

# SCH-R880

P O R T A B L E   D U A L - B A N D  
M O B I L E   P H O N E

User Manual

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



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## Section 1: Getting Started

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This section explains how to start using your SCH-R880 phone by activating your service, setting up your Voicemail, or getting an understanding of how this manual is put together.

### Understanding this User Manual

The sections of this manual are organized according to what you are likely to want to do with your R880 phone, such as, messaging, setting up and using a list of phone numbers (Contacts), or taking pictures and recording videos. A robust index for quick reference to most features is also provided, beginning on page 102.

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 74.

### Notes and Tips

Throughout this manual some text is set apart from the rest. In this way, important information, quick methods for activating features or applications, to define terms, and more are emphasized. The definitions for these methods are as follows:

- **Notes** — Explain alternative options within the current feature, menu, or sub-menu.

- **Tips** — Provide quick or innovative methods for performing functions related to the subject at hand.
- **Important** — Points out information about the current feature that could affect its performance, or even the performance of your phone.
- **Caution** — Alerts you to actions or conditions that can hamper your phone's operation or damage data or files stored on your phone.
- **Warning** — Alerts you to actions or conditions that can damage your phone or it's accessories, causing them not to function.

### Text Conventions

This manual provides condensed information about how to use your phone. To make this possible, the following terms and icon appear in place of repeatedly-used procedural steps:

- select** Touch a widget, icon, or menu option to launch, access, or save a particular application, menu, or screen field of interest.
- Used in place of “select” in long “drill down” procedure steps.

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**Example:** “...Settings → Call Settings → Auto Answer...”

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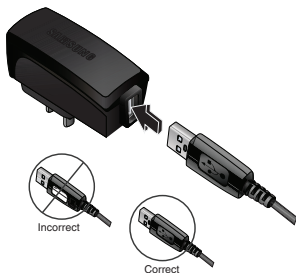
## Charging the Battery

Your phone is powered by a rechargeable standard Li-Ion battery. Only use Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. **Use of other accessories may invalidate your warranty and may cause damage.**

### Use the Travel Adapter

The travel adapter included with your phone is a convenient, light-weight charger that rapidly charges your phone from any 120/220 VAC outlet.

1. Plug the Travel Adapter into a standard 120 VAC or 220 VAC wall outlet.



2. If needed, install the battery in the phone. (For more information, refer to *"Install the Battery"* .)
3. Insert the smaller end of the Travel Adapter into the charger/accessory connector on the upper right side of your phone.

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**Warning!** Your touch screen responds best to a light touch from the pad of your finger. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty (see *"Warranty Information"* on page 94).

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**Important!** For connection to an electrical supply not located in North America, you must use an adaptor of the proper configuration for the power outlet. Use of the wrong adaptor could damage your phone and void your warranty.

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
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**Important!** You must unplug the adapter before removing the battery from the phone during charging to avoid damage.

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## Low battery indicator

The battery indicator (  ) in the upper-right side of the display indicates power level. Monitor the battery strength and ensure your battery is adequately charged.

- Five bars (  ) indicate a full charge.
- An low battery icon (  ) indicates a near empty battery.
- A blinking empty battery icon (  ) and a tone sounding indicate you have two to three minutes before the battery is too low to operate the phone.

If you continue to use your phone without charging its battery, the phone will shut down.

## Activating Your Phone

Contact your Wireless Carrier and follow their instructions for obtaining service, if necessary. We suggest that you read this guide to fully understand the services your phone supports.

## Install the Battery

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**Note:** Your phone comes packaged with a partially charged rechargeable standard Li-Ion battery and travel adapter.

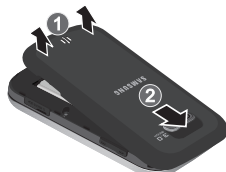
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**Important!:** You must fully charge the battery the first time you use your phone, otherwise you could damage the battery. From fully discharged to fully charged, the battery requires up to 4 hours of charge time.

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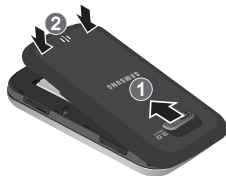
1. If needed, lay the phone face down. Then, pry and lift the bottom end of the battery cover (1) away from the phone (2).



2. First, insert the top end of the battery (1), matching the gold contacts on the battery to those on the inside of the phone.



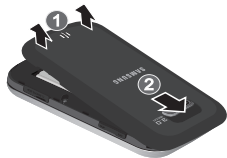
3. Press lightly on the bottom end of the battery (2) down into the phone until it slips into place.
4. Place the battery cover over the battery (1) and press the battery cover down into place (2).



## Remove the Battery

1. Press and hold the End key (  ) to turn off the phone (if on).

1. If needed, lay the phone face down. Then, press downward on the battery cover (1) and slide it until you feel a stop, then lift the cover away from the phone (2).
2. Lift the bottom end of the battery up (1) and away (2) from the phone.



### Turn Your Phone On

1. Press and hold the Power-Lock key on the top right of the phone.




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**Note:** As with any other radio-transmitting device, do not touch the phone near the antenna (at the bottom of the device) while using your phone as this can affect call quality and can cause the phone to operate at a higher power level than is necessary.

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2. The phone begins searching for a network signal.


3. Once the phone finds a signal, the time, date, and day appear in the second line of the display.
4. You're now ready to place and receive calls.

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**Note:** If you are outside of your carrier's coverage or roaming area, the No Service icon (  ) appears at the top of the phone's display. If you cannot place or receive calls, try later when service is available, or at another location.

---

### Turn Your Phone Off

1. With your phone on and unlocked, press and hold the End key (  ), on the top right of the phone, for two or more seconds. The **Phone options** menu pops-up in the display. (For more information, refer to "Lock Mode" on page 17.)
2. Touch **Power off**. You are prompted to confirm that you want to power off your phone.
3. Touch **Yes**. Your phone powers off.

---

**Note:** If your phone is on and you press  for less than one second, the phone will not power off. This prevents your phone from being turned off accidentally.

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### Performing a Manual Hard Reset

Should your phone become unresponsive during operation, you can perform a Manual Hard Reset.

- Press and hold the **Volume Up** key + **Camera** key (  ) + **Power-Lock** key (  ).

## Setting Up Your Voicemail



Voicemail allows callers to leave voice messages, which can be retrieved any time.

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**Note:** Once your Voicemail account has been set up, you can use the Voicemail folder (under the Message menu) to view details of voice messages in your Voicemail box.

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### To dial Voicemail:

1. From the Home screen, touch the **Phone** icon (  ). The **Phone** screen appears in the display.
2. Touch and hold **1** or dial your own mobile number and press the Send key (  ). (For more information, refer to “Manual Digit Dialing” on page 23.)
3. Follow the prompts in the new user tutorial to setup your voice mail box.

### Listen to Voicemail

1. From the Home screen, touch the **Phone** icon (  ).
2. Touch and hold **1** [or dial your own mobile number and press the Send key (  )]. (For more information, refer to “Manual Digit Dialing” on page 23.)
3. You are prompted to enter your password.

4. Follow the prompts in to listen to the voice messages in your voice mail box.

## Memory Card

A 4 GB microSD™ Memory Card is packed with your R880 phone. It provides additional memory for storing files (such as, music/sound files and photos/videos). You can install optional microSDHC™ cards (up to 32 GB).

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**Note:** Using the Music Player requires that you first install a Memory Card.

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**Tip:** Memory Cards with a storage capacity of over 32 GB will not work with this phone.

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### Install a Memory Card

1. Remove the memory card cover.



2. Make sure that the gold contacts of the card are face down, as shown, then carefully press the memory card into the memory card slot until you feel the card click into place, then slowly release pressure on it.
- 

**Tip:** Memory Cards written to and/or formatted by other devices are likely to slow your phone's response to commands and produce other unwanted results. To avoid such problems, format a used microSD Memory Card after inserting it in your handset. (For more information, refer to *"Format SD card"* on page 69.)

---

3. Replace the memory card cover.

### **Remove a Memory Card**

1. Unmount the memory card. (For more information, refer to *"Unmount SD card"* on page 69.)
2. Remove the memory card cover.
3. Press the memory further into the memory card slot until a slight click indicates the retaining lock has released the card.
4. Carefully release pressure on the card. It should slide out a bit from the memory card slot.
5. Remove the memory card.
6. If desired, install another memory card. (For more information, refer to *"Install a Memory Card"* on page 8.)
7. Replace the memory card cover.

## Section 2: Understanding Your Phone

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This section outlines some key features of your phone. It also describes the screen format and the icons that will be displayed when the phone is in use.

### Features of Your Phone

- Full-screen Touch Screen [high-resolution (320 x480 pixels), color]
- Three-page Home screen, simplified main menu, and separate Applications menu
- Motion and position sensitivity
- Full-HTML Browser
- Messaging (Text, Picture, Video, and Email) with slide-out and virtual QWERTY Keypads
- 3.2 Megapixel wide screen Camera-Camcorder
- High speed data (EVDO)
- Bluetooth® Stereo (v2.0) Wireless Technology (see Note)
- Global Positioning (GPS) Technology
- Voice and Touch Keypad Dial
- Music (MP3) Player and Video (MP4) Player
- Memory Card slot [for the included 4 GB microSDHC™ card or optional microSD™ or microSDHC™ cards (up to 32 GB)]

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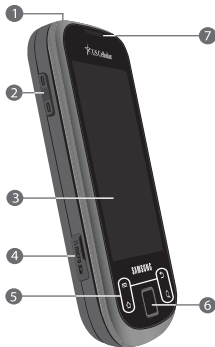
**Note:** The R880™ phone supports the wireless hands-free profile and the serial port profile for Bluetooth® v2.0 wireless technology. The R880™ does not support Bluetooth OBEX profiles.

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### Side Views of Your Phone





#### Features

1. **Headset Connector** — Used to connect an optional wired headset or TTY device to your phone.
2. **Volume Key** — From the Home screen, lets you adjust the Ringer Volume, adjust the voice volume during a call, or mute the ringer during an incoming call.
3. **Display** — Indicates the status of your phone (including numbers dialed, feature and function screens, status icons, message indicators and contents, signal strength, and so on) and shows all touch controls (hot buttons, keypads, and menus).



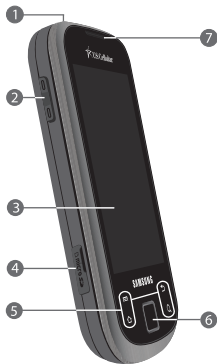
4. **microSD Card Slot** — Lets you install a microSD card for music storage and additional multimedia storage.

5. **Special Function Touch Keys** — These touch keys have the following special functions:

-  — **Menu** — Launches an options menu at the bottom of the screen.
-  — **Home** — Returns you to the Home screen.
-  — **Back** — Returns you to the previous screen.
-  — **Search** — Launches the **Quick Search Box** and virtual QWERTY keypad.

6. **Touch Pad / OK Key** — Touch and slide to highlight icons, widgets, screen items or menu items. Press to accept the highlighted choice.

7. **Earpiece / Speaker** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.

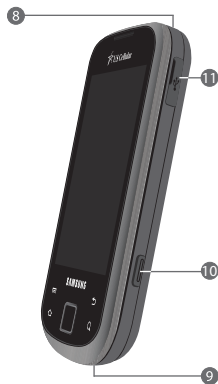


8. **End / Lock / Power On/Off Key** — Press and hold to power the phone on or off. During a call, press to end the call. From the Home screen, press to manually lock the keys and touch screen on your phone. With the phone locked, press to show the Lock Screen.

9. **Microphone** — Lets the other caller hear you clearly when you are speaking to them.

10. **Camera Key** — Launches the Camera-Camcorder feature of your phone and takes pictures or records videos. (For more information, refer to “Camera-Camcorder” on page 45.)

11. **Power / USB Connector** — Used to connect charging accessories or any available USB cables to your phone.



## Open View (Front) of Your Phone



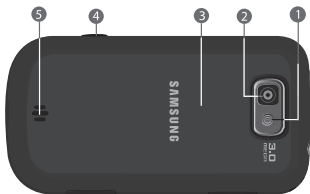
### Features

- 1. Display** — Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators, signal strength, and so on. The Display automatically rotates when you slide open the QWERTY keypad.
- 2. Sym / Smiley Key** — Launches the Symbols pop-up for entering symbols not assigned to keypad keys.
- 3. Shift / Messaging Key** — Touch to toggle capitalization between **ABC**, **Abc**, and **abc**.
- 4. fn Key** — Function Key — Toggles the QWERTY keypad keys between their default characters/functions and their alternate symbols/functions.
  - **Sym / smiley Key** — Touching **fn - Sym** launches the pop-up **Insert smiley** menu.
  - **Shift / Messaging Key** — Touching **fn - Shift** launches the **Messaging** menu.
- 5. Space-Speakerphone Key** — Inserts a space character in a text entry. During a call, press and hold to enable the Speakerphone feature.
- 6. Arrow (Navigation) Keys** — Left and Right and Up and Down arrow keys let you move through text, highlight icons, menu options, and screen fields.
- 7. OK Key** — Selects a highlighted icon, shortcut, or menu option.
- 8. Next Line Key** — In text entry mode, moves the cursor to a fresh, blank line.
- 9. Clear Key** — Deletes characters from the display when you are in text entry mode.

## Closed Rear View of Your Phone

### Features

1. **Flash** — Lets you take photos in low light conditions.
2. **Camera Lens** — The lens of your built-in camera.
3. **Battery Cover** — Lets you access your phone's battery slot.
4. **Camera Key** — Launches the Camera-Camcorder feature of your phone and takes pictures or records videos. (For more information, refer to "Camera-Camcorder" on page 45.)
5. **Speaker Grill** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.



