is only available for apps you’ve installed. Pre-loaded apps cannot be removed.

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:** Select apps you’ve downloaded (not available for pre-loaded apps) to share via Dropbox, Bluetooth, ChatON, Email, Flipboard, Gmail, Google, Google+, Messaging, S Memo, or Wi-Fi Direct.
- **Hide applications/Show hidden applications:** Control whether app icons are visible in Apps. Hiding an icon does not remove the app from your phone.

Entering Text

This section describes how to enter words, letters, punctuation, and numbers when you need to enter text.

Keyboards and Input Methods

There are three text input methods available:

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

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

Changing the Input Method

1. From a screen where you can enter text, touch the Status bar and drag down to display the Notifications shade.
2. Under **Ongoing**, touch  **Select input method**.
3. Touch **Google voice typing**, **Samsung keyboard**, or **Swype**.

Using the Google Voice Typing Feature

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

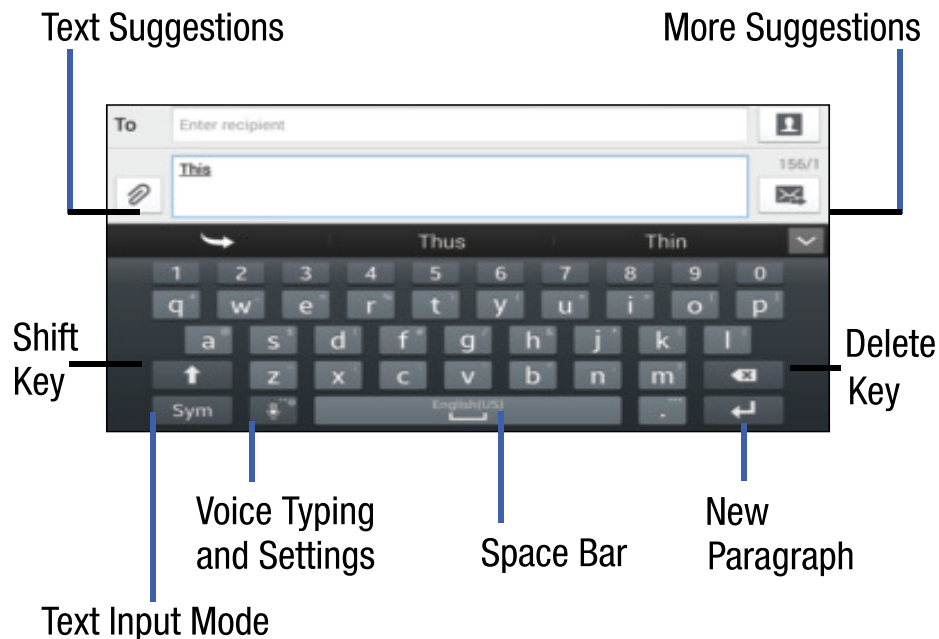
Note: This feature works best when you break up your message into short segments.

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 onscreen QWERTY keypad will display.



Changing the Text Input Mode—Keypad

There are two main keypad layout keys that will change the onscreen keys within the QWERTY keypad.

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



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

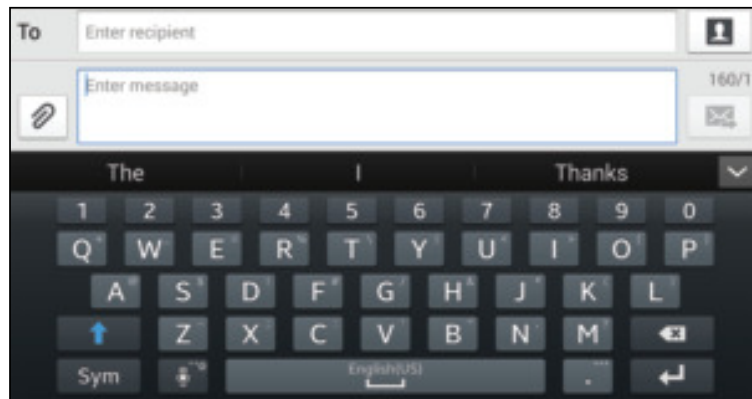


Abc Mode: Activates the default alphabet keys. Can also be set to **Abc** or **abc** by using the shift () key.

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 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 () will change to  and additional letters will be lower case.

4. Touch  to input another upper-case letter or touch  twice to switch to ABC mode. The shift key will change to  in ABC mode. Additional letters will be uppercase until you touch the Shift key again.

Using Symbol/Numeric Mode

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

1. If desired, rotate your phone to a Landscape orientation.
2. Touch . The following keyboard displays:



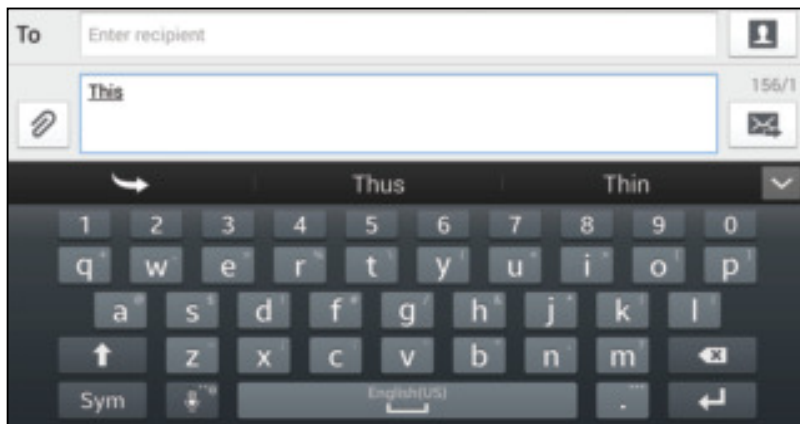
3. Touch the desired number, symbol, or emoticon characters.
4. To access additional symbols, touch .
5. To return to **Abc** mode, touch .

Predictive Text

Predictive Text supplies next-letter prediction(s) and regional error correction(s), which can compensate for pressing the wrong keys on the QWERTY keyboard. Predictive text is turned on by default.

To turn Predictive Text on:

1. Touch and hold  on the keyboard, then touch . The **Samsung keyboard settings** screen displays.
2. Touch the **Predictive text** slider  to **on**.
3. In the text portion of the message screen, begin typing a word. A list of word options is displayed.
4. To replace the word that has already been typed, touch one of the words.



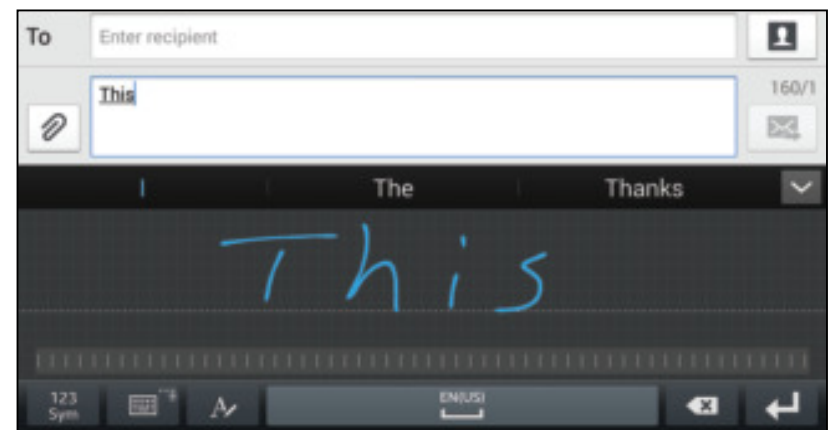
5. Continue typing your message.

6. Touch  to send the message or press  for more options. For more information, refer to “*Creating and Sending Messages*” on page 75.

Entering Text Using Handwriting

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

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



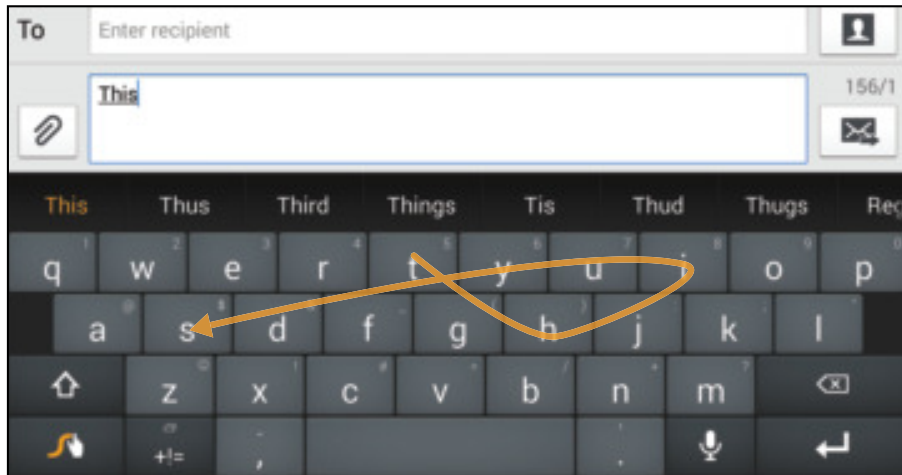
Samsung Keyboard Settings

For information on how you can configure your Samsung keyboard settings, see “*Samsung Keyboard Settings*” on page 164.

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

From the **Swype settings** screen, you can access **How to Swype** tutorials 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-touch on the word you want to change to correct a misspelled word, then touch 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 and drag  down from the Notifications area then touch **Select input method**.
2. 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 “*Keyboards and Input Methods*” on page 163.

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.

Accessing Your Accounts

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

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 **Accounts** menu, under **My accounts**, touch **Add account**.
2. Select an account type, then follow the prompts to enter your credentials and sign in.
3. 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 **Accounts** menu, under **My accounts**, touch the desired account type. The related account type screen displays.
2. 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 Email
 - Sync Gmail
 - Sync Google Photos
 - Sync Google Play Books
 - Sync Google Play Magazines

- Sync Google Play Movies & TV
- Sync Google Play Music
- Sync Internet bookmarks
- Sync Internet opened pages
- Sync Memo
- Sync People details
- Sync Picasa Web Albums
- Sync Tasks

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

Tip: You can control automatic synchronization using the **Sync** toggle in the Quick Settings menu on the Notifications screen. For more information, refer to “*Quick Settings Menu*” on page 34.

Managing Accounts

1. From the **Accounts** menu, under **My accounts**, touch the desired account type. The related account type screen displays.
2. 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 51.
3. To enable or disable a synchronization setting, touch it.
4. To invoke the enabled synchronization settings for the selected account, touch **Sync now**.
5. To remove the selected account from your phone, touch **Remove account**. A **Delete account?** pop-up prompts you to confirm the removal.
To remove the selected account, touch **Remove account**.

Contacts

To access Contacts:

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

Contact tips:

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

Adding Contacts

1. From the **Contacts** screen, touch  **Add contact**.
 - If you have defined accounts (Google, Samsung, etc.), 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 50.

2. Touch contact fields to select or enter information:

- Touch  **Add photo ID** to choose a picture to identify the contact.
- Touch the **Name** field and use the on-screen keyboard to enter the full name. Touch  beside the **Name** field to display additional fields.
- Touch the **Phone** number field, and then enter the phone number. Touch  to add another Phone number. Touch , and then choose a label for the number.
- Touch the **Email address** field, and then enter an email address. Touch  to add another Email address. Touch , and then choose a label for the address.
- Touch **Groups** to assign the contact to a group.
- Touch **Ringtone** to choose a ringtone to play for calls from the contact.
- 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** to add new fields for the contact.

3. When you finish selecting and entering information, touch **Save**.

Creating Contacts from Recent Calls

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

For more information, refer to “*Creating or Updating Contacts Using Recent Calls*” on page 64.

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.

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

Updating Contacts

Make changes to update an existing contact.

1. From the **Contacts** screen, touch a contact to view its information, then touch  **Edit**.

– or –

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

2. Continue entering/changing contact information.

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.

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 64.

Choosing Contacts to Display

- From the **Contacts** screen, touch  **Menu** → **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 display only selected contact types for each account, or the phone.
To select the contacts to be listed, touch , then select one or more contact Groups, All other contacts stored on your **Device** and/or one or more accounts.

Contacts Settings

- From the **Contacts** screen, touch  **Menu** → **Settings**:
 - Select **Only contacts with phones** to show contacts with at least one stored phone number.
 - Touch **List by** to sort contacts by first or last name.
 - Touch **Display contacts by** to list contacts by first or last name.
 - Touch **Contact sharing settings** to set your preference for sending contacts namecards to other accounts or devices. For more information about sending contacts, see “*Sending Namecards*” on page 58.

Other Contacts Options

- From the **Contacts** screen, touch  **Menu**. The following options are available:
 - **History**: View calls and messages to and from this contact.
 - **Edit**: Modify contact information. (For more information, refer to “*Updating Contacts*” on page 54.)
 - **Delete**: Erase the contact record.

- **Link contact/Separate contact**: Manage multiple contacts as one. For more information, refer to “*Linking Contacts*” on page 56.
- **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 58.
- **Add to reject list**: Mark the contact so that calls or messages from the contact are rejected automatically. To remove a contact from the reject list, touch and hold on the contact in the main contacts screen, then choose **Delete from reject list**.
- **Print contact info**: Print the namecard via Bluetooth to a compatible Samsung Bluetooth-enabled printer.
- **Place to home screen**: 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.

Creating My Local Profile

1. From the **Contacts** screen, under **ME**, touch:
 - Your name entry, then touch  **Edit**.
 - **Set up profile**.

The **My local profile** screen displays.

2. Change/enter the name for your profile.
3. If you want, touch **Add another field** and enter your information in the contact fields.

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 **Contacts** screen, touch your profile to display your contact information.
2. Touch  **Menu** → **Share namecard via**.
3. 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 **Contacts** screen, touch a contact to display its information.
2. Touch  **Menu** → **Link contact**. A list of available contacts displays.
3. Select a contact to link to the displayed contact. The linked contact displays.

4. To link another contact, touch the **Connection** field. The Linked contact screen displays.
 - Touch **Link another contact**. A list of available contacts displays.
 - Select a contact to link to the displayed contact. The linked contact displays.

Separating Contacts

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

Exporting and Importing Contacts

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

1. From the **Contacts** screen, touch  **Menu** → **Import/Export**.
2. Select an option, then follow the prompts to complete the operation:
 - **Import from USB storage**: Copy contacts that are saved in mass storage on your device.
 - **Export to USB storage**: Copy contacts to mass storage on your device.
 - **Import from SD card**: Copy contacts that are saved on an installed memory card.
 - **Export to SD card**: Copy contacts to an installed memory card.
 - **Share namecard via**: Share contacts as Namecards.

Sending Namecards

You can send a contact entry as a namecard using Bluetooth, as an attachment to a Gmail or Email message, or other file sharing methods.

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 **Contacts** screen, touch  **Menu** → **Import/Export** → **Share namecard via**.
2. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark displays in the check box for marked contacts.
3. Touch **Done**.
4. Choose a sending method or app 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

- From the **Contacts** screen, touch and hold on a contact, then select **Add to favorites** from the pop-up menu.
— or —
Touch a contact to display it, then touch  at the top right of the screen, it changes color to .

Groups

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

Adding a New Group

1. From the **Contacts** screen, touch  **Groups** →  **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 a ringtone 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.
2. Touch **Save** to save the new group.

Editing a Group

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

Deleting a Group

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

1. From the **Contacts** screen, touch  **Groups** →  **Menu** → **Delete groups**.
2. Touch a Group to mark it for deletion, or touch **Select all** to mark all groups. (You cannot delete pre-loaded groups.)
3. Touch **Delete**, then choose **Group only** or **Group and group members**.

Adding Contacts to a Group

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

Removing Contacts from a Group

1. From the **Contacts** screen, touch  **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.
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 **Contacts** screen, touch  **Groups**.
2. Touch and hold a Group, then touch **Send message** or **Send email**.
3. Touch contacts to mark them as recipients for the new message, then touch **Done**.
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 81.

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 62.

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

Assigning Speed Dials

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

Reassigning or Removing a Speed Dial

1. From the **Contacts** screen, touch  **Menu** → **Speed dial setting**. A list of speed dials displays.
2. 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 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 61.

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

Making Calls from Contacts

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

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

1. From the Home screen, touch  **Contacts**.
2. Swipe your finger from left to right across the contact to dial their default number.

— or —

Touch the contact or its photo ID, then touch  to dial the desired number.

Making Calls Using S Voice

Place a call by speaking the name or number.

