Getac

Z710

USER MANUAL

Rugged Mobile Computing Solutions

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assumes no liability for damage incurred directly or indirectly from errors,
omissions, or discrepancies between the device and the manuals.

Notes
Depending on the specific model purchased, the color and look of your
device and accessories may not exactly match the graphics shown in this
document.
The screenshots and other presentations shown in this document are for
reference only. They may differ from the actual screens and presentations
generated by the actual product.
Your device is based on Google's open-source Android 2.3 operating system,
with additions by Getac. It does not include Google's closed-source
applications such as Gmail, Google Maps, Android Market, etc.
For the latest version of the manual, please visit the Getac website at
www.getac.com.
Detailed instructions on using Android 2.3 are also provided in the *User's
Guide* available from Google's website. Note that not all applications and
features described in Google's document are supported by your device.

Table of Contents

Chapter 1

Getting Started

This chapter introduces you to the external components of your device and guides you through the process of setting up your device for use.

Identifying Hardware Components

Front Components
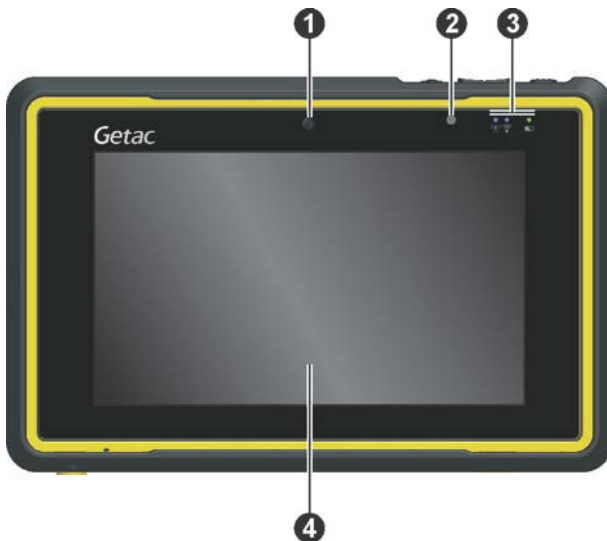
Ref	Component	Description	See Also
❶	**Camera Lens**	Takes still pictures or records video clips. The front lens supports 1 MP (mega pixel).	P. 7-1
❷	**Light Sensor**	Senses the ambient light for automatic adjustments of the display backlight.	
❸	**Indicators**		
	Mobile Phone Indicator	Flashes in **blue** to indicate that the phone function (select models only) is switched on.	P.3-2
	RF (Radio Frequency) Indicator	Flashes in **blue** to indicate that the Bluetooth radio is on.	P. 3-6
		Flashes in **amber** to indicate that the WLAN (wireless network) radio is on.	P. 3-3
		Flashes in **purple** to indicate that the GPS receiver is on.	
		If more than one module is switched on, the indicator changes color in a cyclic way.	
	Charge/ Notification Indicator	Glows in **amber** to indicate that battery charging is in progress.	P. 1-8
		Glows in **green** to indicate that the battery is fully charged.	
		Glows in **red** to indicate that the battery power is critically low (less than 10%).	
		Flashes in **red** to inform you of scheduled appointments, alarms and reminders.	
❹	**Touch Screen**	Displays the output of your device and responds to your tapping.	P. 2-2

Back Components
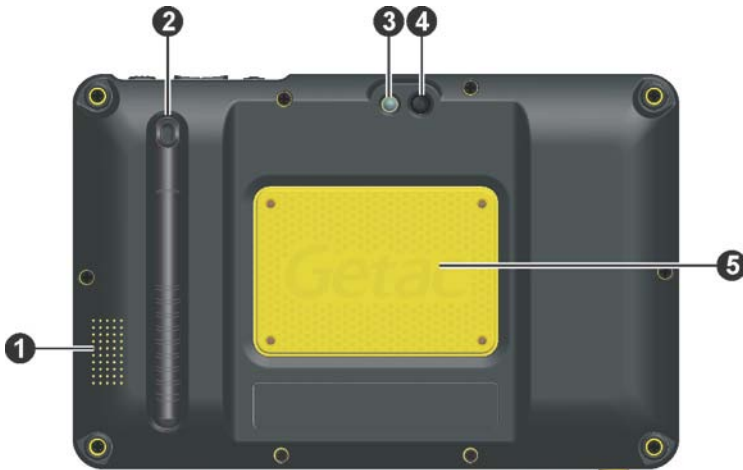
Ref	Component	Description	See Also
❶	**Speaker**	Plays music, sounds and voices.	
❷	**Stylus**	Serves as the input device by tapping on the touchscreen to make selections and enter information. Store it in the slot when not in use.	P. 2-2
❸	**Flash**	Provides extra light when taking pictures.	P. 7-3
		Can also function as torch light when set accordingly.	
❹	**Camera Lens**	Takes still pictures or records video clips. The rear lens supports 5 MP (mega pixel).	P. 7-1
❺	**RFID Antenna** (Optional)	Inside is the RFID antenna that reads RFID (Radio-frequency identification) tags.	P. 8-11

Top Components

Ref	Component	Description	See Also
❶	**Barcode Reader Lens** (Optional)	Scans and reads barcodes.	P. 8-1
❷	**Power Button**	Starts up your device.	P. 2-1
		Turns off or restores the screen.	
		When pressed longer: Opens a menu with options for **Silent mode**, **Airplane mode**, and **Power off**.	
❸	**Volume Control Buttons**	◁)) decreases the sound volume.	
		◁+)) increases the sound volume.	
❹	**Trigger Button**	Provides the "trigger" function for the barcode reader application.	P. 8-1

Bottom Components
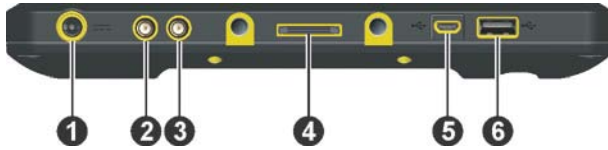
Ref	Component	Description	See Also
❶	**Power Connector**	Connects to the AC adapter.	P. 1-8
❷	**WWAN Pass-through Connector** (Optional)	Connects the external antenna for WWAN (wireless wide area network) 3G connectivity.	
❸	**GPS Pass-through Connector** (Optional)	Connects the external antenna for GPS signal reception.	
❹	**Docking Connector**	Connects to the office or vehicle dock (purchased separately).	
❺	**Micro USB Host Connector**	Connects to a computer via USB cable (purchased separately) for data transfer.	P. 3-10
❻	**USB Client Connector**	Connects to a USB device.	

Left-Side Components
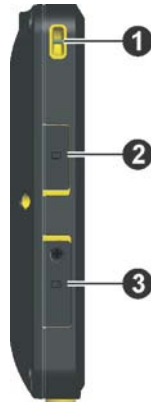
Ref	Component	Description	See Also
❶	**Tether Holder**	For holding a tether (such as the stylus tether). There is one holder on the left side and another on the right side.	P. 1-11
❷	**MicroSD Card Cover**	Inside is the microSD card slot.	P. 1-10
❸	**SIM Card Cover**	Inside is the SIM card slot (for select models only).	P. 1-7

Getting Your Device Ready for Use

Installing the SIM Card (Select Models Only)

1. Remove the screw from the SIM card cover and flip open the cover.

2. With the SIM card's chip side facing the back of the device and the beveled corner pointing to the slot, insert the card all the way into the slot.

NOTE: To remove the SIM card, slightly push in the card to release it and then pull the card out of the slot.

3. Close the cover and tighten the screw.

Connecting to AC Power and Charging the Battery

Be sure to fully charge the battery before using your device for the first time.

1. Fit the converter plug to the AC adapter (❶).

2. Connect the DC jack end of the AC adapter to your device (❷) and the other end to a wall outlet (❸).

Converter Plug
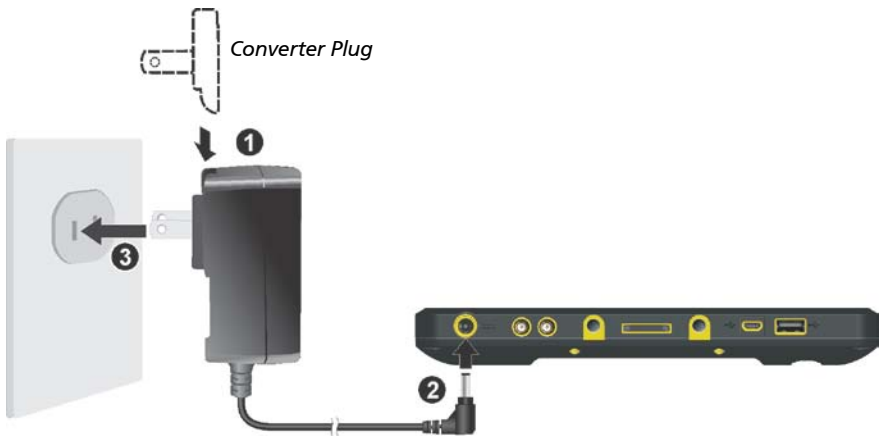
3. The charge indicator glows in amber when charging is in progress. Do not disconnect your device from AC power until the battery is fully charged, as indicated by the amber indicator turning into green. This will take a couple of hours.

CAUTION: For optimal performance of the lithium battery, take note of the following:
● Use the included AC adapter only.
● There is no need to fully discharge the battery before charging. You can charge the battery before it is discharged.

- Do not charge the battery where the temperature is high (e.g. in direct sunlight).
- As a battery protection, store the device where the temperature is appropriate. Avoid high temperatures.
- The battery can be charged when its temperature is between 0°C (32°F) and 40°C (104°F).
- If you will not use the product for a long period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect the charging performance.

Performing the Initial Startup

When turning on your device for the very first time, you will be guided through a setup process.

1. Make sure that your device is either connected to AC power or the battery has power.

2. Press the power button.

   The device powers up and displays the initial screen.

3. **Select Models Only:** If a SIM card has been inserted and the mobile phone network operator (or you) has set the PIN, you will be prompted to enter the PIN. Tap **OK** after entering the PIN.

4. Follow the on-screen instructions to complete the initial setup process.

5. After the setup is completed, the Home screen appears. You can now use your device.

Using Options

Using a MicroSD Card

Your device has a microSD card slot where you can insert a microSD memory card.

Inserting a MicroSD Card

1. Flip open the microSD card cover.

2. Insert the card into the slot, with the connector pointing to the slot and its label facing the front of the device.

3. Close the cover.

Removing an SD card

You can safely remove the SD card from your device any time the device is shut down. If you need to remove the card while the device is on, unmount the card first to prevent corrupting or damaging the card.

To unmount:

1. Go to the Home screen and tap ▤ in the navigation bar.

2. Tap **Settings → Storage → Unmount SD card**.

3. Flip open the microSD card cover. Press the edge of the card to release it and then pull the card out of the slot.

Using the Tether

A tether is provided for attaching the stylus to your device.

1. Insert one of the tether's loop ends through the hole of the stylus (as indicated by ❶ below). Then, insert the other end through the first loop (as indicated by ❷ below) and pull it tight.

2. Insert the other loop end to the right-side holder on the device (as indicated by ❶ below). Then, insert the stylus end through the loop (as indicated by ❷ below) and pull it tight.

Chapter 2

Basic Skills

This chapter familiarizes you with the basic operations of your device.

CAUTION: The device can get uncomfortably warm when you use it in high temperatures. In such a circumstance, please take safety measures (such as wearing gloves) to protect yourself. Prolonged body contact can cause discomfort and potentially a burn.

Waking Up and Shutting Down

Waking Up

Your device sleeps after a period of inactivity (1 minute by default). You can also manually put your device to sleep by briefly pressing the power button.

To wake up, press the power button and, at the lock screen, drag the lock icon to the other side of the screen.

Shutting Down

Press and hold the power button until a menu pops up. Tap **Power off** and then **OK**.

Navigating on the Screen

NOTE: The stylus can be tethered to your device. Store it in the slot (on the back of your device) when not in use.

Use the stylus (or your finger) to navigate and select objects on the screen.

Here are some common terms that you should know when using the touchscreen:

- **Tap**
  Touch the screen once with the stylus to open an item or select an object.

- **Tap and hold**
  Tap and hold the stylus on an item to see a list of actions available for that item.

- **Drag**
  Hold the stylus on an item and, without lifting the stylus, move across the screen until you reach the target position.

- **Swipe or slide**
  Move the stylus across the screen, without pausing when you first touch it (so you don't "drag" instead). For example, you slide the screen up or down to scroll a list.

- **Pinch**
  In some applications (such as Browser and Gallery), you can zoom in and out by placing two fingers on the screen at once and pinching them together (to zoom out) or spreading them apart (to zoom in).

Landscape or Portrait View

Your device supports a landscape view and a portrait view (rotate 90° to the left) as shown below. The display orientation changes automatically when you rotate the device 90° to the left or back.

Landscape   **Portrait**
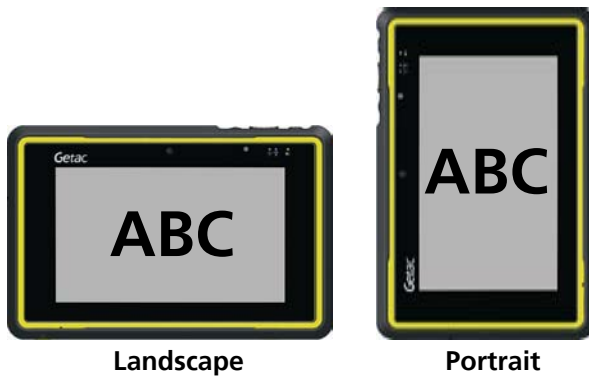
NOTE: The orientation remains landscape when you rotate the device 90° to the right or 180° to an upside down manner.

Home Screen

The Home screen is your starting point to access all the features on your device. You can have it display application icons, widgets, shortcuts, and other features that you want. The default Home screen already contains some shortcuts and widgets.

At the top of the screen, the Status bar displays the time, information about the status of your device, and icons for notifications that you've received.

To return to the Home screen at any time, tap ⌂ at the bottom of the screen.