## Understanding the Display Screen

### Portrait Mode

With the QWERTY keypad closed and with the phone in its upright position, the display defaults to Portrait mode.

1. This portion of the top line of your phone's display contains icons that indicate conditions with notifications.
2. This is the Clock Widget that shows you the current time.
3. The center portion of the display shows Shortcuts and Widgets and information such as call progress information, messages, and photos.
4. This is the Apps tab. Touch it to open the Apps menu.
5. This portion of the top line of your phone's display contains icons that indicate network status, battery power, signal strength, connection type, and more.





## Landscape Mode

With the QWERTY keypad open, the display rotates automatically from Portrait mode (as shown above) to Landscape mode (as shown here).



**Note:** You can also rotate many of the screens that appear in the display from Portrait mode to Landscape mode, without opening the QWERTY keypad, by rotating the phone.

## Display Screen Icons

The following icons can appear on the top line of the screen:



**Activation Not Completed** — Your automatic device activation process failed, please retry.



**New Message** — A new (text / picture / video) message is available.



**No Service** — Your device cannot find a usable signal.



**Airplane Mode On** — Your device will not make or receive calls, or provide data access. Local applications are still available.



**Signal Strength** — Shows your current signal strength. (More bars = stronger signal.)



**Roaming** — Your device is “roaming” outside your home service area.



**1xRTT Data** — 1xRTT data service is active.



**EVDO Data** — EVDO data service is active.



**Call in Progress** — A voice call is in progress.



**Battery Strength** — Shows battery is fully charged.



**Battery Strength** — Shows battery charge is low.



**Battery Charging** — Shows your current battery charge level and indicates it is charging.



**Bluetooth Active** — Bluetooth technology is active and enabled.



**Bluetooth Connected** — Bluetooth technology is active and communicating with an external device.

### ***Changing the Screen Orientation***

The R880 can automatically change the orientation of some screens. The R880's built-in accelerometer senses movement and changes a screen's orientation from portrait to landscape.

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**Note:** Some screens, especially those for applications and games, do not respond to the accelerometer.

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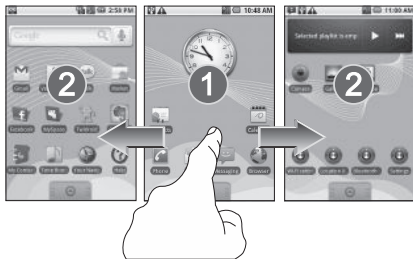
**Tip:** Most screens change orientation when you open the QWERTY keypad,

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## Home Screen Panels

The Home screen has three panels. The Center panel appears when you press the Home key (  ).




To access the Left panel, swipe across the Home screen, left to right.

To access the Right panel, swipe across the Home screen, right to left.

## Your Phone's Modes

### Talk Mode

You can place and receive calls only when your phone is on. While in a call, your phone is in talk mode. Touch  to display a list of menu options.

## Input Mode

Input mode determines how you enter text, numbers, and symbols with any of the following three QWERTY keypads:

- Sliding keypad




- Virtual keypad, landscape



- Virtual keypad, portrait



Optional input modes are:


- **ABC** — Lets you enter lower-case letters (abc), initial capital letters (Abc), or all upper-case letters (ABC). To toggle between these entry options, press the Shift (  ) key.
- **?123** — Lets you enter numbers and punctuation characters.

- **Speech-to-Text** — Lets you enter words and characters by speaking them into your phone's microphone.
- **Smiley** — Lets you enter “smiley” characters (emoticons) by touching shortcut buttons.
- **ALT** — Lets you enter mathematic, currency, and other special symbols.

## Lock Mode

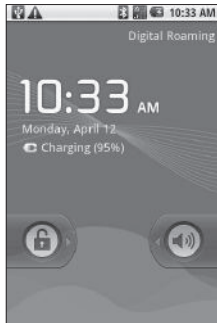
When the phone is in Lock Mode, restrictions are placed on phone use. You can receive calls and messages, but cannot place outgoing calls (except for emergency numbers) until you unlock the phone. Lock Mode also restricts access to menus and the Volume key.

### To enter Lock Mode:

- ▶ In Standby mode, touch . The screen goes dark.

### To exit Lock Mode:



- ▶ While in Lock mode, press . The Lock mode screen appears in the display. Touch and slide the unlock icon to



unlock your phone.



## Standby Mode

Standby mode is the state of the phone once it has found service and is idle. The phone goes into Standby mode:

- After you power the phone on.
- When you press  after a call or press  from within a menu.

In Standby mode, you will see the Home screen, showing the time and phone status icons.


### Place Calls in Standby Mode

1. From the Home screen center panel, touch . enter a phone number, and press  to place a call.
2. Press  to return to Standby mode.

### Receive Messages in Standby Mode

While your phone is in Standby mode, new incoming messages automatically appear in the screen as they are received. Touch and slide the display Up or Down to scroll through text or to view complete images.

### Adjust the Ringer



To adjust the Ringer volume, while in Standby mode, press the Volume key() Up or Down.

---

**Note:** The Volume key is on the left side of phone.



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## Vibrate Mode

- ▶ From the Home screen, repeatedly press the Volume key (  ) Down until the “Vibrate only” icon (  ) appears in the display.

## Silent Mode

Silences the ringers, the alerts, and the tones your keypad makes when you press a key.

- ▶ From the Home screen, repeatedly press the Volume key (  ) Down until the “Silence All” icon (  ) appears in the display.

## Music Player Mode



The Music Player in your phone can play music files (MP3, CMX, Midi, AAC, AAC+, and eAAC+), but only if they are stored in the My Music folder on an optional microSD Memory Card.

---

**Note:** For more information, refer to “Memory Card” on page 8.

---

### • Entering Music Player Mode:

- ▶ From the Home screen, display the Applications menu by touching  at the bottom of the display, then touch .

---

**Note:** For more information, refer to “Playing Music and Videos” on page 52.

---




- **Exiting Music Player Mode** — Touch .



## Camera Mode

Camera mode lets you take pictures with your phone’s camera. In Camera mode, you can also adjust the resolution and appearance of your pictures.

For more information, refer to “Camera–Camcorder” on page 45.

### • Entering Camera Mode:

- From the Home screen, press and hold the Camera key (  ) — on the right side of the phone.
- From the Home screen, touch the Applications tab (at the bottom of the screen), then touch .
- In Camcorder mode, touch and slide the Camera–Camcorder mode switch to Camera (  ).



- **Exiting Camera Mode** — Touch  or .

## Camcorder Mode




Camcorder mode lets you record videos with your phone’s camera. In Camcorder mode, you can also adjust the resolution and appearance of your videos.

For more information, refer to “Camera–Camcorder” on page 45.

### • Entering Camcorder Mode:

– From the Home screen, press and hold the Camera key () — on the right side of the phone — then, touch and slide the Camera-Camcorder mode to Camcorder () .

– or –

From the Home screen, touch  → **Camera** () — then touch and slide the Camera-Camcorder mode switch to Camcorder () .

• **Exiting Camcorder Mode** — Touch  or .

### Video Player Mode



The Video Player in your phone can play video files [3GS, MP4, H.263, and H.264 (Decoding: QCIF Only)], but only if they are stored in the My Video folder in the phone or on an optional microSD Memory Card.

---

**Note:** For more information, refer to “Memory Card” on page 8.

---

### • Entering Video Player Mode:

1. From the Home screen, touch  → **Gallery** () .

– or –

In camcorder mode, touch  → **Gallery**.

The Gallery screen appears containing a list of thumbnail images of photos.

2. Select the desired video. The Video Player screen appears in the display and begins playing the highlighted video.






---



**Note:** For more information, refer to “Playing Music and Videos” on page 52.

---

• **Exiting Video Player Mode** — Touch .

### Entering Text

Your phone has QWERTY keypads [both sliding (     ) and virtual (     ) to support quick and easy text input. You can enter text as you would when using a computer keyboard.

The keys are labeled with a letter or number on the lower half and a symbol on the upper half (sliding keypad only). Press the Fn key () or touch , then press/touch the key corresponding to the character you want to enter.

In addition, you can use the following special function keys:



Press to delete a character.



Press to start a new line.






Press to enter symbols or to access special functions.



Press to insert a space in a text entry.



- Press once to enter a single upper case letter (Abc). The cursor changes to .
- Press twice to enter all upper case letters (ABC). The cursor changes to .
- Press once more to return to entering lower case letters (abc). The cursor changes to .

## Menu Navigation

There are two ways to navigate through a menu:

- Using your finger.
- Using the Touchpad.


### Selecting Menu Items Using your Fingers

As you navigate through the menu, you activate menu options by touching the onscreen entry. Select any option by touching it.

1. Touch an onscreen icon to launch a menu or feature.
2. Scroll your finger across the screen to navigate through a menu list (bottom up or top down).
3. Touch a menu item to make a selection or activate a field.



For example, to launch the Dialer:

- ▶ From the Home screen, touch .

### Selecting Menu Items Using the Touchpad


You navigate with the R880s Touchpad much as you would any touchpad. Scroll your finger across the surface of the touchpad to move highlighting around the screen or up or down a menu.

The direction of your on-screen movements while using the Touchpad is determined by the orientation of your phone.


- When the QWERTY keypad is open, the screen is placed in Landscape mode.
- When the QWERTY keypad is closed, the screen is placed in Portrait mode.

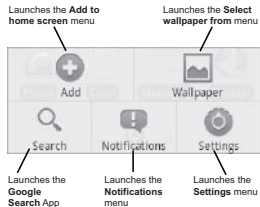
As you navigate through a menu by scrolling across the Touchpad, menu options are highlighted and the R880 plays a clicking sound. Select any option by highlighting it and pressing the Touchpad.

### Menu Structure

The R880 has a distributed, non-centralized set of menus. To access most function- or application-specific menus, launch the desired function or App, then touch the Menu key (.

## Main Menu

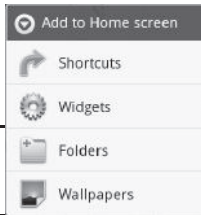
You access the Main Menu from the Home screen. Just touch . The Main Menu slides up from the bottom of the screen.



## Add to Home screen Menu

Lets you add **Shortcuts**, **Widgets**, and/or **Folders** to a Home screen panel.

**Tip:** You can also launch the **Add to Home Screen** menu by touching and holding an empty place on a Home screen panel.



Also lets you select a **Wallpapers** image for your Home screen.

## Select wallpaper from Menu

Lets you select a **Picture** taken with your phone's Camera, or select a pre-loaded image from your phone's **Wallpaper gallery**.




**Tip:** You can also launch the **Select wallpaper from** menu by touching the **Wallpapers** option in the **Add to Home Screen** menu.

## Google Search App

Lets you search your phone for functions, Apps, and menus or search the Web, based on a text or voice entry.

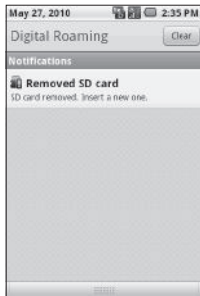


**Note:** You can access the Google Search App from many functions and other Apps by touching .



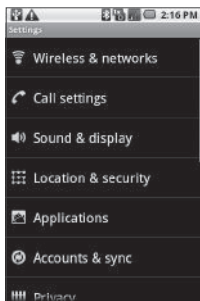
## Notifications Menu

Shows you the network status and explains any notification icons appearing in the top left corner of the Home screen.



## Settings Menu

Lets you enable/disable communications features (such as, voice, Wi-Fi, and Bluetooth communications). Also lets you customize your phone's display, sounds, and other functions to suit your needs.






## Section 3: Call Functions

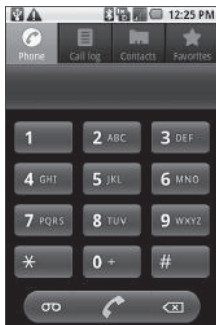
---

This section explains how to make or answer a call. This section also includes the features and functionality associated with making or answering a call.

### Making a Call

#### Manual Digit Dialing

1. Touch  → . The **Phone** screen appears in the display.
2. Enter the number you wish to call using the touch keypad.
3. To dial the number you've entered, touch . A call Notification icon appears.



#### Emergency Number Dialing

When you call an Emergency Number, such as 911, your phone locks itself in emergency mode, only allowing you to make calls to the emergency call center you originally contacted. This enables emergency operators to more easily dispatch aid, such as police, fire fighting, and emergency

medical personnel.

1. Touch  → . The **Phone** screen appears in the display.
2. Enter **911**.
3. To place the call, touch .

---

**Important!:** Emergency number 911 is preset into your phone.

If you call 911 an audible tone is heard and an Emergency prompt appears in the display for the duration of the call.

---

---

**Important!:** Because of various transmission methods, network parameters, and user settings necessary to complete a call from your wireless phone, a connection cannot always be guaranteed. Therefore, emergency calling may not be available on all wireless networks at all times.

---

---

**Important!:** DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications.

---

---

**Note:** You can specify other numbers than 911 as emergency numbers using the **Emergency #** settings. (For more information, refer to “*Emergency Number*” on page 64.)

---

## Voice Digit Dialing

Your phone includes a voice recognition system that you can use to place calls.

1. Touch  →  → **Voice Control** (  ).

**Tip:** For easier access to Voice Control, you can place a Shortcut to it on a Home screen panel.

“**Say a command**” appears in the display and plays through the earpiece-speaker.