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

Making Calls Using Favorites

Favorites are contacts that you designate as favorites by starring them. For more information about creating favorites, see “*Favorites*” on page 58.

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

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 the entry, and then touch  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 the picture ID icon, 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.

Managing Recent Calls

Deleting Records

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

Filtering Records

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

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 touch a predefined rejection message or touch **Create new message** to create a new custom outgoing response.

Tip: 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 169.
2. At the incoming call screen, wave your hand over the screen to accept the incoming call.

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.

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.

Rejecting a Call

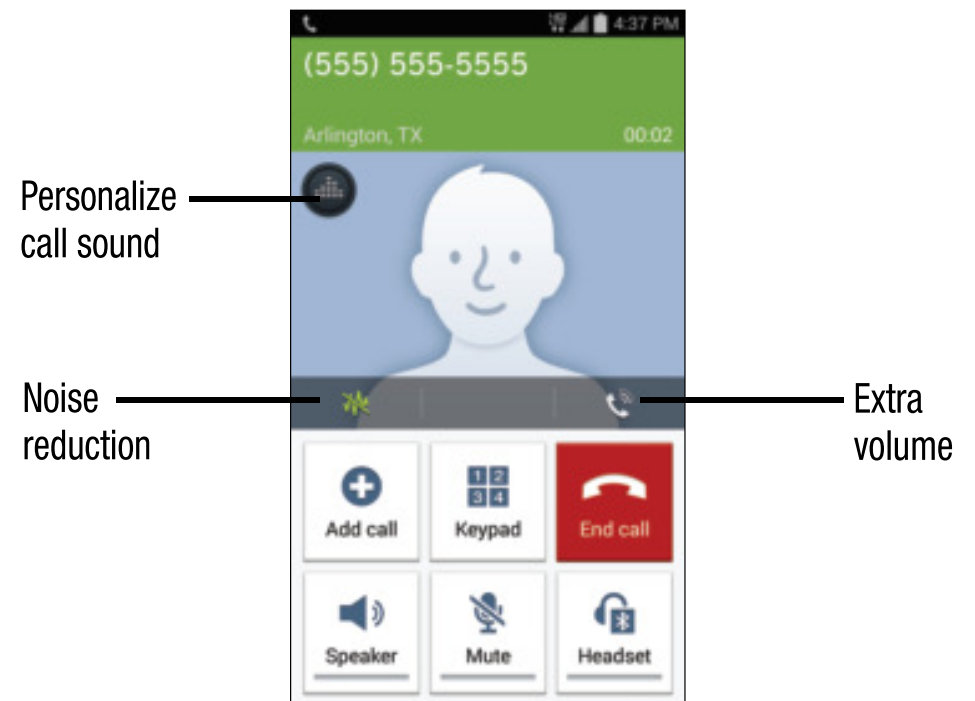
- Touch and drag the  **Reject** icon to the left.

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**.

Note: For more information about creating reject messages, see “*Set Up Call Rejection Messages*” on page 71.

Options During a Call



While in a call, you can use these features:

- **Personalize call sound:** Apply a sound equalizer to the call audio, in cases where you might need the sound softer or clear, or optimized for your right or left ear.
- **Noise reduction on/Noise reduction off:** Enable or disable noise reduction, to improve call audio quality in noisy environments.

- **Extra volume:** Enable or disable increased volume in the earpiece. Compensates for low sound from the other caller.
- **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 additional 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.

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  **Phone**.
2. Press  **Menu** and then touch **Call settings → Call rejection**.
3. Touch 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. Locate an entry and touch it to open the Contact Overview Screen.
3. Press  **Menu** and touch **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. Touch  **Menu** → **Call duration**.

International Calls

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

3. Press  **Menu** and then touch **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. Touch .

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 touching **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  **Phone** and then touch the **Keypad** tab.
2. Use the keypad to enter the phone number.

3. Press  **Menu** and then touch **Add wait**. This feature causes the phone to require your acceptance before sending the next set of entered digits.
4. Touch .
5. Once prompted to **Send the following tones?**, touch **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 .

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 a call to redial.
– or –
Touch a entry to display it, and then touch .

Call Settings

Configure settings for calling with your phone.

- To access Call settings, from the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.

Call Rejection

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

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

Set Up Call Rejection Messages

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

1. From the **Call Settings** screen, touch **Set up call rejection messages**.
2. Touch **Create** then follow the prompts.

Answering/Ending Calls

Manage settings for answering and ending calls.

- From the **Call Settings** screen, touch **Answering/ending calls**. The following options are available:
 - **The home key answers calls**: When enabled, you can answer an incoming call by pressing  **Home**.
 - **Voice control**: When enabled, you can answer calls using the S Voice wake-up command.
 - **The power key ends calls**: When enabled, pressing  **Power/Lock** ends a call.

Turn off Screen During Calls

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

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

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

Call Alerts

Set options for sounds and vibrations to occur during calls.

- From the **Call Settings** screen, touch **Call alerts**. The following options are available:
 - **Call vibrations**: Enable **Vibrate on connection to network** to have your phone vibrate when it connects to the network. Enable on **Call-end vibration** to have the phone vibrate when the other caller ends the call.

- **Call status tones:** Choose options for sounds to play during calls. Enable **Call connect tone** to have the phone play a tone when the other caller answers a call. Enable **Minute minder** to have a tone play once per minute during a call. Enable **Call end tone** to have the phone play a tone when the other caller ends the call.
- **Alerts on call:** Enable to have notifications for alarms and new messages play during phone calls. When disabled, these notifications will be muted during a call.

Call Accessories

Configure headset options for calls.

- From the **Call Settings** screen, touch **Call accessories**. The following options are available:
 - **Headset settings for incoming calls:**
 - **Automatic answering:** When enabled, and you have a headset connected to the Headset Jack, incoming calls are answered automatically after a delay, set at Automatic answering timer.
 - **Automatic answering timer:** Choose a time period to delay before automatically answering an incoming call when Automatic answering is enabled and a headset is connected to the phone.

- **Bluetooth headset settings:**
 - **Outgoing call conditions:** When the phone is paired with a Bluetooth headset, you can choose to make calls even when the phone is locked.

Ringtones and Keypad Tones

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

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Ringtones and keypad tones**. The following options are available:
 - **Ringtones:** Select the ringtone your phone plays to alert you of incoming calls.
 - **Vibrations:** Select the vibration pattern your phone uses to alert you of incoming calls.
 - **Vibrate when ringing:** Touch to enable/disable use of your selected **Vibrations**.
 - **Dialing keypad tone:** Touch to enable/disable playing of DTMF tones when you enter numbers with the phone keypad.

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.

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Personalize call sound** and select Adapt Sound, Soft sound, Clear sound, or off (sound set with the Volume key).

Noise Reduction

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

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Noise reduction** to enable or disable the option.

Increase Volume in Pocket

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

- From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Increase volume in pocket** to enable or disable the option.

Voicemail

Configure options for voicemail.

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

- **Sound:** Choose the sound to play for a voicemail notification.
- **Vibrate:** Choose an option for vibration to play for a voicemail notification.

Other Call Settings

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

Section 5: Messaging

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

Types of Messages

Your phone supports these types of messages:

- **Text messages:** Send and receive simple messages containing text to other mobile phones or email addresses (also known as SMS).
- **Multimedia messages:** Send and receive text messages with pictures, video, and/or sound to other mobile phones or email addresses (also known as MMS).
- **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).
 - **Logs:** to select a recipient from a list of recently sent messages.
3. If adding a recipient from either Logs, Contacts, or Group, touch the contact to place a check mark then touch **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.
 - **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 S Translator app.
 - **Font size**: Change the size of the message font.

5. Touch  to send the message.

6. 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:** Change the size of the message font.
 - **Settings:** Configure Messaging settings.

Message Settings

Configure settings for message storage, delivery, or alerts.

- From the Home screen, touch  **Messaging** →  **Menu** → **Settings** for options:
 - **Default messaging app:** Set an app to be 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.
- **Auto combination:** When enabled, re-assembles multi-segment messages and shows them as a single message.

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

- **Notification settings:**

- **Notifications:** When enabled, message alerts display in the Status bar.
- **Select ringtone:** Choose a sound for message alerts.
- **Vibrate:** Configure vibration for message alerts.
- **Message alert repetition:** 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, Imminent Alerts (Severe or Extreme), and AMBER Alerts (missing persons). You may choose not to receive Imminent and AMBER alerts, but Presidential Alerts cannot be disabled. All alerts are enabled by default. See “*Emergency Alerts*” on page 80.
- **Emergency notification preview:** Listen to an example of a Emergency Alert tone (and vibration, if enabled). The Emergency Alert tone plays at the same volume as your call ringtone.
- **Vibrate:** 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 (You cannot disable this alert.)
- Extreme
- Severe
- AMBER Alerts (missing person alert)

You may choose not to receive Extreme Alerts, Severe 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** →  **Menu** → **Settings** → **Emergency alerts**.
2. All alerts are enabled by default. To disable alerts, touch an alert to remove the check mark.

Email

Send and receive email using popular email services.

Configuring Email Accounts

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

Tip: For better management of Microsoft Exchange ActiveSync email accounts, configure them using the **Accounts** setting.

Configuring Your First Email Account

1. From the Home screen, touch  **Email**.
2. Touch **account@example.com** to enter your email address, then touch **Password** or touch **Next** to enter your password.
3. If prompted, touch a setup option:
 - **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.)

- **Next:** Connect to the server to set up the account automatically. Follow the prompts to complete set-up, then touch **Done**.

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

Adding More Email Accounts

For information on adding additional Email accounts, see “*My Accounts*” on page 172.

Composing and Sending Email

1. From the Home screen, touch  **Email** →  **Compose**.
2. Touch fields to enter recipients and the message Subject and 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, touch  **Email**.
2. Touch  **Refresh**.

Email Account Settings

Use Account settings to configure handling of your email.

Note: Available settings depend on the email provider.

1. From the Home screen, touch  **Email**.
2. Touch an account to view it, then touch  **Menu** → **Settings** → **General settings** for options. For more information, refer to “*My Accounts*” on page 172.

Gmail

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

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

Setting Up Your Gmail Account

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

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

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

Refreshing Your Gmail Account

Refresh your account to update messages on your phone.

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

Managing Your Gmail Account

Use menu options to manage your Gmail.

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

Composing and Sending Gmail

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

Hangouts

Previously known as Google Talk, Hangouts is an online place to meet friends and family, share photos, and host video calls. Conversation logs are automatically saved to a Chats area in your Gmail account.

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  **Apps** →  **Hangouts**.
3. Press  → **Help** for more information on using Hangouts.

ChatON

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

For more information, visit samsungchaton.com and see *“Adding an Account”* on page 50.

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

Section 6: Applications and Widgets

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

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 38.

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 39.

Accessing Applications

1. Press  **Home**, then touch  **Apps** → **Apps** tab.
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.

Downloading and Installing Apps

Find new apps to download and install on your device.

-  **Play Store:** For more information, refer to “*Play Store*” on page 114.
-  **Samsung Apps:** For more information, refer to “*Samsung Apps*” on page 116.

Customizing the Applications Screens

Choosing a View

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

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

Moving Application Icons

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

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

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

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

Amazon

Shop with Amazon.

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

Calculator

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

1. From the **Apps** screen, touch  **Calculator**.
2. To clear the calculator history, touch  **Menu** → **Clear history**.
3. To change the text size, touch  **Menu** → **Text size**. Touch Small, Medium, or Large.
4. Rotate your phone to the landscape position to display the scientific calculator.
5. To change the text size, touch  **Menu** → **Text size**.
6. To display the scientific calculator, rotate your phone to the landscape (horizontal) position.

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 40.

1. From the **Apps** screen, touch  **Calendar**.

Important! You should add an account (Facebook, Microsoft Exchange ActiveSync, or Google) prior to using the 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 these options:
- **Go to:** Display a specific date.
 - **Delete:** Delete an event.
 - **Delete memo:** Removes a memo saved to a specific calendar 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 50.
 - **Calendars:** Select calendars to display.
 - **Settings:** Customize the calendar.

Customizing the Calendar

1. From the **Apps** screen, touch  **Calendar**.
2. Touch  **Menu** → **Settings** to configure these settings:
 - **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 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, 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.

Camera

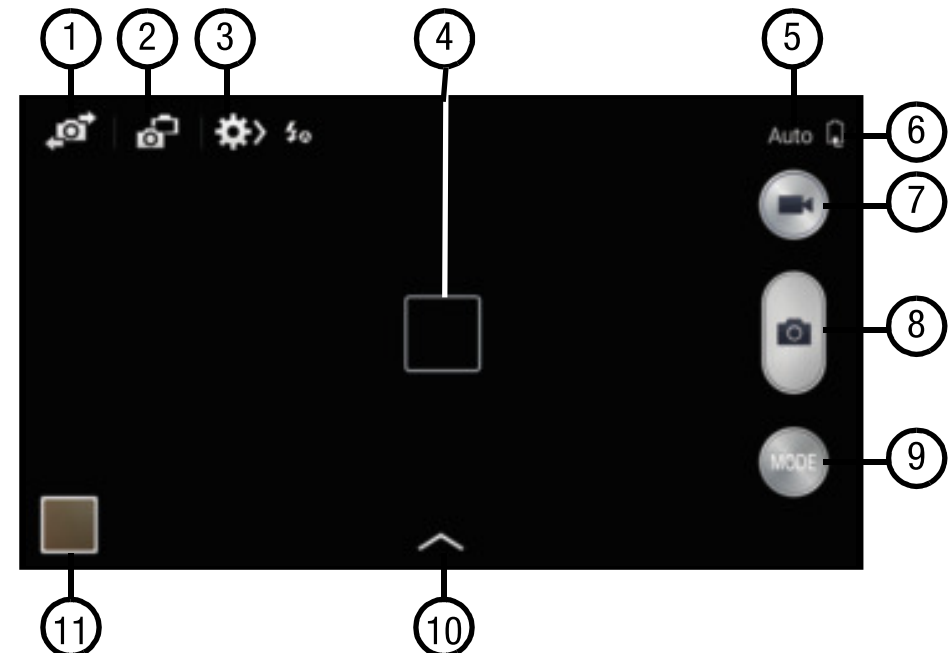
Use your 13.0 megapixel Camera feature to take photos and save them in JPEG format. Your phone also functions as a camcorder to record videos and save them in MPEG format.

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

1. From the Home screen or the **Apps** screen, touch  **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.

Launching the Camera

- From the Home screen or the **Apps** screen, touch  **Camera**. The Camera view finder screen displays.



Camera Controls

1. **Front/Rear Camera Toggle:** Touch to select either the Rear camera (default) or the Front camera.
2. **Dual Camera Mode:** Touch to combine the front and rear camera views. You can take a picture of the combined view.

3. **Quick Settings:** Touch to access Camera Settings and Options (Flash, Auto night detection, Voice Control, Video Recording Mode, and Sharing).
4. **Focal Point:** Indicates the Camera focal point. To change the focal point, touch a new point on the view finder image.
5. **Camera MODE indicator:** Indicates the current Camera Mode setting. To change the Mode setting, touch the Mode button.
6. **Battery Level Indicator:** Indicates the available battery charge when the phone is connected to a charger.
7. **Camcorder Button:** Touch to start recording a video of the subject in the view finder screen. Displays video recording controls.
8. **Take Button:** Touch to take a picture of the subject in the view finder screen.
9. **MODE Button:** Touch to review or select the camera's shooting mode (Auto, Beauty face, Best photo, Best face, Sound & shot, Drama, Animated photo, Rich tone (HDR), Eraser, Panorama, Sports, or Night).

10. **Effects Tray:** Touch to review or select the color affect applied to pictures (No effect, Vignette, Grayscale, Sepia, Vintage, Faded color, Turquoise, Tint, Cartoon, Moody, Rugged, Oil pastel, or Fisheye).
11. **Gallery:** Shows a thumbnail image of the last picture or video you have taken or recorded. Touch to view the image in Gallery (see “*Gallery*” on page 101).

Camera Options

Options are represented by icons across both sides of the screen.

1. From the Home screen or the **Apps** screen, touch  **Camera**.
2. 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, and then touch Done.
- **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 Single Camera Pictures

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

1. From the Home screen or the **Apps** screen, touch  **Camera**.
2. Using the display as a viewfinder, compose your picture by aiming the lens at the subject.
 - Touch the screen to focus on the area you touched.
 - “Pinch” the screen, or press the **Volume** key, to zoom in or out.
 - To configure settings, see “*Camera Settings*” on page 92.
3. To take the picture, touch  **Take**.