Extensions to the Home Screen

You can slide left or right across the Home screen to see other parts of the Home screen. The extensions to the Home screen provide more space for widgets, shortcuts, and other items.

Small dots at the lower left and right indicate which screen you're viewing. Tap and hold the small dots on the lower left or right of the screen to view thumbnails of the Home screen and its extensions, which you can tap to open.

Items on the Home Screen

There are three types of items you can add to the Home screen. They are:

● **Shortcuts**
  Add shortcuts to applications, a bookmarked webpage, a favorite contact, a music playlist, and many other items. The shortcuts available depend on the applications you have installed.

● **Widgets**
  Add any of a variety of miniature applications (widgets) to your Home screen, including a clock, a music player, a picture frame, a calendar that shows upcoming appointments, etc.

● **Folders**
  Add a folder where you can organize Home screen items, or folders that contain your contacts. Your folders' contents are kept up to date automatically.

Shortcut

Folder
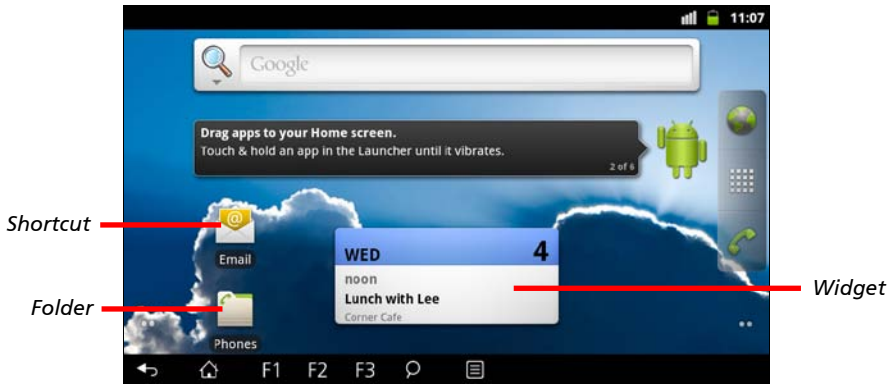
Widget

Customizing Your Home Screen

You can add application icons, shortcuts, widgets, and other items to any part of the Home screen. You can also change the wallpaper.

Adding an Item to the Home Screen

1.   Open the Home screen where you want to add the item.

2.   Tap ▤ in the navigation bar and tap **Add**.

     - or -

     Tap and hold an empty location on the Home screen.

3.   In the menu that opens, tap the type of item to add.

4.   Tap the item to add.

Moving an Item on the Home Screen

1.   Tap and hold the item you want to move, until it is enlarged. Don't lift the stylus.

2.   Drag the item to a new location on the screen.

Pause at the edge of the screen to drag the item onto another Home screen pane.

3. When the item is where you want it, lift the stylus.

Removing an Item from the Home Screen

1. Tap and hold the item you want to remove, until it is enlarged. Don't lift the stylus.

   The Launcher icon changes to a Trash Can icon.

2. Drag the item to the Trash Can icon.

Changing the Wallpaper

1. While on the Home screen, tap ▤ in the navigation bar and tap **Wallpaper**.

   - or -

   Tap and hold an empty area of the Home screen and in the menu that opens, tap **Wallpapers**.

2. Tap **Pictures** or **Wallpapers**.

   Tap **Pictures** to use a picture that you have in your device. You can crop the picture before setting it as wallpaper.

   Tap **Wallpaper** to open a screen where you can sample the wallpaper images that come with the device. Slide the miniature images left and right to view the samples.

3. Tap **Save** or **Set wallpaper**.

Using the Launcher

The Launcher holds icons for all of the applications on your device.

To open the Launcher, tap ▦ at the right side of the Home screen. If you have more applications than can fit on the Launcher in one view, you can slide the Launcher up or down to view more.
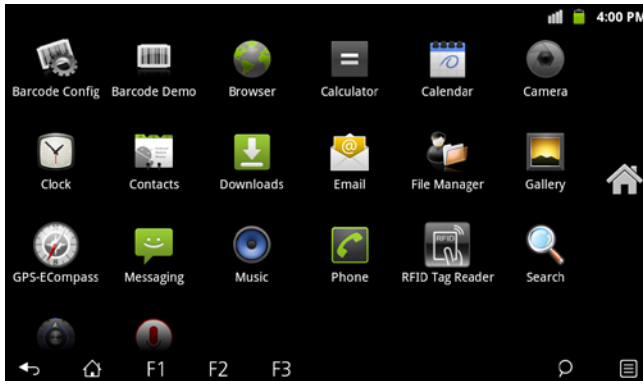
Tap an icon in the Launcher to open the application. When you open an application, the other applications you've been using keep on running. You can quickly switch among your applications, to work with several at once.

To switch to a recently used application, press and hold 🏠 at the bottom of the screen to open a small window with icons of applications that you've used recently.

Working with Menus

There are two kinds of Android menus: options menus and context menus.

Options Menus

Options menus contain tools that apply to the activities of the current screen or application, not to any specific item on the screen.
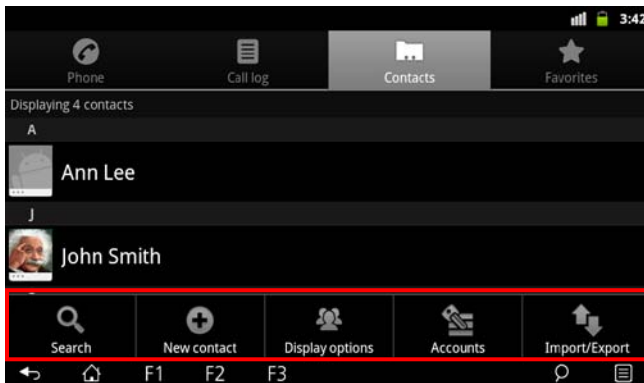
You open an options menu by tapping ▤ in the navigation bar.

NOTE: Not all screens have options menus.

Context Menus

Context menus contain tools that apply to a specific item on the screen.

You open a context menu by tapping and holding an item on the screen.

NOTE: Not all items have context menus.

Navigation Bar

The navigation bar at the bottom of the screen provides buttons for navigation purposes and frequently-used tasks.
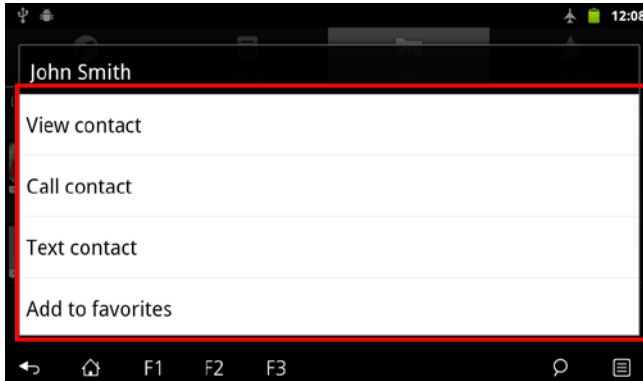
Button	Name	Description	See Also
	Back	Goes back to the previous screen.	
	Home	Opens the Home screen.	P. 2-3
	F1	Opens File Manager by default.	P. 8-4
		You can assign a different application to the button.	P. 9-12
	F2	Opens GPS-ECompass by default.	P. 8-7
		You can assign a different application to the button.	P. 9-12
	F3	Opens Camera by default.	P. 7-1
		You can assign a different application to the button.	P. 9-12
	Search	Opens the Search box.	P. 2-15
	Menu	Opens a menu with items that affect the current screen or application.	P. 2-9

Status Bar

The Status bar appears at the top of almost every screen. It displays icons indicating that you've received notifications (on the left) and icons indicating the phone's status (on the right), along with the current time.

Notifications icons   *Status icons*

Notification icons report the arrival of new messages, events, and alarms. When you receive a notification, its icon appears in the Status bar, along with a summary that appears only briefly.

You can open the Notifications panel to view a list of all your notifications. Use one of the two methods to open the panel:

● Drag the Status bar down from the top of the screen.

● While on the Home screen, tap ▤ in the navigation bar and tap **Notifications**.

To respond to a notification, tap it in the panel.

To clear all event-based notifications, tap **Clear** at the top right of the panel.

To close the Notifications panel, drag the tab at the bottom of the Notifications panel to the top of the screen or tap ↩ in the navigation bar.

Quick Contact

As you build up your list of contacts on your device, you can use Quick Contact for Android in many applications to quickly start a chat, email, or text message, to place a call, or to locate your contacts. Quick Contact for Android is a special icon that you can tap to open a bubble with options for quickly initiating a connection to that contact.

Contacts that you can access with Quick Contact are displayed differently in different applications, but usually with a picture frame that looks like this:

Tap a Quick Contact icon to open a bubble with icons for all the ways you can communicate with the contact. Tap an icon to start communicating with the contact in that application.
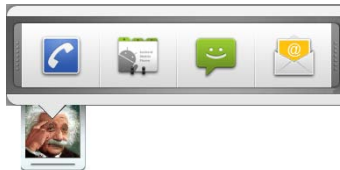
You can add a shortcut for a contact to your Home screen, which you can then tap to open Quick Contact for Android for that contact. (For more information about adding shortcuts to the Home screen, see "Adding an Item to the Home Screen" earlier in this chapter.)

Entering Information

Using the Onscreen Keyboard

You enter text, numbers, and symbols using the onscreen keyboard. Some applications open the keyboard automatically. In others, you tap an input field where you want to enter text to open the keyboard.

To enter text, tap the keys on the keyboard to type.

NOTE:
- Tap and hold a vowel or the C, N, or S key to open a small window where you can tap an accented vowel or other alternate letter.
- If you've used the Android Keyboard settings to make more than one language available, you can slide left or right on the Space key to cycle to the previous or next language. (For settings information, see "Language and Keyboard Settings" in Chapter 9.)

To enter numbers or symbols, tap the Symbols key ?123 to switch to the numbers and symbols keyboard. Tap the Alt key on the symbols keyboard to view additional symbols; press it again to switch back. Tap and hold a key to open a window of additional symbols.

Editing Text

You can edit the text you enter in text fields and use menu commands to cut, copy, and paste text, within or across applications. Some applications don't support editing some or all of the text they display; others may offer their own way to select text you want to work with.

Searching Information

You can search for information on your device and on the web using Google search.

1. Access the Search box by one of the below ways.

   - Tap ⬯ in the navigation bar. In applications such as Contacts, the application's own search box opens when you press the key.

   - Tap the **Search** icon in the Launcher (▦).

2. If you want to target where to search, tap the icon at the left of the search box.

   A panel opens with icons for All, for Web, and for the applications you've checked in the Searchable items settings. Tap the icon that represents where you want to search.
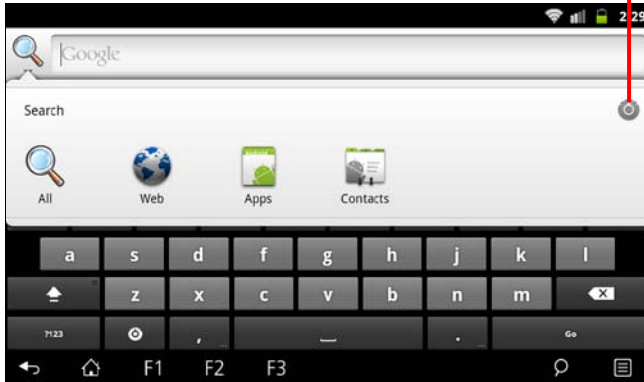
3. Type in the input field.

   If you're searching the web, suggestions from Google web search are added to the list of previously chosen search results. If you're searching the device, matching items on your device appear in the list.

4. If what you're searching for is in the list of suggestions or previously chosen search results, tap it in the list.

   If what you're searching for is not in the list, tap the icon at the right of the search box or tap the **Go** key on the onscreen keyboard to search.

5. The search result displays in the appropriate application, such as Contacts or the Browser.

Locking the Screen

The lock screen displays whenever you turn on your device or wake up the screen. By default, you unlock the screen by dragging the lock icon to the other side of the screen.

You can configure screen lock security so that only a pattern, PIN, or password can unlock the screen. (See "Location and Security Settings" in Chapter 9 for information on configuring screen lock security.)

Chapter 3

Getting Connected

This chapter tells you how you can get your device connected through a variety of ways.

Overview

Types of Connections

Your device can connect to a variety of networks and devices, including mobile networks for voice and data transmission, WLAN networks, and Bluetooth devices, such as headsets. You can also connect your device to a computer to transfer files.

Entering Airplane Mode

Some locations may require you to switch off all wireless radios. You can do so by placing your device in Airplane mode.

To quickly enter Airplane mode, press and hold the power button until a menu pops up. Tap **Airplane mode**. The 🛫 icon displays in the Status bar.

Connecting to Mobile Networks (Select Models Only)

Your device supports HSDPA (High-Speed Downlink Packet Access). HSDPA is an enhanced 3G (third generation) mobile telephony communications protocol. It can operate on 850/900/1800/1900/2100MHz.

To use the phone, you need to first set up an account with a mobile phone network service provider. The functions available to you depend on the services offered by your service provider and your type of subscription.

Your service provider will provide you with a SIM card. This card contains your mobile phone account details and rights, contacts that can be stored and any additional services to which you have subscribed. You must install a SIM card before you can make or receive phone calls or use wireless data services. (See "Installing the SIM Card" in Chapter 1 for installation instructions.)

Checking or Modifying Mobile Network Settings

The icons in the Status bar indicate which kind of data network you're connected to and the voice and data network signal strength.

Initially, your device is configured to use the fastest mobile network available for data. But you can configure your device to use only a slower 2G network for data, to extend the life of your battery between charges. You can also configure your device to access a different set of networks entirely, or to behave in special ways when roaming.

While on the Home screen, tap ▤ in the navigation bar. Tap **Settings → Wireless & networks → Mobile networks**. From here you can check what network you're using, enable or disable data roaming, and limit your data connections to 2G networks. (See "Wireless and Networks Settings" in Chapter 9 for information.)

Using WLAN Networks

WLAN (wireless local area network) is a wireless networking technology that can provide Internet access at distances of up to 100 meters.