2. Say “**Call**” followed by a phone number. Voice Control prompts you to confirm the the number you want to call.
3. To confirm the phone number, say “**Yes**”. Voice Control dials the number.

## Manual Pause Calling

When you call automated systems (like banking services), you are often required to enter a password or account number. Instead of manually waiting for these systems then making addition entries, you can enter special characters (called “pauses”) followed by the additional entries, all before you dial the number. These pauses do the waiting for you.





- **Wait** — A hard pause stops the calling sequence until you touch



- **2-sec. Pause** — A two-second pause stops the calling sequence for two seconds and then automatically sends the remaining digits.



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

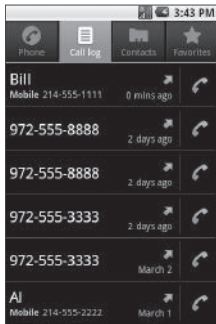
To manually call a number using pause(s):

1. Touch  → . The **Phone** screen appears in the display.
2. Enter the number you wish to call.
3. Touch , then touch **Add 2-sec pause / Add wait**. A related character (“,” — for a 2-sec. Pause, or “;” — for a Wait) is added to your number entry.
4. Enter any additional digits.
5. To place the call, touch .



## Call Log Dialing

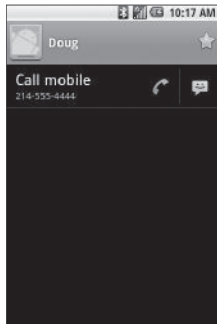
Your phone stores records of your calls (incoming and outgoing). You can use these records to place calls.

1. From the Home screen, touch  → **Call log**. The **Call log** screen appears in the display.
2. Scroll through the Call Log and locate the desired call.
3. To call the indicated number, touch .






## Contact Dialing

1. From the Home screen, touch **Contacts**. The **Contacts** list appears in the display. (For more information, refer to “*Contacts List*” on page 31.)
2. Find the desired Contact by touching  → **Search**. A Search field appears at the top of the screen with a virtual QWERTY keypad below.
3. Enter the first few characters of the desired Contact’s name. A list of matching Contacts appears in the display.
4. Scroll to the desired Contact and touch it. The Contact’s information appears in the display.
5. To call the indicated Contact, touch .



## Voice Contact Dialing

1. Touch  →  → **Voice Control** (  ). “**Say a command**” appears in the display and plays through the earpiece-speaker.
2. Say “**Call**” followed by the name of one of your Contacts.

---

**Tip: Voice Dialing Tips:**

Wait for the beep before speaking.

Speak clearly at a normal volume, as if you were talking to someone on the phone.


When saying a name, say the first name then the last name.

---

Speak clearly and say the name of a person in the Contacts list, first name followed by last name.

Voice Control displays a choice list of up to three names and prompts you with “**Did you say?**” followed by the first name on the list.

3. Say “**Yes**” to confirm the name or “**No**” to hear the next name.

- If you do not respond in a few seconds, Voice Control says the name again.
- To exit Voice Control without dialing, touch .


If the selected name has multiple numbers stored for it (that is, Home 1, Work 1, Mobile 1, and so on), Voice Control displays the possible choices and prompts you with “**Which number?**”

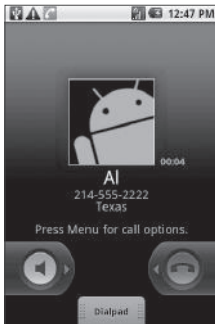
4. Say one of the displayed number types. Voice Control dials the related number.

---

## Call Progress Screen

During a call, you have the following options:

- **Speaker** — Touch and slide to the right to place your phone in Speakerphone mode for sharing the call with others nearby or for conducting the call hands free.
- **End** — Touch and slide to the left to hang up the current call.
- **Dialpad** — Displays a keypad for entering additional numbers, such as an automated system password.
- **Menu key** () — Displays the following additional options:
  - **Add call** — Used to make three-party calls.
  - **Mute / Unmute** — Disables/enables the phone or headset microphone.
  - **Bluetooth** — Transfers the call audio from the phone earpiece and microphone to a Bluetooth headset, and back again.



---

**Tip:** You also have the option of touching  to return to the Home screen and use other functions and/or Applications.

To return to the Call Progress Screen, touch and pull down the Notifications list, then touch **Current call**.


---

## Answering a Call

Your phone notifies you of a call in the following ways:

- A ring tone sounds and/or your phone vibrates (Your phone provides eight ring volume settings, and/or different ring types to distinguish callers.)
- A phone number (unless blocked by the caller) and a name appear in the display (If the caller's number and name are stored in your Contacts list).
- If the caller can't be identified, **Call from unavailable #**, **Call from restricted number**, or no number appears in the display.
- Your phone continues to notify you of the call until one of the following events occurs:
  - You answer the call.
  - You ignore the call.
  - The calling party ends the call.
  - The call is sent to voicemail.

## Answering an Incoming Call

- ▶ Tap and drag  to the right. The ring tone and/or vibration stop and the caller's voice can be heard in the earpiece.

---

**Tip:** You can set your phone to answer calls automatically. (For more information, refer to “*Call Settings*” on page 64.)

---

## Ignoring a Call



When you ignore an incoming call, the call is immediately forwarded to your voice mail.

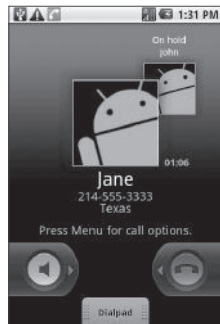
## Adjusting the Call Volume

- ▶ In Standby mode, repeatedly press the Volume key Down until the Call Volume Level desired appears in the display. The Volume key is on the left side of phone.

## Call Waiting




When you sign up for Call Waiting service, your phone notifies you of incoming calls during a call. You have the option of answering or ignoring an additional incoming call.

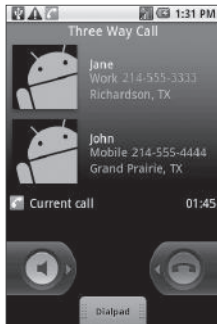
1. During a call, your phone notifies you of an incoming call and the **Incoming Call** screen appears in your display.
2. Answer the incoming call. Your original call is placed on hold, as shown here.
3. To return to your original call, touch  → **Swap calls**.
4. To alternate between calls, touch  → **Swap calls**.



## Three Way Calling

Three Way Calling lets you add a third party to your current call.

1. During a call, touch  → **Add call**. The Dialer screen appears in the display, and your existing call is placed on hold.
2. Enter a number or select a Contact and touch . The call progress screen appears in the display.
3. When the third party answers, touch  → **Merge calls**. The **Three Way Call** screen appears in the display, as shown here.



## Call Log

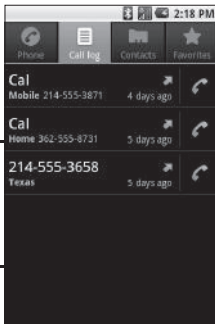
The Call log retains information about Outgoing, Incoming, and Missed calls. You can also view times for your last call and the total times for all calls.

## Review the Call Log

1. From the Home screen, touch  → **Call log**. The **Call log** screen appears in the display.

**Note:** In cases where a Calls log entry concerns a call to or from a Contacts entry, the Contact name associated with the number appears in the Calls log list instead of the number.

2. Swipe the list up or down to browse the Call log.



**Note:** To empty your device's Call Timers, touch  → **Clear call log**.

To review your device's Call Timers, touch  → **View call timer**.

3. For other options, touch and hold a desired call record. The following options pop up in the display:
  - **Call <number>** — Dial the number in this call record.
  - **View contact** — (Contact call records) — Shows the information for this Contact. (For more information, refer to *“Searching for a Contact”* on page 34.)
  - **Edit number before call** — Change the digits to be dialed, then dial the changed number.

- **Send text message** — Send a text message to this number or Contact. (For more information, refer to “*Creating and Sending Messages*” on page 40.)
- **Add to contacts** — (non-Contact call records) — Add the number in this call record to a new or existing Contact. (For more information, refer to “*Saving a Number from a Call*” on page 32.)
- **Remove from call log** — Remove this call record from the Call log.


## Call Timer

View the duration of your last call, total calls, and calls made during the life cycle of your phone using the Call Timer feature.


---

**Note:** Call Timer is not for billing purposes.

---

1. From the Call list, touch  → **View call timer**. The **Call Timer** screen appears in the display showing the following timers:
  - **Last Call** — View the duration of your last call.
  - **Outgoing Calls** — View the duration of the total outgoing calls made on your phone since all timers were last reset.
  - **Incoming Calls** — View the duration of the total incoming calls received on your phone since all timers were last reset.
  - **Roaming Calls** — View the total calls duration on your phone while roaming since all timers were last reset.

- **All Calls** — View the duration of the total call, incoming, outgoing, and data calls made on your phone since all timers were last reset.
- **Last Reset** — View the time and date all timers were last reset.
- **Lifetime Calls** — View the number and total duration of all calls since your phone was activated.

2. To reset all counters except **Lifetime Calls**, touch  → **Reset all timer**.


---

**Note:** Although Total Calls timers can be erased, the Lifetime Calls timer can never be erased.

---

## Roaming

### What is Roaming?

Roaming lets you use your phone when you travel outside of your Wireless Provider's coverage area. The Roaming icon () appears in the top line of the display when Roaming is active, and extra charges may apply when making or receiving calls.

---

**Note:** Some features may be unavailable while roaming. Roaming also consumes additional power from the battery requiring more frequent recharging. Contact your Wireless Provider for more information about Roaming.

---



## **How Roaming Works**

Roam Option lets you set roaming preferences if you move in and out of your home network. The following roaming options are available:

- **Home Only** — Your phone is available for normal operation only in the designated coverage area.
- **Automatic** — Your Wireless Provider's Preferred Roaming List (PRL) of networks is used to acquire service. If no preferred networks are found, any digital system is acquired.

---

**Note:** For more information, refer to "*Mobile networks*" on page 62.

---

## Section 4: Contacts List

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This section explains how to manage your daily contacts by storing their name and number in your Contacts. Contacts entries are sorted by name.

### Your Contacts List

Your Contacts list can store more than 2000 entries, with each contact having up to five associated phone numbers, an Email address, and a picture ID.

Each phone number can be more than 32 digits in length, including hard pauses. Contact names can be more than 32 characters in length. You can also specify a memory location for each entry, and you can restrict access to the Contacts list to prevent unauthorized use.

### Launching the Contacts List

1. From the Home screen, touch . The **Phone** screen appears in the display.




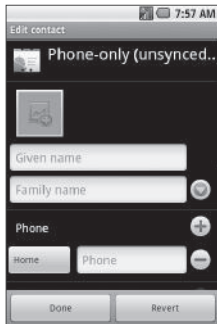
2. Touch the **Contacts** tab. The **Contacts** list appears in the display.



### Contacts List Menu

- ▶ From the **Contacts** list, touch . The Contacts List menu pops-up at the bottom of the screen with the following options:
  - **Search** — Find a Contact by entering the first few letters of the Contact's Given (first) name.
  - **New contact** — Opens **Edit contact** screen. Use it to create a new Contact.
  - **Display options** — Enable/disable **Only contacts with phones**. When disabled (default setting), the Contacts list shows all Contacts.
  - **Accounts** — Opens **Accounts & sync settings** screen. Use it to control how Apps synchronize, send, and receive data, and to add and manage **Corporate**, **Facebook**, and/or **Google** accounts.
  - **Import / Export** — Import (copy) Contacts information from a Memory Card or Export (save) Contacts information to a Memory Card.
  - **Delete all contacts** — Delete all Contacts from the list.


## Adding a New Contact

1. From the **Contacts** list, touch  → **New contact**. The **Edit contact** screen appears in the display.
2. Touch the **Given name** field. With the phone closed and upright, a virtual QWERTY keypad appears at the bottom of the screen.
3. Enter the new Contact's first name, then touch **Next**. The **Family name** field appears highlighted.
4. If desired, enter a family name.
5. Touch **Next**. The **Home Phone** field appears highlighted.
6. If desired, touch **Home** and select a different label (number type).
7. Enter the phone number.
  - To add another number, touch **+**.
  - To add an Email address, touch **Next**. The **Home Email** field appears highlighted.
  - To bypass the **Home Email** field, touch **Next** again. The remaining fields appear in the display.



8. Touch each field in turn and enter the required information.
9. To save your new Contact, touch **Done** or . To discard your new Contact, touch **Revert** or .

### **Edit contact Menu**

- From the **Edit contact** screen, touch . The menu pops up at the bottom of the screen with the following options:
- **Done** — Save your entries.
  - **Revert** — Discard your entries.
  - **New contact** — Opens **Edit contact** screen. Use it to create a new Contact.
  - **Delete contact** — Delete this Contact.
  - **Join** — Combine this Contact with one or more other Contacts.
  - **Separate** — Joined Contacts only — Divide a joined Contact into its original, separate Contacts.

### **Saving a Number from a Call**

Once you've finished a call, you can save the number of the caller to your Contacts list.

---

**Note:** If the call was incoming and Caller ID information was unavailable, the calling number is not available to save to a Contact.

---

1. After you end a call, the Call log screen appears, showing the call you just ended at the top of the list.

2. Touch the call you just ended. The following options appear in the display:
  - **Call information** — Type of call; call time, day, and date; and length of call.
  - **Call again** — Dial this number.
  - **Send text message** — Send a message to this number.
  - **Add to contacts** — Add this number to a new or existing Contact.
3. Touch **Add to contacts**. A **Contacts** screen appears in the display showing the following options:
  - **Create new contact** — Save this number as a new Contact.
  - **Contacts list** — Lets you add the number to an existing Contact.