Taking Dual Camera Pictures

Using the Dual Camera feature, you can take pictures that combine the views of both the front and rear cameras.

1. From the Home screen or the **Apps** screen, touch  **Camera**.
2. From the viewfinder, touch  **Dual Camera**.

The front camera view is placed in a small picture frame and overlaid on the rear camera view.
3. Once you have the desired pictures in both views, touch  **Take** to take the combined photo.

Repositioning the front camera image

- Touch and hold the small picture frame, then drag it to the desired position.

Resizing the front camera image

- Touch and hold the small picture frame at one of its corners, then drag the corner to enlarge the image.

Reviewing Pictures

- After taking a picture, touch **Gallery** to view the it. For more information, refer to “*Gallery*” on page 101.

Picture Options

Use these view finder options to configure the camera:

-  **Self portrait:** Switch between the back camera and the front camera, for self-portraits.
-  **Dual Camera mode:** Overlaps the front camera view onto the rear camera view, creating a single image.
-  **Quick Settings:** Displays the following, configurable options:
 -  **Flash:** Choose Off, on, or Auto flash.
 -  **Auto night detection:** Displays the auto night detection setting.
 -  **Voice Commands:** Displays when Voice control is enabled.
 -  **Recording mode:** Determines the recording speed for video recording. Selections: Normal, Limit for MMS, Slow motion, and Fast motion.
 -  **Share:** Determines the Share method or mode. Selections are off, Share shot, Buddy photo share, ChatON photo share, or Remove viewfinder.

Camera Settings

Values you choose for these settings become the new default values until you change or **Reset** them.

- From the Camera viewfinder screen, touch

 **Quick settings** →  **Settings.**

Camera tab

- **Photo size:** Choose a size (in pixels) for the image.
- **Burst shot:** Detects action to automatically take multiple pictures to create a panorama.
- **Face detection:** Detects a face with eyes open to automatically take a picture.
- **Metering:** Select a method for measuring light.
- **ISO:** Choose a setting for imaging sensitivity.
- **Anti-Shake:** Choose on to minimize the effect of camera movement.
- **Auto night detection:** Choose on to automatically enable Night Shot exposure according to available light.
- **Save as:** Delivers images with greater intensity which is effective for reducing overexposure in bright conditions.

Camcorder tab

- **Video size:** Choose 1920x1080 (16:9), 1440x1080 (4:3), 1280x720 (16:9), or 320x240 (4:3).
- **Video stabilization:** Choose on to minimize the effect of camera movement.

Common Settings tab

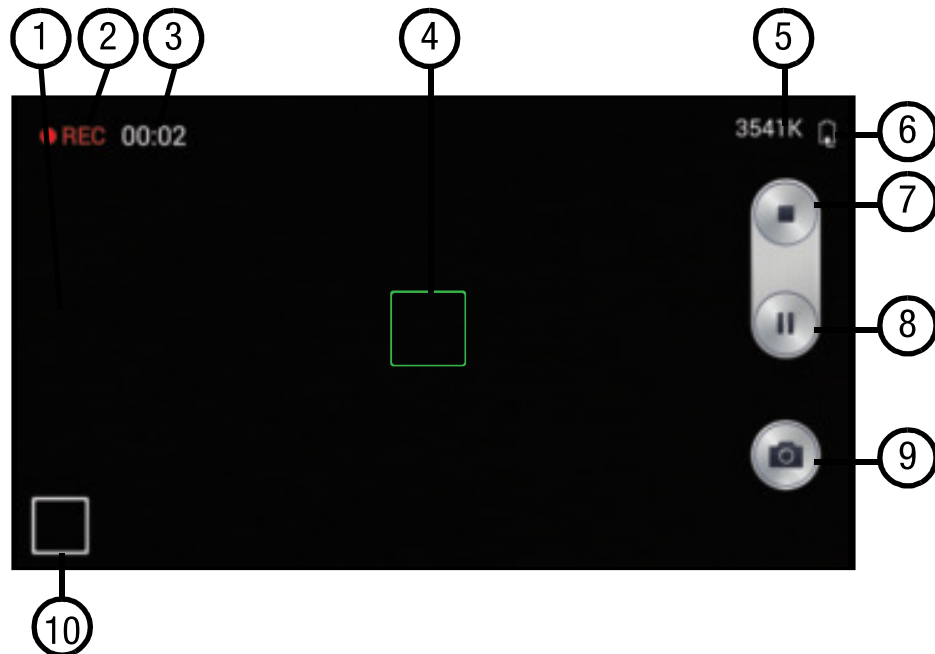
- **Location tag:** Add GPS location information to photo or video details.
- **Review:** When set to on, displays each picture after you take it.
- **Volume key:** Choose the shortcut assigned to the Volume key (Zoom, Camera Take, Camcorder Record).
- **Timer:** Set a delay before taking a picture or starting a video recording.
- **White balance:** Choose a setting to match the light source.
- **Exposure value:** Adjust the picture brightness level by moving the slider.
- **Guidelines:** Enable or disable an on-screen grid to aid in photo composition.
- **Flash:** Choose Off, on, or Auto flash.

- **Voice control:** Choose off or on, then enable or disable voice commands Smile, Cheese, Capture, and Shoot.
- **Contextual filename** (requires GPS tagging): Lets you adjust the filename based on contextual information, such as your current GPS location.
- **Save as flipped:** Flips the images from the front camera left-to-right so photos and videos are oriented as though they were recorded by the rear camera.
- **Storage:** Choose to store your pictures and videos in Phone memory or on an optional Memory card.
- **Reset:** Returns all settings to factory default values.

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.

- From the Camera view finder screen, touch . The Camcorder view finder screen displays.



Camcorder Controls

1. **Auto Focus button:** Indicates that the Focus Point has been changed. Touch to return to default (image center) Focus Point.
2. **Recording Status indicator:** Indicates whether recording (as shown) or paused.
3. **Recording Length counter:** Indicates the current length (in minutes and seconds) of this video.
4. **Focal Point:** Indicates the Camcorder focal point. To change the focal point, touch a new point on the view finder image. This causes the Auto Focus button to appear.
5. **Recording Size counter:** Indicates the size of your recording (in kilobytes).
6. **Battery level indicator:** Indicates the available battery charge when the phone is connected to a charger.
7. **Recording Stop button:** Stops and saves the current video recording and returns you to the Camera viewfinder.
8. **Recording Pause button:** Interrupts the current video recording. Replaced by the Recording Resume button.

9. **Image Capture button:** Touch to capture an image from the video while recording. (Not available with **Video stabilization** set to on.)
10. **Gallery:** Shows a thumbnail image of the last picture or video you have taken or recorded. Touch to access the thumbnail image or the Gallery (see “*Gallery*” on page 101).

Recording Videos

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

Note: 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).

Note: Use either the Up and Down volume keys or spread/pinch the screen to zoom in or out.

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, then touch  (**Play**) to playback your video for review.
9. Press  to return to the viewer.

Reviewing Video

- After recording a video, touch **Gallery** to view the it. For more information, refer to “*Gallery*” on page 101.

ChatON

Provides a global service where you can chat with more than two 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 (username/password) to several applications, such as AllShare Play, ChatON, and Media Hub.

For more information, visit web.samsungchaton.com and see “Adding an Account” on page 50.

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

Chrome

Google Chrome is a full-HTML browser.

1. From the **Apps** screen, touch  **Chrome**.
2. Follow the prompts to initially set up Chrome. For more information, touch  **Menu** → **Help**.

City ID

Subscribe to City ID to display city and state for incoming calls, and to look up city and state information for phone numbers.

- From the **Apps** screen, touch  **City ID**.

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 **Apps** screen, touch  **Clock**.

Alarm

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

1. From the Clock screen, touch **Alarm → Create alarm**.

The following options are available:

- **Time:** Touch  **Up** or  **Down** to set the time for the alarm to sound. Touch **AM** or **PM**.
- **Repeat weekly:** Use this option to set the repeating status for the alarm by touching one the days that you want the alarm to sound. Touch the Repeat weekly check box to have the alarm repeat weekly.
- **Alarm type:** Sets the way in which the alarm sounds when activated (Melody, Vibration, Vibration and melody, and Briefing).
- **Alarm tone:** Sets the sound file which is played when the alarm is activated. Select an option or touch Add for additional options.
- **Alarm volume:** drag the slider to adjust the alarm's volume.

- **Location alarm:** When activated, the alarm only sounds when you are at a specific location. Touch the **off/on** slider to activate, and 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.
 - **Name:** Lets you use a specific name for the alarm. The name will appear on the display when the alarm activates.

2. Touch **Save** to store the alarm details.

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 97.

Deleting Alarms

To delete multiple alarms, follow these steps:

1. From the **Apps** screen, touch  **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 **Apps** screen, touch  **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, then touch the city name.
4. Press and hold a city, 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.

Deleting a World Clock Entry

1. From the Clock screen, touch **World Clock →**  **Menu → Delete**.
2. Touch and hold the city clocks you wish to delete.
3. Touch **Delete**.

Stopwatch

You can use this option to measure intervals of time.

1. From the **Apps** screen, touch  **Clock → 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 **Apps** screen, touch  **Clock → Timer**.
2. Touch 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. Touch **Start** to start the timer.
4. Touch **Stop** to stop the timer or **Reset** to reset the timer and start over.
5. Touch **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 **Apps** screen, touch  **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. Touch  to display the Desk clock in full-screen mode.
3. To make changes, touch  **Menu → Settings**.
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 **Apps** screen, touch  **Contacts**.

Downloads

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

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

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

Drive

Google Drive is a file storage and synchronization service provided by Google.

Visit drive.google.com to learn more.

Note: This app requires a Google Account.

- From the **Apps** screen, touch  **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, refer to dropbox.com.

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

Email

Send and receive email using popular email services.

For more information, see “*Email*” on page 80.

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

Flipboard

Create a personalized digital magazine out of everything being shared with you. Access news stories, personal feeds and other related material. Flip through your Facebook news feed, tweets from your Twitter account, photos from friends, and much more.

Visit flipboard.com to learn more.

Note: This app requires a Flipboard Account.

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

Gallery

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

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

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

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

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

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 112.

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:** 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.
 - **Settings:** Configure your Accounts Sync settings, choose whether to sync pictures and videos only over a Wi-Fi connection, and/or configure Tags to include Weather information, Location information, Person information, Date information, and/or Face tag information.
 - **Help:** View explanations of Gallery functions.

Viewing Pictures

1. From the **Apps** screen, touch  **Gallery**.
2. Select an album, 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, 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 your Accounts Sync settings, choose whether to sync pictures and videos only over a Wi-Fi connection, and/or configure Tags to include Weather information, Location information, Person information, Date information, and/or Face tag information.

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 **Apps** screen, touch  **Gallery**.
2. Select a folder location and touch a file to open it.
3. With the image displayed, press  **Menu → Edit** to launch the photo editor.
4. Touch and hold the image then select an 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 area to your device's clipboard.

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

-  **Previous:** Display the previous photo project.
-  **Next:** Display the next photo project.
-  **Cancel:** Close the currently displayed photo.
-  **Save:** Save this photo to the memory card.
-  **Rotate:** Rotate a photo in all 4 directions. You can also mirror image the photo.
-  **Crop:** Crop (cut-out) an area of a photo.
-  **Color:** Auto adjust color, Brightness, Contrast, Saturation, Adjust RGB, Temperature, Exposure, and Hue of a photo.
-  **Effect:** Add various effects to your photo.
-  **Portrait:** Apply various face correction effects such as Red-eye fix, Airbrush face, Face brightness, Out-of-focus, Beauty face, Face reshape, or Spot healing.

-  **Sticker:** Place various pre-created on-screen stickers on top of the current image.
-  **Drawing:** Draw on the picture using a brush, pen, or eraser.
-  **Frame:** Place a pre-created border style on top of the current image.

6. Press to access the following options:

- **Save as:** Rename your current image and save it.
- **Select image:** Select a new image for editing.
- **Take picture:** Activate the camera and take a new image for editing.
- **Share via:** Share your saved photo via Add to Dropbox, Bluetooth, ChatON, Email, Flipboard, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct.
- **Set as:** Assign the photo as a Contact photo, or as the Home screen and/or lock screen wallpaper.

Viewing Videos

1. From the **Apps** screen, touch  **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. The following options are available:
 - Touch  **Gallery** to return to the album view.
 - Touch  **Share** to send the video using one of several options or services.
 - Touch  **Trim** to cut frames from your video.
 - Touch  **Delete** to erase the picture or video.
 - Touch  **Menu** for the following additional options:
 - **Favorite**: Add your video as a favorite.
 - **Slideshow**: View all of your videos as a slideshow.
 - **Rename**: Change the video's filename.
 - **Details**: View information about the video.
 - **Settings**: Access Gallery options.

Sharing Pictures and Video

You can share pictures and videos via Email, Messaging, Bluetooth, or popular sharing services.

1. From the **Apps** screen, touch  **Gallery**.
2. Touch an album to display preview. Touch  **Menu** → **Select item**, and then touch previews to mark them for sharing.
3. Touch  **Share via** and follow the prompts.

Setting a Picture as a Contact Photo

Set a picture as a contact's photo. The contact's photo displays with notifications to calls or messages from the contact.

1. From the **Apps** screen, touch  **Gallery**.
2. Touch a category, and then touch a picture to select it.
3. Touch  **Menu** → **Set as** → **Contact photo**.
4. Select a contact, or create a new contact, with the selected picture as the contact's photo.

Setting a Picture as Wallpaper

Set a picture as the wallpaper for the Home and Lock screens.

1. From the **Apps** screen, touch  **Gallery**.
2. Touch a category, and then touch a picture to select it.
3. Touch  **Menu** → **Set as**.
4. Select an option, from Home screen, Lock screen, or Home and lock screens wallpaper. Use the crop tool to edit the picture. Touch **Done**.

Gameloft

Preview and download great mobile games for your device.

Visit gameloft.com to learn more.

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

Gmail

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

For more information, see “*Gmail*” on page 82.

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

Google

Search the Internet using the Google search engine.

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

Google Now

Google Now recognizes repeated actions performed on the device (including accessing locations, repeated calendar appointments, search queries, and more). Google Now uses these actions to automatically send updates for user-specific information in the form of “cards.”

Visit google.com/landing/now to learn more.

Note: You must be signed in to your Google Account to use Google Now. If not, touching  will launch a basic Google search.

1. Press and hold the  **Home Key**, and then touch .
2. Follow the prompts to set up and use Google Now.

Note: When Google Now is enabled, you can also access it by touching  **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. (For example, sign in to Google+ in order 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 and family, post photos, 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.

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

Tip: For more information, touch  **Menu** → **Help**.

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 **Apps** screen, touch  **Hangouts**.

Help

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

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

Internet

Your phone is equipped with a full-HTML browser, that lets you access the Internet.

- From the Home screen, select  **Internet**.

Navigating the Web

Selecting items on a page

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

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

Command Keys

- Touch  **Backward** to return to the previous page.
- To go to the next page, touch  **Forward**.

Touching and dragging

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

Entering text in a field

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

Zoom

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

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

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 information, visit samsung.com/knox.

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

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*” on page 173.

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

Messaging

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

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

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

Mobile Data Security

Mobile Data Security lets you keep your data safe and secure if your phone is lost or stolen.

Note: Contact your Wireless Provider for details.

- From the **Apps** screen, touch  **Mobile Data Security**.