Turning WLAN On or Off

Tap the widget on the Home screen (default configuration) to turn WLAN on or off.

Or, perform these steps:

1. While on the Home screen, tap in the navigation bar.

2. Tap **Settings → Wireless & networks**.

3. Tap **WLAN** to change the WLAN radio status.
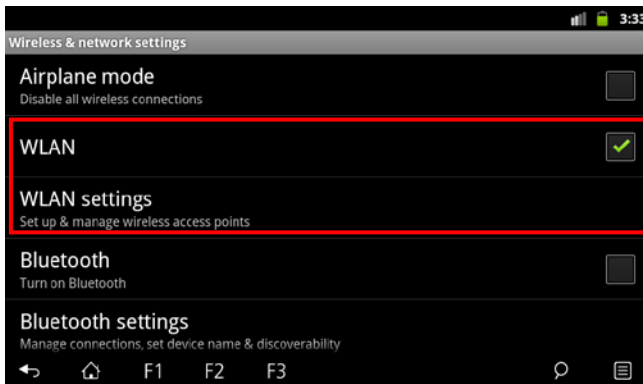
If your device finds a network that you connected to previously, it connects to it.

NOTE: When not using WLAN, turn off the radio. Leaving the radio on will consume more power.

Connecting to a WLAN Network

1. Make sure the WLAN radio is on. (See "Turning WLAN On or Off" previously.)

2. While on the Home screen, tap ▤ in the navigation bar.

3. Tap **Settings → Wireless & networks → WLAN settings**.

4. Your device scans for available WLAN networks and displays the names in the **WLAN settings** screen.

   If there is a need to re-scan, open the options menu (by tapping ▤ in the navigation bar) and tap **Scan**.
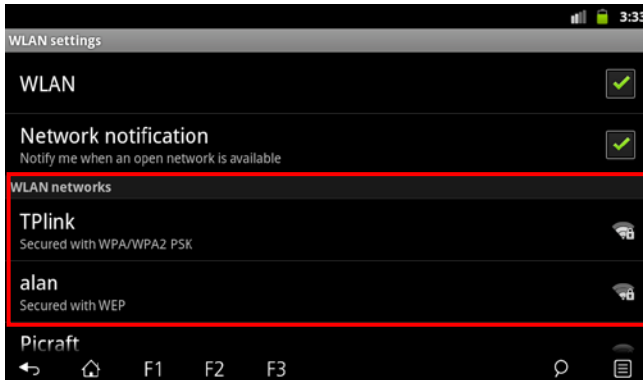
5. On the list of discovered networks, tap the one you want to connect to.

6. If the network is secured, you're prompted to enter a password or other credentials.

   If the network is open, you are prompted to confirm that you want to connect to it.

Managing WLAN Settings

Modifying or Removing Settings

When connected to a network, you can tap its name in the **WLAN settings** screen for details about the speed, security, address, and related settings.

If you need to modify the settings, tap and hold the name of the network and tap **Modify network**.

If you don't want your device to connect to a remembered network anymore, tap and hold the name of the network and tap **Forget network**.

Manually Adding a WLAN Network

You can manually add WLAN settings for a network that does not broadcast its name (SSID) or is currently out of range. In the **WLAN settings** screen, tap **Add WLAN network** (at the bottom of the list of discovered networks).

Using the Bluetooth Function

NOTE: Getac does not guarantee the product's compatibilities with the Bluetooth headsets/devices from all manufacturers.

Bluetooth technology is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange information over a distance of about 10 meters (30 feet) without requiring a physical connection.

Turning Bluetooth On or Off

Tap the widget on the Home screen (default configuration) to turn Bluetooth on or off.

Or, perform these steps:

1. While on the Home screen, tap in the navigation bar.

2. Tap **Settings → Wireless & networks**.

3. Tap **Bluetooth** to change the Bluetooth radio status.

    When turned on, the Status bar displays the icon.

NOTE: When not using the Bluetooth function, turn off the Bluetooth radio. Leaving the radio on will consume more power.

Pairing with a Bluetooth Device

The first time you use a new Bluetooth device with your device, you must "pair" them, so that they know how to connect securely to each other. After that, you can simply connect to a paired device.

1. Make sure that the other Bluetooth device is set as "discoverable" and within range.
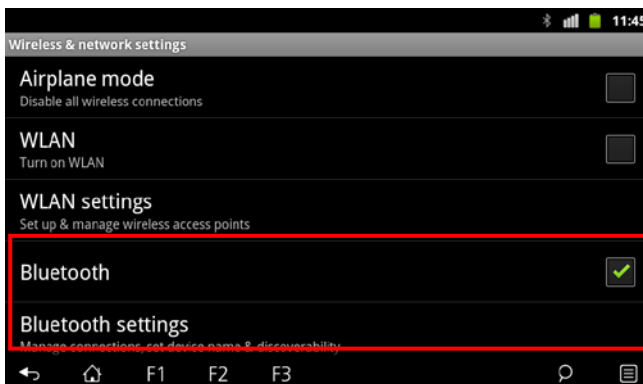
2. Make sure the Bluetooth radio is on. (See "Turning Bluetooth On or Off" previously.)

3. While on the Home screen, tap 📖 in the navigation bar.

4. Tap **Settings → Wireless & networks → Bluetooth settings**.

    Your device scans for and displays the IDs of all available Bluetooth devices in range.
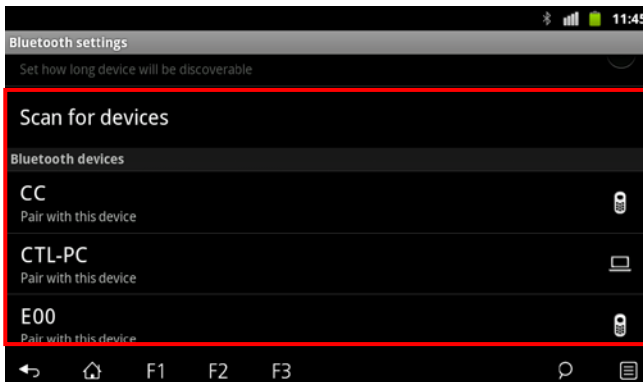
5. Some Bluetooth devices have multiple profiles. To select which profiles you want to use with your device, tap and hold the device, tap **Options** in the menu that opens. Check or uncheck a profile to use it or not.

6. On the list of discovered devices, tap the ID of the device you want to pair with.

7. The devices pair with each other. If you're prompted to enter a passcode, try entering 0000 or 1234 (the most common passcodes), or consult the documentation that came with the device to learn its passcode.

   If the pairing is successful, your device connects to the device.

Connecting to a Paired Bluetooth Device

Once paired, you can connect to a Bluetooth device.

1. While on the Home screen, tap in the navigation bar.

2. Tap **Settings → Wireless & networks → Bluetooth settings**.

3. In the list of devices, tap a paired but unconnected device in the list.

   If the device you expected isn't displayed, tap **Scan for devices**.

4. When connected, the Status bar displays the icon.

Managing Bluetooth Settings

While in the Bluetooth settings screen, you can change settings such as your device's Bluetooth name and discoverable mode.

To disconnect from a Bluetooth device, tap the device in the list and tap **OK** to confirm that you want to disconnect.

To unpair a Bluetooth device, tap and hold the device in the list and tap **Unpair** or **Disconnect & unpair** in the menu that opens.

Connecting to VPNs

VPNs (Virtual private networks) allow you to connect to the resources inside a secured local network, from outside that network.

Adding a VPN

NOTE: To configure VPN access from your device, you must obtain the details from your network administrator.

1. While on the Home screen, tap ▤ in the navigation bar.

2. Tap **Settings → Wireless & networks → VPN settings**.

3. Tap **Add VPN**.

4. Tap the type of VPN to add.

5. Configure each component of the VPN settings following the instructions from your network administrator.

6. Tap ▤ in the navigation bar and tap **Save**.

   The VPN is added to the list on the VPN settings screen.

Connecting to a VPN

1. While on the Home screen, tap ▤ in the navigation bar.

2. Tap **Settings → Wireless & networks → VPN settings**.

   The VPNs you've added are listed on the VPN settings screen.

3. Tap the VPN to which you want to connect.

4. In the dialog that opens, enter any requested credentials and tap **Connect**.

   When you're connected to a VPN, you receive an ongoing notification in the Status bar.

Disconnecting from a VPN

To disconnect from a VPN, open the Notifications panel and tap the ongoing notification for the VPN connection.

Connecting to a Computer via USB

You can connect your device to a computer with the USB cable, to transfer files between your device and the computer.

Use the USB cable (available to you as an option) to connect the device to a USB port on your computer.

Adding an Account

If you have a Microsoft Exchange ActiveSync account (Exchange 2003 and 2007) at work or a Google account on the web, you can add the account in your device so you can sync contacts, email, and calendar events with your device from that account.

NOTE: To add some accounts, you may need to obtain details from an IT support representative about the service to which the account connects.

1. Make sure your device is connected to the Internet either through WLAN or 3G.

2. While on the Home screen, tap ▤ in the navigation bar.

3. Tap **Settings → Accounts & sync Settings → Add account**.

4. Enter your email address and password.

5. Tap **Next**.

   Your device attempts to communicate with your account service provider to validate your account. If the process does not work, you can enter the information manually. (Contact your IT administrator for account details.)

6. Configure the sync options.

   When you're finished, the account is added to the list. Depending on how you configured the account, email, contacts, and other information start syncing to your device.

NOTE: To change sync settings, open the Accounts & sync screen and tap the account.

Chapter 4

Placing and Receiving Calls (Select Models Only)

This chapter tells you how to use the Phone application.

Opening the Phone Application

You can open the Phone application by several ways:

● Tap the Phone icon at the right side of the Home screen.

● Tap the **Phone** application icon in the Launcher ( ).

● Tap a phone number item in an application.

Placing a Call

There are several ways you can place a call.

Dialing a Call

1. Open the Phone application. Or, if you are currently using Phone or Contacts, tap the **Phone** tab.

2. Tap the keys on the phone keypad to enter phone number.

    If you enter a wrong number, tap ⌫ to erase digits one by one. To erase the entire number, tap and hold ⌫ .
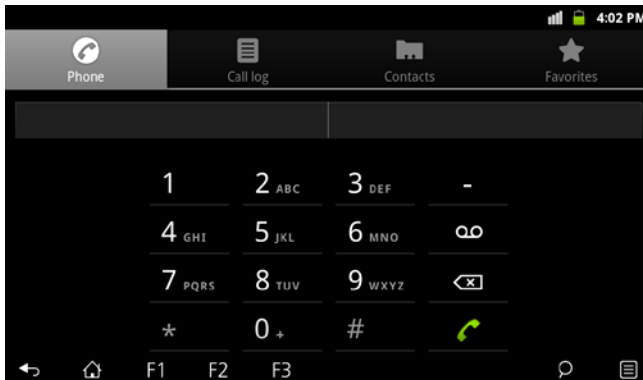
3. Tap the green phone icon on the screen to place the call.

Placing a Call from Contacts

1. Open the Phone application. Tap the **Contacts** tab.

    If calling a contact in the favorite contacts list that you have created, you can tap the **Favorites** tab.
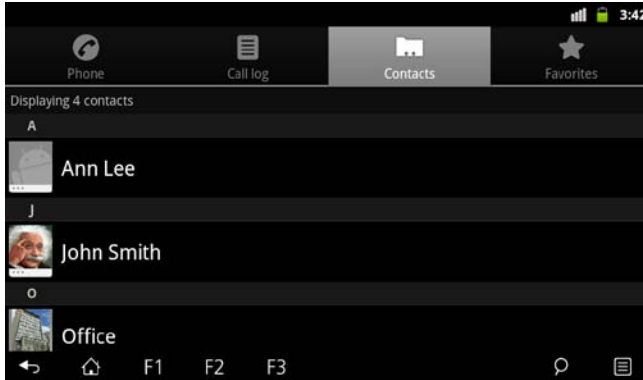
2. Tap the contact to call.

3. Tap the phone number to use to call the contact.

NOTE:
- You can also quickly call a contact by using Quick Contact. (See "Quick Contact" in Chapter 2 for information.)
- For detailed information on Contacts, see "Contacts" in Chapter 5.

Placing a Call from the Call Log

The Call log is a list of all the calls you've made, received or missed.

1. Open the Phone application. Tap the **Call log** tab.
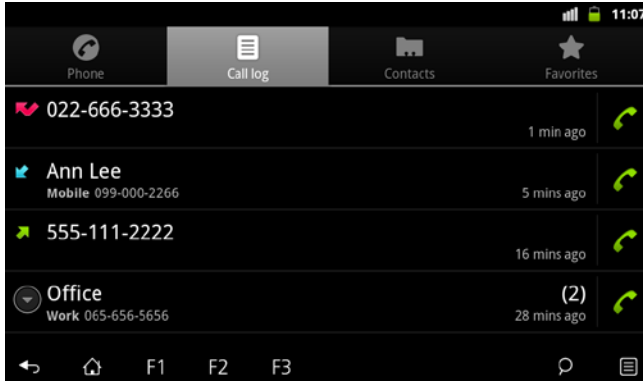
2. Tap the green phone icon at the right of the entry.

NOTE: See "Using Call Log" later for detailed information on Call log.

Responding to a Call

When you receive a phone call, the Incoming Call screen opens with the caller ID and any additional information about the caller that you have entered in Contacts.

Answering a Call

To answer an incoming call, drag the green phone icon to the right.

Declining a Call

To decline an incoming call, drag the red phone button to the left.
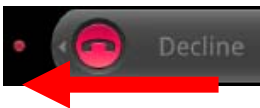
Ending a Call

To end a call, tap the red phone button [icon] on the screen.

During a Call
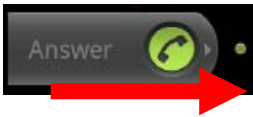
Adjusting the Phone Volume

To adjust the call volume, use the volume control button on your device ([icon] to increase or [icon] to decrease).

CAUTION: Never raise the sound volume level too high when using earphones. An excessive sound volume level could cause damage to your hearing.