---

**Tip:** To search this Contacts list, touch .

---

#### Creating a new Contacts entry:

4. Touch **Crete new contact**. The **Edit contact** screen appears in the display with the number you're saving populating the **Phone** field.
5. To save the number as other than the Contact's **Home** number, touch **Home**. The **Select label** menu pops-up with the following number types:
 

• <b>Home</b>	• <b>Other</b>	• <b>Main</b>	• <b>Work Pager</b>
• <b>Mobile</b>	• <b>Custom</b>	• <b>Other Fax</b>	• <b>Assistant</b>



- |                   |                       |                      |              |
|-------------------|-----------------------|----------------------|--------------|
| • <b>Work</b>     | • <b>Callback</b>     | • <b>Radio</b>       | • <b>MMS</b> |
| • <b>Work Fax</b> | • <b>Car</b>          | • <b>Telex</b>       |              |
| • <b>Home Fax</b> | • <b>Company Main</b> | • <b>TTY TDD</b>     |              |
| • <b>Pager</b>    | • <b>ISDN</b>         | • <b>Work Mobile</b> |              |

6. Touch the number type that matches your new entry.

#### Adding the number to an existing Contacts entry:

7. Search for and touch the existing Contact to receive this number. The **Edit contact** screen appears in the display with the Call log number populating the next available number type.
8. To change the number type, touch the current number type label. The **Select label** menu pops-up with the following number types:
 

• <b>Home</b>	• <b>Other</b>	• <b>Main</b>	• <b>Work Pager</b>
• <b>Mobile</b>	• <b>Custom</b>	• <b>Other Fax</b>	• <b>Assistant</b>
• <b>Work</b>	• <b>Callback</b>	• <b>Radio</b>	• <b>MMS</b>
• <b>Work Fax</b>	• <b>Car</b>	• <b>Telex</b>	
• <b>Home Fax</b>	• <b>Company Main</b>	• <b>TTY TDD</b>	
• <b>Pager</b>	• <b>ISDN</b>	• <b>Work Mobile</b>	
9. Touch the number type that matches your new number.

10. Make any added changes you wish to the Contacts entry. (For more information, refer to “*Editing an Existing Contact*” on page 35.)
11. To save your changes, touch . To discard your changes, touch .

### **Saving a Number from the Phone Screen**

1. Touch  → **Phone** and enter the number you wish to store (such as your bank’s teleservice number).
  - Touch  → **Add to contacts**. A **Contacts** screen appears in the display showing the following options:
    - Create new contact** — Save this number as a new Contact.
  - **Contacts list** — Lets you add the number to an existing Contact.

---

**Tip:** To search this Contacts list, touch .

---

2. Refer to “*Saving a Number from a Call*” on page 32 and do Steps 4 through 11, as needed.

### **Contact Options Menu**


There are a number of options available for individual Contacts.

1. From the **Contacts** list, find the desired Contact. (For more information, refer to “*Searching for a Contact*” on page 34.)
2. Touch and hold the desired Contact. A menu pops-up listing the following options:

- **View contact** — Show the stored information for this Contact.
- **Call contact** — Call this Contact.
- **Text contact** — Opens the Message composer screen, including a number for this Contact. (For more information, refer to “*Creating and Sending Messages*” on page 40.)
- **Add to favorites** — Add this Contact to the Favorites list. (For more information, refer to “*Favorites*” on page 38.)
- **Edit contact** — Change the information stored for this Contact. (For more information, refer to “*Editing an Existing Contact*” on page 35.)
- **Delete contact** — Remove this Contact from your Contacts list.

### **Searching for a Contact**


#### **Keypad Method**

1. From the **Contacts** list, find the desired Contact by touching  → **Search**. A Search field appears at the top of the screen with a virtual QWERTY keypad below.

---

**Note:** You can also open and use the sliding QWERTY keyboard.

---

2. Enter the first few characters of the desired Contact’s name. A list of matching Contacts appears in the display.
3. Scroll to the desired Contact and touch it. The Contact’s information appears in the display.
4. Touch . The following options are available:

- **Edit contact** — Opens **Edit contact** screen. Use it to change this Contact.
- **Share** — Send a copy of this Contact to another device over a Bluetooth connection or in an Gmail message. (For more information, refer to *“Sending a Contacts Entry”* on page 39.)
- **Options**
  - **Ringtone** — Select a unique ringtone to identify calls from this Contact.
  - **Incoming calls** — When enabled, sends all calls from this Contact to your Voicemail account.
- **Delete contact** — Remove this Contact from the Contacts list.

### **Voice Method**

Use the Voice Control **Look up** command to view Contact information for any named contact stored in your Contacts list by saying the Contact’s name.

---


**Note:** The **Look up** command shows the requested Contact information in the display but does not dial any phone numbers for the Contact.

To call the Contact, touch one of the Contact’s numbers or start a new Voice Command session and use the **Call** command.

---


To look up information for a specific Contact:


1. Touch  →  → **Voice Control**.  
**“Say a Command”** appears in the display and is pronounced through the speaker.

2. Say **“Look up”**.  
 VoiceSignal prompts you to **“Say the name.”**
3. Speak clearly and say the full name of the person you want to call, exactly as it is entered in your Contacts list.  
 If Voice Control does not recognize the name you said, a choice list of up to three names appears in the display, and Voice Control prompts you with **“Did you say look up”** followed by the first name on the list.
4. Say **“Yes”** to confirm the name or **“No”** to hear the next name, or touch the correct name from the list.
  - To exit VoiceSignal without dialing, touch .
5. The Contact information for the name you selected appears in the display.

### **Editing an Existing Contact**

Once stored in the Contacts list, an entry can be changed quite easily.

1. In the Contacts list, search for and touch the desired Contact. (For more information, refer to *“Searching for a Contact”* on page 34.) The select Contact’s information appears in the display.
2. Touch  → **Edit contact**. The **Edit contact** screen appears in the display.

3. Touch each number or other field in turn whose contents you wish to enter or change.
4. When you're finished editing the Contact, touch  to save your changes.

### **Adding Pauses to Contact Numbers**

When you call automated systems (like banking services), you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your Contacts along with special characters called pauses.

- **Wait** — A hard pause stops the calling sequence until further input from you.
- **2-Sec Pause** — A two-second pause stops the calling sequence for two seconds and then automatically sends the remaining digits.

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**Tip:** You can enter multiple two-second pauses to extend the length of a pause. For example, two consecutive two-second pauses cause a total pause time of four seconds.


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**Note:** Keep in mind that pauses count as digits towards the 32-digit maximum.

---

### **Store Pauses in a New Contacts Entry**


1. Touch  → **Phone** and enter the number you wish to store (such as your bank's teleservice number).

2. Touch . The following menu options appear in the display:
  - **Add to contacts** — Add this number to a new or existing Contact.
  - **2-Sec Pause** — a two-second pause.
  - **Wait** — a hard pause (awaits input from you).
3. Touch the pause option of your choice to enter the selected pause into your number sequence. The appropriate character (“,” or “;”) appears in your number sequence.
4. Enter any additional digits into your number sequence.
5. Repeat Steps 3 and 4 as needed.
6. When your number sequence is complete, touch  → **Add to contacts**. The **Contacts** screen appears in the display showing the following options:
  - **Create new contact** — Save your number sequence as a new Contact.
  - **Contacts list** — Lets you save your number sequence to an existing Contact.
7. To save your changes, touch . To discard your changes, touch .


### **Add Pauses to an Existing Contacts Entry**

1. In the Contacts list, search for and touch the desired Contact. (For more information, refer to “*Searching for a Contact*” on page 34.) The select Contact's information

appears in the display.

2. Touch  → **Edit contact**. The **Edit contact** screen appears in the display.
3. Touch the number stored in this Contact to which you wish to add a Wait or 2-Sec Pause. The phone-style keypad appears at the bottom of the screen.
4. Touch the \* # ( key, then touch the **Pause / Wait** key. The appropriate character (“,” or “;”) appears in your number sequence.
5. Touch the **123** key and enter any additional digits into your number sequence.
6. Repeat Steps 4 and 5 as needed.
7. When your number sequence is complete, touch **Done** to save your changes.

### **Add a Number or Email Address to an Existing Entry**

1. In the Contacts list, search for and touch the desired Contact. (For more information, refer to “*Searching for a Contact*” on page 34.) The select Contact’s information appears in the display.
2. Touch  → **Edit contact**. The **Edit contact** screen appears in the display.
3. Touch a number field or the **Email** field in this Contacts entry.

4. Enter the phone number or Email address for the new Contacts entry.
5. Touch **Done** to add the number or Email address to the existing entry.

### **Edit an Existing Email Address**

1. Find the desired entry in the **Contacts** list. (For more information, refer to “*Searching for a Contact*” on page 34.)
2. Touch the **Edit** soft key. The **Edit Contact** screen appears in the display with the contact name highlighted.
3. Highlight the **Email** field (labeled with the @ symbol).
4. Use the touch screen QWERTY keypad (portrait or landscape) to edit the Email address. (For more information, refer to “*Entering Text*” on page 19.)
  - To add the domain type to the end of the Email address, do the following:
    - Touch the **.com** key to end the Email address with “.com”.
    - – or –
    - Touch and hold the **.com** key. A pop-up menu appears in the display. Select the desired domain type (such as, .com, .net, .org .gov) to add to the Email address.
5. Touch **Done** → **Save** to save your changes.




## Favorites

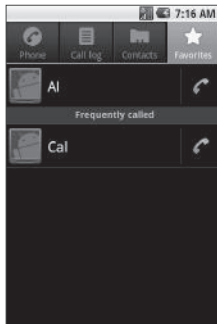
The Favorites screen shows Contacts you added to the list so you can call them without searching or browsing your entire Contacts list. The Favorites screen also lists Contacts you call frequently.

### Launching the Favorites list

- ▶ Touch  → **Contacts** → **Favorites**. The **Favorites** list appears in the display.



### Adding Contacts to Favorites

1. In the Contacts list, search for and touch a Contact you wish to add to Favorites. (For more information, refer to “*Searching for a Contact*” on page 34.) The select Contact’s information appears in the display.
2. Touch the star-shaped button to the right of the Contact’s name. The button changes color to yellow.
3. Touch  → **Contacts** → **Favorites**. The **Favorites** list appears in the display with your newly added Favorite appearing in the list.




## Removing Favorites

Use this option to remove a speed dial number in your Contacts list.



1. Touch  → **Contacts** → **Favorites**. The **Favorites** list appears in the display.
2. Touch the Contact you wish to remove from the Favorites list. The select Contact’s information appears in the display.
3. Touch the star-shaped button to the right of the Contact’s name. The button changes color from yellow to background color.
4. Touch . The **Favorites** list appears in the display, minus the Contact you wished removed.

## Deleting a Contact

1. In the Contacts list, search for and touch a Contact you wish to remove from Favorites. (For more information, refer to “*Searching for a Contact*” on page 34.) The select Contact’s information appears in the display.
2. Touch  → **Delete contact**. You are prompted to confirm the deletion.
3. To delete the selected Contact, touch **OK**.

## Sending a Contacts Entry

Use the **Share** option to send a selected Contact's information as part of an Email or Gmail message.

1. Touch  → **Contacts**. The **Contacts** screen appears in the display.
2. Find and touch the Contact you want to send to another device. (For more information, refer to “*Searching for a Contact*” on page 34.) The associated Contact information appears in the display.
3. Touch  → **Share**. An Email or Gmail message composer appears in the display with the selected contact information attached.
  - If you do not have an Email account or a Google account defined to your phone, you are prompted to create a Google account. (For more information, refer to “*Creating a Google Account*” on page 54 and to “*Setting Up an Email Account*” on page 43.)
4. Address and compose the rest of your message, then touch **Send**.

## Section 5: Messaging

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This section explains how to send or receive different types of messages. This section also describes the features and functionality associated with the various types of messaging.

### Types of Messages

Your R880 can send Text (SMS) messages, Multimedia [picture or video (MMS)] messages, E-mail messages, and Instant Messages (IM).

### Text and Multimedia Messages

You can send Text and Multimedia messages by simply entering the phone number of the recipient in the **To:** field when creating a new message. Text messages can be up to 160 characters in length.

### E-mail Messages

With the R880 you can send E-mail in two ways:



- Directly, through an Internet Protocol (IP) account, or
- Indirectly, by using Microsoft ActiveSync™ to exchange E-mail through your PC

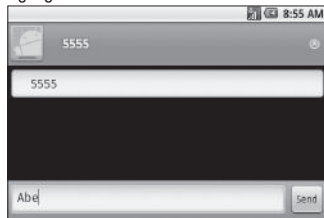
### Instant Messages

The R880 includes support for instant messaging.

## Sending Messages


### Creating and Sending Messages

1. Touch  → **Messaging** () → **New Message**. The message composer screen appears with the **To** field highlighted.



2. To enter or search for a recipient, open the QWERTY keyboard or touch the **To** field (a virtual keyboard appears), then type a phone number, email address, or the first few letters of a Contact name. (If a Contact name, scroll to and touch the desired name.)

For more recipients, type another phone number, email address, or the first few letters of another Contact name.