Mobile TV

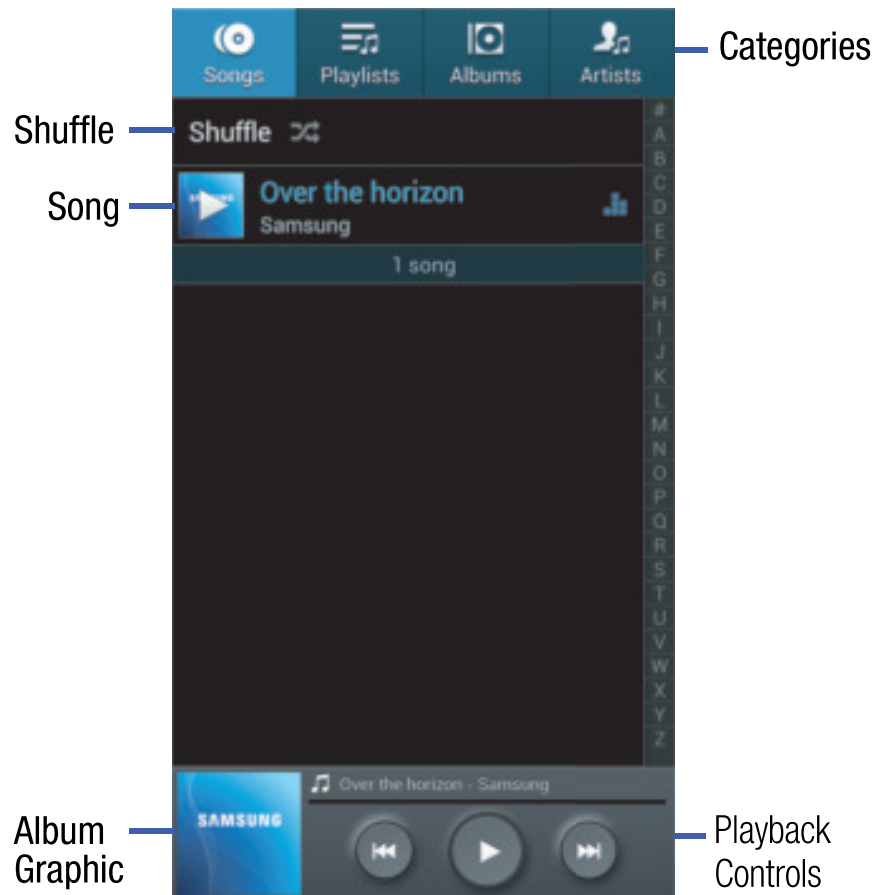
You can watch television shows on your device. Select from a list of options.

- From the **Apps** screen, touch  **Mobile TV**.

Important! After a trial period, charges for service apply. Contact your Wireless Provider for details.

Music

Music is an application that can play music files. Using Music, you can navigate through your music library, play songs, and create playlists.



1. From the **Apps** screen, touch  **Music**.
2. Music Player scans for songs stored in phone memory, or on an installed memory card and displays your songs on the **Songs**, **Playlists**, **Albums**, **Artists**, and **Folders** tabs.
3. Touch a music file to begin playback. During playback, use the sound and playlist controls:
 -  **AllShare**: Select a device to use for sharing music files.
 -  **Volume**: Touch to activate on-screen volume control, and then touch and drag on the scale to set volume, or press the Volume Key on the side of the phone to adjust playback volume. Touch  to view the SoundAlive equalizer.
 -  **Shuffle**: When enabled, songs play in random order. When disabled, songs play in the order they appear in List view.
 -  **Play All**: Touch to play all songs, an album, or playlist.
 -  **Repeat All**: Touch to repeat the current song, repeat all songs, or disable repeat mode.

-  **Repeat once:** Touch to repeat the current song, album, or playlist once.
-  **List:** Touch **List** to switch to a list view of songs.
-  **Now Playing:** Touch **Now Playing** to display the current song title and details.
-  Touch to advance to the next song. Touch and hold  to scan forward through the current song.
-  Touch to go back to the previous song. Touch and hold  to scan backward through the current song.
-  Touch to pause playback.
-  Touch to resume playback.
-  **Favorites:** Touch to add this song to your Favorites list.

Creating a Playlist

1. From the **Apps** screen, touch  **Music → Playlists**.
2. Touch  **Menu → Create Playlist**. Enter a name for the playlist. Touch **OK**.
3. Touch **Add music** to choose music for the playlist.

Adding a Song to a Playlist

1. From the **Apps** screen, touch  **Music**.
2. Touch and hold on a song; then choose **Add to playlist** from the pop-up menu.
3. Touch a playlist to add the selected song to it, or touch **Create playlist** to create a new playlist and add the selected song to it.

Adding Multiple Songs to a Playlist

1. From the **Apps** screen, touch  **Music**.
2. Touch  **Menu → Add to playlist**.
3. Touch songs to select them, or touch **Select all**; then touch **Done**.
4. Select a playlist, or touch **Create playlist** to create a new playlist.

Setting a Song as a Ringtone

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

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

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 **Apps** screen, touch  **My Files**.
2. Touch a folder and scroll down or up until you locate a file.
3. Touch a file to launch it in the associated application (if the file is associated with an application).

4. While browsing files, use these controls:

- Touch  **Home** to go back to the root directory.
- Touch  **Up** to go back up to a higher directory.
- Touch  **Menu** for options.

Optical Reader

Use Optical Reader to scan printed text into a Note.

- From the **Apps** screen, touch  **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 62.

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

Photos

Automatically save every photo you take with your phone to your Google+ account. Then it is easy to view, organize, and share them with friends and family of your choice.

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

Note: This app requires a Google Account.

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

Play Books

With Google Play Books, you can find more than 3 million free e-books and hundreds of thousands more to buy in the eBookstore.

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

Note: This app requires a Google Account.

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

Play Games

Discover hundreds of games for download and purchase through the Google Play Store.

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

Note: This app requires a Google Account.

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

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

Note: This app requires a Google Account.

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

Play Music

With Google Play Music, you can play music you've downloaded, and music you copied from your computer. You'll need to have a Google Account to download content.

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

Note: This app requires a Google Account for some features.

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

POLARIS Office 5

POLARIS Office 5 is a Microsoft Office-compatible office suite that provides a central place for managing your documents, spreadsheets, and presentations on and off line.

- From the **Apps** screen, touch  **POLARIS Office 5**.

S Health

Use S Health to manage your wellness. S Health records activity level, food consumption, and other health-related information from external devices, such as blood glucose level, blood pressure, and weight.

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

- From the **Apps** screen, touch  **S Memo**.

S Translator

Use S Translator to translate text speech composed of any of 9 written or spoken languages to or from UK English or US English.

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

S Voice

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

1. From the **Apps** screen, touch  **S Voice**.
– or –
From the Home screen, press  **Home** twice in quick succession.
2. Follow the prompts to set up the application.
3. At the S Voice screen, say “Hi Galaxy” to wake up S voice.
4. Speak into the phone and follow the prompts.

Samsung Apps

Samsung Apps allows you to easily download many different types of applications to your phone. You can download games, news, reference, social networking, navigation, and other applications.

Note: Renting or purchasing content in Samsung Hub requires a Samsung account.

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

Samsung Hub

Samsung Hub makes it easy to find, sample, and purchase movies, TV shows, books, games, and music.

Visit samsung.com/us/samsunghub to learn more.

Note: Renting or purchasing content in Samsung Hub requires a Samsung account.

- From the **Apps** screen, touch  **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 with other DLNA-certified (Digital Living Network Alliance) devices.

Visit link.samsung.com to learn more.

Note: This app requires a Samsung Account.

- From the **Apps** screen, touch  **Samsung Link**.

Settings

Configure your phone to your preferences.

For more information, see “*Settings*” on page 139.

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

Slacker

Listen to your Slacker radio station on your device.

1. From the **Apps** screen, touch  **Slacker**.
2. Begin selecting the music you want to listen to.

Important! You must register and create a free account prior to using this service.

Story Album

Organize your photos and create albums based on specific events. Apply themes and arrange your photos in various layouts. You can then print the photos into albums through an online service and hold the memories in your hand.

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

Tone Room Deluxe

Tone Room Deluxe is a service that enables you to access the latest and hottest content from your favorite artists for ringtones and ring back tones from your phone or the Web.

- From the **Apps** screen, touch  **Tone Room Deluxe**.

TripAdvisor

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

Note: This application requires a Samsung account for access.

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

Video

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

1. From the **Apps** screen, touch  **Video**.
All videos that you have on your phone and memory card display.

2. Touch the video that you want to play. The video begins playing.
3. The following 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.

4. While viewing the list, touch  **Menu** for options:
 - **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.
 - **Auto play next:** Touch to enable or disable automatic playing of videos in the order they appear.
5. 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.
 - **Trim:** Use the sliders at the bottom of the screen to trim the video.
 - **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.

Voice Recorder

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

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

Voice Search

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

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

VPN Client

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

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

Wallet

Google Wallet lets you use your phone to buy from stores and from on-line sites or to send money, all with protection if your phone is lost or stolen.

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

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.

For more information, refer to samsungwatchon.com.

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

Set Up WatchON

1. From the **Apps** screen, touch  **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 instructions to find your TV or other devices and configure your phone to control their operation.

Wi-Fi Now

Wi-Fi Now automatically connects your device to Wi-Fi and helps you save on mobile data usage.

- From the **Apps** screen, touch  **Wi-Fi Now**.

Your Navigator Deluxe

Provides all the features of an advanced car navigation system. Obtain turn-by-turn driving directions with GPS accuracy. Search for any destination (including gas stations, ATMs, restaurants, and more). View detailed maps of any location.

Important! Your Navigator Deluxe requires you to activate the GPS location function on your phone. For more information, refer to “*Location*” on page 173.

1. From the **Apps** screen, touch  **Your Navigator Deluxe**.

Note: If the GPS location function on your phone is inactive, follow the prompts to activate it. For more information, refer to “*Location*” on page 173.

Tip: The first time you launch Your Navigator Deluxe, your phone downloads Your Navigator Deluxe updates and applications not included with Your Navigator Deluxe to save storage. Activating Wi-Fi can save data charges during this download. For more information, refer to “*Wi-Fi*” on page 124.

2. From the Your Navigator Deluxe Home screen select one of the following options:
 - **Drive To:** Obtain turn by turn directions to an address, airport, contact address, and more.
 - **Places:** Search for nearby businesses, the cheapest gas prices, and more.

- **Maps & Traffic:** View your current location on a map and any traffic in the area.
- **Local Apps:** Launch applications that enhance Your Navigator Deluxe sessions.

YouTube

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

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

Accessing Widgets

1. Press  **Home**, then Sweep your finger right or left to scroll to a particular Home screen panel.
2. Touch  **Apps**, then the **Widgets** tab. The **Widgets** screen displays.
— or —
Touch and hold on the displayed **Home screen** panel until the Home screen menu pops-up, then touch **Add to Home screen → Apps and widgets**, then the **Widgets** tab. The **Widgets** screen displays.
3. Sweep your finger right or left to scroll through the Widgets screens and find the desired widget.

4. To place a widget on the selected Home screen panel, touch and hold the widget's image or icon, then position the widget on the Home screen panel.
5. If needed, follow any prompts to configure the widget.

Section 7: Connections

Wi-Fi

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

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

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

Turning Wi-Fi on or Off

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

Turning Wi-Fi on

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

Turning Wi-Fi off

1. From the Home screen, touch  **Menu** →  **Settings** →  → **Wi-Fi**.
2. Touch and slide the Wi-Fi slider  to turn it off.

Scanning and Connecting to a Wi-Fi Network

1. Turn Wi-Fi on. Your phone scans for available hotspots and pops-up a list of any it finds.
2. To connect to a hotspot, touch it on the pop-up list.
 - If the Wi-Fi network is open, you will be automatically connected.
 - If the Wi-Fi network is secured, enter the password at the prompt to connect.

Adding a Wi-Fi Network Manually

1. From the Home screen, touch  **Menu** →  **Settings** →  → **Wi-Fi**.
2. Touch **Wi-Fi**  to turn on Wi-Fi.
3. Touch **Add Wi-Fi network**, then enter the following values:
 - **Network SSID**: Enter the name of the WAP (Wireless Access Point).
 - **Security**: Select the type of security used by the WAP.
 - **Password**: If the WAP is secured, enter the password or key.
4. Touch **Connect**.

Wi-Fi Settings

Configure and manage connections to Wi-Fi access points.

1. From the Home screen, touch  **Menu** →  **Settings** →  → **Wi-Fi**.
2. Touch options to configure:
 - **Add Wi-Fi network**: Connect to a new Wi-Fi network.
 - **Scan**: Search for available Wi-Fi networks.
 - **Wi-Fi Direct**: Access Wi-Fi Direct settings (see “*Wi-Fi Direct*” on page 126.)
3. Touch  **Menu** to access the following additional options:
 - **Advanced**:
 - **Network notification**: When enabled, your phone notifies you of nearby Wi-Fi networks when you launch a high data-usage application.
 - **Passpoint**: When set to on, your phone automatically connects to passpoint-enabled hotspots.
 - **Sort by**: allows you to sort by alphabet or Signal strength.

- **Keep Wi-Fi on during sleep:** Specify when to switch from Wi-Fi to mobile data for data communications, when the phone goes to sleep (when the backlight goes out). This setting can affect your data usage, and the behavior of devices you connect to your phone, such as when tethering or using portable Hotspot.
- **Always allow scanning:** Allows the Google location service and other apps to scan for networks, even when Wi-Fi is turned off.
- **Install certificates:** Allows you to install security certificates that you have on a MicroSD card.
- **MAC address:** (Not configurable) View your phone's MAC address, needed for connecting to some secured networks (only displays when Wi-Fi is active).
- **IP address:** (Not configurable) View your phone's IP address (only displays when connected to a Wi-Fi network).
- **WPS push button:** Record/send the signal from the Wi-Fi Protected Set-up push button on your Wi-Fi router.

- **WPS PIN entry:** Record/send the Wi-Fi Protected Set-up Personal Identification Number for your Wi-Fi router.
- **Help:** Provides on-line assistance to perform Wi-Fi interface tasks.

Wi-Fi Direct

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

Establishing Wi-Fi Direct connections

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

Bluetooth

Bluetooth is a short-range communications technology that allows you to connect wirelessly to a number of Bluetooth phones, such as headsets and hands-free car kits, and Bluetooth-enabled handhelds, computers, printers, and wireless phones. The Bluetooth communication range is usually approximately 30 feet.

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

Note: For hearing aid compatibility information, see page 202.

Note: Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your phone supports, see *"Bluetooth Profiles"* on page 129.

Turning Bluetooth on or Off

1. From the Home screen, touch  **Menu** →  **Settings** → .
2. Touch and slide the **Bluetooth**  slider to turn it on.
— or —
From the Home screen, sweep your finger from the top of the screen downward to display Notifications.
3. Touch  **Bluetooth** to turn Bluetooth on. Touch  **Bluetooth** to turn Bluetooth off.

Pairing with a Bluetooth Device

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

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

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

1. Activate the target device's discoverable mode.
2. From the Bluetooth settings page, touch the **Visibility** field (shown by the device name).
The device must be visible to pair with an external device.
3. Touch **Scan**. Your device displays a list of discovered in-range Bluetooth devices.
4. Touch a device from the list to initiate pairing.

5. Enter the passkey or PIN code, if needed, and touch **OK**.
6. The external device must accept the connection and enter your device's PIN code.

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

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

Connecting with a Bluetooth Device

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

Bluetooth Profiles

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

- **Headset:** HSP v1.2 profile supports use of compatible Bluetooth headsets for mono voice.
- **Handsfree:** HFP v1.5 profile supports Bluetooth headsets, and may also support other compatible Bluetooth devices with speakerphone capabilities.
- **Stereo:** A2DP v1.2, AVRCP v1.0, GAVDP 1.2, AVCTP 1.3 and AVDTP 1.2 profiles support delivery of stereo audio to compatible Bluetooth devices.
- **Object Exchange:** OPP v1.0 profile allows sending and receiving of contact name cards (vCard 2.1) and calendar events (vCalendar) between devices. PBAP v1.2 supports exchange of Phone Book Objects.
- **Human Interface Devices:** HID v1.0 profile supports certain interface devices.
- **Personal Area Networking:** PAN 1.0 supports exchange of data with other devices.

- **Message Access Profile:** MAP 1.0 allows exchange of messages between devices, such as with an automotive hands-free device.

Bluetooth Settings

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

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

1. From the Home screen, touch  **Menu** → **Settings** →  → **Bluetooth**.
2. Touch a setting to configure Bluetooth:
 - Touch **Bluetooth**  to turn Bluetooth on, or touch **Bluetooth**  to turn Bluetooth off.
 - Touch your phone's name to enable/disable its visibility to other devices' Bluetooth searches. Available when Bluetooth is on.
 - Touch **Scan** to search for visible Bluetooth devices. Touch a detected device to pair with it (see *"Pairing with a Bluetooth Device"* on page 128).

- Touch  **Menu** to access the following options:
 - **Visibility timeout:** Select how long your phone will remain visible to other devices.
 - **Received files:** Lists files received from other devices over Bluetooth connections.
 - **Help:** Provides on-line instructions for using your phone's Bluetooth interface.