Using Additional Functions

When a call is in progress, you can put a call on hold, create a phone conference, mute your microphone, and more. Use the icons on the screen for various operations
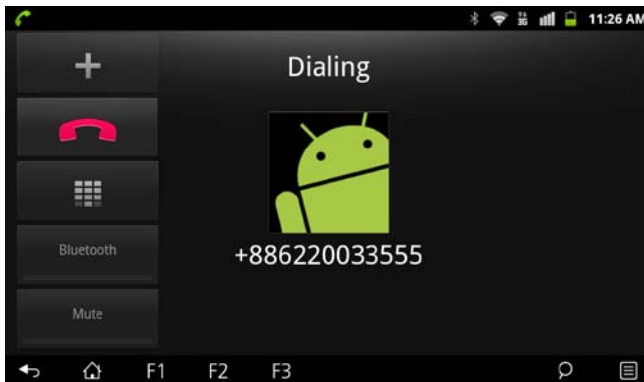
Icons	Functions
+	Allows you to place another call while putting the current call on hold. (See "Setting up a Conference Call" later for more information.)
	Places the call on hold. To take the call off hold, tap the **Unhold** button.
Bluetooth	Switches between a Bluetooth headset and the phone. When a Bluetooth headset is paired and connected to your phone, you can conduct all calls on the headset for hands-free conversation.
Mute	Mutes the microphone during the call. To unmute, tap the icon again.
Swap calls	Switches between current calls. If you accept a new call when you're already on a call, you can switch between the two callers.
Merge calls	Merges the current calls into a conference call. (See "Setting up a Conference Call" later for more information.)

Setting up a Conference Call

NOTE: You may need to consult your mobile phone network service for the availability and subscription of the conference call function.

1. Place a call to the first participant.

2. When you're connected, tap **Add call**.

   The first participant is put on hold and you're prompted to place the second call.

3. Place the next call.

4. When you're connected, tap **Merge calls**.

   The participant is added to the conference call. You can add as many calls as your mobile phone network service supports.

5. During a conference call, tap **Manage** to drop a conference call participant or to talk privately with one of the participants.

More Phone Operations

Using Call Log

The Call log is a list of all the calls you've placed, received, or missed. It offers a convenient way to redial a number, return a call, or add a number to your Contacts.

Calls are listed with the most recent at the top. Scroll to view earlier entries in the log.

Missed call

Outgoing call

Incoming call

Tap to call back.

Calls exchanged sequentially with the same number
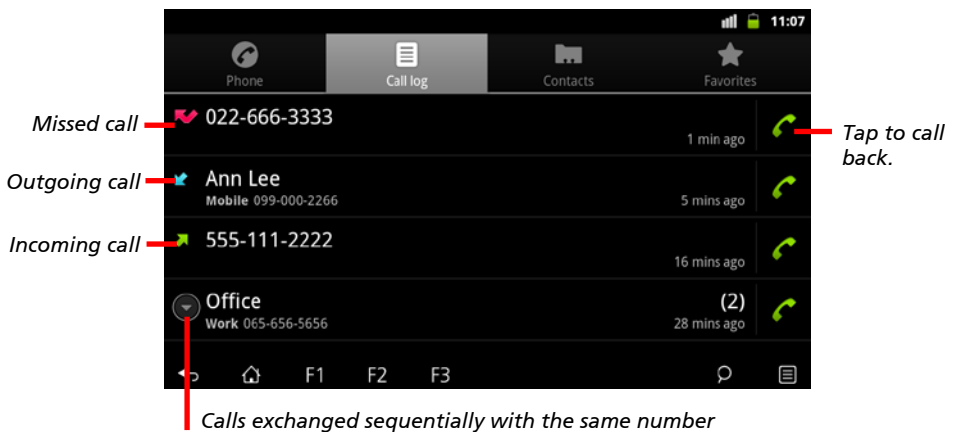
Tap a Call log entry to open a screen where you can call the contact again, send the contact a message, add the number to your Contacts, and learn more about the original call.

Tap and hold a Call log entry to open a menu where you can call the contact, view contact information, edit the number before you redial, and more.

To clear the call log list, tap ▤ in the navigation bar and tap **Clear call log**.

Reading or Sending Messages

To read or send text messages (SMS) and multimedia messages (MMS), use the Messaging application. See "Messaging" in Chapter 6 for information.

Checking Your Voicemail

When you have a new voicemail message, the voicemail icon appears in the Status bar. To listen to your voicemail, open the Notification panel and tap **New Voicemail**. Or you can check your voicemail by tapping the Voicemail icon in the Phone keypad.

If you have not set up your voicemail number, or if you need to change it, you can do that with the Call settings. (See "Call Settings" in Chapter 9.)

Making an Emergency Call

You can use your device to dial the international emergency number 112. This number can normally be used to make an emergency call in any country with or without a SIM card inserted, as long as you are within a mobile phone network.

Some mobile phone network services may require that a SIM card be inserted, and in some cases that the PIN be entered.

There may be other emergency numbers available. Your mobile phone network service may save additional local emergency numbers in the SIM card.

Dialing an International Call

When you are manually dialing a number, tap and hold on the number key 0 until the + sign appears. The + sign replaces the international prefix of the country from where you are calling.

Enter the full phone number you want to dial including country code, area code (without the leading area code zero) and local phone number.

Configuring Phone Call Settings

You can configure phone call settings, such as call forwarding, call waiting, and other special features offered by your carrier. See "Call Settings" in Chapter 9 for information.

Chapter 5

Contacts and Calendar

This chapter tells you how to use the Contacts and Calendar applications.

Contacts

The Contacts application gives you quick and easy access to the people you want to reach.

To open Contacts, tap the **Contacts** icon in the Launcher (▦).

You can also open Contacts by using Quick Contact. (See "Quick Contact" in Chapter 2 for information.)

NOTE: When you have added an account in your device, you may synchronize contacts information (if such service is available with your account on the web).

Importing Contacts from Your SIM Card

You may have stored contacts on the SIM card if you're moving it from another phone. You can add some or all of these contacts to the Contacts application.

1. After opening Contacts, tap 🗏 in the navigation bar and tap **Import/Export**.

2. Tap **Import from SIM card**.

3. To import all, tap 🗏 in the navigation bar and tap **Import all**.

To select individual contacts to import, tap and hold the contact you want and tap **Import** in the menu that opens.

Adding a Contact
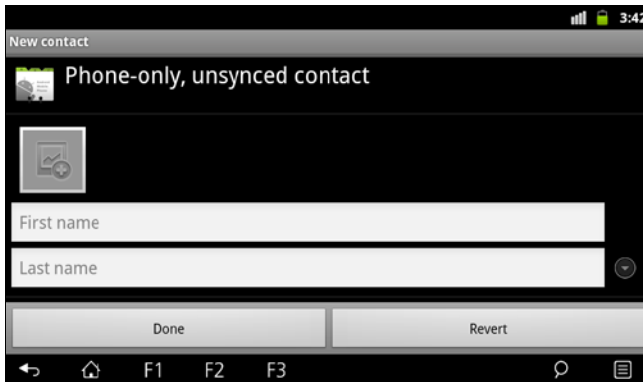
1. After opening Contacts, tap ▤ in the navigation bar and tap **New contact**.

2. Enter the contact's name.

3. Tap a category of contact information, such as phone numbers and email addresses, to enter that kind of information about your contact.

   Scroll the page to view all categories.

4. Tap a category's plus button to add more than one entry for that category—for example, to add both work and home numbers.

   Tap the button to the left of the item of contact information to open a menu with preset labels, such as **Mobile** and **Work** for a phone number, or tap **Custom** in the menu to create your own label.

5. Tap the Picture Frame icon to select a picture to display next to the name in your lists of contacts and in other applications.

6. When you're finished, tap **Done**.

Using Contacts List and Details

When you open Contacts, all of your contacts are displayed alphabetically in a scrolling list. You can drag the list up or down to scroll it.

Tap to view only your favorite contacts.

Tap a contact to view details.

To change which contacts are displayed when viewing the list, tap ▤ in the navigation bar and tap **Display options**. Check **Only contacts with phones** to hide contacts that don't have phone numbers.

To search for a contact, tap ◉ in the navigation bar. As you start entering the name, contacts with matching names appear below the search box.

To view the details of a contact, tap the contact in the contact list. From the details screen, you can tap a communication method to start dialing, texting, or emailing the contact by using the listed number, address, and so on.

Tap to open Quick Contact.

Tap a contact method to start communicating with the contact.

Editing Contacts Details

Editing Information

1. Open the contact list.

2. Tap and hold the contact whose details you want to edit; in the menu that opens, tap **Edit contact**.

   You can also tap [≡] in the navigation bar and tap **Edit contact** while viewing a contact's details.

3. Edit the contact information.

4. Tap **Done**.

Changing a Contact's Default Phone Number

1. Select the contact entry in the contacts list.

2. Tap and hold the phone number to use as the contact's default phone number.

3. Tap **Make default number** in the menu that opens.

The default phone number is marked with a checkmark.

Setting a Ringtone for a Contact

NOTE: To use custom audio files as ringtones for incoming calls, set up the file as a ringtone in the Music application. (See "Add a Song to the Ringtone List" in Chapter 7 for information.)

You can specify a unique ringtone for a contact.

1. Select the contact entry in the contacts list.

2. Tap ▤ in the navigation bar and tap **Options**.

3. Tap the down arrow button to open the ringtone list. Tap the one to play when the contact calls.

4. Tap **OK**.

Joining or Separating Contacts

When you add contacts in other ways, such as by exchanging emails, Contacts attempts to avoid duplication by joining any new contact information with existing contacts under a single entry. You can also join contacts manually.

If contact information from different sources was joined in error, you can separate the information back into individual contacts on your phone.

To join or separate contacts:

1. Select the contact entry in the contacts list.

2. Tap ▤ in the navigation bar and tap **Edit contact**.

3. Tap ▤ in the navigation bar and tap **Join** or **Separate**.

Calendar

The Calendar application works with the web-based Google Calendar calendaring service for creating and managing events, meetings, and appointments. It also works with the Microsoft Exchange ActiveSync calendaring service.

To open Calendar, tap the **Calendar** icon in the Launcher (▦).

The first time you open Calendar, you are asked to add an account first or, if an account has been set up, you will see the existing calendar events from your account on the web.

**NOTE:** For information on adding an account in your device, see "Adding an Account" in Chapter 3.

When you first set up Calendar to synchronize events on your device, it includes events from the previous month through one year in the future. Subsequently, Calendar keeps a year's worth of future events synchronized between your device and the web, plus any later events that you add to your calendar using Calendar on your device.

Working with Different Views

To change your calendar view, tap ▤ in the navigation bar and tap **Agenda**, **Day**, **Week**, or **Month**.

Month View

Month view displays a chart of the events of the month. Segments of each day with scheduled events are blue in the day's vertical bar.
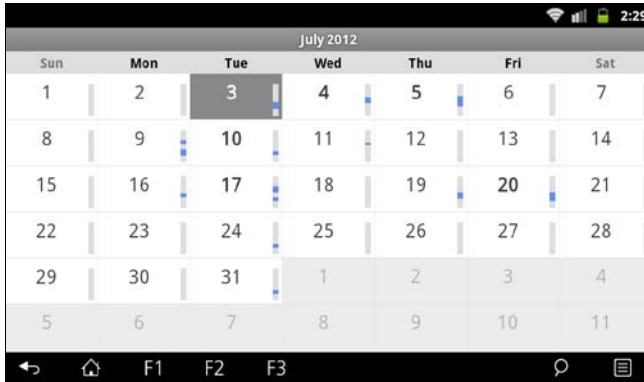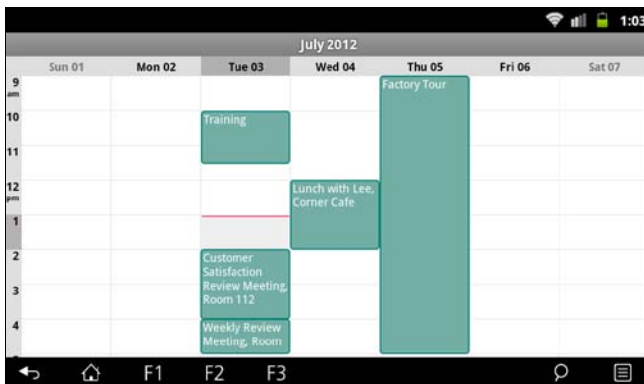
Drag up or down to view earlier or later months.

Tap a day to view the events of the day.

Week View

Week view displays a chart of the events of one week.

Drag left or right to view earlier or later days.

Tap an event to view its details. Tap and hold a time slot to create a new event at that time.

Day View

Day view displays a chart of the events of one day, in a table of one-hour rows. A red line indicates the current time.
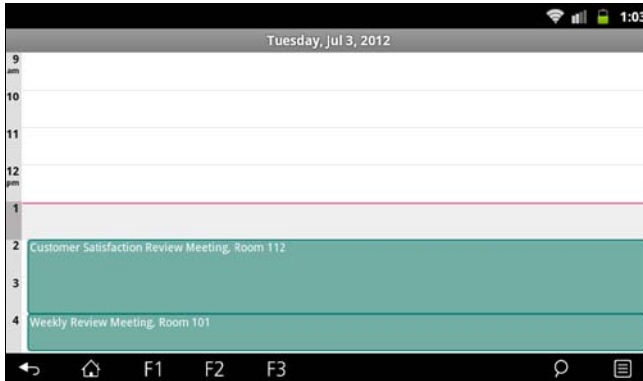

Drag left or right to view earlier or later days.

Tap an event to view its details.

Tap and hold a time slot to create a new event at that time.

Agenda View

Agenda view is a list of your events in chronological order.

Drag up or down to view earlier or later events.

Tap an event to view its details.