3. To enter the message text, touch the **Type to compose** field and type the text content of your message. (For more information, refer to “*Entering Text*” on page 19.)
4. For more message composition options, touch . The following options are available:
  - **Add subject** — Add a subject line to your message.
  - **Attach** — Add a picture, video clip, audio file, or slideshow to your message. (For more information, refer to “*Attaching Media*”.)
  - **Insert smiley** — Select from a list of smileys to add to your message.
  - **Discard** — Discard the current message.
  - **All threads** — Return to the **Messaging** screen.
5. Touch **Send** to transmit your message to the selected recipients.

### **Attaching Media**

1. While composing a message, touch  → **Attach**. The following options are available:
  - **Pictures** — Attach an existing picture from the Gallery.
  - **Capture picture** — Launch the Camera, take a new picture, and attach it to your message. (For more information, refer to “*Taking a Snap Shot (Single Picture)*” on page 45.)
  - **Videos** — Attach an existing video from the Gallery.

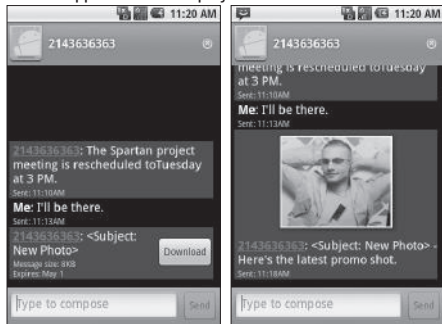
- **Capture video** — Launch the Camcorder, record a new video, and attach it to your message. (For more information, refer to “*Recording a Video*” on page 46.)
  - **Audio** — Attach a preloaded audio file.
  - **Record audio** — Record and attach a new audio file.
  - **Slideshow** — Attach an existing slideshow or create and attach a new slideshow.
2. Touch the desired option and select the desired media file to be attached to this message. The message is automatically converted from a Text (SMS) message to an MMS message.

### **Retrieving a Message**

When you receive a new text, picture, or video message, the message ringer sounds (unless turned off) and the new message icon () appears and the message text scrolls automatically in the Notification bar.

1. To view a new message, touch the Notifications bar and drag downward to display the Notifications list.

2. Touch the new message Notification. The Messaging screen appears in the display.



3. To read the complete message, touch its Messaging list entry.  
If the new message is a Picture or Video message, touch the **Download** button.  
The complete message appears in the display.
4. To compose a reply message, touch the **Type to compose** field. (For more information, refer to “*Creating and Sending Messages*”.)

## Changing Messaging Settings

1. Touch → **Messaging**. The **Messaging** screen appears in the display showing the currently saved threads.
2. Touch → **Settings**. The following options appear in the display:
  - **Storage Settings:**
    - **Delete old messages** — Erase old, read messages as maximum message count limits are reached.
    - **Text message limit** — Select a new maximum number of text messages per thread.
    - **Multimedia message limit** — Select a new maximum number of MMS messages per thread.
  - **Multimedia message (MMS) Settings:**
    - **Delivery reports** — When enabled, requests delivery report for each MMS message sent.
    - **Auto-retrieve** — When enabled, automatically retrieves (downloads) incoming MMS messages.
    - **Roaming auto-retrieve** — When enabled, automatically retrieves (downloads) incoming MMS messages when outside your home network.
  - **Notification Settings:**
    - **Notifications** — When enabled, displays message notification icon when message received.
    - **Screen on** — When enabled, display lights when message notification icon appears.

- **Select ringtone** — Select unique ringtone for new incoming messages.
- **Vibrate** — When enabled, phone vibrates for new incoming messages.

3. Select the desired options and settings.

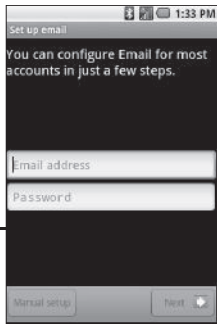
## Accessing Email


You can configure R880 Messaging to send and receive Email messages using personal or business accounts.

### Setting Up an Email Account

You can use your R880 to access the Internet for Email using a connection through your Wireless Carrier or using a Wi-Fi connection. (For more information, refer to “Wi-Fi” on page 58.)

**Tip:** Before beginning the Email account setup process, you should have copies of the email server settings for each of your accounts to verify and/or correct all automatically retrieved settings.




1. Touch  → **Email**. The first time you select **Email**, the **Set up email** screen appears in the display, prompting you

to configure **Email** for an account.

2. Enter your E-mail address and password into the appropriate fields, then touch **Next**. Your phone automatically obtains account information from the Email server.
  - If this account is to access a private Email server (such as your employer's), touch **Manual setup** and follow the prompts to set up access to your Email account.




You are notified when setup is complete.
3. At the prompt, enter a screen name for this Email account and your name for inclusion in outgoing messages, then touch **Next**. Email begins downloading to your phone.

### Sending Email

1. Address the Email message to a Contact:
  - Touch  → **Contacts**.
  - Find and touch the desired Contact. The Contact's information appears in the display. (For more information, refer to “Searching for a Contact” on page 34.)
  - Touch the desired Email address. The **Complete action using** menu pops-up in the display.
  - Choose the Email account you wish to use. The Email **Compose** screen appears in the display with the Contact's Email address already populating the **To** field.

– OR –


Address the Email to a non-Contact recipient:

- Touch  → **Email**. Your default Email account folder appears in the display.
  - Touch  → **Compose**. The Email composer screen appears in the display.
  - Enter the recipient's Email address. (For more information, refer to "Entering Text" on page 19.)
2. Touch the **Subject** field and enter the subject of this message.
  3. Touch **Next** and enter the message text.
  4. To attach a file(s) to your message, touch  → **Add attachment**. The **Choose attachment** menu pops-up in the display. Select the desired location(s) and file(s).
  5. To send your message to the intended recipient, touch **Send**.
    - To save the message as a draft message for later reuse, touch **Save as draft**.
    - To discard this message without sending or saving it, touch **Discard**.

## Receiving Email

When you receive a new Email message, the message ringer sounds (unless turned off) and the new Email message icon



() appears in the Notification bar.

1. To access your received Email, touch  → **Email**. Your

default Email account folder appears in the display.

2. To read your received Email, touch the new message listing.

## Removing an Email Account

1. Touch  → **Email** →  → **Accounts**. The **Email** accounts list appears.
2. Touch and hold the account you wish to remove. The account options menu pops-up.
3. Touch **Remove account**. You are prompted to confirm the removal of this Email account.
4. To remove the selected account, touch **OK**.

## Section 6: Camera–Camcorder

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Use your Samsung phone to take full color digital pictures and videos, display them on your phone's vivid color display, and instantly share them with family and friends. It's fun, and as easy to use as a traditional point-and-click camera or camcorder. This section explains how you can do the following:


- Take pictures and record videos with your phone's built-in digital Camera-Camcorder.
- Send and receive pictures and videos taken with your phone's Camera-Camcorder.
- Set the several Camera-Camcorder options that help you take crisp, clear pictures and videos.

### Taking Pictures and Videos

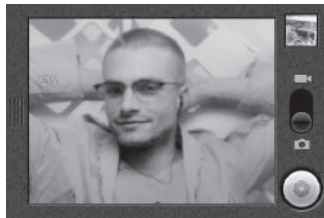
Taking pictures videos with the built-in Camera-Camcorder is as simple as choosing a subject, pointing the lens (located on the rear of your phone, at the top), and pressing a button.

#### Taking a Snap Shot (Single Picture)

To take a single picture using the current Camera settings, do the following:

1. Press and hold the Camera key (  — on the right side of the phone). The Camera viewfinder screen appears in the display. (For more information, refer to “Screen



Layout” on page 48).



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**Tip:** You can also launch the camera by touching  →  →  → Camera.


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2. Using the display as a viewfinder, point the camera lens (on the back of your phone) at your subject.
3. When the image that you wish to capture appears in the display, press the Camera key (  ) or touch  .  
After the Camera takes the picture, a thumbnail view of it fills the preview pane in the upper right corner of the viewfinder screen.




4. To review the picture full-screen, touch the preview pane. The new picture fills the screen. The following options are available:

 **DELETE** — Erase this picture from the Gallery.


 **SHARE** — Send a copy of this picture to another device or person over a Bluetooth connection or through Evernote, Facebook, Gmail, Messaging, My Space, Picasa, or Twidroid.


 **SET AS** — Set this picture as a Contact Icon or as Wallpaper on the Home screen.


 **DONE** — Return to the Camera viewfinder screen.

5. For additional options, press . The following additional options are available:

 **Rotate** — Rotate the picture Left (counter-clockwise) or Right (clockwise).

 **Crop** — Erase unwanted portions of this picture.


 **Details** — List the name, File size, Resolution, Manufacturer, Model, White Balance setting, and Date taken for this picture.

 **Location on Map** — Indicate location where picture was taken on a map.

6. To exit the Camera, press .





### **Recording a Video**

To record a video using the current camcorder settings, do the following:

1. Press and hold the Camera key (  — on the right side of the phone). The camera viewfinder screen appears in the display.


2. Touch and slide the Camera-Camcorder switch to Camcorder position. The Camcorder viewfinder screen appears in the display. (For more information, refer to “Screen Layout” on page 48).



3. Using the display as a viewfinder, point the camera lens (on the back of your phone) at your subject.
4. When the image that you wish to capture appears in the display, press the Camera key (  ) or touch  . When you're finished recording your video, press the Camera key (  ) again or touch  .  
A thumbnail view of the new video fills the preview pane in the upper right corner of the viewfinder screen.


5. To review the video full-screen, touch the preview pane. The new video fills the screen. The following options are available:


 **DELETE** — Erase this picture from the Gallery.

 **SHARE** — Send a copy of this picture to another device or person over a Bluetooth connection or through Facebook, Gmail, Messaging, My Space, or Picasa.

 **PLAY** — Play the new video.

 **DONE** — Return to the Camera viewfinder screen.

6. For additional options, press  . The following additional option is available:

 **Details** — List the name, File Size, Duration, Frame rate, Bit rate, Format, and Date and time recorded for this video.

7. To exit the Camcorder, press  .

## Screen Layout




### Screen Indicators and Buttons

1. **Flash** — Camera only — Indicates the flash setting (**Auto** shown).
2. **Settings** — Touch to open the **Camera / Camcorder settings** menu.
3. **Viewfinder** — Displays the image currently seen by the Camera lens.
4. **Thumbnail** — Displays the last picture you took with the Camera or the first frame of the last video you recorded with the Camcorder.
5. **Mode** — Swipe down for Camera mode (as shown), swipe up for Camcorder mode.

6. **Take / Record / Stop** — Takes pictures (Camera) or starts and stops video recordings (Camcorder).

### Camera-Camcorder Settings

To access the Camera or Camcorder settings menu, do the following:




- ▶ From the Camera / Camcorder viewfinder screen, touch  → **Settings**. The **Camera / Camcorder settings** menu opens with the following available settings:
  - **Flash mode** — **Auto / On / Off** — Take photos or record videos in low light conditions.
  - **Video quality** (Camcorder only) — **Low (for MMS messages) / High (for SD card)** — Control video clarity and file size as needed.
  - **Video duration** (Camcorder only) — **60 seconds (for MMS) / 10 minutes / 30 minutes** — Control video file size as needed.
  - **White balance** — **Auto / Incandescent / Daylight / Fluorescent / Cloudy** — Select how the Camera / Camcorder responds to available light.
  - **Color effect** — **None / Mono / Sepia / Negative / Aqua / Whiteboard** — Apply special color effects to your pictures / videos.
  - **Store location** (Camera only) — **Off / On** — Save location coordinates where pictures are taken. Lets you Show on Maps where you took a selected picture. (See “Show on Maps” on page 50.)
  - **Picture size** (Camera only) — **3M Pixels / 2M Pixels / 1M Pixels** — Control picture size and file size as needed.

- **Picture quality** (Camera only) — **Super fine / Fine / Normal** — Control picture clarity and file size as needed.
- **Focus mode** (Camera only) — **Auto / Macro** — Keep center of subject in focus (Auto) or maintain full image in focus (Macro).

## Gallery

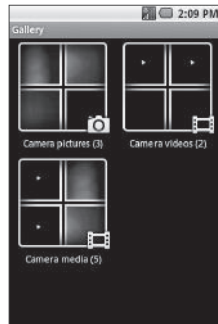
The Camera-Camcorder stores your photos and videos in the Gallery, which gives you easy access to your photos and videos and lets you review and manage them.

You can access the Gallery either of two ways:

- **From the Home screen:**
  - ▶ Touch , swipe from right to left (to view the right hand Home screen panel), then touch **Gallery**.
- **Using the Apps menu:**
  - ▶ Touch  →  → **Gallery**.



The **Gallery** screen appears in the display, showing the following media file clusters:

- **Camera pictures** — Thumbnail views of up to four of the pictures taken with your phone's Camera and stored in the phone. The total number of pictures also appears.
- **Camera videos** — Thumbnail views of up to four of the videos recorded with your phone's Camcorder and stored in the phone. The total number of videos also appears.
- **Camera media** — Thumbnail views of up to four of the pictures and videos taken with your phone's Camera-Camcorder and stored in the phone. The total number of pictures and videos also appears.



To access the files in one of the clusters, touch the desired cluster. A 3 x 4 array of the files in the cluster appears in the display.

### Gallery and Camera Media Menu Options

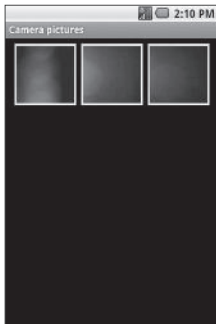
▶ Touch  or touch **Camera media** → . The following menu options are available:

- **Capture picture** — Launches the Camera.
- **Capture video** — Launches the Camcorder.
- **Settings** — The following Gallery settings are available:
  - **General settings** — Select a Display size and Sort order for your pictures and videos, and select whether to Confirm deletions of pictures and videos.
  - **Slideshow settings** — Select how your photos are presented, and in what order, when in Slideshow mode.