Portable Wi-Fi Hotspot

Use Portable Wi-Fi Hotspot to share your phone's internet connection with a PC or other device through Wi-Fi, using your phone as the mobile hotspot.

Note: Portable Wi-Fi Hotspot requires a subscription to the applicable service to use the application.

Portable Wi-Fi Hotspot consumes battery power and uses data service. While the Portable Wi-Fi Hotspot is active, your phone's applications will use the Portable Wi-Fi Hotspot data feature allowance.

Activating Portable Wi-Fi Hotspot

Activate your phone's Portable Wi-Fi Hotspot application to allow other devices to use your phone's internet connection.

1. From the Home screen, touch  **Menu** → **Settings** →  → **More networks** → **Tethering and portable hotspot**.
2. Touch **Portable Wi-Fi Hotspot**  and follow the prompts to turn Portable Wi-Fi Hotspot on.

Connecting a Device via Portable Wi-Fi Hotspot

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

1. Activate Portable Wi-Fi Hotspot on your phone.
2. Activate Wi-Fi on the other device, using that device's Wi-Fi control.
3. Scan for Wi-Fi hotspots, and select your phone from the list.
4. At the prompt, enter your phone's Portable Wi-Fi Hotspot password. By default, the password is your phone's telephone number.

Configuring Portable Wi-Fi Hotspot Settings

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

Tip: By default, your device's mobile hotspot has security applied, and a password (your device's phone number) is required to connect.

1. From the Home screen, touch  **Menu** → **Settings** →  **More networks** → **Tethering and portable hotspot** → **Portable Wi-Fi hotspot**.
2. Touch **Configure** to access the following options:
 - **Network SSID:** View and change the name of your Mobile Hotspot.
 - **Hide my device:** When enabled, your Portable Wi-Fi Hotspot is not visible to other Wi-Fi devices during a scan. Other devices can still connect to your Portable Wi-Fi Hotspot, but will have to set up the connection manually with your Network SSID and Password.
 - **Security:** Choose the security level for your Portable Wi-Fi Hotspot.

- **Password:** If you choose a security level that uses a password, enter the password. By default, the password is your mobile telephone number.
- **Show password:** Enable to make the Password field visible.
- **Show advanced options:** Enable to access advanced options, including Broadcast channel, to specify the channel your device uses for Portable Wi-Fi Hotspot.

Allowed Device List

Control whether devices connect to your Portable Wi-Fi Hotspot with the Allowed device list. After you add devices to the list, they can scan for your device and connect using your device's Wi-Fi hotspot name (SSID) and password.

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

1. From the Home screen, touch  **Menu** → **Settings** →  **More networks** → **Tethering and portable hotspot** → **Portable Wi-Fi hotspot**.
2. Touch **Allowed devices** →  **Add**, then enter the other device's Device name and MAC address.
3. Touch **OK** to add the device to the **Allowed devices** list.

Tethering

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

1. The **Portable Wi-Fi hotspot** screen displays. **More networks** → **Tethering and portable hotspot**.
2. Choose a tethering method:
 - **USB tethering:** Connect the computer to the phone via USB cable, then touch **USB Tethering** to turn tethering on or off. When on, a check displays in the check box.
 - **Bluetooth tethering:** Pair your phone with the computer via Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair via Bluetooth. Touch **Bluetooth Tethering** to turn tethering on or off.
 - **Help:** Provides helpful Portable Wi-Fi hotspot, USB tethering, and Bluetooth tethering information.

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

VPN

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

Accessing a VPN

1. From the Home screen, touch  **Menu** → **Settings** →  → **More networks** → **VPN**.
2. Enter a password for credential storage.
3. Touch a VPN and follow any prompts to access the network.

Adding a VPN

1. From the Home screen, touch  **Menu** → **Settings** →  → **More networks** → **VPN**.

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

2. Touch  **Add VPN network** to set up a connection to a VPN, using the following settings:
 - **Name:** Enter a name for the VPN connection.
 - **Type:** Choose the type of VPN.

- **Server address:** Enter the IP address of the VPN server.
- **PPP encryption (MPPE):** Touch to enable or disable encryption.
- **Show advanced options:** Touch to show more options. Available options depend on the type of VPN you are adding.

Personal Computer Connections

Connect your device to a personal computer to transfer data between your device and the computer. Use the USB data cable that comes with your device, or use the Kies via Wi-Fi connection on your device to connect wirelessly.

Transferring 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 www.android.com/filetransfer).
 - **Camera (PTP):** Transfer photos using camera software, and transfer files to computers that do not support MTP.
4. Connect the USB cable to the device and connect the cable to the computer. After a few seconds, a pop-up displays on the PC.
5. Open the folder to view files.
6. Copy files from the PC to the memory card.

NFC

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

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

1. From the Home screen, touch  **Menu** → **Settings** →  → **Nearby devices**.
2. Touch **NFC**  to turn Nearby devices on.
3. Touch **Shared contents**, then check the media you would like to share and touch **OK**.
4. Touch **Allowed devices list**: Lists Wi-Fi devices allowed to access your phone.
5. Touch **Not-allowed devices list**: Lists Wi-Fi devices blocked from accessing your phone.
6. Touch **Download to**, Choose a location to save downloaded content.
7. Touch **Upload from other devices**: Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

Android Beam

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

Turning Android Beam on or Off

1. From the Home screen, touch  **Menu** → **Settings** →  → **Nearby devices**.
2. Touch **NFC**  to turn Nearby devices on.
3. Touch the **Android Beam** slider  to turn Android Beam on.
Touch the **Android Beam** slider  to turn Android Beam off.

Using Android Beam

1. Turn **Android Beam** on.
2. Launch the desired feature or application or browse to the desired web page. See “*Applications and Widgets*” on page 84.

3. Place your phone back-to-back with the device to receive your “beamed” content, then touch the screen on your phone. The receiving device prompts the user to accept your “beamed” content.
4. Once the user of the receiving device accepts your “beamed” content, it displays on the screen of that device.

S Beam

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

Turning S Beam on or Off

1. From the Home screen, touch  **Menu** → **Settings** →  → **Nearby devices**.
2. Touch **S Beam**  to turn S Beam on, or touch **S Beam**  to turn S Beam off.

Using S Beam

1. From the Home screen, touch  **Menu** → **Settings** →  → **Nearby devices**.
2. Touch **S Beam**  to turn S Beam on.
3. Launch  **Camera**,  **Music Player**, or  **Gallery**. When using Gallery, you can select multiple files to S Beam.
4. Place your phone back-to-back with the device to receive your “beamed” content, then touch the screen on your phone. The receiving device prompts the user to accept your “beamed” content.
5. Once the user of the receiving device accepts your “beamed” content, it displays on the screen of that device.

Nearby Devices

Share files with nearby DLNA certified devices over Wi-Fi.

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

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. For more information, refer to “*Wi-Fi*” on page 124.
2. From the Home screen, touch  **Menu** → **Settings** →  → **Nearby devices**.
3. Touch **File sharing**  to turn file sharing via DLNA on or off.
4. 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

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

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

1. From the Home screen, touch  **Menu** → **Settings** →  → **Screen Mirroring**.

Note: This feature requires an optional AllShare Cast dongle which is available as an accessory. See your Customer Service Representative for more information.

2. Connect the dongle to the HDMI device using an HDMI A-to-A cable.
3. Press  **Menu** → **Help** for information on using Screen Mirroring.

Memory Card

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

Installing and Removing a Memory Card

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

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

Formatting a Memory Card

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

1. From the Home screen, touch  **Menu** → **Settings** →  → **Storage**.
2. Touch **Format SD card**, and then follow the prompts to confirm the deletion of information from the card.

Section 8: Settings

Accessing Settings

- From the Home screen, touch  **Menu** →  **Settings**.
 - or –
 - From the Home screen, touch  **Apps** →  **Settings**.
 - or –
 - Pull down the Notifications screen, then touch  **Settings**. For more information, refer to “*Notifications Panel*” on page 33.
- The **Settings** menu displays.

Note: This section does not include information about Call settings. For Call settings information, see “*Call Settings*” on page 70.

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: Wi-Fi, Bluetooth, Data usage, More networks, NFC, S Beam, Nearby devices, and Screen Mirroring.



My device: Lock screen, Display, LED indicator, Sound, Home screen mode, Call, Blocking mode, Hands-free mode, Power saving mode, Accessory, Accessibility, Language and input, Motions and gestures, Smart screen, Air view, and Voice control.



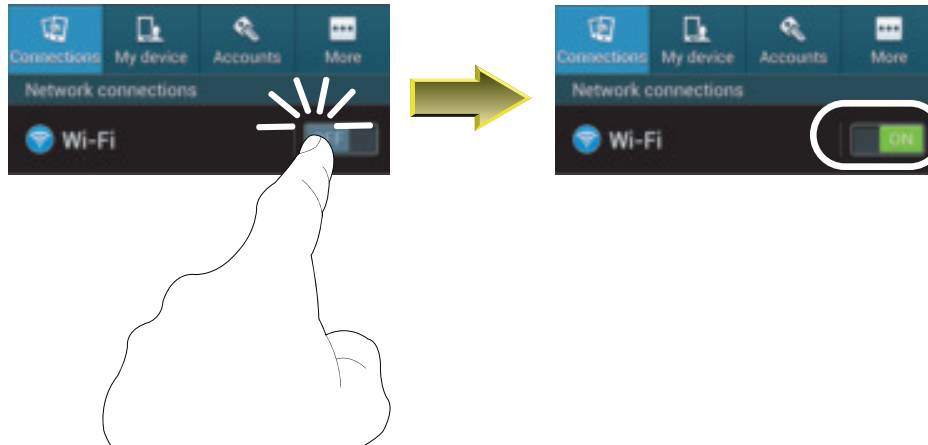
Accounts: My accounts (Dropbox, Google, Samsung account, and Add account) and Backup options (Cloud and Backup and reset).



More: Location, Security, Application manager, Default applications, Battery, Storage, Date and time, and About device.

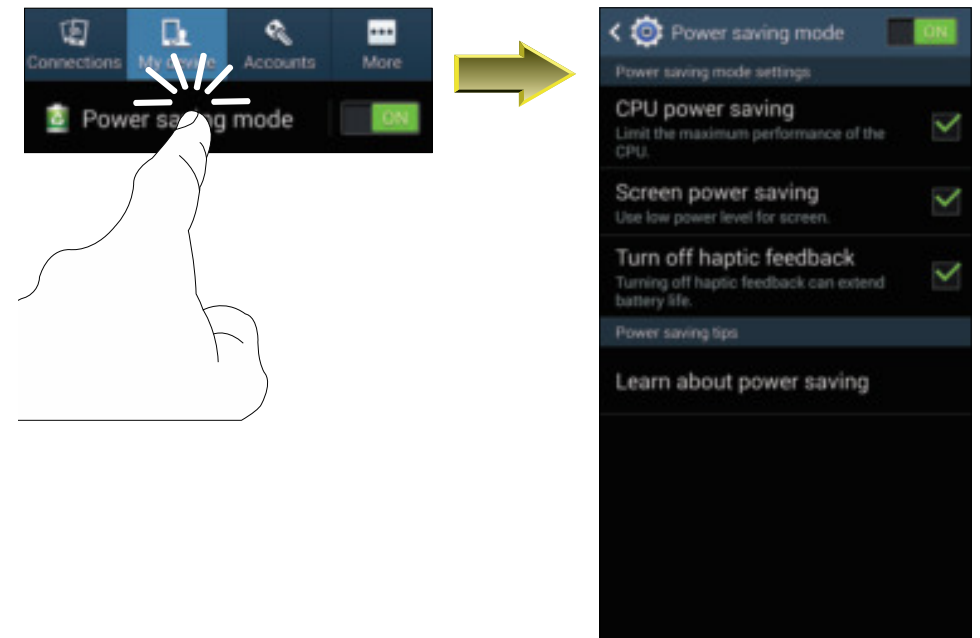
Using Setting Sliders

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



Accessing Additional Options

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



CONNECTIONS SETTINGS

To access your phone's Connections settings:

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

Wi-Fi

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

See “*Wi-Fi*” on page 124 for more information.

Wi-Fi Direct

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

For more information about using Wi-Fi Direct, see “*Wi-Fi Direct*” on page 126.

Bluetooth

Bluetooth is a short-range communications technology that allows you to connect wirelessly to a number of Bluetooth phones, such as headsets and hands-free car kits, and Bluetooth-enabled handhelds, computers, printers, and wireless phones. The Bluetooth communication range is usually approximately 30 feet.

See “*Bluetooth*” on page 127 for more information.

Data Usage

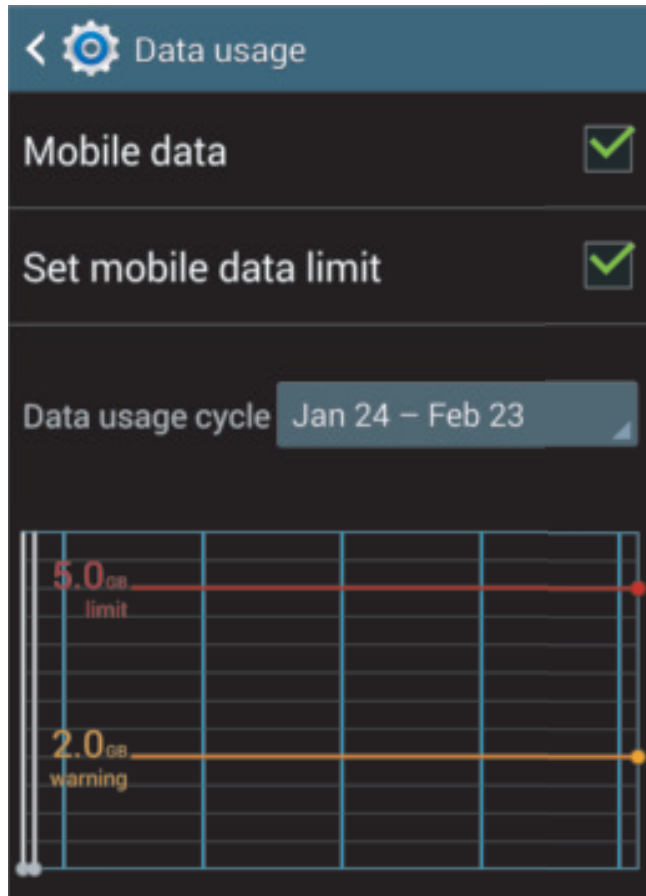
Control your device's connection to your Wireless Provider's data service, and monitor your data usage.

Setting a Mobile Data Limit

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

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

1. From the **Connections** screen, touch **Data usage**. The **Data usage** screen displays.



2. Touch **Mobile data** to enable it.
3. Touch **Set mobile data limit** to enable the limit. A red limit line displays in the **Data usage** screen.

4. Drag the vertical usage cycle lines left or right on the graph to adjust the mobile **Data usage cycle**.
5. Drag the horizontal **warning** line up or down on the graph to adjust the mobile data usage warning level.
6. Drag the horizontal **limit** line up or down on the graph to adjust the mobile data usage limit level.

Data Usage Options

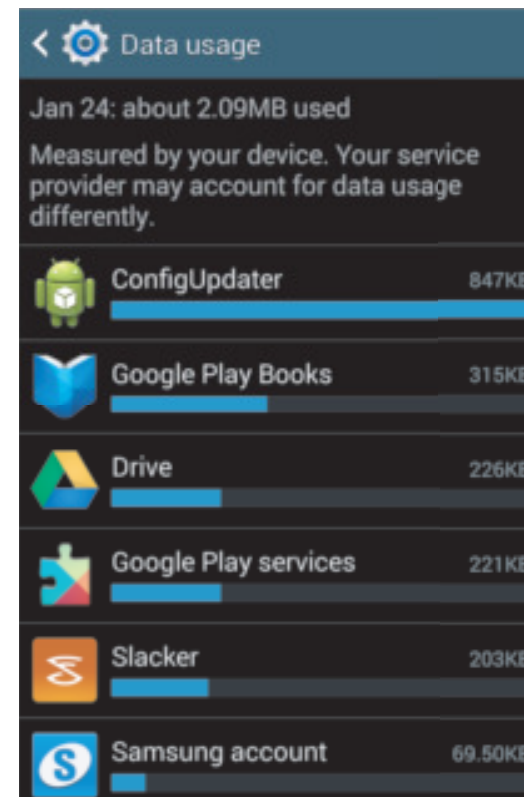
To select the data you want to display on the Data usage screen:

1. From the **Connections** screen, touch **Data usage**. The **Data usage** screen displays.
2. Touch  **Menu** and touch the check box next to each option to activate or deactivate:
 - **Data roaming**: Turns data roaming on or off. When roaming, your device connects to networks outside your home network, depending on your provider's agreements with other providers. Using data while roaming can incur extra charges, depending on your plan. For more information, contact your Customer Service representative.