Viewing Event Details

Tap an event to view its details.
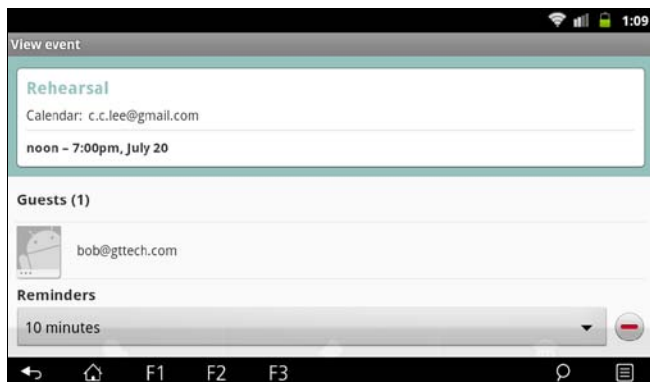
Creating an Event

You can use Calendar on your device to create events that appear on your device and in your Calendar on the web.

1. In any Calendar view, tap ▤ in the navigation bar and tap **New event**.

   You can also tap and hold a spot in Day, Week, or Month view. In the menu that opens, tap **New event**.

2. Enter details about the event.

   Tap the plus button to add more reminders.

3. Enter other desired information. You can tap ▤ in the navigation bar and tap **Show extra options** to add more details.

4. Scroll to the bottom of the Event details screen and tap **Done**.

Editing or Delete an Event

To edit an event, tap and hold the event and tap **Edit event** in the menu that opens. Or, if you are viewing the event details, tap ▤ in the navigation bar and tap **Edit event**.

To delete an event, tap and hold the event and tap **Delete** in the menu that opens. Or, if you are viewing the event details, tap ▤ in the navigation bar and tap **Delete**.

Changing Calendar Settings

You can set up how Calendar displays event and how it notifies you of upcoming events.

To change Calendar settings, open a Calendar view, tap ▤ in the navigation bar and tap **More → Settings**.

Chapter 6

Web and Communications

This chapter tells you how to use the Browser, Email, and Messaging applications.

Browser

Use the Browser application to view webpages and to search for information on the web when your device is connected to the Internet.

Surfing the Web

1. Tap the Browser icon on the Home screen or the **Browser** application icon in the Launcher ( ).

    The last webpage you were viewing is displayed. If you have not used Browser recently, your home page opens.

    Browser also opens when you tap a web link—for example, in an email or text message.
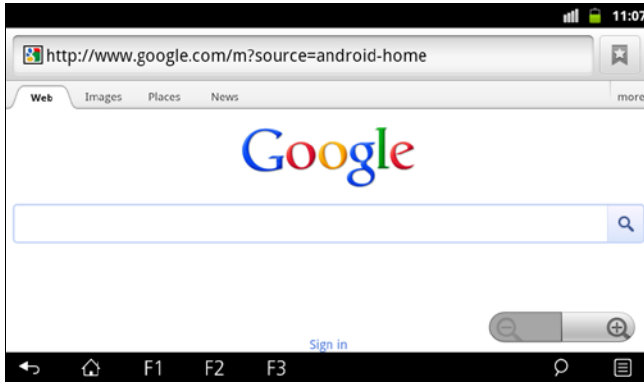
2. To go to a webpage, tap the URL box at the top of the Browser screen. (If the URL box isn't visible, drag the page down until the URL box comes into view.)

3. Enter the address (URL) of the webpage. Tap a suggestion or enter an address and tap the arrow icon →.

    Webpages that are optimized for mobile devices typically open at a size appropriate for your screen.

    Webpages that aren't designed specifically for mobile devices typically open in overview mode—the page is zoomed out so you can get the big picture. To zoom in, slide slightly on the screen to reveal the Zoom control and tap the plus icon to zoom in.

4. To refresh the current page, tap 🗐 in the navigation bar and tap **Refresh**.

5. To find text on a page, tap 🗐 in the navigation bar and tap **More →Find on page**.

6. You can open links on a webpage.

    To go back among the pages you've opened, press the **Back** key on your device. To go forward, tap 🗐 in the navigation bar and tap **Forward**.

7. You can open up to eight Browser windows at once and switch among them. To open a new Browser window, tap ☰ in the navigation bar and tap **New Window**.

To switch windows, tap ☰ in the navigation bar and tap **Windows**. Tap a window to open it.

Working with Bookmarks

You can bookmark webpages so that you can quickly return to them.

Adding a Bookmark

1. Open the webpage you want to bookmark.

2. Tap the bookmark icon 🔖 at the top of the screen. Or, tap ☰ in the navigation bar and tap **Bookmarks → Add**.

3. Edit the name and the address if necessary and tap **OK**.

Opening a Bookmark

1. Tap the bookmark icon 🔖 at the top of the screen. Or, tap ☰ in the navigation bar and tap **Bookmarks**.

A window opens with a list of your bookmarks, sorted by how often you visit them.

2. Tap a bookmark to open it.

The bookmark opens in the current window. If you prefer to open it in a new window, tap and hold the bookmark and tap **Open in new window**.

Changing Browser Settings

You can configure a number of Browser settings, including several that you can use to manage your privacy.

To open the Browser settings screen, tap ▤ in the navigation bar, and tap **More → Settings**.

Email

Use the Email application to read and send email from the email service account(s) that you have.

Opening Email and the Account Screen

Opening Email

Tap the **Email** application icon in the Launcher (▦).

The first time you open Email, a setup wizard opens to help you add an email account; or, if an account has been set up, you will see the Accounts screen. After the initial setup, Email opens to the last screen you were viewing or, if you have not used Email recently, it displays the contents of your Inbox (if you have only one account) or the Accounts screen (if you have multiple accounts).

Opening the Account Screen

The Accounts screen lists your Combined Inbox and each of your email accounts. If you have starred, draft, or unsent messages in any of your accounts, the folders for those items from all accounts are displayed as well.
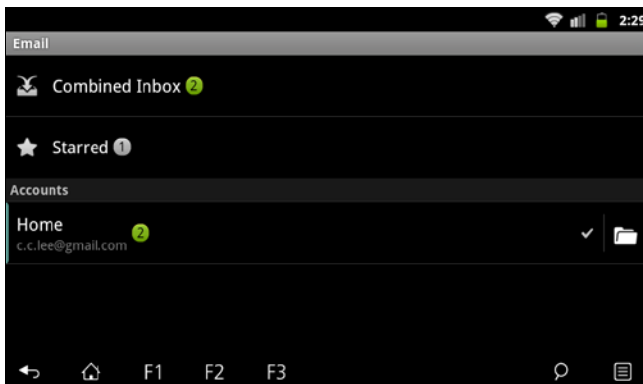
If you have configured Email to send and receive email from more than one account, you can view all messages sent to all accounts in your Combined Inbox.

NOTE:
- You can add email accounts by tapping in the navigation bar while in the Accounts screen and tapping **Add account**.
- To delete an existing account, tap and hold the account. In the menu that opens, tap **Remove account**.

Reading and Responding to E-mail Messages

You can read messages in your Combined Inbox or in the Inbox or other folders for individual accounts.

1. Open Email. Tap the Combined Inbox, an account's Inbox, or another folder of messages.

   – or –

   When you receive a new email, you will see a new email notification icon (unless you have disabled the feature). Tap the notification to open the email message window.
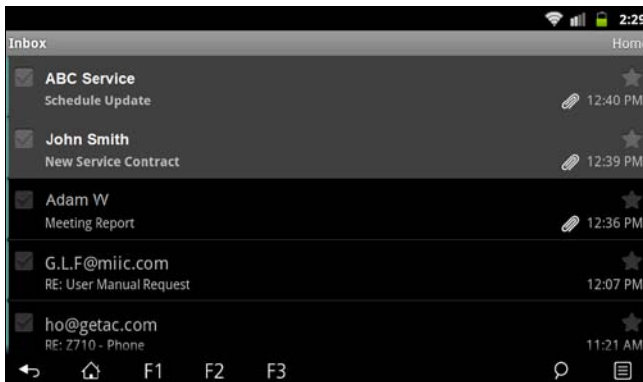
NOTE: Only some of your account's recent email is downloaded to your device. To download earlier messages in batches for IMAP or POP3 accounts, tap **Load more messages** at the bottom of the list of email. For Exchange ActiveSync accounts, you can change how many days or weeks of email to store on your device.

2. Tap the message to read.

3. While in a message screen, you can:

   - Reply to or delete the message using the buttons at the bottom of the screen.

   - Reply to, forward, or delete the message or mark the message as unread using the options menu.

   - Star the message by tapping the star in its header. Once you star a message, a Starred folder is added to the Accounts screen.
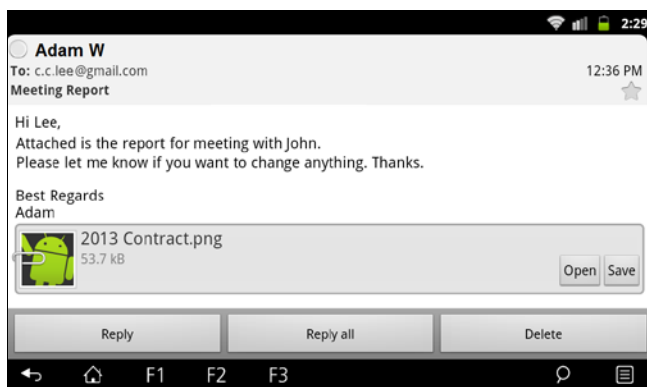
NOTE: You can delete, star, or mark unread a batch of messages at once. In the Inbox or mailbox, check the messages that you want to work with as a batch.

Composing and Sending an E-mail

1. After opening Email, tap ▤ in the navigation bar and tap **Compose**.

    You can also open Email by using Quick Contact. (See "Quick Contact" in Chapter 2 for information.)
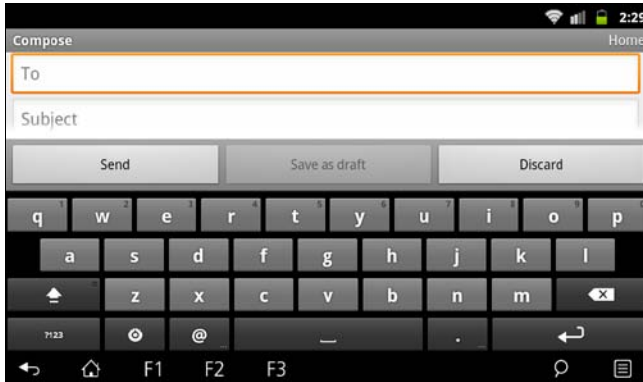
2. Address the message.

    As you enter text in the **To** field, matching addresses are offered from your Contacts. You can tap a suggested address or enter a new one. Separate multiple addresses with commas.

3. To address a copy or blind copy of the message, tap ▤ in the navigation bar and tap **Add Cc/Bcc**.

4. Enter a subject for the message.

5. Enter the text of the message.

6. To send a photo with the message, tap ▤ in the navigation bar and tap **Attach**.

7. Tap **Send**.

    Or, if you're not ready to send the message, tap **Save as draft** to save it in a Drafts folder.

If you aren't connected to a network, for example, if you're working in Airplane mode, the messages that you send are stored in your Outbox folder until you're connected to a network again.

Working with Account Folders

Each account has Inbox, Outbox, Sent, and Drafts folders. Depending on the features supported by your account's service provider, you may have additional folders.

To open the folders screen, tap the folder icon ⌷ while in the Accounts screen. You can also open an account's folders while viewing its Inbox or other folder, by tapping ☰ in the navigation bar and tapping **Folders**.

Tap the folder you want to open.

Changing Email Account Settings

You can change a number of settings for an account, including how often you check for email, how you're notified of new mail, and details about the servers the account uses to send and receive mail.

To change settings of an account, open the inbox of the account, tap ☰ in the navigation bar and tap **Account settings**.

Messaging (Select Models Only)

Use the Messaging application to exchange text messages (SMS) and multimedia messages (MMS) with your friends on their mobile phones.

Reading and Responding to Messages

1. Tap the **Messaging** icon in the Launcher (⊞) to open the message list screen.

    – or –

    When you receive a new message, you will see a new message notification icon in the Status bar (unless you have disabled the feature). Tap the notification to open the message list screen.
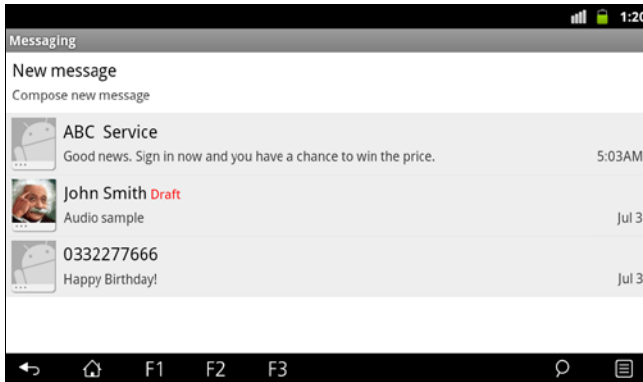
2. Tap a message thread to open it.

    If you have disabled the auto-retrieve feature of MMS, you have to tap **Download** to view a MMS message.

3. If the message contains a media file, tap **Play** to view, watch, or listen to it.

4. While in the message list, you can tap and hold a message to open a menu with number of options for working with the message and its sender's information.

Composing and Sending Messages

You can send text (SMS) messages of up to 160 characters to another mobile phone.

You can send multimedia (MMS) messages that contain text and a picture, a recorded voice, an audio file, a video, or a picture slideshow.

1. In the message list screen, tap **New message**.
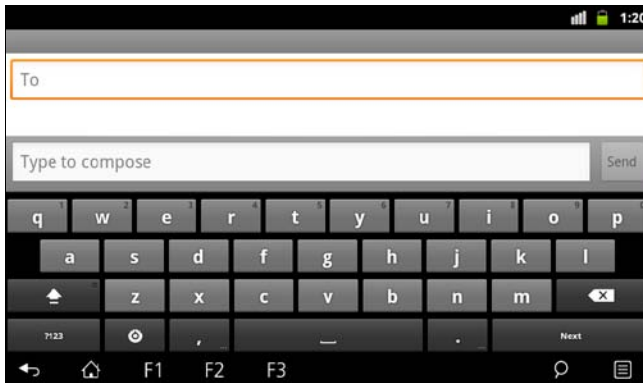
2. Enter a mobile phone number in the **To** field. As you type, matching contacts appear. You can tap a suggested contact or continue typing.

   You can also enter the name of a contact.