### Camera and Video Pictures Options


▶ Touch **Camera pictures** / → . The following menu options are available:

- **Capture picture** — Launches the Camera.



- **Capture video** — Launches the Camcorder.
- **Slideshow** — Camera Pictures only — View pictures taken with your phone's Camera as a slideshow.
- **Multiselect** — Select pictures/videos to Share or Delete.
- **Settings** — The following Gallery settings are available:
  - **General settings** — Select a Display size and Sort order for your pictures and videos, and select whether to Confirm deletions of pictures and videos.
  - **Slideshow settings** — Select how your photos are presented, and in what order, when in Slideshow mode.

### Picture Menu Options

1. In the Gallery Camera Pictures array, select a photo. The photo expands for easier viewing.
2. Touch . The following menu options are available:
  - **Share** — Send a copy of this picture to other devices, to various on-line services, and/or to individuals as part of a picture or email message.
  - **Set as** — Set this picture as a Contact icon
  - **Details** — Show File size, Resolution setting, Manufacturer, Model, WhiteBalance setting, and Date taken for this picture.
  - **Show on Maps** — Show a map with the location where this picture was taken indicated on the map.

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**Tip:** To use the **Show on Maps** option, you must store the locations where pictures are taken with the pictures. (See the “*Store location*” option on page 48.)

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- **Slideshow** — Show all Gallery Camera Pictures as a slideshow.
- **Settings** — Select values for Gallery General and Slideshow settings.

### **Send Pictures and Videos**

Send a picture or video you have taken to anyone with a compatible device in a few easy steps.

1. From the Camera / Camcorder view finder screen, take a picture or record a video.
2. Touch the thumbnail preview image in the upper right corner of the display. The photo/video review screen appears in the display.
3. Touch **Share**. The Share pictures via menu pops up showing the following available options:
  - **Bluetooth**
  - **Messaging**
  - **Evernote**
  - **MySpace**
  - **Facebook**
  - **Picasa**
  - **Gmail**
  - **Twidroid**

4. Touch the desired option and follow the prompts to send a copy of this photo/video. (For more information, refer to “*Messaging*” on page 40.)

## Section 7: Playing Music and Videos

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### Loading Media Files

You can load media files (MP3 or WMA music and/or MP4 or 3GP video) to your phone over the air or using a Personal Computer.

### Downloading

#### Over the Air

- ▶ Save music obtained using the Browser or from the Market to the microSD or microSDHC Memory Card.

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**Note:** For more information, refer to “*Apps (Applications)*” on page 54.

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#### Via PC

1. Connect your R880 to your Personal Computer using the USB Data Cable. “**USB connected**” and a USB Notification icon appears on the top line of the display.
2. Touch and slide the Notification icon to view the Notifications list.
3. Touch **USB connected** → **Mount**. A new “Removable Disk” appears on your Personal Computer.
4. Copy your MP3 or WMA music files to the `./DCIM/Music` directory on the Memory Card.

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**Note:** If there is no `./DCIM/Music` directory, create one.

---

5. Copy your MP4 or 3GP video files to the `./DCIM/Camera` directory on the Memory Card.

---

**Note:** If there is no `./DCIM/Camera` directory, create one.

---

### Sideload

1. Remove the microSD or microSDHC Memory Card from your phone. (For more information, refer to “*Remove a Memory Card*” on page 9.)
2. Insert the Memory Card in a compatible Card Reader connected to a personal computer.
3. Copy your MP3 or WMA music files to the `./DCIM/Music` directory on the Memory Card.

---

**Note:** If there is no `./DCIM/Music` directory, create one.

---

4. Copy your MP4 or 3GP video files to the `./DCIM/Camera` directory on the Memory Card.

---



**Note:** If there is no `./DCIM/Camera` directory, create one.

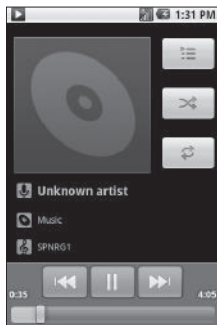
---

- Remove the Memory Card from the Card Reader and insert the Memory Card in your R880 phone. (For more information, refer to “Install a Memory Card” on page 8.)



## Playing Your Media Files

### Launching the Music Player

- Touch  →  → **Music**. The Music Library screen appears in the display.
- Touch the **Songs** tab. A list of songs on the Memory Card appears in the display.
- To play a song, touch it in the list. The Music Player screen appears in the display and the selected song begins playing.



### Launching the Video Player

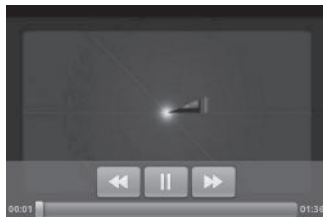
- Touch  →  → **Gallery** → **Camera videos / Camera media**. An array of thumbnail images appears in the display.

---

**Note:** Videos are indicated by a Play arrowhead overlay.

---

- Locate and touch the desired video. The Video Player screen appears (in landscape mode) and the selected video begins playing.



---

**Note:** The Video Player controls fade out as playing continues.

---



## Section 8: Apps (Applications)

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Your R880 phone includes a number of useful Apps and offers access to the Android Market, where you can purchase and download still more Apps.

### Network-Dependent Apps


To launch many of the Apps loaded on your R880, such as the **Maps**, your phone must have network access. In addition, some Apps (such as **Gmail** and **Market**) require you to have a Google account as well as network access to use them.

### Creating a Google Account

To create a Google account, you can use either your R880 phone or a personal computer. When creating the account, Google asks you to enter an Email address:

- To create a Gmail address along with the account, use your R880 phone.
- To enter an existing address, use a personal computer.

### Using Your R880 Phone


1. From the Home screen, touch . The Apps menu appears in the display.
2. In the last row of Apps, touch either **Gmail** or **Market**. The **Set up your Google Account** screen appears in the display.
3. Follow the onscreen prompts to create your free account.

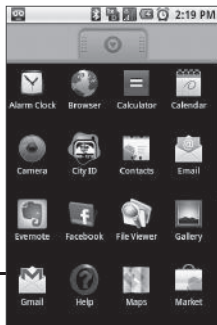
4. Log into the email address you entered on the **Google accounts** page, and locate the email from Google.
5. Respond to the new email to both confirm and activate your new account.

### Using a Personal Computer

1. From a computer, launch a Web browser and navigate to [www.google.com](http://www.google.com).
2. On the Google home page, click **Sign-in** → **Create an account now**.
3. Follow the onscreen prompts to create your free account.
4. Log into the email address you entered on the **Google accounts** page, and locate the email from Google.
5. Respond to the new email to both confirm and activate your new account.

## Launching an App

1. From the Home screen, touch . The Apps menu appears in the display.
2. Swipe up or down across the screen to scroll the menu and find a particular App.
3. To launch the desired App, touch the related icon.



**Note:** Some applications, such as Market, require you have a Google account and a network connection.

## Available Apps

The following Apps are pre-loaded on your R880 phone:



**Alarm Clock** Set up multiple alarms.



**Browser** Access the World Wide Web.

**Note:** The Browser supports "Pinch and Zoom" on some web pages.



**Calculator** Divide, multiply, subtract, and add numbers of any length, with results presented in exponential format.



**Calendar** Schedule events and set reminder alarms.



**Camera** Take pictures and record and playback videos.



**City ID** Display the City and State for a phone number (North America Dialing Plan).

**Note:** Additional charges apply for CityID subscription.



**Contacts** Create and maintain a phonebook of Contact information (phone numbers, Email addresses, postal addresses, and so on).



**Email** Access business and personal Email accounts.



**Evernote** Save and access notes containing entered and captured information from multiple sources.



**facebook** Access your facebook account.



**File Viewer** View pictures, videos, and other files stored on your phone.



**Gallery** View pictures, play slideshows and videos of pictures and videos taken with the Camera in your phone.



**Gmail** Create and access a Gmail (Google mail) account.



**Help** Access Help menu.



**Maps** Access Google maps.



**Market** Find, purchase, and download Apps for your R880 phone.



**Messaging** Exchange Text, Picture, and Video messages with other devices.



**Music** Play and manage music files stored on a Memory Card. Create and play music playlists. Assign music files as ringtones.



**My Contacts Backup** Backup your Contacts to your Wireless Provider's server.



**MySpace** Access your MySpace account.



**Phone** Place phone calls.



**Quickoffice** View Microsoft® Word™ and Excel™ files.



**Settings** Customize your phone's operation and functions to suit yourself.



**Talk** Exchange instant messages.



**The Weather Channel** Access the Weather Channel for weather information and forecasts.



**Tone Room Deluxe** Find, purchase, and download sound files for use as ringtones and alert tones.



**Twidroid** Access Twitter or identical social networking sites.



**Voice Control** Place calls and launch functions and features of your phone with spoken commands.



**Voice Search** Search the contents of your phone with spoken commands.



**Your Navigator Deluxe** Obtain automated guidance to desired locations.



**YouTube** Access YouTube video sharing site.

## Accessing Apps Directly

You can access an App directly from one of the Home screen panels after copying a Shortcut or Widget for the App to the desired Home screen panel.

## Pre-positioned Shortcuts and Widgets

Your R880 comes with a number of Shortcuts and Widgets pre-positioned on all three Home screen panels.

Left Panel	Center Panel	Right Panel
<ul style="list-style-type: none"> <li>• Gmail</li> <li>• Voice Search</li> <li>• Talk</li> <li>• Market</li> <li>• Facebook</li> <li>• MySpace</li> <li>• Twidroid</li> <li>• Evernote</li> <li>• My Contacts Backup</li> <li>• Tone Room Deluxe</li> <li>• Your Navigator</li> <li>• Help</li> </ul>	<ul style="list-style-type: none"> <li>• Contacts</li> <li>• Calendar</li> <li>• Phone</li> <li>• Email</li> <li>• Messaging</li> <li>• Browser</li> </ul>	<ul style="list-style-type: none"> <li>• Camera</li> <li>• Gallery</li> <li>• YouTube</li> <li>• Wi-Fi settings</li> <li>• Location &amp; security settings</li> <li>• Bluetooth settings</li> <li>• Settings</li> </ul>

## Section 9: Connections

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This section explains how to setup your phones network, Wi-Fi (Wireless Fidelity), Bluetooth, and VPN (Virtual Private Network) connections.

---

**Note:** Use of these Wi-Fi, Bluetooth, and/or VPN wireless connections can increase the drain on your R880's battery, shortening your usage time.

---

### Accessing Wireless & network settings

To launch the **Wireless & network settings** menu:

- ▶ Touch  →  → **Settings** → **Wireless & network settings**. The **Wireless & network settings** menu appears in the display.

### Wi-Fi

You can use your R880 to access the Internet and other services through secured Wireless Access Points (WAPs) (those requiring knowledge of the Router name and password) and over unsecured (open) WAPs (“hot spots”).

#### Turn Wi-Fi Interface On

- ▶ From the **Wireless & network settings** menu, touch **Wi-Fi**. The associated check box changes color to green.

#### Turn Wi-Fi Interface Off

- ▶ From the **Wireless & network settings** menu, touch **Wi-Fi**. The associated check box changes from green to background color.

#### Setting Up a Wi-Fi Connection

1. From the **Wireless & network settings** menu, touch **Wi-Fi settings**. The **Wi-Fi settings** menu appears in the display. The following options are available:
  - **Wi-Fi** — Turns the phone's Wi-Fi interface On/Off.
  - **Network notification** — When enabled, your phone notifies you when it detects a Wi-Fi open network (hot spot).
  - **Wi-Fi networks** — List of detected open, visible secured, and/or manually added hidden secured Wi-Fi networks. Wi-Fi networks listings show network names and security settings, if any. Select a network listing to connect to that network. If the network is secured, but you have not manually added it, you are prompted to enter the WAP password.
  - **Add Wi-Fi network** — Manually add a Wi-Fi network to the **Wi-Fi networks** list.
2. To manually add a Wi-Fi network to the Wi-Fi networks list:

- Touch **Add Wi-Fi network**. The Add Wi-Fi network screen pops up.
- Touch the **Network SSID** field and enter the name of the Wireless Access Point. This entry lets you add hidden secured Wi-Fi networks.
- For a secured network, touch the **Security** field. Select the appropriate security setting by touching it. You are prompted to enter the WAP password.
- To save your entries to the list, touch **Save**.


---

**Note:** When you manually add a secured Wi-Fi network, you are not prompted to enter the WAP password each time your phone connects.

---

### **Advanced Wi-Fi settings**

The **Wi-Fi settings – Advanced** menu lets you further customize how your phone communicates with Wi-Fi networks.

- ▶ From the **Wi-Fi settings** menu, touch  → **Advanced**. The Advanced menu appears in the display with the following options available:
  - **Wi-Fi sleep policy** — Set your Wi-Fi interface to sleep When the screen turns off / Never when the phone is plugged in / Never.
  - **MAC address** — View your phone's Media Access Control address.
  - **IP settings** — Enable and specify a static Internet Protocol address. (Sometimes required by enterprise networks.)

### **Bluetooth**

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 30 feet without requiring a physical connection.

Unlike infrared, you don't need to line up the devices to beam information with Bluetooth. If the devices are within a range of one another, you can exchange information between them, even if they are located in different rooms.

The Bluetooth wireless technology settings menu provides the ability to view and change the device name, show the visibility, and set the security for the device.

#### **Turn Bluetooth On/Off**

When the Bluetooth is turned on, you can use the Bluetooth features available. When the Bluetooth is turned off, you cannot send or receive information via Bluetooth. To save battery life or in situations where Bluetooth use is prohibited, such as airline traveling, you can turn off the Bluetooth wireless technology headset.

#### **Turn Bluetooth On**

- ▶ From the **Wireless & network settings** menu, touch **Bluetooth**. The associated check box changes color to green.

## Turn Bluetooth Off

- ▶ From the **Wireless & network settings** menu, touch **Bluetooth**. The associated check box changes color from green to the background color.

## Pair with a New Device

1. From the **Wireless & network settings** menu, touch **Bluetooth settings**. The following options are available:
  - **Bluetooth** — Turns the phone's Bluetooth technology interface On/Off.
  - **Device name** — View or change your phone's Bluetooth device name.
  - **Discoverable** — Make your phone visible to other scanning and un-paired Bluetooth devices.
  - **Scan for devices** — Make your phone scan for other discoverable and un-paired Bluetooth devices.
  - **Bluetooth devices** — List of Bluetooth devices already paired with your phone or discovered by your phone when scanning.
2. To pair your phone with a new Bluetooth device:
  - Place the other Bluetooth device in discoverable mode. (See the device user manual for more information.)
  - From the **Bluetooth settings** menu, touch **Scan for devices**.  
Your phone searches for available Bluetooth devices. Named listings for available devices appear in the display.

- Touch the device listing you want to pair with your phone. You are prompted to enter the passkey or PIN for the selected device.
- Enter the device passkey or PIN and touch **OK**. (See the device user manual for more information.) Pop-up messages appear to inform you that pairing with the device and connecting to it are complete.

---

**Note:** If you are pairing and connecting to another phone or to a personal computer, both devices prompt for a passkey or PIN. To successfully pair and connect your phone with the other device, the same passkey or PIN must be entered on both devices.

---

---

**Note:** Pairing between two Bluetooth devices is a one-time process. Once paired, the devices will recognize each other and reconnect without your having to re-enter a passkey or PIN.

---

## Reconnecting to a Paired Bluetooth Device

To reconnect to a paired Bluetooth headset or handsfree device:

- ▶ In the **Bluetooth settings** menu, touch the listing for the preferred device. The device status changes to indicate the connection is complete.

To reconnect to another phone or to a personal computer:

- ▶ Select a Bluetooth communication function [such as **Share** → **Bluetooth** for a Contact (see “*Sending a Contacts Entry*” on page 39)].

## Bluetooth Device Listing Options

### Paired and Connected Device

- ▶ In the **Bluetooth devices** list, touch and hold a connected device listing. The following options are available:
  - **Disconnect** — Break the connection between your phone and this device. Device remains paired with your phone.
  - **Disconnect & unpair** — Break the connection between your phone and this device and desolve the pairing with your phone.
  - **Options:**
    - **Connect** — Make a Bluetooth connection between this device and your phone.
    - **Phone** — Connect this device to your phone's send and receive audio for voice calls. (For connections with phone headsets and handsfree devices.)
    - **Media** — Connect this device to your phone's media (music, video, and so on) audio. (For stereo headsets and handsfree devices.)

### Paired and Disconnected Headset

- ▶ In the **Bluetooth devices** list, touch and hold a disconnected Bluetooth headset listing. The following options are available:
  - **Connect** — Establish a connection between your phone and this device.
  - **Unpair** — Desolve the pairing with your phone.

- **Options:**

- **Connect** — Make a Bluetooth connection between this device and your phone.
- **Phone** — Connect this device to your phone's send and receive audio for voice calls. (For connections with phone headsets and handsfree devices.)
- **Media** — Connect this device to your phone's media (music, video, and so on) audio. (For stereo headsets and handsfree devices.)

### Paired and Disconnected Device

- ▶ In the **Bluetooth devices** list, touch and hold a disconnected device (other than a headset) listing. The following option is available:
  - **Unpair** — Desolve the pairing with your phone.

## VPN

You can connect your R880 to an enterprise Virtual Private Network, such as your employer's.

To add a VPN:

1. From the **Wireless & network settings** menu, touch **VPN settings**. The screen appears in the display with the following VPN types:
  - **PPTP** — Point-to-Point Tunneling Protocol
  - **L2TP** — Layer 2 Tunneling Protocol
  - **L2TP/IPSec PSK** — Layer 2 Tunneling Protocol / Internet Protocol Security Pre-Shared Key



- **L2TP/IPSec CRT** — Layer 2 Tunneling Protocol / Internet Protocol Security Certificate-based
2. Touch the desired VPN type. The following settings are available, depending on the VPN type:

---

**Note:** Contact the Information Technology Security support personnel for the correct values for these settings.

---

- VPN name
- VPN server name (PPTP and L2TP networks)
- Set VPN server (L2TP/IPSec PSK and L2TP/IPSec CRT networks)
- Set IPSec pre-shared key (L2TP/IPSec PSK networks only)
- Whether to enable encryption (PPTP)
- Enable L2TP secret (L2TP and L2TP/IPSec PSK networks)
- Set L2TP secret (L2TP and L2TP/IPSec PSK networks)
- Set user certificate (L2TP/IPSec CRT networks only)
- Set CA (Certificate Authority) certificate (L2TP/IPSec CRT networks only)
- DNS search domains

## Mobile networks

You can select roaming options for your R880,

- ▶ From the **Wireless & network settings** menu, touch **Mobile networks**. The following options are available:
  - **Data roaming** — When enabled, lets you use data services on your phone while you are roaming outside your Home network.
  - **System select** — Restricts your R880 to use within your Home network (no roaming), or allows Automatic roaming.

## Dial Up Networking

With Dial Up Networking enabled, your phone's access to all other data services [such as the Browser and Multimedia Messaging Service (MMS)] is disabled.

---

**Important!** Please contact your Wireless Carrier before using your phone as a modem through Internet Sharing or Tethering. A tethering service plan is required due to high data usage.

---

### Enabling Dial Up Networking

1. From the **Wireless & network settings** menu, touch **Dial Up Networking**. A Notification appears to inform you that, if you enable Dial Up Networking, you cannot use other data services. You are prompted to confirm that you want to use this service.
2. To enable Dial Up Networking, touch **OK**. The check box changes color from background to green.

---

**Note:** For information on creating a Dial Up Network connection, refer to your personal computer user documentation.

---

### ***Disabling Dial Up Networking***


- ▶ From the **Wireless & network settings** menu, touch **Dial Up Networking**. The check box changes color from green to background. You can now use other data services.

## Section 10: Changing Your Phone's Settings

---

This section explains the settings available to customize your phone to suit your needs and preferences.

### Accessing the Settings Menu

1. From the Home screen, touch  → **Settings**. The **Settings** menu appears in the display.

### Wireless & networks Settings

These settings let you control and tailor how your phone communicates with networks and other Bluetooth devices. (For more information, refer to “*Connections*” on page 58.)

### Call Settings

These settings control how your phone places and responds to calls.

#### North american dialing

Activating this setting sets your phone's International Dialing Code to the North American Dialing Plan value of 011. Deactivating this setting activates the **Internation dialing** setting.

#### International dialing

This setting lets you change your phones International Dialing Code to one used in countries outside the North American Dialing Plan.

### TTY

Activates your phone's ability to communicate with a TTY or TDS device connected to the headset jack.

### View call timer

Touching this setting launches the **Call Timer** screen (For more information, refer to “*Call Timer*” on page 29). To reset all timers except Lifetime Calls, touch  → **Reset all timer**.

### Call Restrictions

This setting lets you Allow All or Allow None for both Incoming and Outgoing calls, or to restrict Incoming and Outgoing calls to those made to or received from your Contacts.

### Emergency Number

This setting lets you enter up to 3 emergency phone numbers (including 911, if you want). Calls to these numbers will place your phone in Emergency mode (For more information, refer to “*Emergency Number Dialing*” on page 23).

### Auto Answer

This setting lets you select whether your phone automatically answers incoming calls, and how quickly (that is, after 1, 3, or 5 seconds).

## Sound & display Settings

Touch this option to access the following settings:

### Sound settings

Sounds settings let you customize your phone's audio properties, such as for ringers, keypad tones, alerts, and more.

### Silent mode

Touching this setting silences or restores all phone sounds except alarms and media players (music and video).

### Ringer volume

This setting lets you adjust the volume of the incoming call ringer. You can also elect to apply this volume setting to notification alert tones.

### Media volume

Touch this setting to adjust the volume for music and video playback.

### Phone ringtone

This setting lets you select the default ringtone that plays for all incoming calls except those from Contacts for whom you have set unique, identifying ringtones. (For more information, refer to “*Contacts List*” on page 31.)

### Phone vibrate

Touch this setting to enable/disable your phone vibrating to indicate incoming calls.

### Notification ringtone

This setting lets you select the default ringtone that plays for all Notifications when they occur.

### Audible touch tones

Touch this setting to enable/disable playing of key tones when you touch virtual keypad keys or press physical keypad keys.

### Audible selection

Touch this setting to enable/disable playing of a tone when you select an object on the touch screen.

### Haptic feedback

Touch this setting to enable/disable your phone momentarily vibrating when you select an object on the touch screen.

### Emergency tone

Touching this setting enables/disables the alert tone your phone sounds during an Emergency call.

---

**Tip:** This feature can be valuable during emergency situations, such as, a home invasion. Disabling the Emergency call alert tone can prevent a home invader from locating you by means of that tone.

---

## **Display settings**

Display settings let you change your phone's menu appearance, display brightness and contrast, and display content to better meet your needs.

### **Orientation**

Touching this setting enables/disables you phone's ability to automatically switch the display between portrait and landscape orientations depending on how you hold your phone, upright or on its side.

### **Animation**

This setting lets you select whether No animations, Some animations, or All animations play on your phone.

### **Auto Brightness**

When enabled, this setting disables the manual Brightness setting and lets the phone automatically adjust display brightness for best visibility under existing ambient light.

### **Brightness**

With the Auto Brightness setting disabled, this setting lets you adjust the display brightness to suit yourself.

### **Screen timeout**

This setting lets you set the display backlight to remain on for 8, 15, or 30 seconds; or for 1, 2, 10, or 30 minutes with no activity.

---

**Note:** Prolonged backlight use drains your battery faster.

---

### **Keyboard timeout**

This setting lets you set the QWERTY keyboard backlight to remain on for 3, 6, or 20 seconds; or for 1 minute with no activity.

---

**Note:** Prolonged backlight use drains your battery faster.

---

## **Location & security Settings**

Touch this option to access the following settings:

### **My Location**

Use these settings to determine what location method(s) are available to emergency services and location-based Apps.

### **Use wireless networks**

When enabled, this setting lets your phone use cell towers, femtocells, and/or Wi-Fi hot spots to determine your location for emergency and location-based services.

### **Use GPS satellites**

When enabled, this setting lets your phone use GPS satellites to determine your location to street-level for emergency and location-based services.

---

**Note:** Prolonged GPS satellite use drains your battery faster.

---

### **Screen unlock pattern**

Use these settings to determine the unlock method for your phone.

#### **Set/Change unlock pattern**

Enables/disables unlock pattern security.

#### **Require pattern**

When enabled, this setting requires that you draw a pattern on the display to unlock your phone, instead of the default single swipe across the display.

#### **Use visible pattern**

Touching this setting makes the unlock pattern visible/or invisible while you draw it.

#### **Use tactile feedback**

Touching this setting causes the phone to vibrate as you draw the unlock pattern.

### **Passwords**

#### **Visible passwords**

Touching this setting makes passwords visible/or invisible while you type them.

### **Credential storage**

Use the following settings to establish, maintain, and secure credentials storage for your phone.

#### **Use secure credentials**

When enabled, this setting requires that your phone's functions and Apps use stored credentials to secure data communications (such as for E-mail and secure web sites).

#### **Install from SD card**

Touch this setting to install secure credentials from a Memory Card, instead of from network or internet sources.

#### **Set password**

Touch this setting to set or change the secure credential storage on your phone.

#### **Clear storage**

Touch this setting to erase all data from the secure credential storage on your phone.

### **Applications Settings**

#### **Unknown sources**

When enabled, this setting lets you install Apps on your phone from sources other than Google Market. (For more information, refer to "*Apps (Applications)*" on page 54.)

### **Quick launch**

Touch this setting to assign pre-defined keyboard shortcuts to Apps installed on your phone.

### **Manage applications**

Touch this setting to select, move, copy, rename, and remove third-party Apps installed on your phone.

### **Running services**

Touching this setting lets you free up phone memory by reviewing and/or disabling services currently running on your phone.

### **Development**

Touching this setting lets you enable/disable your phone's App development support functions.

### **Accounts & sync Settings**

Touch this option to access the following settings:

#### ***General sync settings***

These settings let you control how and when Apps (for example, Email and Maps) synchronize their data files with network or internet sources (such as, your Wireless Provider's and Google's servers).

### **Background data**

When enabled, this setting lets Apps installed on your phone schedule their synchronization, sending, and receiving of data.

### **Auto-sync**

When enabled, this setting lets Apps installed on your phone synchronize, their data automatically, rather than requiring you to manually synchronize each App's data.

### **Manage accounts**

Lists the messaging accounts (personal and business) that you've defined to your phone, and lets you add more accounts or remove existing accounts.

### **Privacy Settings**

Touch this option to access the following settings:

#### ***Location***

##### **Use My Location**

Touch this setting to enable/disable use of location data on your phone by Google services.

#### ***Personal data***

##### **Factory data reset**

Touch this option to erase all data (such as Contact entries and messages) from your phone.

## SD card & phone storage Settings

Touch this option to access the following settings:

### SD card

#### Total space

Lists the total amount of usable storage space on the Memory card you have installed in your phone. (For more information, refer to “Memory Card” on page 8.)

#### Available space

Lists the amount of unused storage space on the Memory card you have installed in your phone.

#### Unmount SD card

Touching this option frees the Memory card you have installed in your phone so that you can remove it.

#### Format SD card

Touch this option to prepare a Memory card you have installed for use by your phone.

---

**Tip:** If you wish to re-use a memory card from another device. It is best to format the used card before letting your phone store any data on the card.

---

---

**Caution!** Formatting a memory card removes all data from the card.

---

---

**Warning!** Repeated formatting of a memory card reduces its service life. Do not use this option to clear storage space on a memory card.

---

### Internal phone storage

#### Available space

Lists the amount of unused memory in your phone.

### Search Settings

Touch this option to access the following settings:

#### Web search

##### Google search settings

Select whether your phone Shows web suggestions from Google when you enter text (such as for messages) and whether to store Search history information.

#### Quick Search Box

##### Searchable items

This setting lets you allow or block searches of your Contacts list, your Browser bookmarks and history file, Apps (by name), and Music files.

##### Clear search shortcuts

Tap this option to erase all of your previous Search results.



## Language & keyboard Settings

Touch this option to access the following settings:

### **Select locale**

Lets you select English or Español as your phone's display and default input language.

### **Text settings**

#### **Android keyboard**

Touching this setting enables/disables the on-screen, virtual keyboards. This setting does not affect the Phone dial keypad.

#### **Android keyboard settings**

These settings let you select the type of feedback you receive when you touch an on-screen keyboard key and enable/disable automatic capitalization and voice input. You can also control how the Word suggestion (predictive text input) function operates, enabling/disabling automatic fixing of common typos, the multiple word pop-up suggestion list, and automatic insertion of the highlighted word in the suggestion list.

#### **Device keyboard settings**

These settings let you enable/disable automatic fixing of common typos, automatic capitalization, and automatic punctuation for the sliding QWERTY keyboard.

### **User dictionary**

Lets you and words to and remove words from your user dictionary.

## Accessibility Settings

Touch this option to access the following settings:

### **Accessibility**

Touching this setting enables/disables the Accessibility services.

### **Text-to-speech Settings**

Touch this option to access the following settings:

#### **Text-to-speech settings**

##### **Listen to an example**

Touch this option to hear a sample of the voice of speech synthesis, which can read text to you.

##### **Install voice data**

Installs the voice data required for text-to-speech synthesis to generated voice sounds.

##### **Always use my settings**

When enabled, this setting lets you override the speech synthesis default settings.

## Speak incoming caller ID

When enabled, this setting causes speech synthesis to read incoming call Caller ID information to you.

## Default settings

### Speech rate

This setting lets you vary reading speed of the speech synthesis voice from **Very slow** to **Slow**, **Normal**, **Fast**, or **Very fast**.

### Language

This setting lets you select **American English** or **Spanish** as the spoken language produced by speech synthesis.

## Date & time Settings

### Automatic

Touch this setting to enable/disable automatic setting of the phone clock-calendar with values from the network provided by your Wireless Provider.

---

**Note:** When enabled, this setting disables the **Set date**, **Select time zone**, and **Set time** settings.

---

### Set date

When enabled, this setting lets you select the current month, day, and year.

## Select time zone

When enabled, this setting lets you select current time zone by city name from a list.

## Set time

When enabled, this setting lets you select the current hour, minute, and time of day (AM / PM).

## Use 24-hour format

When enabled, this setting displays the current hour as a number between 0 and 23. The AM / PM indicator is disabled.

## Select date format

Touch this setting to set the date format as **Normal** (set by the network), **12/31/2010**, **31/12/2010**, or **2010/12/31**.

## About phone Information

Touch this option to list the following information about your phone's current operating condition, hardware, and software:

- Status
- Battery use
- Legal information
- System tutorial
- Model number
- Firmware version
- Baseband version

- Kernel version
- Build number
- Hardware version

## Section 11: Accessibility

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### Accessibility Services

You can download and install free apps: Kickback, Talkback and Soundback from the Android Market to provide haptic and audio feedback for navigating your phone menus.

- **Kickback:** When enabled, this setting causes your phone to vibrate when you touch Android user interface elements.
- **Talkback:** When enabled, this setting causes your phone to read the names of Android user interface elements when you touch them.
- **Soundback:** When enabled, this setting causes your phone to sound a tone when you touch Android user interface elements.

Once your free downloaded apps are installed, you can enable them in the Settings menu:

1. From the Home screen, touch  → **Settings** → **Accessibility**.
2. Touch **Accessibility** to enable/disable your Accessibility services.

For more information, refer to “*Accessibility Settings*” on page 70.

## Section 12: Health and Safety Information

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This section outlines the safety precautions associated with using your phone. These safety precautions should be followed to safely use your phone.

### Health and Safety Information

#### *Exposure to Radio Frequency (RF) Signals*

#### **Certification Information (SAR)**

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 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 exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR).

The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

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

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 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 phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

- **Head:** 0.29 W/Kg.
- **Body-worn:** 0.98 W/Kg.

SAR information on this and other model phones can be viewed online at <http://www.fcc.gov/oet/ea>. 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 product specific SAR information can also be obtained at [www.fcc.gov/cgb/sar](http://www.fcc.gov/cgb/sar).

## **Please Note the Following Information When Using Your Handset**

### **1. WARNING REGARDING DISPLAY**

The display on your handset is made of glass or acrylic and could break if your handset is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

### **2. WARRANTY DISCLAIMER: PROPER USE OF A TOUCH SCREEN HANDSET**

If your handset has a touchscreen display, please note that a touchscreen 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 touchscreen may damage the tempered glass surface and void the warranty. For more information, refer to “*Standard Limited Warranty*” on page 94.

## **Samsung Mobile Products and Recycling**

Samsung cares for the environment and encourages its customers to recycle Samsung mobile phones and genuine Samsung accessories.

Go to: <http://mobile.samsungusa.com/recycling/index.jsp> or 1-800-822-8837 for more information.

## **UL Certified Travel Adapter**

The Travel Adapter 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 ORIENTATED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.**

## **Consumer Information on Wireless Phones**

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

### ***What kinds of phones are the subject of this update?***

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies.

When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

### ***Do wireless phones pose a health hazard?***

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF 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. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

### ***What is FDA's role concerning the safety of wireless phones?***

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user.

In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;

- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.



FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones.

Base stations are thus not the primary subject of the safety questions discussed in this document.

### ***What are the results of the research done already?***

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless

phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures.

However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

### ***What research is needed to decide whether RF exposure from wireless phones poses a health risk?***

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer.

This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

### ***What is FDA doing to find out more about the possible health effects of wireless phone RF?***

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety.

FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations.

CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

### ***What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?***

If there is a risk from these products - 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 exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

### ***What about children using wireless phones?***

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

### ***Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?***

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

### ***Do wireless phone accessories that claim to shield the head from RF radiation work?***

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that 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 "hand-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. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims.

According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

### ***What about wireless phone interference with medical equipment?***

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard

sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

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

- FCC RF Safety Program:  
<http://www.fcc.gov/oet/rfsafety/>
- Environmental Protection Agency (EPA):  
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):  
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>
- National Institute for Occupational Safety and Health (NIOSH):  
<http://www.cdc.gov/niosh/>
- World Health Organization (WHO):  
<http://www.who.int/peh-emf/>

- International Commission on Non-Ionizing Radiation Protection:  
<http://www.icnirp.de>
- Health Protection Agency:  
<http://www.hpa.org.uk/radiation>
- US Food and Drug Administration:  
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>

## Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.

9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

**"The wireless industry reminds you to use your phone safely when driving."**

For more information, please call 1-888-901-SAFE, or visit our web-site [www.ctia.org](http://www.ctia.org).

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**Important!** If you are using a handset other than a standard numeric keypad, please call 1-888-901-7233.

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Provided by the Cellular Telecommunications & Internet Association.

## Responsible Listening

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**Caution!** Avoid potential hearing loss.

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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 cellular telephones, 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 commonsense recommendations when using any portable audio device:

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- 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 you 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](mailto:info@audiology.org)

Internet: <http://www.audiology.org>

### **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](mailto: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 (1-800-356-4647)

1-800-CDC-INFO (1-800-232-4636)

Outside the U.S. 513-533-8328

Email: [cdcinfo@cdc.gov](mailto:cdcinfo@cdc.gov)

Internet: <http://www.cdc.gov>

1-888-232-6348 TTY

Internet: <http://www.cdc.gov/niosh/topics/noise/default.html>

## **Operating Environment**

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder if you are using an external antenna).

## **Using Your Phone 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 phone. Consult the manufacturer to discuss alternatives.

## **Implantable Medical Devices**

A minimum separation of six (6) inches should be maintained between a handheld wireless phone 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 phone more than six (6) inches from their implantable medical device when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;



- Should turn the phone 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 phone with such a device, consult your health care provider.

For more information see:

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html>

## **FCC Hearing-Aid Compatibility (HAC) Regulations for Wireless Devices**

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids.

The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

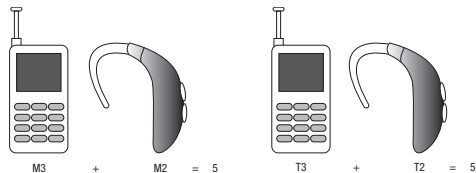
The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

**M-Ratings:** Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

**T-Ratings:** Phones rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. T4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5

is considered acceptable for normal use. A sum of 6 is considered for best use.



In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5.

This is synonymous for T ratings. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone. "Normal usage" in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules.

The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

### **HAC/Wi-Fi Language**

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 about its return and exchange policies and for information on hearing aid compatibility.

### **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 phone 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. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### **Posted Facilities**

Switch your phone off in any facility where posted notices require you to do so.

### **Potentially Explosive Environments**

Switch your phone 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 phone 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.

## **Emergency Calls**

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Touch .
3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
4. Press the  key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

### ***Restricting Children's access to your Phone***

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

## **FCC Notice and Cautions**

### ***FCC Notice***

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

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association:

### **NFPA (National Fire Protection Agency)**

1 Batterymarch Park

Quincy, Massachusetts

USA 02169-7471

Internet: <http://www.nfpa.org>

### ***Cautions***

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers.

The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

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

### **Other Important Safety Information**

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.

- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, 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 both installed or portable wireless equipment 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 phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

## **Product Performance**

### ***Getting the Most Out of Your Signal Reception***

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

### ***Understanding the Power Save Feature***

If your phone is unable to find a signal after searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

### ***Understanding How Your Phone Operates***

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

### ***Maintaining Your Phone's Peak Performance***

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- To ensure that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN components must be disabled during a call. For more information, refer to “Connections” on page 58.
- If your phone is equipped with an external antenna, hold the phone with the antenna raised, fully-extended and over your shoulder.
- Do not hold, bend or twist the phone’s antenna, if applicable.
- Do not use the phone if the antenna is damaged.
- If your phone is equipped with an internal antenna, obstructing the internal antenna could inhibit call performance.
- Speak directly into the phone’s receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

### **Availability of Various Features/Ring Tones**

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

### **Battery Standby and Talk Time**

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

### **Battery Precautions**

- Avoid dropping the cell phone. Dropping it, 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 modify or remanufacture the battery as this could result in serious safety hazards.
- If you use the phone near the network’s base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Follow battery usage, storage and charging guidelines found in the user’s guide.

- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Do not use incompatible cell phone batteries and chargers. Some Web sites 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, leakage, or other serious hazard.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and

lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).

- Do not place the phone in areas that may get very hot, such as on or near a cooking surface, cooking appliance, iron, or radiator.
- Do not get your phone or battery wet. Even though they will dry and appear to operate normally, the circuitry could slowly corrode and pose a safety hazard.
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, 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.
- Do not permit a battery out of the phone to come in contact with metal objects, such as coins, keys or jewelry.
- Do not crush, puncture or put a high degree of pressure on the battery as this can cause an internal short-circuit, resulting in overheating.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

## Care and Maintenance

Your phone 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 the phone and all its parts and accessories out of the reach of small children.
  - Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
  - Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
  - Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
  - Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
  - Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
  - Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
  - Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
  - Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
  - If your phone is equipped with an external antenna, use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
  - If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.



## Section 13: Warranty Information

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### Standard Limited Warranty

#### What is Covered and For How Long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC ("SAMSUNG") warrants to the original purchaser ("Purchaser") that SAMSUNG's Phones 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 and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

**What is Not Covered?** This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number

removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada.

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, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service

facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG.

If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

**WHAT ARE THE LIMITS ON SAMSUNG'S WARRANTY/LIABILITY?**

EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY

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- DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;
- THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR
- COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS OF ANY LAW, RULE, SPECIFICATION OR CONTRACT PERTAINING THERETO.

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### ***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.

---

Customer Care Center:

1000 Klein Rd.

Plano, TX 75074

Toll Free Tel: 1.888.987.HELP (4357)

Samsung Telecommunications America, LLC:

1301 East Lookout Drive

Richardson, Texas 75082

Phone: 1-800-SAMSUNG (726-7864)

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**Important!** If you are using a handset other than a standard numeric keypad, dial the numbers listed in brackets.

---

Phone: 1-888-987-HELP (4357)

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