- **Restrict background data:** Your device can connect to the network in the background, for synchronization or other services. Background connections will not occur when enabled.
- **Auto sync data:** When enabled, your device will automatically synchronize with accounts.
- **Show Wi-Fi usage:** When enabled, a separate tab displays 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.

Viewing data usage by app or process

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



More Wireless and Network Settings

Airplane Mode

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

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

- From the **Connections** screen, touch **More networks** → **Airplane mode** to enable or disable airplane mode.

Default Messaging App

This setting lets you select the messaging app that your phone is to use by default to receive your incoming messages.

1. From the **Connections** screen, touch **More networks** → **Default messaging app**. The **Default messaging app** menu pops up.
2. Select  **Messaging** or  **Hangouts**.

Printing

Select a Wi-Fi-connected printer to print files from your phone.

1. From the **Connections** screen, touch **More networks** → **Printing**. The **Printing** screen appears.
2. Touch **Samsung Print Service Plugin**. Your phone searches for printers.
3. Select the desired printer.

Mobile Networks

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

1. From the **Connections** screen, touch **More networks** → **Mobile networks**. The **Mobile networks** screen displays.
2. Set these options:
 - **Mobile data**: Enable or disable your phone's connection to the mobile data network.

Tip: You can also enable or disable **Mobile data** at the **Notifications shade**. See “*Notifications Panel*” on page 33.

- **Data roaming:** Enable or disable connection to data services when your device is roaming on another network. See *“Roaming”* on page 19.
- **Network mode:** Configure roaming for CDMA, LTE, and EV-DO networks.
 - **LTE/CDMA:** Lets your phone automatically access LTE, CDMA, and/or EV-DO mobile networks when available.
 - **CDMA:** Restricts your phone to CDMA mobile networks.
- **System select:** Configure CDMA roaming mode.
 - **Home only:** Restricts your phone to your Wireless Provider’s network.
 - **Automatic:** Permits your phone to automatically roam to networks other than that provided by your Wireless Provider.

Portable Wi-Fi Hotspot

Use Portable Wi-Fi Hotspot to share your phone’s internet connection with up to 5 other devices, through Wi-Fi.

You can control whether devices connect to your Portable Wi-Fi Hotspot with the Allowed device list.

See *“Portable Wi-Fi Hotspot”* on page 130 for more information.

Tethering

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

See *“Tethering”* on page 132 for more information.

VPN

Set up and manage Virtual Private Networks (VPNs). For more information about using VPNs, see *“VPN”* on page 133.

NFC

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

For more information, refer to “*NFC*” on page 134.

Android Beam

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

For more information, refer to “*Android Beam*” on page 135.

S Beam

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

For more information, refer to “*S Beam*” on page 135.

Nearby Devices

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

For more information, refer to “*Nearby Devices*” on page 136.

Screen Mirroring

Share the contents of its display with other Digital Living Network Alliance (DLNA) certified devices, such as Smart televisions.

For more information, refer to “*Screen Mirroring*” on page 137.

MY DEVICE SETTINGS

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

Lock Screen

Choose settings for locking and unlocking your phone.

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

1. From the **My device** screen, 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 favorite apps, Camera, Clock, and personal message.
 - **Shortcuts**: Add app shortcuts to the lock screen.
 - **Unlock effect**: Show a ripple 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.
 - **Lock screen widgets**: Customize your favorite apps, Camera, 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 (if applicable).
 - **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.
 - **Lock screen widgets:** Customize your favorite apps, Camera, 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 (if applicable).
 - **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. This option offers medium security.
 - **Lock screen widgets:** Customize your favorite apps, Camera, 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. This options offers medium to high security.
 - **Lock screen widgets:** Customize your favorite apps, Camera, 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**.

- **Password:** Enter an alphanumeric password to unlock your phone. This options offers high security.
 - **Lock screen widgets:** Customize your favorite apps, Camera, 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.

Display

- From the **My device** screen, touch **Display**. The **Display** menu appears.

Wallpaper

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

1. From the **My device** screen, touch **Display** → **Wallpaper**.
2. Touch the screen for which you want to select wallpaper. (Options are: **Home screen**, **Lock screen**, and **Home and lock screens**.)
3. Touch the source of the wallpaper(s) you want to use. [Options are: **Gallery**, **Photos** (Home screen only), **Live wallpapers** (Home screen only), **Travel wallpaper** (Lock screen only), and **Wallpapers**.)
4. Touch the desired image or wallpaper.

Notification Panel

- From the **My device** screen, touch **Display → Notification panel**. The **Notification panel** screen displays. The following options are available:
 - **Brightness adjustment**: When enabled, a Brightness adjustment slider displays in the Notification panel, under the Quick Setting buttons.
 - **Set the quick setting buttons**: Follow the onscreen instructions to select the quick setting buttons you want to appear at the top of the Notification panel.

Multi Window

- From the **My device** screen, touch **Display → Multi window** to enable or disable the Multi window tray. See “*Multi Window*” on page 28.

Screen Mode

Set the screen color balance and contrast mode.

1. From the **My device** screen, touch **Display → Screen mode**.
2. For automatic optimization of the screen, touch the **Adapt display** option to enable it. A check mark displays in the check box.
3. To manually select a screen mode, disable the **Adapt display** option, then touch **Dynamic**, **Standard**, **Professional photo**, or **Movie**.
4. Touch **Save**.

Reading Mode

Automatically optimize the screen for reading.

1. From the **My device** screen, touch **Display → Reading mode**.
2. Touch  to turn Reading mode on.
3. Touch **Edit** to select apps for Reading mode, and then tap **Done**.

Brightness

Set the default screen brightness.

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

Auto-Rotate Screen

Automatically change the screen's orientation when you rotate the phone.

- From the **My device** screen, touch **Display → Auto-rotate screen** to enable the feature.

Tip: You can also set Auto rotate on the Notifications shade with the **Screen rotation** setting. For more information, refer to “*Notifications Panel*” on page 33 and “*Quick Settings Menu*” on page 34.

Screen Timeout

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

1. From the **My device** screen, touch **Display → Screen timeout**.
2. Touch a setting to enable it.

Daydream

Set your phone's response to being placed in an optional desk or vehicle dock, being connected to a charger, and/or sleeping.

1. From the **My device** screen, touch **Display**, and then touch  to turn Daydream on.
2. Touch **Daydream** to select Daydream wallpaper from Colors, Flipboard, Google Photos, Photo frame, or Photo table. Touch  for additional settings.
3. Touch **Start now** to preview the effects of your Daydream settings.
4. Touch **Select dream time**, then select **While docked**, **While charging**, or **All**.

Font Style

Set the font for screen displays.

1. From the **My device** screen, touch **Display → Font style**.
2. Select a font, or touch **Get fonts online** to browse and download a new font.

Font Size

Set the font size for screen displays.

1. From the **My device** screen, touch **Display → Font size**.
2. Select a font size (**Tiny**, **Small**, **Normal**, **Large**, or **Huge**).

Touch Key Light Duration

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

1. From the **My device** screen, touch **Display**.
2. Touch **Touch key light duration**.
3. Select **1.5 seconds**, **6 seconds**, **Always off**, or **Always on**.

Display Battery Percentage

Display the battery's charge level in the Status bar next to the Battery icon.

- From the **My device** screen, touch **Display**, then touch **Show battery percentage** to enable the setting.

Edit After Screen Capture

Automatically launch the Gallery Picture Editor after you capture a screen (by sweeping across the screen or by pressing Home and Power together).

- From the **My device** screen, touch **Display** and touch **Edit after screen capture** to enable the setting.

Auto Adjust Screen Tone

Automatically adjust the screen tone to save power.

- From the **My device** screen, touch **Display** and touch **Auto adjust screen tone** to enable the setting.

Auto-Adjust Touch Sensitivity

Increase your phone's screen sensitivity to let you interact with your phone while wearing gloves.

- From the **My device** screen, touch **Display** and touch **Auto-adjust touch sensitivity** to enable the setting.

LED Indicator

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

- From the **My device** screen, touch **LED indicator**. The following options are available:
 - **Charging**: When enabled, LED indicator lights red while your phone's battery is being charged.
 - **Low battery**: When enabled, LED indicator lights red when your phone's battery charge level becomes low.
 - **Notifications**: When enabled, LED indicator flashes blue when you have missed calls, new messages, or application events.
 - **Voice recording**: When enabled, LED indicator lights blue when you are recording a voice note.

Sound

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

Volume

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

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

1. From the **Sound** menu, touch **Volume**. The **Volume** menu pops-up.
2. Touch and drag the sliders for:
 - **Music, video, games and other media**: Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
 - **Ringtone**: Set the volume for incoming call ringtones.
 - **Notifications**: Set the volume for notifications, such as new messages and event reminders.

- **System:** Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.

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

Vibration Intensity

Set the level for vibration to accompany ringtones and notifications.

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

Ringtones

Choose a ringtone for incoming calls.

1. From the **Sound** menu, under **Ringtones and notifications**, touch **Ringtones**. The **Ringtones** menu pops-up.
2. Touch a ringtone to select it. When you touch a ringtone, a sample plays, unless you have a Silent mode enabled.
3. To add a sound or music file to the Ringtones list, touch **Add**.
4. Touch **OK** to save your selection.

Tip: You can also set songs as ringtones for all calls, or for a selected contact. See “*Music*” on page 110.

Vibrations

Choose a vibration pattern to use when vibration is enabled.

1. From the **Sound** menu, under **Ringtones and notifications**, touch **Vibrations**. The **Vibrations** menu pops-up.
2. Touch a vibration pattern to select it. When you touch a pattern, a sample plays.

3. To create your own pattern, touch **Create**.
 - Touch **Touch to create** in the pattern, then touch **Stop**.
 - Touch **Save** to save your pattern.
4. Touch **OK** to save your selection.

Default Notification Sound

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

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

Tip: You can also set songs as ringtones. See “*Music*” on page 110.

Vibrate When Ringing

The phone vibrates in addition to ringing for calls and alerts.

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

Dialing Keypad Tone

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

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

Touch Sounds

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

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

Screen Lock Sound

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

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

Haptic Feedback

The phone vibrates to indicate screen touches and other interactions.

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

Emergency Tone

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

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

Samsung Applications

Select this option to access sound settings for select applications on your phone.

- From the **Sound** menu, under **Samsung applications**, touch one of the following to access sound settings for the selected application:
 - **Call**: See “*Call Settings*” on page 70.
 - **Message**: See “*Message Settings*” on page 77.

- **Email**: See “*Configuring Email Accounts*” on page 80.
- **Calendar**: See “*Calendar*” on page 86.

Samsung Keyboard

When you enable sounds and vibrations you will hear the sound played or feel the vibration when you enter text using the Samsung keyboard.

- From the **Sound** menu, under **Samsung keyboard**, touch one of the following to enable the feature:
 - **Key-tap sound**: When enabled, a sound plays for your key touches.
 - **Key-touch vibration**: When enabled, a vibration plays for your key touches.

Audio Output

You can connect your phone to an HD television or an amplifier using an optional HDMI adapter (not included). You can set your phone’s audio output to match the type of system connected to your phone.

1. From the **Sound** menu, under **HDMI**, touch **Audio output**.
2. Select **Stereo** or **Surround**.

Adapt Sound

You can select the sound most suitable to you for alerting you to calls while listening to music and video files.

1. From the **Sound** menu, under **More settings**, touch **Adapt Sound**. The **Adapt Sound** screen displays.
2. Read the instructions provided.
3. Touch **Start** to begin selecting your personal sound.

Home Screen Mode

Select the Home screen layout that best suits your needs.

1. From the **My device** screen, touch **Home screen mode**. The **Home screen mode** screen displays.
2. Select the desired Home screen mode (a preview image of your selection displays):
 - **Standard mode**: A conventional layout for apps and widgets on the Home screen panels.
 - **Easy mode**: A simplified apps and widgets layout for first time smartphone users.
3. To save your selection, touch **Apply**.

Call

Note: This section does not include information about Call settings. For Call settings information, see “*Call Settings*” on page 70.

Blocking Mode

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

1. From the **My device** screen, touch **Blocking mode**  to turn this feature on.
2. Touch the **Blocking mode** tab to access the following options:
 - **Features:**
 - **Block incoming calls**: Blocks incoming calls from everyone except **Allowed contacts**.
 - **Turn off notifications**: Blocks notifications from playing an alert tone.
 - **Turn off alarm and timer**: Blocks notifications from Clock and Calendar alarms, and from timers.
 - **Turn off LED indicator**: Stops LED indicator from lighting.

- **Set time:**

- **Always:** When enabled, Blocking mode stays active until you turn it off.
- **From:** With **Always** disabled, select the time when Blocking mode will come on.
- **To:** With **Always** disabled, select the time when Blocking mode will go off.

- **Allowed contacts:**

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

Hands-Free Mode

Incoming calls and notifications will be read out automatically.

1. From the **My device** screen, touch **Hands-free mode**

 to turn this feature on.

2. Touch the **Hands-free mode** tab to access the following 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 receiving incoming calls.
- **Alarm:** Read out alarm information when alarms sound.
- **Schedule:** Read out scheduled alarm information when alarms sound.

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

Power Saving Mode

Configure Power saving settings to conserve battery power.

1. From the **My device** screen, touch **Power saving mode**  to turn this feature on.

Note: **Power saving mode** must set to on to configure the **Power saving mode settings**.

2. Touch the **Power saving mode** tab to access the following **Power saving mode settings**:
 - **CPU power saving**: Limit the phone's maximum performance. This does not affect normal usage, such as browsing and video playback.
 - **Screen power saving**: Use reduced frame refresh rate and lower brightness.
 - **Turn off haptic feedback**: Do not vibrate when you touch the screen.
3. Touch an option to enable or disable it.
4. Under **Power saving tips**, touch **Learn about power saving** to view additional information.

Accessory

Configure your phone's behavior when you connect it to optional accessories (not included).

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

Dock

Configure your phone's behavior when it is connected to an optional Dock (not included).

- From the **Accessory** screen, under **Dock**, touch the check box next to each of the following options to enable it:
 - **Dock sound**: Play a sound when you insert and remove the phone from the Dock.
 - **Audio output mode**: Play audio through the Dock speakers when the phone is docked.
 - **Desk home screen display**: Display a special screen when the phone is docked.

S View Cover

- From the **Accessory** screen, under **S View Cover**, touch the check box next to each of the following options to enable it:
 - **Automatic unlock**: enables/disables unlocking your phone's screen by flipping the cover open, provided **Screen lock** is set to Swipe or None. See “*Lock Screen*” on page 147.
 - **Show in-call screen**: enables/disables showing the in-call screen when you move your device away from your ear during a call.

HDMI

You can connect your phone to an HD television or an amplifier using an optional HDMI adapter (not included). You can set your phone's audio output to match the type of system connected to your phone.

1. From the **Accessory** menu, under **HDMI**, touch **Audio output**.
2. Select **Stereo** or **Surround**.

Accessibility

Your phone offers features to make using the phone easier for those with certain physical disabilities. Use the Accessibility settings to activate these services.

3. From the **My device** screen, touch **Accessibility**. To enable/disable each of the following options, touch the check box next to it:
 - **Auto rotate screen**: The screen's orientation automatically changes when you rotate the phone. You can also set Auto rotate on the Notifications shade with the Screen rotation setting.
 - **Screen timeout**: Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).
 - **Speak passwords**: When Explore by touch is enabled, characters entered in password fields are read aloud.
 - **Answering/ending calls**: Touch this option to access the following call answering and ending settings:
 - **The home key answers calls**: Answer calls by pressing  **Home**.
 - **Voice control**: Use your voice to answer calls.