3. Tap the composition text box to start entering your message.

4. **If sending an MMS message:**

   Tap ▤ in the navigation bar and tap **Add subject** to add a message subject.

   Tap ▤ in the navigation bar and tap **Attach** to open the options menu for adding multimedia item(s).

After adding an item, you can use the buttons in the screen to preview, change, or remove the media attachment.

5. Tap **Send** or **Send MMS**.

Changing Messaging Settings

You can change a number of Messaging settings. For example, you can have older messages deleted, receive delivery reports for the messages you send, and select the ringtone to sound when you receive new message notifications.

To change Messaging settings, open Messaging, tap ▤ in the navigation bar, and tap **Settings.**

Chapter 7

Multimedia

This chapter tells you how to use the Camera, Gallery, and Music applications.

Camera

Use the Camera application to take pictures and shoot videos.

Taking Pictures

1. Tap the **Camera** shortcut on the Home screen or tap **Camera** in the Launcher ( ). You will be in Camera mode.

2. If you want to adjust settings, tap the appropriate status icon. (See "Camera Mode Settings" later for more information.)

3. Aim the camera lens at the subject.

Status icons

Thumbnail of the previous picture

Drag to the other side to switch to Video mode.
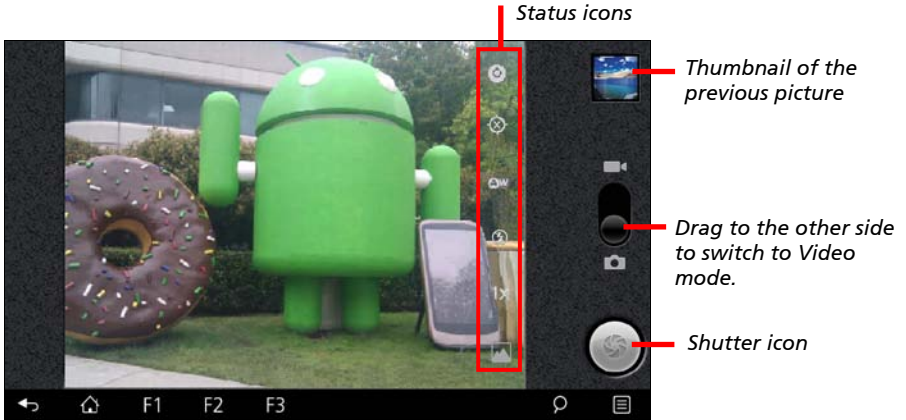
Shutter icon

4. To take the picture, tap the Shutter icon on the screen.

    Green focus indicators appear at four corners. A shutter sound is played when the picture is taken.

5. The picture you just took is displayed as a thumbnail at the corner. You can tap the thumbnail to view the picture. (See "Gallery" in this chapter for more information.)

    The file is saved to the internal SD card of your device.

Camera Mode Settings

While in Camera, tap the status icon for the settings you want to change. Then tap a setting in the popup menu that opens. The popup menu closes after a short period; you can also tap ⬅ in the navigation bar to close the menu.

Icons and Items		Descriptions
⚙ **Settings**	**Antibanding***	Sets the frequency to match the local electrical system (**50Hz** or **60Hz**) for flicker free shooting under electric light.
	Picture size	Sets the resolution of the picture. Available choices depend on the camera lens in use.
	Picture quality	Sets the quality of the picture to **Super fine**, **Fine**, or **Normal** (that is, the trade-off you prefer between picture quality and file size that Camera uses when compressing the photo into a file).
	Color effect*	Sets the special effect for your shots to **None**, **Mono**, or **Negative**.
	Restore to defaults	Restores all Camera settings to their default values.
◌ / ⊗ **Store location**		Set if GPS information is embedded into the picture file.
	⊗ **Off**	
	◌ **On**	Make sure that the GPS receiver is switched on.
🅐ʷ / ☀ / ☀ / ☀ / ☁ **White Balance**		Five choices from which you can select one that matches the current light source.
	🅐ʷ **Automatic**	
	☀ **Incandescence**	
	☀ **Daylight**	
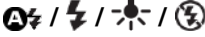
Icons and Items	Descriptions	
	☀ **Fluorescence**	
	☁ **Cloudy**	
🔆 / ⚡ / 🔦 / 🚫 **Flash mode***	Sets how the LED flashlight works.	
	🔆 **Auto**	Turns on the flashlight when the camera determines that the ambient lighting is insufficient for shooting.
	⚡ **On**	Unconditionally turns on the flashlight when shooting.
	🔦 **Torch**	Keeps the flashlight on so that you can use it as a torch.
	🚫 **Off**	Disables the flashlight.
Zoom	Available choices depend on the current resolution setting.	
🏔 / 👤 **Select Camera**	Switches between the back and front camera lens.	
	🏔 **Back**	
	👤 **Front**	

Table Note: * means not available for the front camera.

All changes remain effective until you change them again.

Shooting Videos

1. Tap the **Camera** shortcut on the Home screen or tap **Camera** in the Launcher ( ). Drag the control to the Video position.

2. If you want to adjust settings, tap the appropriate status icon. (See "Video Mode Settings" later for more information.)

3. Aim the camera lens at the subject.

Status icons

Thumbnail of the previous video

Drag to the other side to switch to Camera mode.

Start/Stop Video icon
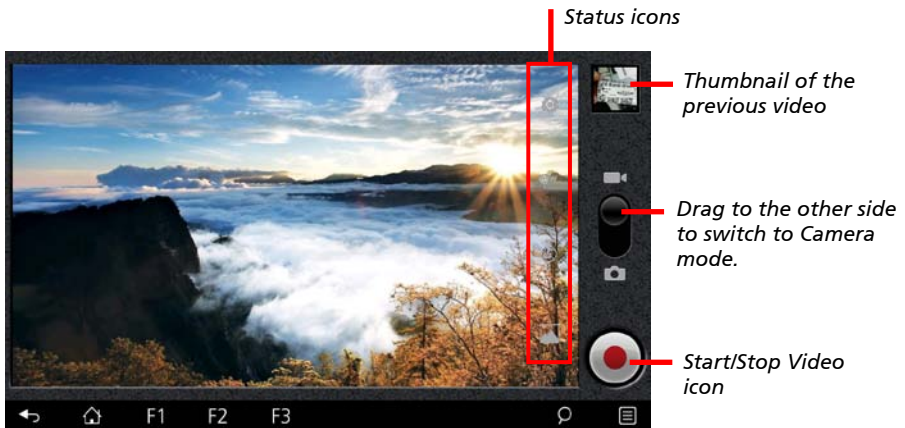
4. To start shooting the video, tap the Start Video icon on the screen.

    The elapsed time shows at the corner.

5. To stop, tap the Stop Video icon.

6. An image from your most recent video is displayed as a thumbnail at the corner. You can tap the thumbnail to view the video. (See "Gallery" in this chapter for more information.)

    The file is saved to the internal SD card of your device.

Video Mode Settings

While in Video mode, tap the status icon for the settings you want to change. Then tap a setting in the popup menu that opens. The popup menu closes after a short period; you can also tap ↩ in the navigation bar to close the menu.

Icons and Items		Descriptions
⊙ **Settings**	**Video format**	Sets the resolution of the video. Available choices depend on the camera lens in use.
	Antibanding*	Sets the frequency to match the local electrical system (**50Hz** or **60Hz**) for flicker free shooting under electric light.
	Color effect*	Sets the special effect for your shots to **None**, **Mono**, or **Negative**.
	Restore to defaults	Restores all Camera settings to their default values.
ⒶW / ⚡ / ☀ / ⚟ / ☁ **White Balance**		Five choices from which you can select one that matches the current light source.
		ⒶW **Automatic**
		⚡ **Incandescence**
		☀ **Daylight**
		⚟ **Fluorescence**
		☁ **Cloudy**
⚡ / ⚡ **Flash mode***		Sets how the LED flashlight works.
	⚡ **On**	Enables the flashlight.
	⚡ **Off**	Disables the flashlight.

Icons and Items	Descriptions
🏔 / 👤 **Select Camera**	Switches between the back and front camera lens.
	🏔 **Back**
	👤 **Front**

Table Note: * means not available for the front camera.

All changes remain effective until you change them again.

Gallery

Use the Gallery application to view pictures and play videos that you've taken with your device, downloaded, or copied onto your SD card (the internal one of your device and/or an external SD card).

Viewing Pictures and Videos

1. Tap the **Gallery** icon in the Launcher (⊞).

2. Pictures and videos are grouped in albums. Tap an album to open it and view its contents in thumbnail view.

    You can peek into an album stack by touching it with two fingers and spreading them apart.

Open Camera.
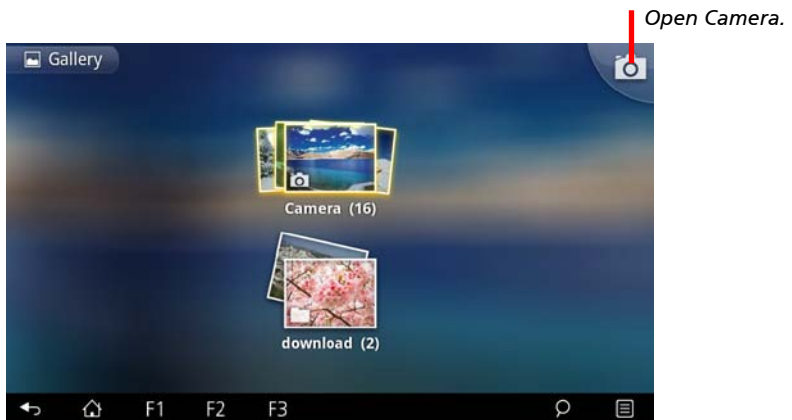
3. The thumbnails are displayed in chronological order. Tap a thumbnail to view or play it in full screen. (Actual size depends on the picture/video quality.)

Return to the main Gallery screen.

Name of the album.

Switch from grid to stack view.

Tap an arrow to scroll a screenful at a time. Drag left or right to scroll rapidly.
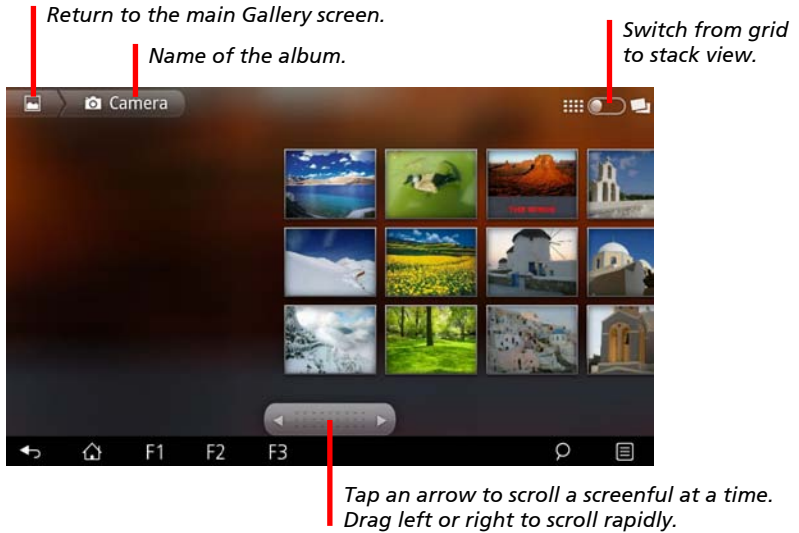
4. When you open a picture, control icons appear on the screen briefly. (To recall them, tap the screen.)
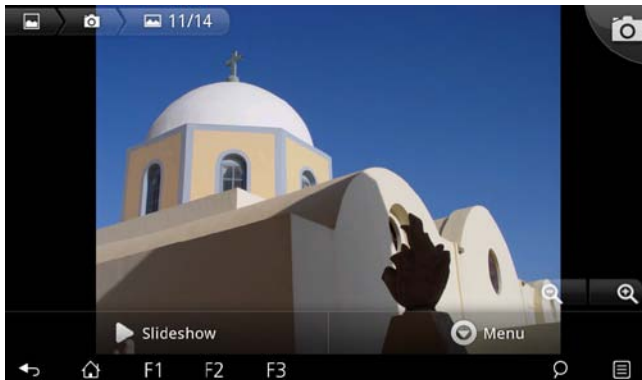
Tap **Menu** or ▤ to access other actions. Tap **More** in the menu for more actions.
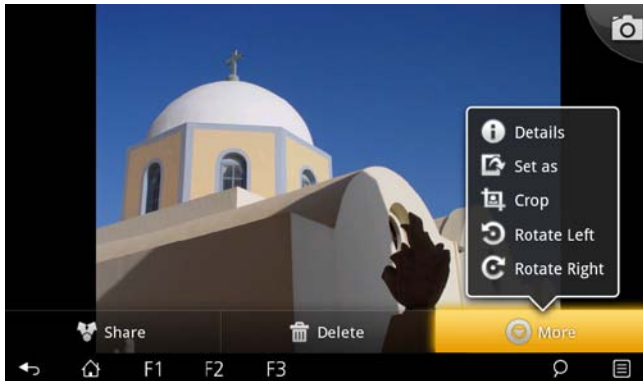
5. When you open a video, playback control icons appear on the screen briefly. (To recall them, tap the screen.) The icons allow you to pause, resume, and skip backward or forward
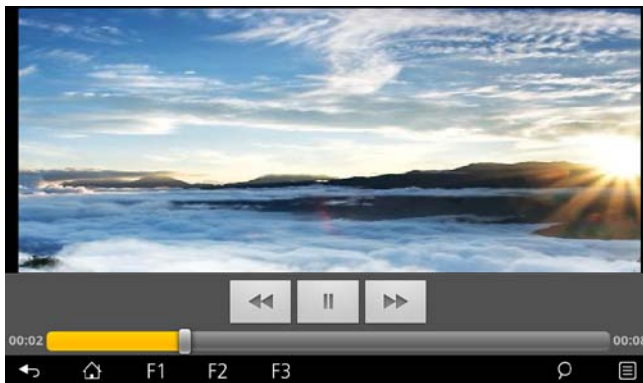
Music

Use the Music application to organize and listen to music and other audio files that you transfer to your SD card (the internal one of your device and/or an external microSD card) or USB storage.