- **The power key ends calls:** Lets you can end voice calls by pressing the  **Power/Lock** key.
- **Easy touch mode:** Touch to stop or snooze alarms, calendar events, and timer alerts, and to accept or reject incoming calls.
- **Show shortcut:** Adds **Accessibility settings** and/or **TalkBack** to the **Device options** menu (displays when you press and hold the  **Power/Lock** key).
- **Manage accessibility:** Save and update your accessibility settings, or share them with another device.
 - **Export:** Save your accessibility settings in a file.
 - **Update:** Update your accessibility settings by importing the saved file.
 - **Share via:** Share your accessibility settings using Bluetooth, Dropbox, Drive, Email, Gmail, or Wi-Fi Direct.
 - **Android Beam:** Send your accessibility settings to another device using Android Beam and NFC.

TalkBack

- From the **Accessibility** screen, under **Services**, touch **TalkBack**.

When enabled, TalkBack reads aloud menu options, application titles, contacts, and other items when scrolling and making selections, according to the Settings values you select.

Vision

- From the **Accessibility** screen, under **Vision**, touch the check box next to each of the following options to enable it:
 - **Font size:** Set the font size for screen displays.
 - **Magnification gestures:** Touch **Magnification gestures**  to turn on triple-touch to zoom, triple-touch and hold to zoom temporarily, pan, and adjust zoom level gestures.
 - **Negative colors:** Reverses the colors on the screen.
 - **Color adjustment:**  to turn on and adjust screen colors for better readability.

- **Accessibility shortcut:** Touch **Accessibility shortcut**  to turn on quick access to the **Accessibility** settings, to make changes as you use the phone, by pressing and holding the  .
- **Text-to-speech options:** Select Preferred TTS engine, Speech rate, and Driving mode.

Hearing

- From the **Accessibility** screen, under **Hearing**, touch the check box next to each of the following options to enable it:
 - **Sound balance:** Lets you adjust media player sound balance when you are using a stereo headset or stereo headphones.
 - **Mono audio:** Delivers monophonic sound to support listening with a wired or Bluetooth headset with one earphone.
 - **Turn off all sounds:** Disables all sounds, including the voice portion of calls.
 - **Hearing aids:** Improves the sound quality of your device for use with hearing aids.

- **Flash notification:** The Camera flash blinks when you receive a notification.
- **Google subtitles (CC):** Touch **Google subtitles (CC)**  to turn on Language, Text size, and Caption style selections for Google subtitles.
- **Samsung subtitles (CC):** Touch **Samsung subtitles (CC)**  to turn on Alignment, Font, Size, Edge, Font, Background, and Caption window selections for Google subtitles.

Mobility

- From the **Accessibility** screen, under **Mobility**, touch the following options:
 - **Assistant menu:** Touch **Assistant menu**  to turn on options to change the Dominant hand setting and to Edit menu buttons.
 - **Press and hold delay:** Select the length of time the phone considers a screen touch before interpreting a touch as press-and-hold (Short, Medium, Long).

Recognition

- From the **Accessibility** screen, under **Recognition**, touch the following option:
 - **Interaction control**: Touch **Interaction control**  to let you enable/disable motions and/or screen time out, block touch interaction on screen areas while in an application, disable Auto-rotate and hard key functions. To launch **Interaction control**, press  **Home** and the **Volume down** key at the same time.

Language and Input

- From the **My device** screen, under **Input and control**, touch **Language and input**. The **Language and input** screen displays.

Language

Select the language used in your phone's screens.

- From the **Language and input** screen, touch **Language** to select the language used in your phone's screens.

Keyboards and Input Methods

Configure text entry options to your preferences.

Set the Default Keyboard

- From the **Language and input** screen, touch **Default** and choose a default input method: Samsung keyboard or Swype.

Samsung Keyboard Settings

- Touch  beside Samsung keypad to configure the following options:

- **Select input languages:** Select languages for the Samsung keyboard.

Tip: When you have more than one language selected, you can slide your finger on the space bar while entering text to switch languages.

Smart typing

- **Predictive text:** When enabled, T9 suggests words matching your text entries and optionally, complete common words automatically. Touch **Predictive text**  to turn on T9 predictive text. Touch **Predictive text** to configure the following 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.
 - **Learn from Facebook:** Log in to let your device learn from your Facebook entries.

- **Learn from Gmail:** Log in to let your device learn from your Gmail messages.
- **Learn from Twitter:** Log in to let your device learn from your “tweets”.
- **Learn from Messages:** Update to let your device learn from your message text entries.
- **Learn from Contacts:** Update to let your device learn from your Contacts style.
- **Clear remote data:** Remove your anonymous data from the personalization server.
- **Clear personal data:** Remove all the personal language data you have entered.
- **Privacy Policy:** Learn more about the personalized services used with Samsung Keyboard.
- **Auto replacement:** Complete or replace the word you are typing with the most probably word when you touch the space bar.
- **Auto-capitalization:** Automatically capitalize words based on common usage, such as at the beginning of sentences.

- **Auto spacing:** Automatically insert spaces between words.
- **Auto punctuate:** Automatically insert a full stop (period) when you touch the space bar twice.

Keyboard swipe

- **None:** Does not enable Keyboard swipe.
- **SwiftKey Flow:** Swipe between letters to type words without lifting your finger off the keyboard.
- **Cursor control:** Moves the cursor by sliding your finger across the keypad.

Key-tap feedback

- **Sound:** When enabled, a sound plays for your key touches.
- **Vibration:** When enabled, a vibration plays for your key touches.
- **Character preview:** Displays a preview of the current character selection in the text string. For example, when multiple characters are available for one key.

More settings

- **Help:** Displays help information for the Samsung keyboard, handwriting, handwriting gestures, and continuous input.
- **Reset settings:** Touch to reset Samsung keyboard settings to the defaults, except for My word list and the Auto substitution list.

Swype Keyboard Settings

- Touch  beside Swype to configure the following options:
 - **Settings:**
 - **Vibrate on keypress:** Vibrates when you touch a key.
 - **Sound on keypress:** Play a sound when you touch a key.
 - **Pop-up on keypress:** Display characters briefly as you touch keys.
 - **Long-press delay:** Set the time needed to select alternate characters.
 - **Show complete trace:** Display the trace of each word until you start the next word.

- **Auto-capitalization:** Automatically capitalize the first word of sentences.
- **Auto-spacing:** Automatically inserts space between words as you complete them.
- **Next word prediction:** Predict the next word based on the previous word.
- **Show Voice key:** Display a Voice input key on the Swype keyboard.
- **Themes:**
 - **Landscape keyboard:** Choose the size and position of the keyboard when the phone is landscape (on its side) orientation.
 - **Keyboard height:** Set the height of the keyboard for use in portrait and landscape orientations.
 - **Word choice list font size:** Choose the size font used for words that Swype offers during word prediction.
- **My Words:** Choose options for customizing Swype based on your text entries.
 - **Backup & Sync:** Use Swype Connect to back up your words.
 - **Living Language:** Automatically update Swype with popular new words.
 - **Social integration:** Log in to your favorite social networking sites to use your entries there to update Swype,
 - **Edit my dictionary:** Modify words added to Swype.
 - **Clear language data:** Delete all the words you've added to the Swype dictionary.
 - **Contribute usage data:** Allow Nuance to collect usage data to provide better text prediction.
 - **Cellular data:** Use your phone's connection to the wireless data network for updates, language downloads, and other Swype Connect features.
- **Languages:** Choose the current language for Swype, and download new languages to use with Swype.
- **Gestures:** Learn about shortcuts you can use on the keyboard to quickly accomplish common tasks.

- **Help:** Learn about using Swype.
 - **How to Swype:** Learn about using Swype.
 - **Show helpful tips:** Display tips on the screen as you enter text.
 - **Version:** View your Swype software version.
- **Updates:** Check for Swype software updates.

Google Voice Typing Settings

- Touch  beside Google voice typing to configure the following options:
 - **Choose input languages:** Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
 - **Block offensive words:** When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
 - **Offline speech recognition:** Enables voice input using Google voice typing while your phone is offline.

Speech

- From the **Language and input** screen, under **Speech**, the following options are available:
 - **Voice search:** Configure how **Voice search** reacts to your speech.
 - **Language:** Choose a language for voice searching.
 - **Speech output:** Choose whether Speech is Always available or available with Hands-free only.
 - **Block offensive words:** When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
 - **Hot word detection:** When enabled, say “Google” to launch voice search.
 - **Offline speech recognition:** Enables voice input while off-line.
 - **Personalized recognition:** Enable to have your device improve recognition based on your speech. Available when you have a Google account set up on your phone.

- **Google Account dashboard:** View and manage your collected data. Available when you have a Google account set up on your phone.
- **Bluetooth headset:** Records audio through a Bluetooth headset, when available.
- **Text-to-speech options:** Provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.
 - **Preferred TTS engine:** Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine**.
 - **Speech rate:** Choose a rate at which text readouts are spoken.
 - **Listen to an example:** Play a sample of speech synthesis.
 - **Default language status:** View the support status of your default language.

Mouse/Trackpad

Adjust the pointer speed of an external mouse or trackpad (not included).

- From the **Language and input** screen, under **Mouse/trackpad**, touch **Pointer speed**, then touch and drag along the scale to set the pointer speed.

Motions and Gestures

Motion lets you control a number of your phone's functions by moving your hand or finger across the screen in a particular pattern or by moving the phone itself in a particular way.

Note: For more information about using Motion, see “*Motions and Gestures*” on page 26.

1. From the **My device** screen, under **Input and control**, touch **Motions and gestures**. The following options are available (to set your phone's ability to recognize each gesture, touch the related slider ).
2. Touch **Air gesture** for these options:
 - **Learn about sensor and icon:** Provides helpful information about the air gesture sensor and the icon.
 - **Quick glance:** When set to on and the screen is off, you can reach toward your phone to receive a quick display of selected information (Time and Date, Notification icons, Missed calls, Unread messages, Battery power, and/or Current music info).

- **Air jump:** When set to on, you can “page through” a web page by sweeping your hand up or down near the screen.
 - **Air browse:** When set to on, you can display previous or next web pages by sweeping your hand left or right near the screen.
 - **Air move:** When set to on, you can move a shortcut from one Home screen panel to another by sweeping your hand left or right near the screen.
 - **Air call-accept:** When set to on, you can moving your hand first left and then right near the front of your phone. (You can also elect to have your phone answer calls in Speakerphone mode.
3. Touch **Motion** for these options:
 - **Direct call:** When enabled, you can lift the phone to your ear while viewing a contact to dial the contact's phone number.
 - **Smart alert:** When enabled, the phone will automatically notify you to missed calls and alerts that occurred while the phone was stationary.
 - **Zoom:** When enabled, tilting the phone while in Gallery or Internet causes the screen to zoom in or out.

- **Browse an image:** When enabled, moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Mute/pause:** When enabled, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds and pauses media playback.

4. Touch **Palm motion** for these options:

- **Capture screen:** When enabled, swiping your hand left or right across the display captures an image of the current screen.
- **Mute/pause:** When enabled, covering the screen with your hand pauses media while playing or mutes sounds playing on your phone.

Smart Screen

- From the **My device** screen, under **Input and control**, touch **Smart screen**. The following options are available:

- **Smart stay:** When enabled, this feature prevents screen timeout, if you are using the phone.

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

- **Smart rotation:** When enabled, this feature adjusts screen images to match your angle of sight.
- **Smart pause:** When enabled, this feature pauses video playback when it detects your face turning away from the screen.
- **Smart scroll:** When set to on, this feature detects your face with the front camera and scrolls web pages or email message content. By touching the Smart scroll tab, you can adjust the scrolling Speed, enable/disable Visual Feedback display, enable/disable Smart scrolling for web pages an/or for email messages content.

Air View

This feature lets you preview the contents or view information in pop-up windows by holding your finger above the screen.

You can scroll through panels or lists by moving your finger to an edge (top/bottom/left/right) of the screen.

1. From the **My device** screen, under **Input and control**, touch **Air view**  to turn the feature on.
2. Touch the **Air view** tab to access the following options:
 - **Information preview**: When set to on, you can preview extended text or enlarged images.
 - **Progress preview**: When set to on, you can preview a video scene or show elapsed time.
 - **Speed dial preview**: When set to on, you can preview Contact names assigned to Speed dial numbers by hovering over the Phone keypad keys.
 - **Webpage magnifier**: When set to on, you can view a portion of a web page magnified.
3. Under Additional feedback, touch **Sound and haptic feedback** to enable sound and vibration feedback when you hover your finger over areas of the display.

Voice Control

This feature lets you control selected features of your phone using just your voice.

1. From the **My device** screen, under **Input and control**, touch the **Voice control**  slider to turn on Voice control.
2. Touch the **Voice control** tab to enable/disable the following options:
 - **Incoming calls**: When enabled, you can answer or reject calls by saying “Answer” and “Reject”. Your phone will answer the calls in Speakerphone mode.
 - **ChatON**: When enabled, you can answer or reject ChatON calls by saying “Answer” and “Reject”. Your phone will answer the ChatON calls in Speakerphone mode.
 - **Alarm**: When enabled, you can stop an alarm or set it to snooze by saying “Stop” and “Snooze”.
 - **Camera**: When enabled, you can take pictures by saying “Smile”, “Cheese”, “Capture” and “Shoot”.
 - **Music**: When enabled, you can control the Music Player by saying “Next”, “Previous”, “Pause”, “Play”, “Volume Up”, and “Volume Down”.

ACCOUNTS SETTINGS

1. From the **Settings** screen, touch .

My Accounts

1. From the **Accounts** menu, touch **Add account** and choose an account type.
2. Follow the prompts to set up your account.

Backup Options

Cloud

- From the **Accounts** menu, under **Backup options**, touch **Cloud**. The **Cloud** screen displays. The following options are available:
 - **Personal data management:**
 - Touch **Add account** to sign in to your Samsung account, or create a new Samsung account. You can sync contacts, calendar events, memos, and Internet shortcuts. You can back up Logs, SMS and MMS messages, and current wallpaper settings.
 - **Link Dropbox account:** Link to your Dropbox account to sync your pictures, videos, and documents.

Backup and Reset

- From the **Accounts** menu, under **Backup options**, touch **Backup and reset**. The following options are available:
 - **Back up and restore:**
 - **Back up my data:** When enabled, backs up app data, Wi-Fi passwords, and other phone settings to the backup account server(s).
 - **Backup account:** Select or set-up an account your phone will use to backup your app data, Wi-Fi passwords, and other phone settings.
 - **Automatic restore:** When enabled, automatically restores app data, Wi-Fi passwords, and other phone settings from your automatic backup.
 - **Personal data:**
 - **Factory data reset:** Returns all settings to their default values, and removes all data (yours and apps) from the phone.

Important! Settings and data erased in a **Factory data reset** cannot be recovered. To save your settings, you can use **Back up my data** settings before a reset.

MORE SETTINGS

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

Location

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

GPS signals may be affected by your surroundings, including:

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

1. From the **More** menu, touch **Location**  to turn the **Location** option on.
2. Touch the **Location** tab. The **Location** screen displays. The following options are available:

- **Mode:** Select the preferred location option:
 - **High accuracy:** When selected, lets applications use GPS, Wi-Fi, and mobile networks to pinpoint your location.

Note: High accuracy must be enabled to use some applications. You can also enable or disable **GPS** from the Notifications shade. See “*Notifications Panel*” on page 33.

Important! By selecting **High accuracy**, you are allowing access to all location information by any third party through web access or any software or peripheral components you choose to install, download, add, or attach to the device or any other means.

- **Power saving:** When selected, lets applications use data from Wi-Fi and mobile networks to estimate your location.
- **GPS only:** When selected, lets applications use GPS to estimate your location.
- **Recent location requests:** Lists apps and functions that have recently requested your location.
- **Google Location Reporting:** Touch to access **Google location settings** (Location Reporting and Location History).
- **My places:** Save your favorite locations (**Home**, **Office**, and **Car**) for use with services that require location information.

Security

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

Encryption

As a security measure, you can encrypt the contents of your phone or an installed memory card, and require a password each time you turn on the phone or access the memory card. Encryption may take an hour or more to complete. Start with a charged battery, and attach the charger until encryption is complete. Loss of power or other interruption may cause the loss of some or all data.

Once your information is encrypted you will be prompted to enter your decryption password each time you turn your phone on.

- From the **Security** screen, under **Encryption**, touch the following options to encrypt your information:
 - **Encrypt device:** Touch this option to encrypt accounts, settings, downloaded applications and data, media files, and more under a password you specify.

- **Encrypt external SD card:** Touch this option to encrypt selected information stored on an optional microSD memory card (not included) under a password you specify. The following additional **Encryption settings** are available:
 - **Encrypt:** When enabled, new files on the memory card will be encrypted as they are added.
 - **Full encryption:** When enabled, all files on the memory card will be encrypted.
 - **Exclude multimedia files:** When enabled, multimedia files on the memory card will not be encrypted.

Passwords

Display password characters briefly as you enter them.

- From the **Security** screen, under **Passwords**, touch **Make passwords visible**. When enabled, briefly displays password characters as you enter them.

Device Administration

View or disable device administrators. Some applications, such as corporate Email, may require you allow access to your device by device administrators in certain circumstances, such as if your phone is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the phone is restored to factory settings.
- Automatically locking the phone.
- Restoring factory settings on the phone.
 - From the **Security** screen, under **Device administration**, touch the following options to enable/disable them:
 - **Device administrators:** View, add, or remove device administrators.

- **Unknown sources:** When enabled, you can install applications from sources other than Google Play®.

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

- **Verify apps:** When enabled, you are blocked or warned before installing apps that may harm your phone's firmware, software, and/or data.
- **Change security level:** Select **High** or **Normal (default)**.

Security Update Service

When you activate this feature, your phone will automatically check for changes to the security policy and download any updates to improve service.

1. From the **Security** screen, under **Security update service**, touch the following options to activate the feature:
 - **Security policy updates:** Touch to access the following options:
 - **Automatic updates:** When enabled, automatically checks for changes to the security policy and downloads any updates to improve security and service.
 - **Preferred networks:** Select **Wi-Fi or mobile networks** to ensure your phone automatically downloads security updates where ever you are. Select **Wi-Fi networks only** to ensure your phone automatically downloads security updates only when your device is connected to a Wi-Fi network.
2. To manually check for and download available security updates, under **Manual updates**, touch **Check for updates**.

Credential Storage

You can install credentials with an application, from device storage, or from an installed memory card, and use the **Credential storage** settings to allow applications to access the secure certificates and other credentials.

- From the **Security** screen, under **Credential storage**, touch the following options to enable/disable them.
 - **Storage type**: Indicates the storage (hardware or memory card) where security credentials are backed up.
 - **Trusted credentials**: View, enable, or disable trusted CA certificates.
 - **Install from device storage**: Install encrypted certificates from an installed memory card.

Note: To use this feature, you must first install a memory card containing encrypted certificates.

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

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

Application Manager

You can download and install applications from the Google Play Store, 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 **More** menu, under **System manager**, touch **Application manager**. The **Application manager** screen displays.
2. Touch **DOWNLOADED**, **SD CARD**, **RUNNING**, or **ALL** to list the statuses of applications and services. The graph at the bottom of the **DOWNLOADED** tab displays used and free Device memory. The **SD CARD** tab displays used and free SD CARD memory. The graph at the bottom of the **RUNNING** tab shows used and free RAM.

Default Applications

Select default settings for the Home screen and for messaging.

1. From the **More** menu, under **System manager**, touch **Default applications**. The **Default applications** screen displays.
2. To select the default Home screen format, under **Set defaults**, touch **Home**. The **Change home** screen displays. Select one of the following options:
 - **TouchWiz easy home**
 - **TouchWiz home**For more information, refer to “*Home Screen Mode*” on page 157.
3. To select the default messaging app, under **Set defaults**, touch **Message**. Select one of the following apps:
 - **Messaging**: For more information, refer to “*Text and Multimedia Messaging*” on page 75.
 - **Hangouts**: For more information, refer to “*Hangouts*” on page 83.

Battery

See how much battery power is being used by device activities.

1. From the **More** menu, under **System manager**, touch **Battery**. The **Battery** screen displays.
2. View battery usage for applications and services currently running.

The battery level displays in percentage. The amount of time the battery was used also displays. Battery usage displays in percentages per application.
3. Touch **Screen**, **Android OS**, **Android System**, or any other listed feature or application to view how it is affecting battery use.

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

4. Touch **Show battery percentage** to display the percentage on the battery status indicator.

Storage

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

1. From the **More** menu, under **System manager**, touch **Storage**. The **Storage** screen displays. The following options are available:

- **Device memory:** View usage for, and manage, your phone's internal memory (For detailed information and to manage storage in use, touch any item except **Total space** or **Available space**.):
 - **Total space:** Shows the total device memory.
 - **System memory:** Displays the minimum amount of storage space required to run the system.
 - **Used space:** Displays the amount of storage space currently being used.
 - **Cached data:** Displays the amount of cached data in MB.
 - **Miscellaneous files:** Displays the total device memory currently used to store various application data and system data files.
 - **Available space:** Displays the total device memory available for use.

- **SD card:** View usage for, and manage, storage space on an optional memory card.
 - **Mount SD Card:** Displays when the SD card is not inserted or mounted.
 - **Total space:** Displays the total card memory.
 - **Available space:** Displays the total card memory available for use.
 - **Unmount SD card:** Deactivates the memory card so that you can safely remove it or format it. For more information, see *"Installing and Removing a Memory Card"* on page 138.
 - **Format SD card:** Deletes all data from the memory card, including music, videos, and photos. For more information, see *"Formatting a Memory Card"* on page 138.

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.

- From the **More** menu, under **System manager**, touch **Date and time**. The **Date and time** screen displays.
- 2. Touch a setting to configure:
 - **Automatic date and time**: When enabled, the phone takes date and time updates from the wireless network (disables Set date, Set time, and Select time zone).
 - **Set date**: Enter the current date (only available when Automatic date and time is disabled).
 - **Set time**: Enter the current time (only available when Automatic date and time is disabled).
 - **Automatic time zone**: When enabled, the phone uses the network-provided time zone.
 - **Select time zone**: Choose your local time zone (only available when Automatic date and time is disabled).
 - **Use 24-hour format**: 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.

- From the **More** menu, under **System manager**, touch **About device**. The **About device** menu displays.

Software Update

Software Update lets your phone connect to the network and download any new phone software directly to your phone. The phone automatically updates with the latest available software when you access this option.

1. From the **About device** menu, touch **Software update**. You are prompted to select your current country.
2. Select a Country, then touch **OK**. A Terms and Conditions screen displays.
3. To proceed to Software Update, touch **I accept all the terms above**, then touch **Confirm**. Your device registers itself with your Wireless Provider's Software Update service, connects with your Wireless Provider's server, and scans for software updates.

Important! When roaming outside the US Dialing Plan, you can only download updates over a Wi-Fi network.

4. At the **Software update** prompt, touch **OK** to continue.
5. The phone automatically updates the software (if available), otherwise, when the **The latest updates have already been installed** prompt is displayed, touch **OK**.
6. When updating software, once the update file is downloaded, you can delay the update on the start screen by postponing it for a certain period of time. If you want to resume the update before the selected time, touch **Continue update**.

Details

- Touch options to view details:
 - **Status:** View Battery status, Battery level, Network, Signal strength, Mobile network type, Service state, Roaming, Mobile network state, My phone number, MIN, PRL version, MEID, IMEI, ICCID, IP address, Wi-Fi MAC address, Bluetooth address, Up time, and Device status.

- **Legal information:** Display open source licenses, Google legal information, and license settings.
- **Device name:** View and/or change the device name you assigned to your device during initial set-up.
- **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 on your phone.
- **Secure boot status:** View the boot status type on your phone.
- **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.

- Reduce the amount of time spent using your cell phone;
- Use speaker mode or a headset to place more distance between your head and the cell phone.

Hands-Free Kits

Hands-free kits may include audio or Bluetooth® headsets and various types of body-worn accessories such as belt-clips and holsters. Combinations of these can be used to reduce RF energy absorption from cell phones.

Headsets can substantially reduce exposure because the phone is held away from the head in the user's hand or in approved body-worn accessories. Cell phones marketed in the U.S. are required to meet RF exposure compliance requirements when used against the head and against the body.

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used for convenience and comfort. They are also required by law in many states if you want to use your phone while driving.

Cell Phone Accessories that Claim to Shield the Head from RF Radiation

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that accessories which claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike “hands-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption.

Children and Cell Phones

The scientific evidence does not show a danger to any users of cell phones from RF exposure, including children and teenagers. The steps adults can take to reduce RF exposure apply to children and teenagers as well.

- Reduce the amount of time spent on the cell phone;
- Use speaker mode or a headset to place more distance between the head and the cell phone.

Some groups sponsored by other national governments have advised that children be discouraged from using cell phones at all. For example, The Stewart Report from the United Kingdom made such a recommendation in December 2000. In this report, a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. Their recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (updated 10/1/2010):

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>.

- Environmental Protection Agency (EPA):
<http://www.epa.gov/radtown/wireless-tech.html>.
- Occupational Safety and Health Administration (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/>.
(Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/>.
- World Health Organization (WHO):
<http://www.who.int/peh-emf/en/>.
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>.
- Health Protection Agency:
<http://www.hpa.org.uk/Topics/Radiation/>.
- US Food and Drug Administration:
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>.

Specific Absorption Rate (SAR) Certification Information

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for Radio Frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These FCC RF exposure limits are derived from the recommendations of two expert organizations: the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The RF exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC SAR limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum reported value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone. Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the SAR limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body-worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. This mobile phone has a FCC ID number: A3LSCHR970 [Model Number: SCH-R970] and the specific SAR levels for this mobile phone can be found at the following FCC website:

<http://www.fcc.gov/oet/ea/>.

The SAR information for this device can also be found on Samsung's website:

<http://www.samsung.com/sar>.

SAR information on this and other model phones can be accessed online on the FCC's website through <http://transition.fcc.gov/oet/rfsafety/sar.html>. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional

SAR information can also be obtained at

<http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones>.

FCC Part 15 Information to User

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by Samsung could void your authority to operate the device.

This device complies with part 15 of the FCC Rules.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

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

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

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

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

Commercial Mobile Alerting System (CMAS)

This device is designed to receive wireless emergency alerts from the Commercial Mobile Alerting System ("CMAS"; which may also be known as the Personal Localized Alerting Network ("PLAN")). If your wireless provider has chosen to participate in CMAS/PLAN, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

Smart Practices While Driving

On the Road - Off the Phone

The primary responsibility of every driver is the safe operation of his or her vehicle.

Responsible drivers understand that no secondary task should be performed while driving whether it be eating, drinking, talking to passengers, or talking on a mobile phone - unless the driver has assessed the driving conditions and is confident that the secondary task will not interfere with their primary responsibility. **Do not engage in any activity while driving a moving vehicle which may cause you to take your eyes off the road or become so absorbed in the activity that your ability to concentrate on the act of driving becomes impaired.** Samsung is committed to promoting responsible driving and giving drivers the tools they need to understand and address distractions.

Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. For example, only hands-free use may be permitted in certain areas.

Before answering calls, consider your circumstances. Let the call go to voicemail when driving conditions require.

Remember, driving comes first, not the call!

If you consider a call necessary and appropriate, follow these tips:

- Use a hands-free device;
- Secure your phone within easy reach;
- Place calls when you are not moving;
- Plan calls when your car will be stationary;
- Do not engage in stressful or emotional conversations;
- Let the person with whom you are speaking know that you are driving and will suspend the call if necessary;
- Do not take notes or look up phone numbers while driving;

Notice regarding legal restrictions on mounting this device in an automobile:

Laws in some states may prohibit mounting this device on or near the windshield of an automobile. In other states, the law may permit mounting this device only in specific locations in the automobile. Be sure to consult the state and local laws or ordinances where you drive before mounting this device in an automobile. Failure to comply with these restrictions could result in fines, penalties, or other damages.

Never mount this device in a manner that will obstruct the driver's clear view of the street and traffic.

Never use wireless data services such as text messaging, Web browsing, or e-mail while operating a vehicle.

Never watch videos, such as a movie or clip, or play video games while operating a vehicle.

For more information, go to <http://www.ctia.org>.

Battery Use and Safety

Important! Handle and store batteries properly to avoid injury or damage. Most battery issues arise from improper handling of batteries and, particularly, from the continued use of damaged batteries.

- **Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.** Do not put a high degree of pressure on the battery. This can cause leakage or an internal short-circuit, resulting in overheating.

- **Do not let the phone or battery come in contact with liquids.**

Liquids can get into the phone's circuits, leading to corrosion. Even when the phone appears to be dry and appears to operate normally, the circuitry could slowly corrode and pose a safety hazard. If the phone and/or battery get wet, have them checked by your service provider or contact Samsung, even if they appear to be working properly.

- **Do not place your battery in or near a heat source.** Excessive heating can damage the phone or the battery and could cause the phone or the battery to explode. Do not dry a wet or damp battery with an appliance or heat source such as a microwave oven, hair dryer, iron, or radiator. Avoid leaving your phone in your car in high temperatures.

- **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

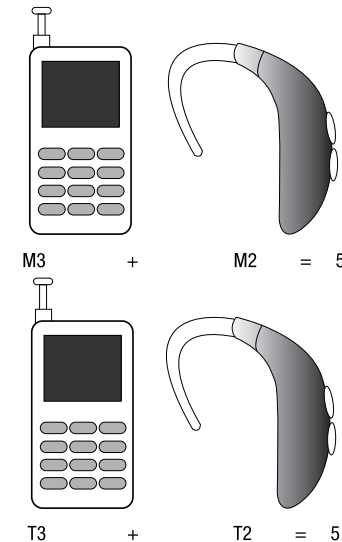
is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

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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This device requires the use of preloaded software in its normal operation. BY USING THE DEVICE OR ITS PRELOADED SOFTWARE, YOU ACCEPT THE TERMS OF THIS EULA. IF YOU DO NOT ACCEPT THESE TERMS, **DO NOT USE** THE DEVICE OR THE SOFTWARE.

1. **GRANT OF LICENSE.** Samsung grants you the following rights provided that you comply with all terms and conditions of this EULA: You may install, use, access, display and run one copy of the Software on the local hard disk(s) or other permanent storage media of one computer and use the Software on a single computer or a mobile device at a time, and you may not make the Software available over a network where it could be used by multiple computers at the same time. You may make one copy of the Software in machine readable form for backup purposes only; provided that the backup copy must include all copyright or other proprietary notices contained on the original.

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services or technologies to you and will not disclose this information in a form that personally identifies you. At all times your information will be treated in accordance with Samsung's Privacy Policy, which can be viewed at: <http://account.samsung.com/membership/pp>.

5. SOFTWARE UPDATES. Samsung may provide to you or make available to you updates, upgrades, supplements and add-on components (if any) of the Software, including bug fixes, service upgrades (parts or whole), products or devices, and updates and enhancements to any software for security previously installed (including entirely new versions), (collectively "Update") after the date you obtain your initial copy of the Software related to security to improve such Software and ultimately enhance your user experience with your device. This EULA applies to all and any component of the Update that Samsung may provide to you or make available to you after the date you obtain your initial copy of the Software related to security, unless we provide other terms along with such Update. To use Software related to security provided through Update, you must first be licensed for the Software identified by Samsung as eligible for the Update. After the Update, you may no longer use the

Software that formed the basis for your Update eligibility. The updated Software version may add new functions and, in some limited cases, may delete existing functions.

While the Update will be generally available, in some limited circumstances, the Software updates will only be offered by your network carrier, and such Software updates will be governed by your contractual relationship with your network carrier.

With the “Automatic Update” function enabled (as in the default setting in the System Update menu or Security menu in the Setting), your device downloads some Updates automatically from time to time. Given the importance of receiving Updates for security software in a timely manner to defend against new threats, such Update may be automatically downloaded and installed. We recommend that you check availability of any new Updates periodically for optimal use of your device. If you want to avoid any use of network data for the Update downloads, then you should choose the “Wi-Fi Only” option in the Setting.

6. Some features of the Software may require your device to have access to the internet and may be subject to restrictions imposed by your network or internet provider. Unless your device is connected to the internet through Wi-Fi

connection, the Software will access through your mobile network, which may result in additional charges depending on your payment plan. In addition, your enjoyment of some features of the Software may be affected by the suitability and performance of your device hardware or data access.

7. SOFTWARE TRANSFER. You may not transfer this EULA or the rights to the Software granted herein to any third party unless it is in connection with the sale of the mobile device which the Software accompanied. In such event, the transfer must include all of the Software (including all component parts, the media and printed materials, any upgrades, this EULA) and you may not retain any copies of the Software. The transfer may not be an indirect transfer, such as a consignment. Prior to the transfer, the end user receiving the Software must agree to all the EULA terms.

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