Music supports audio files in MP3, M4A (iTunes application AAC, DRM-free), AMR, MIDI, and OGG Vorbis formats and playlists in M3U, WPL, and PLS file formats.

Copying Music Files onto the SD Card

You can use folders and subfolders on the SD card to organize your music files. Or you can simply copy the audio files to the top level of the SD card.

If the music files have accompanying artwork in JPEG format, rename the art file albumart.jpg and include it in the same folder as the music files.

If you have created any playlists, create a subfolder for them in your music folder on the SD card and copy the playlists into it.

Playing Music

1. To open Music, tap the Music shortcut on the Home screen or tap the **Music** icon in the Launcher ( ).

    Music searches the internal SD card and the external storage (if available) for music files and builds a catalog of your music, based on information about each file that is stored in the file itself.

2. When the catalog is complete, the Music Library screen opens, with tabs that you can tap to view your music library organized by Artists, Albums, Songs, or Playlists.
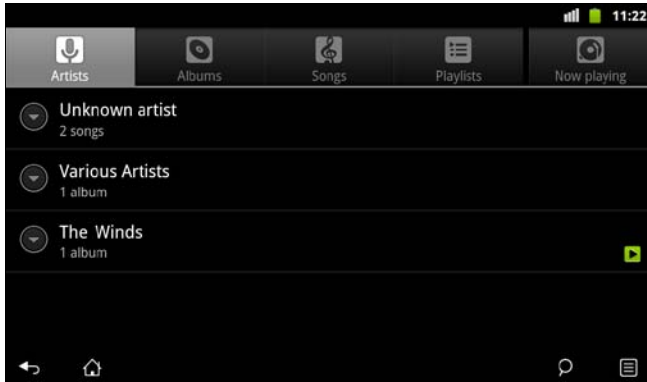
3. Tap a song in your library to listen to it.

   – or –

   While viewing a list of tracks in an album, tap ☰ in the navigation bar and tap **Play all**.

4. The Playback screen opens and the song you selected or the first song in the album or other playlist starts to play.

Playback Controls

The Playback screen contains several icons that you can tap to control the playback of songs, albums, and playlists:

Icons	Functions
❚❚	Pauses playback.
▶	Resumes playback.
◄◄ / ►►	Skips to the previous/next track in the album, playlist, or shuffle.
☰	Opens the current playlist.
⤨	Switches on or off shuffle mode (tracks are played in random order).
⇄	Switches to the next repeat mode: Don't repeat, Repeat the playlist, or Repeat the current track.

Add a Song to the Ringtone List

You can use a song as your phone ringtone, in place of one of the ringtones that come with the device.

Tap and hold the song in a library list and tap **Use as phone ringtone**. Or, on the Playback screen, tap ☰ in the navigation bar and tap **Use as phone ringtone**. The song is added to the ringtone list and set as the default phone ringtone for your device.

Working with Playlists

You can create playlists to organize your music files into sets of songs, which you can play in the order you set or in a shuffle.

Creating a Playlist

1. When viewing a list of songs in the library, tap and hold the first song you want to add to the new playlist.

2. Tap **Add to playlist**.

3. Tap **New**.

4. Enter a name and tap **Save**.

    The new playlist is added to the Playlist library.

You can also add the song that is playing in the Playback screen as the first song in a playlist by tapping ▤ in the navigation bar and tapping **Add to playlist**. Or tap **Save as playlist** to save all the songs in an album that you're playing as a playlist.

Adding a Song to a Playlist

1. While viewing a list of tracks in the Library, tap and hold a song to add it to a playlist.

2. Tap **Add to playlist**.

3. Tap the name of the playlist to add the song to.

    The song is added to the playlist.

You can also add the song that is playing in the Playback screen to a playlist by tapping ▤ in the navigation bar and tapping **Add to playlist**.

Moving songs in a Playlist

While in a playlist, you can drag a song up or down to change its order in the playlist.

Removing a Song from a Playlist

While in a playlist, tap and hold the song to remove from the playlist and tap **Remove from playlist**.

NOTE: The song isn't deleted from the SD card or other playlists; it's removed only from the playlist you're working with.

Chapter 8

More Applications

This chapter describes the applications added by Getac for special features of your device.

Barcode Demo and Configuration

Barcode Demo

Barcode Demo is a demo application that can read barcodes of the following types:

- Code 39
- Code 128
- EAN/JAN/UPC
- GS1 Databar
- Interleaved 2 of 5
- PDF417
- QR Code
- Data Matrix
- OCR

NOTE: For enhanced applications and customization of the barcode reader, contact your authorized Getac dealer.

1. To configure barcode options, use **Barcode Config** as described in the next section.

2. Tap the **Barcode Demo** shortcut on the Home screen or tap **Barcode Demo** in the Launcher (⊞).

3. To scan one barcode at a time, tap **Action** or press the **Trigger** button

   To scan continuously, tap **Start**.

4. Aim the green scan beam so that it is centered over the barcode. Adjust the lens' distance from the barcode, shorter for a smaller barcode and farther for a larger one.

Trigger button

NOTE: If the code being scanned is highly reflective (e.g., laminated), it may be necessary to tilt the code +5° to prevent unwanted reflection.

5. Upon a successful scan, the system beeps and the scan beam turns off. The decoded barcode data will be entered.

    If you are in continuous scanning mode, the scan beam turns back on again for the next barcode. To stop scanning, tap **Stop**.

NOTE:
●   The scan beam also turns off after timeout.
●   You can disable the beep sound that indicates a successful scan. (See "Sound Settings" in Chapter 9.)

Barcode Config

Barcode Config allows you to configure options specific to individual barcode symbologies.

1. Tap the **Barcode Config** shortcut on the Home screen or tap **Barcode Config** in the Launcher (▦).

2. Tap the name of a symbology to configure. You can enable or disable the individual symbology and configure the options as needed.

   To restore default settings or enable all symbologies, tap **Module**.

File Manager

File Manager allows you to organize your data in the internal SD card and any connected external storage (such as a microSD card or USB disk).

Tap the **File Manager** shortcut on the Home screen or tap **File Manager** in the Launcher (⊞).

Using Buttons

Buttons	Descriptions
Home	Goes to the root directory.
Upper	Goes one level up to the parent directory.
Multi-Select	Enables or disables multiple selection. When enabled, you can tap multiple files or folders for one batch operation. A set of buttons appear on the top of the screen for you to use.
Paste	Pastes what you have cut or copied to the current directory.
Add Folder	Adds a folder in the current directory.

Buttons	Descriptions	
View	Switches between icon and list view.	
Refresh	Refreshes the current directory.	
Setting	**Show all files/directories**	Check to show all files/directories.
	Display type	Sets the view to icon or list view.
	Home directory setting	Specifies a folder as the home directory in File Manager.

Opening a File

When you tap a filename, File Manager tries to open or execute the file depending on the file type.

NOTE: Not all files can be opened in this way.

Using Context Menu

Tap and hold a file or folder name to open the context menu. You can then cut, copy, rename, or delete it.

GPS-ECompass

GPS-ECompass can:

● Function as a compass.

● Receive GPS satellite signals to calculate the location of your device.

● Record GPS logs.

Tap the **GPS-ECompass** shortcut on the Home screen or tap **GPS-ECompass** in the Launcher (▦).

To access GPS information, make sure that the GPS receiver is turned on. Tap the widget [◈] on the Home screen (default configuration) to turn the GPS receiver on or off. The ◎ icon flashes in the status bar to indicate that GPS positioning is in process. The icon stops flashing when positioning is completed.

NOTE:
● A message appears if positioning is not completed in 10 minutes.
● When not using GPS, turn off the GPS receiver. Leaving it on will consume more power.

The application has three pages as described later. Tap one of the three buttons (**E-Compass**, **Satellite Position**, and **Satellite Information**) at the bottom of the screen to see the page.

E-Compass

The **E-Compass** page shows directions of movement including orientation, pitch angle, roll angle, and azimuth angle.

The Magnetic Field and Accuracy readings are for your reference. When the application determines that calibration is needed, it will pop up the "Calibration" graphics asking you to calibrate the compass (unless you have disabled the function). Hold the device and swing it in the way as shown on the screen. Do this several times until the popup graphics disappear.

NOTE: Follow these guidelines when using the compass.
- Keep the device away from objects that generate magnetic fields, such as cars, large belt buckles, computers, cell phones, etc.
- If you must use the compass inside a car, the device should be at least 20 cm (7.87 inches) away from metal objects such as car doors, dashboard, air vents, etc.
- Avoid playing the MP3 music with the internal speaker or connecting the AC adapter. This will cause the magnetic interference to the compass.

E-Compass Settings

Tap ▤ in the navigation bar and tap **E-Compass Setting** for relevant settings.

Items	Descriptions
Rotation Type	Set to **Needle Compass** for a pivoting needle on a fixed dial or **Wheel Compass** for a fixed needle on a rotating dial.
Accuracy	Check **Calibration** to allow the application to request for calibration when needed.

Tap **OK** for the changes to take effect. Tap **Reset** to restore default settings.

Satellite Position

The **Satellite Position** page shows the positions of the overhead satellites and their signal strength. It also indicates the on/off status of the SBAS and logging functions.

SBAS (satellite-based augmentation system) provides additional accuracy and reliability for the GPS devices. Ground stations are necessary to achieve the purpose. The SBAS feature works where such stations exist. You can enable the SBAS feature. (See "Getac Peripheral Settings" in Chapter 9.)

Satellite Information

The **Satellite Information** page shows the geographic information of the current location once GPS positioning is completed.
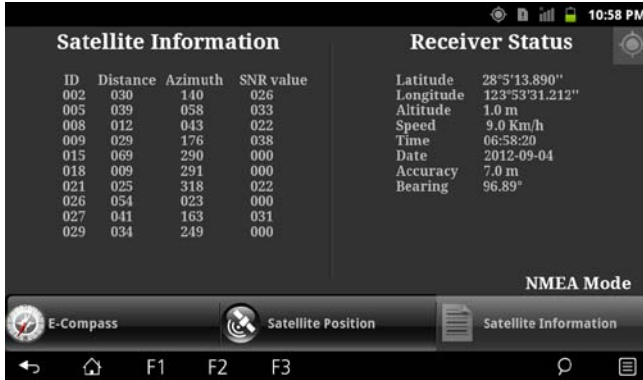
GPS Logging

You can record a GPS log file for the use of other applications. The default output format is NMEA. You can use Settings to set the format to binary mode. (See "Getac Peripheral Settings" in Chapter 9.)

1. Tap ▤ in the navigation bar and tap **Start Log**. Tap **OK** in the menu that appears.

    The recording will continue until you stop it.

2. To stop, tap ▤ in the navigation bar and tap **Stop Log**. Tap **OK** in the menu that appears.

    The screen gives information of the name and location of the file to be saved.

RFID Tag Reader (Optional)

RFID Tag Reader is a demo application that reads UID numbers from RFID tags. For enhanced applications and customization of the RFID reader, contact your authorized Getac dealer.

1. Tap the **RFID Tag Reader** shortcut on the Home screen or tap **RFID Tag Reader** in the Launcher (![icon]).
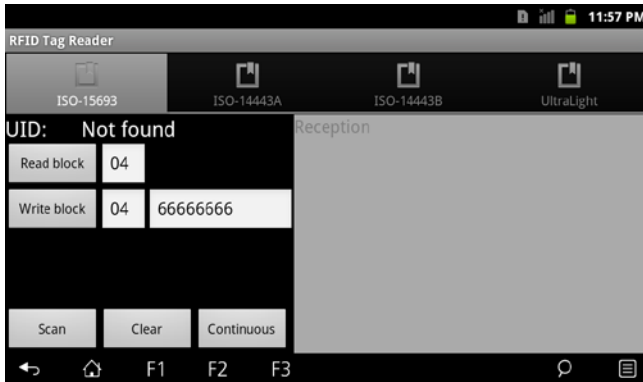
2. Tap the tag type (**ISO-15693**, **ISO-14443A**, **ISO-14443B,** or **UltraLight**) you want to scan.

3. To scan one tag at a time, tap **Scan**

    To scan continuously, tap **Continuous**.

4. Bring the tag near the RFID antenna.

Location of internal RFID antenna
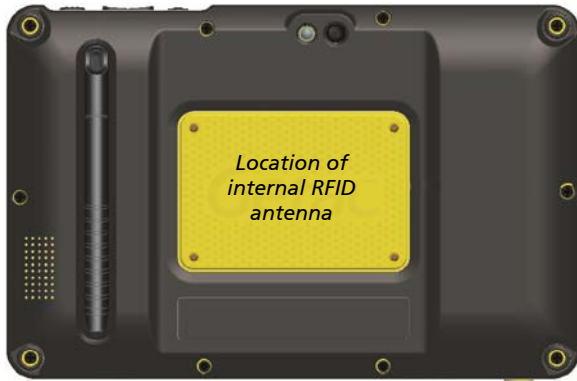
5. If a tag of the matching type is found, its UID is displayed in the data area.
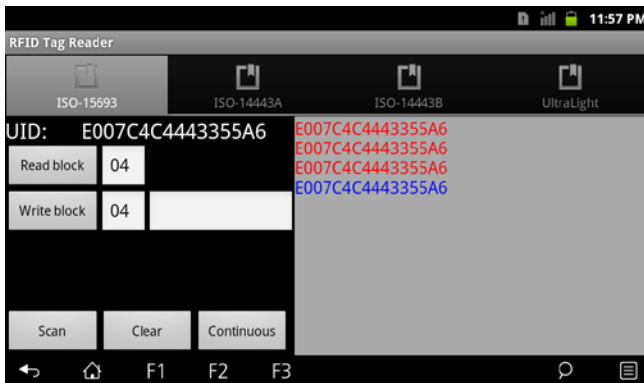
6. If you are in continuous scanning mode, tap **Stop** to stop scanning.

7. You can tap **Clear** to clear the data area.

Chapter 9

Managing Your Device

This chapter tells you how to manage power and configure your device.

Managing Power

The operating time of a fully charged battery depends on how you are using the device. Some functions, such as using multimedia or operating an SD card, may consume the battery power considerably.

Low Battery Signals and Actions

CAUTION: When you recharge the battery upon a warning of low power, you should charge for at least 30 minutes. If you unplug the AC charger soon, you may not have sufficient battery power for your operation.

To check the battery level, go to the Home screen, tap 🔲 in the navigation bar, and tap **Settings → About phone → Status**. The battery status (charging or discharging) and level (as a percentage of fully charged) are displayed at the top of the screen.

You should save your data and recharge the battery immediately upon a warning of low power; otherwise your device will turn off automatically. You need to connect the device to external AC power for charging before you can use it again.

Power-Saving Tips

Follow these suggestions to maximize the battery's operating time, particularly when you are relying solely on the battery power for extended time periods.

● Turn off radios that you aren't using.

● Lower the screen brightness and set a shorter screen timeout.

● Lower the volume.

● Avoid power-consuming applications. To check which applications consume the most battery power, go to the Home screen, tap ▤ in the navigation bar, and tap **Settings → About phone → Battery use**.

Settings

NOTE:

- Incorrect settings may cause your system to malfunction. Make sure that you fully understand the function of a certain item before any adjustment.
- Some setting items are available only for specific models.
- Some setting items are available only for specific subscriptions you have with your carrier or applications you have in your device.

The Settings application contains most of the tools for customizing and configuring your device. To open Settings, use any of the two methods:

- Go to the Home screen, tap ▤ in the navigation bar and tap **Settings**.

- Open the Launcher (▦) and tap the **Settings** icon.

Wireless and Networks Settings

Item	Description
Airplane mode	Check to turns off all wireless radios.
WLAN	Check to turn on WLAN radio.
WLAN settings	To set whether to receive a notification when an open WLAN network becomes available.
	To display the list of WLAN networks previously configured and those detected. (See "Connecting to a WLAN Network" in Chapter 3 for more information.)
	To add a WLAN network by entering its SSID and security type. If needed you can tap ▤ in the navigation bar and tap **Advanced** to configure advanced settings.
Bluetooth	Check to turn on Bluetooth radio.

Item	Description
Bluetooth settings	To set the device name and discoverability.
	To scan for Bluetooth devices and view the result. (See "Pairing with a Bluetooth Device" in Chapter 3 for more information.)
Tethering & portable hotspot	To share your device's mobile data connection via USB or as a portable WLAN hotspot.
VPN settings	To set the type of VPN to add and view the list of VPNs that you've previously configured. (See "Connecting to VPNs" in Chapter 3 for more information.)
Mobile networks	See below.
Data enabled	Check to enable data transmit through any mobile networks. Uncheck this item if you are traveling in an area where you do not have a mobile data plan and want to avoid charges for data use on local carriers' mobile networks.
Data roaming	Check to enable data roaming. Uncheck this item to prevent your device from transmitting data over other carriers' mobile networks when you leave an area that is covered by your carrier's networks.
Network Mode	To select the mobile network mode to use.
Data usage	Only available if your carrier enforces a mobile network data use policy. Displays the amount of data you've transmitted over the mobile network in the current period, the data threshold, and the time when the next period starts.
Access Point Names	To select mobile access point configurations; or tap 📧 in the navigation bar to add a new APN. Consult your carrier about how to use the tools on this screen.

Item	Description
Network operators	To search for and display mobile networks that are compatible with your device. Consult your carrier to understand the billing implications of selecting another carrier.

Call Settings

Item	Description
Fixed Dialing Numbers	To limit use to outgoing calls only to the fixed dialing numbers (FDN) that you save on the SIM card. (GSM phones only)
Voicemail service	To select your carrier's voicemail service or another service, if possible.
Voicemail settings	To enter the phone number to use for listening to and managing your voicemail. You can enter a comma (,) to insert a pause into the number—for example, to add a password after the phone number.
Enable Notification Bar	Check to enable the use of Notifications panel while in a call.
Call forwarding	To configure how your calls are forwarded when you're on the phone, when you don't answer, and so on.
Additional settings	To set whether your phone number is displayed to the people you call.
	To see and respond to new calls when you're already on a call.

Sound Settings

Item	Description
Silent mode	Check to silence all sounds (including call and notification ringtones) except the audio from music, videos, and other media and any alarms you have set.
Vibrate	To configure when you want the device to vibrate when you receive a phone call or notification.
Volume	To set the volume of ringtones that sound when you receive a phone call or notification, media (music, videos, etc.), and alarms. If you uncheck the option to use the same volume for both calls and notifications, you can set the notification ringtone volume independently.
Barcode reader	Check to have your devices beep upon a successful barcode scan.
Phone ringtone	To set the ringtone to sound when you receive a phone call.
Notification ringtone	To set the ringtone to sound when you receive a notification.
Audible touch tones	Check to hear tones when you use Phone to dial a number.
Audible selection	Check to play a sound when you tap buttons, icons, and other onscreen items that react to your tap.
Screen lock sounds	Check to play a sound when the screen is locked or unlocked.
Haptic feedback	Check to have the device vibrate briefly when you touch soft buttons and perform other actions.

Display Settings

Item	Description
Brightness	To adjust the brightness of the screen.
Auto-rotate screen	To set whether the screen orientation changes accordingly as you turn the device sideways or upright.
Animation	To set whether you want to enjoy animated transitions for specific occasions.
Screen timeout	To set how long of idle time to wait before the screen darkens.

Location and Security Settings

Item	Description
Use wireless networks	To set whether to use information from WLAN and mobile networks for location-aware applications.
Use GPS satellites	To set whether to use the built-in GPS (Global Positioning System) satellite receiver to pinpoint your location.
Set up screen lock	To specify the unlock security. Could be none, a pattern, a numeric PIN, or a password.
Set up SIM card lock	To configure the device to require entering the SIM card PIN to use it.
	To change the SIM card PIN.
Visible passwords	Check to briefly show each character of passwords as you enter them, so that you can see what you enter.

Item	Description
Select device administrators	Opens list of the applications you have authorized to be device administrators for your device. This is typically an enterprise application that you granted this authority to, when you added an account hosted by an enterprise service that requires the ability to implement security policies on the devices that connect to it.
Use secure credentials	Check to allow applications to access your encrypted store of secure certificates and related passwords and other credentials. If you have not set a password for the credential storage, this setting is dimmed.
Install from SD card	To install a secure certificate from an SD card
Set password	To set or change the password (at least 8 characters) for your secure credential storage.
Clear storage	To delete all secure certificates and related credentials and erase the secure storage's own password.

Applications Settings

Item	Description
Unknown sources	Check to permit installation of applications that you obtain from web sites, email, or other locations other than Android Market.
Manage applications	To open a list of applications on your device. The default view lists downloaded applications. You can tap another tab to change the view. Tap an application to view details about the application and perform related actions (if buttons are available).
Running services	To open a list of services—applications or parts of applications that provide services to other applications or that run even when their main application isn't running.

Item	Description
Storage use	Opens a list of all applications on your device with information about the storage they use.
Battery use	Opens a list of the applications that have used battery power since you last charged your device.
Development	To set up functions that are useful for developing Android applications.

Accounts and Sync Settings

Item	Description
Background data	Check to permit applications to synchronize data in the background, whether or not you are actively working in them.
Auto-sync	Check to permit applications to synchronize data on their own schedule.
Manage accounts	The rest of this screen lists the account(s) you've added to the device. (For information on adding an account, see "Adding an Account" in Chapter 3.)
	To change an account's sync settings, tap the account to open a screen where you can select the items to sync. (The available items depend on the account.)
	While in an account's settings screen, you can sync information manually by tapping in the navigation bar and tap **Sync now**. To remove the account along with all its data (contacts, mail, settings, and so on), tap **Remove account**.

Privacy Settings

Item	Description
Factory data reset	To erase all of your personal data from the internal storage, including information about your account(s), your system and application settings, and any downloaded applications. Resetting does not erase any system software updates you've downloaded or any files on your SD card.

Storage Settings

Item	Description
Internal SD card, Total / Available space	Lists the amount of space on the internal SD card the amount you have used.
Erase Internal SD card	Tap to permanently erase everything on the internal SD card such as music and photos.
External SD card or **USBDISK, Total / Available space**	Lists the amount of space on a microSD card or USB disk inserted in your device and the amount you have used.
Unmount SD card or **Unmount USB storage**	Tap to safely remove the microSD card or USB disk from your device when the device power is on. (This item is available for use only when an external microSD card or USB disk is inserted.)
Erase External SD card or **Erase USB storage**	Tap to permanently erase everything on the external microSD card or USB disk. (This item is available for use only when an external microSD card or USB disk is inserted.)
Internal storage, Available space	Lists the amount of internal phone storage used by the operating system, its components, applications, and their permanent and temporary data.

Language and Keyboard Settings

Item	Description
Select language	To select the language of the operating system. (Languages supported depend on your model.) You may have to shut down and then start up the device for the language change to take full effect.
	Note that this does not change the keyboard language.
User dictionary	To view, add, edit, or delete words in the dictionary. With a database of pre-entered words, possible matching words appear in a strip above the keyboard when you begin to type; so you can choose the correct word without typing all the characters.
	Tap to open the dictionary. To add a word, tap ▤ in the navigation bar and tap **Add**. Another way of adding a word is tapping a completed word in the strip above the keyboard when you are typing in an application.
Android keyboard…	To set up options related to the onscreen keyboard.
	If you want to switch the keyboard layout among the different languages written in Latin script, you can do so by setting up the **Input Languages** item. Check the languages you want to have available when using the onscreen keyboard.
–	Depending on your model, there might be other input methods in addition to Android keyboard.

Voice Input and Output Settings

Item	Description
Text-to-speech settings	To set the text-to-speech application to use, if you have more than one installed.

Accessibility Settings

Item	Description
Accessibility	Check to enable all installed accessibility plug-ins.
Power button ends call	Check to allow the power button to end a phone call instead of turning off the screen.

Date and Time Settings

Item	Description
Automatic	Uncheck to set the date, time, and time zone on the device manually, rather than obtaining the current time from the mobile network.
Use 24-hour format	Check to display the time using 24-hour time format.
Select date format	To set the format for displaying dates.

Getac Peripheral Settings

Item	Description
Barcode reader	See below.
Keyboard emulation	Check to send out decoded barcode data as if the data is typed by a keyboard.
Docking	See below.
Antenna	To set if you want to use the external antenna of the office/vehicle dock (when connected). You can also enable the auto switch function.
Audio output	To specify which audio output to use when an office/vehicle dock is connected.

Item	Description
Dock insertion sound	Check to disable the sound that indicates your device is inserted to or removed from the docking station.
GPS	See below.
SBAS	Check to enable SBAS.
GPS binary mode	Check to set the GPS output format to binary mode. Uncheck to set it to NMEA format.
Cold Start	To clear all GPS data in the device.
G-sensor calibration	To calibrate G-sensor. Your device has a built-in G-sensor for sensing the orientation (landscape or portrait) of the device.
Function buttons	To assign an application to the function button (**F1**, **F2**, and **F3** in the navigation bar).
Touchscreen auto-calibration	To calibrate the touchscreen. When started, do not touch the screen and wait till the calibration is completed.
Firmware upgrade	To upgrade your device's firmware with the firmware files on an external SD card. **CAUTION:** For advanced users only.

About Device

Item	Description
Status	Displays a long list of information about your battery, mobile network connection, and other details.
Sensors	Displays current measured values of sensors.
Battery use	Displays a list of the applications and operating system components you have used since you last connected the device to a power source, sorted by the amount of power they have used.

Item	Description
–	The rest of the screen lists legal, hardware, and software information of your device.

Chapter 10

Caring and Maintenance

This chapter provides guidelines on taking care of your device.

Resetting Your Device

To restart the device, press and hold the power button until a menu pops up. Tap **Power off** and then **Reboot**.

In case the device stops responding to your operation, you can force the device to power off by pressing and holding the power button for more than 10 seconds. Then turn on again.

Caring for Your Device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from excessive moisture and extreme temperatures.

- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.

- Do not place anything on top of your device or drop objects on your device.

- Do not drop your device or subject it to severe shock.

- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow your device to dry out completely before use.

- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.

- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.

- Do not use paper towels to clean the screen.

- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void the warranty.

- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

Chapter 11

Regulatory Information

NOTE: Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this chapter. Some notices apply to specific models only.

Regulations Statements

European Notice

Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) – as amended by Directive 93/68/ECC – issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Standards:

EN301489-1: Electronic compatibility and Radio spectrum Matters (ERM), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN301489-17: Electronic compatibility and Radio spectrum Matters (ERM), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

EN55022: Radio disturbance characteristics
EN55024: Immunity characteristics
EN6100-3-2: Limits for harmonic current emissions
EN6100-3-3: Limitation of voltage fluctuation and flicker in low-voltage supply system
EN60950 / IEC 60950: Product Safety

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking.

FCC Regulations

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

● Reorient or relocate the receiving antenna.

● Increase the separation between the equipment and receiver.

● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

● Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Precautions

● Prolonged listening of music in maximum volume can damage the ears.

● The use of headphones other than those recommended/supplied can cause hearing impairment due to excessive sound pressure.

● **Caution for service personnel:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

About Charging

● Use only the AC adapter supplied with your device. Use of another type of AC adapter will result in malfunction and/or danger.

● Use only the car charger supplied by the manufacturer. Use of another type of car charger will result in malfunction and/or danger.

● This product is intended to be supplied by a LISTED Power Unit marked with "LPS," "Limited Power Source," and output rated + 12 V dc / 2.0 A.

● Use a specified cradle approved by the manufacturer.

● Use a specified battery in the equipment.

About the Charger

● Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.

● Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.

- Connect the charger to a proper power source. The voltage and grounding requirements are found on the product case and/or packaging.

- Do not use the charger if the cord becomes damaged.

- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

About the Radio Frequency Exposure

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device 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 device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the device as reported to the FCC is 0.27 W/Kg.

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID: **QYLPHS8-PZ**, **QYLZ710**, and **QYLZ710R**.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the

positions the handset a minimum of 1.5 cm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines.