8 Using GPS Navigation

- GPS antenna
- Unpacking the SP510 vehicle mount kit
- Setting up SP510 on your vehicle
- Using SP510 safely

GPS antenna

SP510 has an internal micro-antenna for the GPS (Global Positioning System) receiver. This antenna, located beneath the top left of the device, receives radio signals and process position information between the device receiver and the satellite signals. GPS accuracy and signal availability and quality may be affected by your location, buildings, canyon walls, hard ground, and weather conditions. Use your device outdoors to allow reception of GPS signals.

Unpacking the SP510 vehicle mount kit

The vehicle mount kit includes:

- Vehicle mount
- Cradle plate
- Auto charger cable
- Headset

Setting up SP510 on your vehicle

WARNING! Some countries prohibit the mounting of any electronic device in any location on the vehicle dashboard. Be sure to check your local laws acceptable mounting areas before installing the auto mounting kit.

Installation reminders
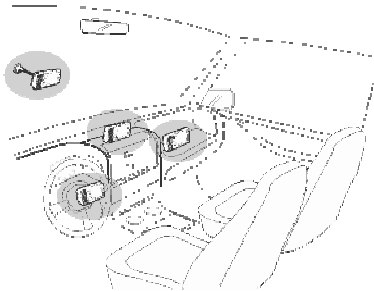
- Do not mount the device where it will obscure the driver's view of the road.
- Do not mount the device near the driver seat air bag deployment area.
- Do not place the device on top of the dashboard or anywhere without securing the device on the vehicle mount.
- Do not mount the device near the passenger seat air bag deployment area.

- Install the vehicle mount on the surface of your vehicle that is reasonably flat and free of dirt and oil

Device mounting precautions

- Some countries prohibit the mounting of any electronic device in any location on the vehicle dashboard. Be sure to check your local laws acceptable mounting areas before installing the auto mounting kit.
- Some newer vehicle models may have a heat reflective shield embedded in the windshield. This may in some cases obstruct the GPS signal reception.
  In some cases, poor GPS signal are caused by:
    - Indoors and GPS cannot receive satellite positioning signal
    - Pylon or mobile phone base station
    - Bad weather, thunder, lightning, cloudy sky, fog, or rain
    - Driving at high speed
- The heating and cooling cycle of a vehicle's interior will in some cases loosen the adhesion of the suction cup. Check the vacuum seal of the vehicle mount kit for adequate adhesion each time you use the unit, and reinstall if necessary.
- If the vehicle mount kit has problems staying on, clean the plastic suction cup with alcohol, then reinstall.

To set up the device on your vehicle:

Install the vehicle mount on the surface of your vehicle that is reasonably flat and free of dirt and oil

1 Clean the mounting surface with a glass cleaner and a clean cotton cloth.

2 Install the vehicle mount on the windshield or other flat car surface.

   (a) Fix the suction cup mount to the selected area with the suction lever facing up.

   (b) Flip the lever down to create a vacuum between the suction cup and the mounting surface.

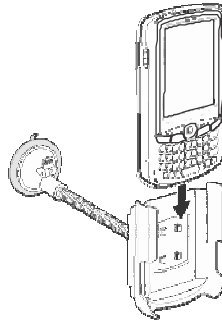   Make sure that the suction bond is strong enough before proceeding to the next step.

   (c) Insert the vehicle mount's cradle plate to the holes on the back of the cradle.

   (d) Move the car cradle until both parts are engaged.
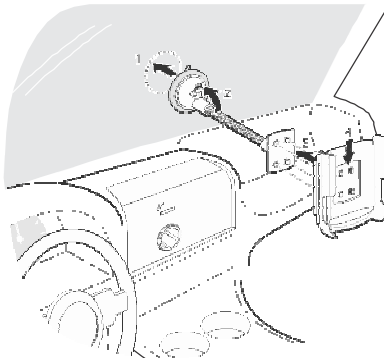
3   Slide the device into the cradle.

IMPORTANT: Before you start to use your device for GPS navigation, download the LTO (Long Term Orbits) first to update the Ephemeris data (current satellite position and timing information) onto your device. This data is needed to determine the GPS position of your current location.

4   The internal GPS receiver of your device is located as shown, for best GPS reception, make sure to mount your device in the correct position as shown in the illustration.
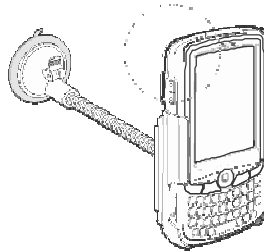
5   Connect the charger cable to the device and connect the other end of the charger cable to the cigarette lighter socket.
     The LED indicator on the right side of the touch screen lights up orange during charging.

Downloading the LTO satellite data

Global Locate LTO satellite data provides guidance information about your current location and the distance and duration of travel. After the final location and time are calculated, the coordinates in the GPS are expressed in specific coordinate system, degrees and decimal degrees format, using the WGS 84 coordinate system.

The SP510 includes an Express GPS Connection application that makes use of the LTO satellite data, which can be downloaded using a GPRS/EDGE wireless data service connection. As an alternative to GPRS/EDGE download, you can retrieve the LTO satellite data from a server on the Internet and transfer it to your SP510 when you connect it to your PC via ActiveSync or Bluetooth. After downloading the satellite orbit data, Express GPS Connection stores the data into the device's GPS chipset.

For your first location fix, it is best to be outdoors under an open sky, with no tall buildings or other obstructions close by. It should take one to two minutes to compute the first position fix. After obtaining the first fix, Express GPS Connect operates at the optimum GPS performance level. If the data has expired, you should check your Express GPS Connect settings.

You have two options to download LTO—from the Today screen, using the **Express GPS Connect** icon 🔲; or the Express GPS Connect option under the **Settings > Connections** preferences.

NOTE: Be sure the current date is displayed on the SP510. If the date and time are not current, tap the **Clock** icon 🕐 on the Today screen.

To download the LTO satellite data file using Settings:

1   Start a remote connection to the server using a GPRS/EDGE connection.

2   Tap 🔲 > **Settings** 🔲.

3   On the Connections tab, tap **Express GPS Connect** 🔲 .

4   Tap **Download Now**.
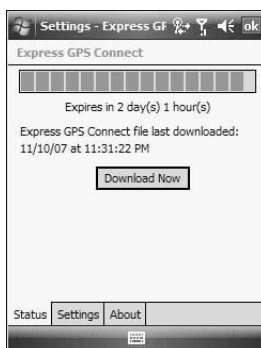
To download the LTO satellite data file using the Express GPS Connect icon:

1   On the Today screen, tap the **Express GPS Connect** icon 🔲, located on the lower right corner of the screen.

2   Tap **Download Now**.
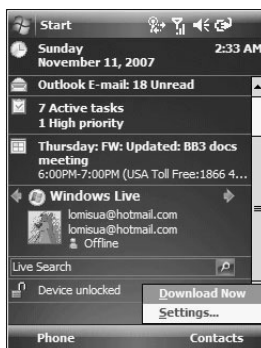
Once activated, Express GPS Connect icon on the Today screen turns from gray to blue .

See "Express GPS Connect" on page 165 for more information on how to use Express GPS Connection,

Using SP510 safely

For your safety, observe the following precautions carefully.

Driving precautions

- Do not attempt to enter information or configure the device while driving. If you need to do so, pull out of traffic and come to a stop in a legally permissible and safe location before using your device.
- Vehicle operators must maintain full surveillance of pertinent driving conditions at all times. Minimize the need to view the device screen while driving and use voice prompts to guide you.
- Never place the device on the passenger seat or any place else in the car where it can become projectile during a collision or stop.
- An air bag inflates with great force, DO NOT mount the device in the area over the air bag or in the air bag deployment area.

9 Using SP510 Companion Programs

- • Phone management programs
- • Wireless communication programs
- • Media-related programs
- • Product download-related programs

Phone management programs

These programs help you manage the contents of your SIM card.

- • Use SIM Manager to manage contacts stored in your SIM card
- • Use SIM Toolkit to access the mobile content and data services, such as news, weather, banking, and traveling information; offered by the mobile operators

📄 SIM Manager

SIM Manager enables you to manage all contacts stored on your SIM card. This program complements your device's phone function by enabling not just the addition of *new phone* numbers on your SIM card, but more importantly, exporting such contact information to Microsoft Contacts. This eliminates the need to manually enter these new contact information in your device.
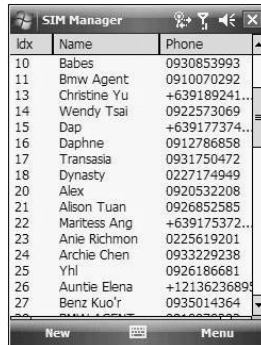
To open SIM Manager:

1 Tap 📳 > **Settings** 🔯 .

2 On the System tab, tap **SIM Manager** 📄.

To copy SIM contacts to your device:

1 Tap 📳 > **Settings** 🔯 .

2 On the System tab, tap **SIM Manager** 📄.

Wait for SIM card contents to load. This may take a few seconds.

Idx	Name	Phone
10	Babes	0930853993
11	Bmw Agent	0910070292
13	Christine Yu	+639189241...
14	Wendy Tsai	0922573069
15	Dap	+639177374...
16	Daphne	0912786858
17	Transasia	0931750472
18	Dynasty	0227174949
20	Alex	0920532208
21	Alison Tuan	0926852585
22	Maritess Ang	+639175372...
23	Anie Richmon	0225619201
24	Archie Chen	0933229238
25	Yhl	0926186681
26	Auntie Elena	+12136236895
27	Benz Kuo'r	0935014364

3 Tap **Menu > Tools > Save All to Contacts**.

To copy a SIM contact to your device:

1   Tap ⚑ > **Settings** 🔘 .

2   On the System tab, tap **SIM Manager** 🔲.

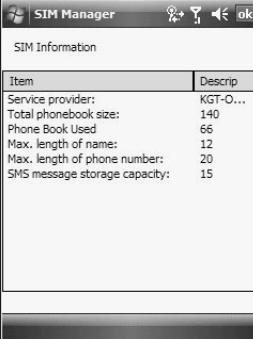Wait for the SIM card contents to load. This may take a few seconds.

Idx	Name	Phone
10	Babes	0930853993
11	Bmw Agent	0910070292
13	Christine Yu	+639189241...
14	Wendy Tsai	0922573069
15	Dap	+639177374...
16	Daphne	0912786858
17	Transasia	0931750472
18	Dynasty	0227174949
20	Alex	0920532208
21	Alison Tuan	0926852585
22	Maritess Ang	+639175372...
23	Anie Richmon	0225619201
24	Archie Chen	0933229238
25	Yhl	0926186681
26	Auntie Elena	+12136236895
27	Benz Kuo'r	0935014364

New   Menu

3   Tap and hold a SIM contact, then select **Save To Contacts**.

To view SIM information:

The SIM Manager also provides view of the settings, such as the service provider, phone book size, phone book used, maximum length of contact name, maximum length of phone numbers, and SMS message storage capacity.

•   On the SIM Manager screen, tap **Menu > Tools > SIM Information**.

SIM Information

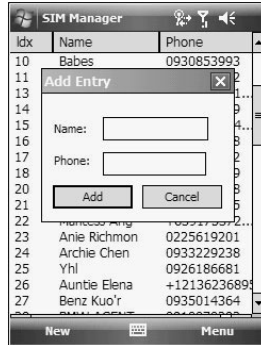| Item	Descrip
Service provider:	KGT-O...
Total phonebook size:	140
Phone Book Used	66
Max. length of name:	12
Max. length of phone number:	20
SMS message storage capacity:	15

<u>To export SIM text messages to the Inbox folder</u>:

- On the <u>SIM Manager</u> screen, tap **Menu > Tools > Export All Messages to Inbox**.

<u>To create a new SIM contact</u>:

1   On the <u>SIM Manager</u> screen, tap **New**.

2   Enter the contact name and phone number.

3   Tap **Add**.

Procedures on how to perform the various SIM Manager operations is integrated on "Chapter 7 Using Phone" on page 107.

SIM Toolkit

SIM Toolkit enables you to access the online services offered by your mobile operator. This feature is dependent on your mobile operator. Online services, such as news, weather, banking, and traveling information can be accessed from your SP510. Check the availability of services with your mobile phone service provider.

<u>To open SIM Toolkit</u>:

- Tap   **> Programs**   **> SIM Toolkit** .

    Wait for data contents to load. This may take a few seconds.

Wireless communication programs

- • Internet Sharing
- • Push to Talk
- • Remote Desktop Mobile
- • Express GPS Connect

Internet Sharing

Internet Sharing enables your computer to use the device as a modem for connecting to the Internet.

To open Internet Sharing:

- • Tap 🎯 > **Programs** 📄> **Internet Sharing** 📷.

To use SP510 as a modem:

1   Connect your device to your computer using USB cable or a Bluetooth.

2   Tap 🎯 > **Programs** 📄> **Internet Sharing** 📷.

Internet Sharing
Status:
Disconnected
PC Connection:
USB
Network Connection:
My Connection
Connect   Menu
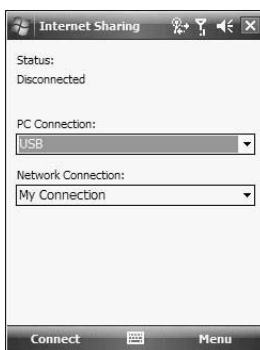
3   In the PC Connection list, select the connection type.

4   Select the network connection that the device should use to connect to the Internet.

5   Tap **Connect**.

NOTE: If your computer is Bluetooth-enabled and you select Bluetooth as the PC connection, you must initiate and complete the Bluetooth PAN partnership before Internet Sharing will work. For more information, refer to Windows Help and Support.

ⓟ Push to Talk

NOTE: Push to Talk application is not available on all configurations.

Push to Talk (PTT) is a walkie-talkie style service that provides simple communication with one person or with a group of people having compatible devices. With PTT, conversations are sent over cellular networks and only one person can talk at a time and then only by pressing the Push to Talk button. Calling a group of people can be conducted within set groups already established or created just before the session, by sending invitation messages among individual PTT participants or for users already involved in one PTT session. While using PTT, you can use the other functions of the SP510.

Before you can use PTT, you must define the required PTT service settings. See "Configuring the PTT Settings" on page 162 for more information.

PTT menu

The PTT menu lets you easily view PTT contacts, create an individual contact or a group, create a PTT name, configure auto accept invitations feature, or switch PTT on or off.

To open PTT:

• Tap 🔧 > **Programs** 📇 > **Push to Talk** ⓟ.

Using PTT

To initialize your PTT service:

1 Begin initializing your PTT service by performing one of the following:

  • Press the **Push to Talk** button on your device.

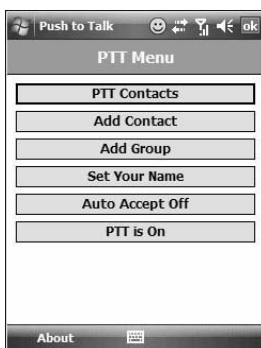 • Tap 🔧 > **Programs** 📇 > **Push to Talk** ⓟ.
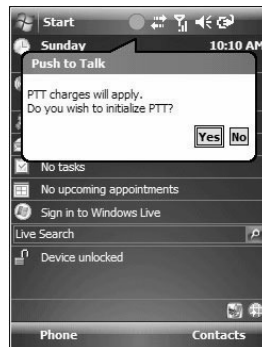
2 Tap **Yes**.

When activation is complete, notification prompt is displayed and the **User Presence** icon ☺ appears on the navigation bar.

The PTT Menu window appears.

The PTT Menu window includes the following menu commands or parameters:

- PTT Contacts - Displays the PTT Contacts screen.
- Add Contact - Lets you create an individual PTT contact.
- Add Group - Lets you create a PTT group.
- Set Your Name - Lets you create a PTT user name.
- Auto Accept Off - Toggles the auto accept invitation feature.
- PTT is On - Toggles PTT on or off.

To create an individual PTT contact:

1 Perform one of the following:

- On the PTT Menu screen, tap **PTT Contacts > Menu > Add Contact.**
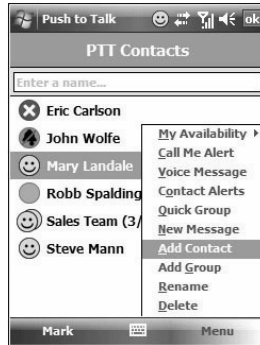
- On the PTT Menu screen, tap **Add Contact**.
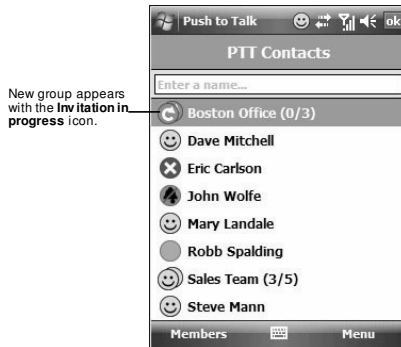
2 Enter the name and mobile number of your contact.

-or-

Open **Contacts**, then select a contact to add to PTT.
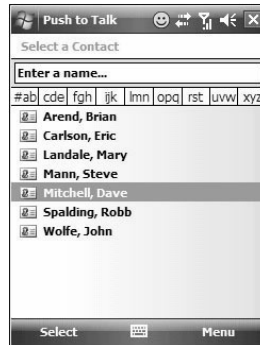
3 Tap **ok**.
   The newly added contact, Dave Mitchell, appears in the list next to the Invitation in progress icon.

To rename a PTT contact:
1 Perform one of the following:
   • On the PTT Menu screen, tap **PTT Contacts** > a **contact** > **Menu** > **Rename.**

   • Tap and hold a contact in the PTT Contact list, then tap **Rename**.
2 Enter a new name for the contact, then tap **ok**.
   The number in the screen is read only and cannot be modified.

To delete a PTT contact:
1 On the PTT Menu screen, tap **PTT Contacts** > a **contact** > **Menu** > **Delete.**
2 Tap **Yes**.

To create a PTT group:
1 Perform one of the following:
   • On the PTT Menu screen, tap **PTT Contacts** > **Menu** > **Add Group.**
   • On the PTT Menu screen, tap **Add Group**.

2   Enter a name for the new group and tap **ok**.

Tap to create new
PTT contacts.

3   Select a contact to add in the group, then tap **ok**.

New group appears
with the **Invitation in
progress** icon.

To delete a PTT group:
1   On the PTT Contacts screen, select a group name.
2   Tap **Menu > Delete Group.**
3   Tap **Yes**.

To rename a PTT group:
1   On the PTT Contacts screen, select a group name.
2   Tap **Menu > Rename Group.**
3   Enter the new group name, then tap **ok**.

To leave the talk group:
1   On the PTT Contacts screen, select a group name.
2   Tap **Menu > Leave Group.**
3   Tap **Yes**.

PTT Contacts status icons

The list below shows the status icons that appear next to the individuals in PTT Contacts.

Icon	Name	Description
	Invitation in Progress	Displays when you have sent an invitation to join a group or you are waiting for an individual to accept your invitation. Once a member accepts, this status will change to Available.
	Do Not Disturb	Displays when a contact has changed their availability to Do Not Disturb. PTT calls cannot be place.
	Silent/Vibrate	Indicates a contact has set their ringer to either Silent or Vibrate.
	Available (Individual)	Indicates the contact can receive a PTT call.
	Available (Group)	Indicates the group can receive a PTT call.
	Unavailable (Individual)	Contact has turned PTT off, powered down their device, or moved out of coverage.
	Unavailable (Group)	Group has turned PTT off, powered down their device, or moved out of coverage.

To change the availability status:
1   Press the **Push to Talk** button.
2   Tap **Menu > My Availability,** then select a status.

PTT calls

PTT calls can only be made to individuals or groups established in your PTT Contacts.

To make an individual or a group call:
1   Press the **Push to Talk** button.
2   Navigate to the individual or group you want to call, then press the **Push to Talk** button.

3   Tap **Speaker On** to turn on speaker.
4   Tap **To Cellular** to convert to Cellular call.

To receive an incoming PTT call:
- If your status is **Available**, PTT calls are automatically accepted, a **PTT call tone** is played and then **caller's voice** can be heard.
- If your status is **Silent/Vibrate**, the phone vibrates prompting you to accept or reject the call.
- If you receive a call while a call is in progress, a message box appears on the screen.

To view PTT Call History:
Perform one of the following:

- Press and hold the **Push to Talk** button.
- During an incoming call, tap **Menu > PTT History**.

- On the **PTT History** screen, perform the following:
  - Make a PTT call by selecting a contact and pressing the **Push to Talk** button. Initiating PTT calls to dynamic or quick groups is not allowed.
  - Delete all or select items in the list by tapping **Menu > Delete All Calls**.
  - View all incoming and outgoing items by tapping **Menu > Filter > All**, **Incoming**, or **Outgoing**.

To send a Call Me Alert:
Call Me Alert is a message displayed across the receiver's screen
1 Press the **Push to Talk** button.
2 Select the individual you wish to alert.
3 Tap **Menu > Call Me Alert**.

4 Tap **ok**.

Configuring the PTT Settings

You can configure most features of the PTT to suit your preferences. You do this by accessing the Set Your Name, Auto Accept Off, or PTT is On commands in the PTT menu.

<u>To change your presence status</u>:

1 Press the **Push to Talk** button.

2 Tap **Menu > My Availability >** turn it on or off.

<u>To auto accept invites</u>:

1 On the <u>PTT Menu</u> screen, tap **Auto Accept Off**.
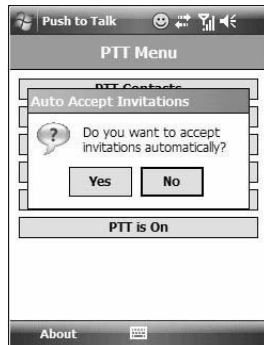
2 Tap **Yes**.

To turn off PTT:

1 On the PTT Menu screen, tap **PTT is On**.
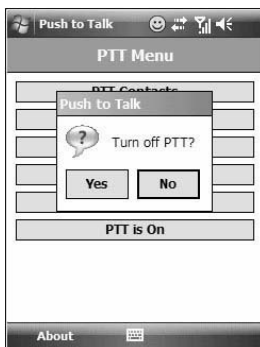
2 Tap **Yes**.

Remote Desktop Mobile

Remote Desktop Mobile is based on Terminal Services Technology. Use Remote Desktop Mobile to log onto a Windows Terminal Server type computer and use all of the programs that are available on that computer from your device. For example, instead of running Word Mobile, you can run the PC version of Microsoft Word and access all of the .doc files on that computer from your device.

NOTE: Procedures described in this section applies to computers using the Windows 2000 or later version operating system.

To create a remote connection to a computer:

1 Start a remote connection to the server using a GPRS, EDGE, WCDM connection.

2 Tap > **Programs**   > **Remote Desktop Mobile** .
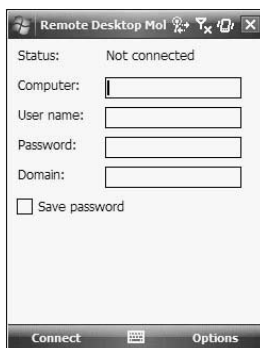
3 Enter a server name.

4 Enter the user name and password.

5 If a domain is required, enter the domain address.

6   Tap **Connect**.

Once connected to the server, the computer's screen may more than fill your device's screen. If scroll bars are displayed on the server's screen, you will see more than one set of scroll bars on your device—one to scroll information on the computer, and the other one to scroll the Remote Desktop Mobile screen. To ensure you are scrolling the PC window contents, use the five directional buttons at the bottom of the screen.

7   For more information on Remote Desktop Mobile, tap [icon] > **Help** [icon].

To improve display performance:

Display performance is improved by decreasing the time it takes for the screen to be refreshed on the PC.

1   On your PC, select **Start > Settings > Control Panel**.

2   Double-click **Display**.

3   On the Appearance tab, click **Effect**.

4   Clear the "Use the following transition effects for menus and tool tips" check box.

5   Click **Apply**, then **OK**.

To improve browser performance:

The performance of Internet Explorer on your PC is improved by decreasing the time it takes for Web pages to be refreshed.

1   In Internet Explorer on your PC, select **Tools > Internet Options > Advanced** tab.

2   Under Browsing, clear the "Use smooth scrolling" check box.
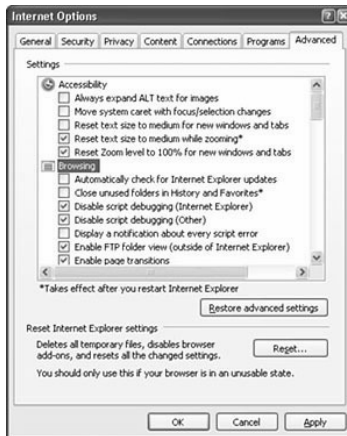
3   Click **Apply**, then **OK**.

To disconnect and end a session:

1   In the Remote Desktop Client PC window, click **Start > Shut Down**.

2   On the Shut Down Windows dialog box, click **Log Off [user name].**

3   Click **OK**.

NOTE: If the network administrator has configured Remote Desktop Client to reconnect to disconnected sessions, you will be reconnected to this session the next time you connect to this server.

Express GPS Connect

SP510 is integrated with the latest GPS (Global Positioning System) technology to quickly compute positions in locations where GPS signals are barely detectable. Optimum GPS performance can be achieved with Express GPS Connect. This program operates by transferring GPS satellite data (ephemeris information) from the Internet to your device, where it is stored in memory. Express GPS Connect can get satellite data when your SP510 is connected to your PC or the Internet. This process occurs in the background, ensuring the GPS functions are ready to use at all times.

To open Express GPS Connect:

1   Start a remote connection to the server using a GPRS, EDGE, WCDMA, HSPA connection.

2   Tap 🕮 > **Settings** 🔘.

3   On the Connections tab, tap **Express GPS Connect** 🌐 .

Using Express GPS Connect

Use Express GPS Connect for the first time

The first time you use your SP510 EDA, make sure your Express GPS Connect satellite data is current. For your first location fix, it is best to be outdoors under an open sky, with no tall buildings or other obstructions close by. It should take one to two minutes to compute the first position fix. After obtaining the first fix, Express GPS Connect operates at the optimum GPS performance level. If the data has expired, you should check your Express GPS Connect settings.

Express GPS Connect position fix times

*   The time it takes for Express GPS Connect to get a position fix varies with signal reception conditions. In open and nearly open sky conditions, the SP510 typically can get a position fix in just a few seconds. In blocked signal conditions Express GPS Connect will start in one minute or less if the GPS signals are sufficiently strong.

    Using your SP510 near a window gives it a better view to the sky and improves the chance of a successful position fix.

*   Express GPS Connect starts searching for signals based on the most recent position fix. When traveling to a new location your SP510 will need extra time and more open signal conditions to obtain a location fix. After your first fix in the new location full performance is restored.

*   When traveling to a different time zone, you can change the time zone settings to tell Express GPS Connect you have traveled.

Satellite reception

*   GPS receivers work best when they have a direct line of sight to the satellites. For example, somebody turning on a GPS receiver in the middle of the Gobi Desert will obtain a position fix much sooner than a GPS user trying to get a position fix in the middle of Wall Street. The reason for this is simple: the Gobi Desert is a huge, flat expanse. It has no tall buildings and very few natural obstructions that could block GPS signals. GPS is ideal for an "open sky" environment like the Gobi Desert.

*   In contrast, Wall Street represents an "urban canyon" environment, where tall buildings on both sides of the street block, reflect, and scatter incoming GPS signals. These conditions also apply when trying to use a GPS receiver indoors. A traditional GPS receiver simply may not be able to compute a position in an urban canyon or indoor environment.

*   When you are getting your first GPS position fix with the SP510, try to do it in an environment that is as close to "open sky" as possible. The first position fix is crucial because it includes a calibration process that helps subsequent position fixes to be computed more rapidly. After getting the first position fix, you will be able to enjoy the benefits of the Express GPS Connect's high-sensitivity technology, which, when coupled with Express GPS Connect satellite data, allows you to get position fixes in places where traditional GPS receivers can't.

How to improve GPS performance

Your SP510 computes your position faster and more accurately, provided the following are adhered to:

- Always operate with current Express GPS Connect data.
- Configure your SP510 to automatically update Express GPS Connect data.
- Keep the SP510 away from other electronic devices that may emit radio waves (such as laptop computers and USB devices).
- Protect your SP510 from extreme temperature variations and violent shocks.
- If you are indoors and do not get a position after one minute, move to a window to give the SP510 a better view of the sky.
- If you have traveled more than 500 miles since you last used your SP510, or if the unit has been reset, the next position computation should be performed under open sky conditions, and extra time should be allowed.
- When traveling to a different time zone, be sure to change the SP510's time zone settings.
    - If you have traveled more than 500 miles from the location where you last used the SP510's GPS capability, the device will need extra time to compute a position fix. Here are a few ways to reduce the time to obtain a position in your new location.
    - If traveling by plane, it is best to wait until you leave the terminal building before trying to obtain your first position fix.
    - After the device obtained the first position fix in a new region, optimum Express GPS Connect performance is restored.
    - If you have traveled to another time zone, you can speed up the GPS position computation by changing the time zone settings on *your device*. This causes Express GPS Connect to proceed immediately to a global satellite search.
    - If you do not change the time zone, Express GPS Connect will initially search for satellites based on your previous position, increasing the time required to obtain a position fix.

Express GPS Connect status icons

The Express GPS Connect icon ⊕ located on the lower right corner of the Today screen indicates the expected level of GPS performance and the amount of time until the Express GPS Connect data expires.

Icon	Description
⊕	Indicates satellite data is valid and current
⊕	Indicates satellite data is valid and is due to expire within 24 or fewer hours
⊕	Indicates satellite data has expired

Downloading the Express GPS Connect Data File

You have two options to download satellite data—from the Today screen, using the Express GPS Connect icon ⊕; or the Express GPS Connect option under the Settings > Connections preferences. Once activated, Express GPS Connect icon on the Today screen turns from gray ⊕ to blue ⊕.

NOTE: Be sure the current date is displayed on the SP510. If the date and time are not current, tap the **Clock** icon ⊕ on the Today screen.

To download the satellite data file using Settings:

1   Tap 📁 **> Settings** 🔘.

2   On the Connections tab, tap **Express GPS Connect** 🔵 .

3   Tap **Download Now**.

To download the satellite data file using the Express GPS Connect icon:

1   On the Today screen, tap the **Express GPS Connect** icon 🔵, located on the lower right corner of the screen.

2   Tap **Download Now**.
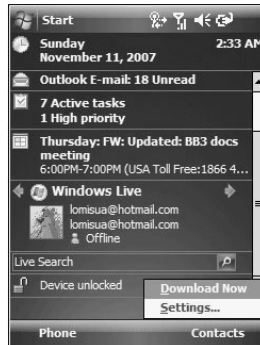
3   Tap **ok**.

To refresh satellite data:

You device can refresh satellite data through the following:

• PC with Internet connectivity using ActiveSync or Bluetooth.

• GPRS/EDGE wireless data service connection.

• ActiveSync to obtain Express GPS Connect data files already stored on your PC. This method requires you to install the supplied PC utility that retrieves Express GPS Connect data through the Internet.

• With any of these methods, your SP510 can be configured to refresh Express GPS Connect satellite data automatically, or you can manually refresh the data by tapping **Download Now**.

Configuring the Express GPS Connect

You can set preference settings on how to use Express GPS Connect. You can perform the following configuration options in Express GPS Connect:

- Specify Express GPS Connect to obtain satellite data updates.
- Specify Express GPS Connect to automatically update using a GPRS connection.
- Specify Express GPS Connect to show expiration reminders and warnings.
- Specify Express GPS Connect to display an icon on the lower right corner of the Today screen.

To configure the Express GPS Connect settings:

1 Tap 🔄 > **Settings** 🔘.

2 On the Connections tab, tap **Express GPS Connect** ⊕ .

3 On the Express GPS Connect screen, tap the **Settings** tab.
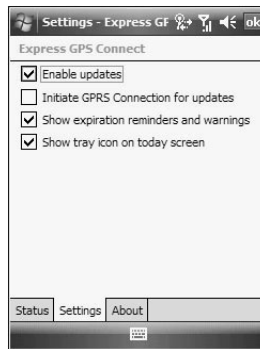
4 On the Settings tab, set the following options:

- Tap "Enable updates" check box to enable Express GPS Connect to obtain satellite data. If disabled, ActiveSync must be used to obtain data.
- Tap "Initiate GPRS connection for updates" check box to allow Express GPS Connect to automatically update data on the device using a GPRS connection.
- Tap "Show expiration reminders" check box to receive notifications when a satellite data has expired before you start a location application. If disabled, the device operates without the benefit of Express GPS Connect and GPS performance is unfavorable.
- Tap "Show tray icon on Today screen" check box to display an icon on the lower right corner of the Today screen.

5 Tap **ok**.

To perform an Express GPS Connect factory reset:

SP510 Express GPS Connect saves information related to GPS operation that reduces the time required to compute positions. If there is a problem with the SP510's memory, this information might be corrupted.

1 Tap 🔄 > **Settings** 🔘.

2 On the Connections tab, tap **Express GPS Connect** ⊕ .

3   On the Express GPS Connect screen, tap the **About** tab.

4   Tap **Advanced > Factory Reset**.
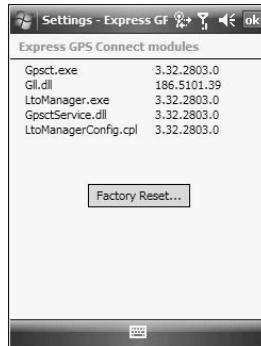
5   Tap **OK**. This removes all of the Express GPS Connect internal operating information and restores the factory default settings.

Media-related programs

- Pictures & Videos
- Camera
- Camera Wedge

Pictures & Videos

Pictures & Videos extends your device's function to the visual scene with its image management, viewer and editing functions. It supports BMP, GIF and JPEG image formats, as well as record and launch video clips stored on your device or on a storage card. Now you can keep those images of your favorite moments as mobile as you are.

To open Pictures & Videos:

- Tap ![icon] > **Programs** ![icon] > **Pictures & Videos** ![icon].

Tap to launch the Camera application.

Pictures & Videos opens to a thumbnail view of all image files stored on the My Pictures folder on your device and/or on a storage card attached to your device.

You can use Pictures & Videos to perform any of the following:

- View images in thumbnail, full screen or slide show mode
- Edit BMP, GIF and JPEG images
- Set a BMP, GIF and JEG image as the background of the Today screen, similar to using a wallpaper on your computer's desktop screen.
- Send an image file or video clip via infrared or using Inbox
- Record a video clip
- Launch video clips stored on your device.
- Launch the Camera application.

Copying image files or video clips to your device

To view your image files and video clips in Pictures & Videos, copy the files to the My Pictures folder of your device or on a storage card folder.

To copy image files or video clips from your computer to your device:
1   Connect your device to your computer.

2   In ActiveSync on your computer, click **Explore** ![icon].
    Windows Explorer opens the Mobile Device window for your device.
3   Locate then select the file(s) that you want to copy on your device.
4   Right-click the selected file(s), then click **Copy**.

5   Place the cursor on the My Pictures folder of the Mobile Device window, right-click, then click **Paste**.

In Pictures & Videos, tap to view image files stored in the My Pictures folder.

To copy image files from a storage card to your device:

1   Install the storage card to your device's SD/MMC expansion slot.

2   Perform steps 1-4 of the procedure above.

3   Locate the Storage Card folder under the My Windows Mobile-Based Device directory.

4   Open the folder under the Storage Card folder where you want to save your image file(s).

5   Place the cursor on the selected folder, right-click, then click **Paste**.

In Pictures & Videos, tap to view image files stored in an attached storage card.

Organizing photos and videos

You can use Pictures & Videos to organize and search for images stored on your SP510 or on a storage card. You can also edit images and send them as an e-mail attachment, view a slide show of your pictures or set a picture as a background on the Today screen. Pictures & Videos display images in any of the three view modes—thumbnail (default), full screen, and slide show.

Thumbnail mode
Thumbnail mode is the default view mode every time you open Pictures.

You can perform the following while in thumbnail mode:

• Tap and hold a thumbnail to display a pop-up menu of available actions.
• Place your stylus within the edge at the far left or far right of the screen and then drag the stylus over the images to perform multiple selections useful in deleting images by batch rather than by thumbnail.
• Move the joystick up or down to select the previous/next thumbnail.

<u>To perform image management tasks</u>:

It is only in thumbnail mode can you perform most of the image management tasks.

1   Tap and hold a thumbnail to display a pop-up menu of available actions.
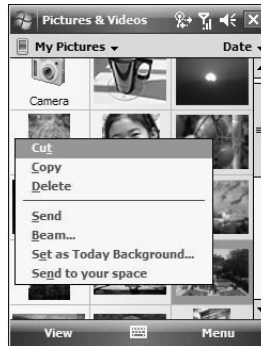
2   Perform any of the following:

- Tap **Cut** to move image file to the Storage Card folder.
- Tap **Copy** to create a duplicate image file. This is useful when you want to edit an image but still want to retain an original copy of the image.
- Tap **Delete** to remove the selected thumbnail from its location. You are prompted to confirm the deletion.
- Tap **Send** to attach image as an attachment to an e-mail.
- Tap **Beam** to send the thumbnail to another Bluetooth or IR-enabled device.
- Tap **Set as Today Background** to set image as background of the Today screen.
- Tap **Send to your space** to upload image to Windows Live Space.

Full screen mode

It is only in full screen mode can you perform any editing action on an image.

<u>To view image in full screen mode</u>:

- Tap a thumbnail or press the joystick while a thumbnail is selected.

   In this view, the selected image is maximized so that it fits the entire screen (with the navigator and command bars still visible) used to display it.
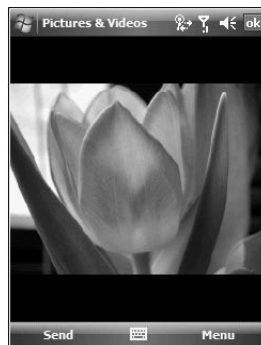
Tap **ok** or press the joystick to return to thumbnail mode.

To change the image orientation:
You can change the display orientation of an image.

• On the command bar, tap **Menu > Edit > Rotate** to rotate the image 90°
   counter-clockwise.

To crop part of an image:
You have the option to specify a portion of an image and then save that portion as a new
JPEG file.

1   Tap **Menu > Edit**.
2   Tap **Menu > Crop** to enable the Crop tool.
3   Drag your stylus across part of the image you want to crop.
4   Tap inside the selection.

5   Tap **Menu > Save As**.

6   Fill out the fields in the <u>Save As</u> screen.
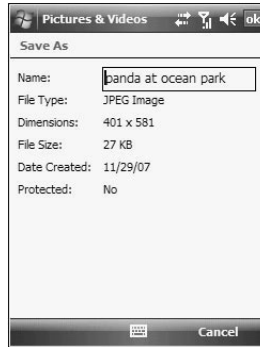
7   Tap **ok**.

<u>To zoom in/zoom out the image</u>:

To view images in a larger or smaller scale use the Zoom tool.

1   Tap the image.

2   Tap **Menu > Zoom**.

A zoom selection panel appears on the lower right corner of the screen.

3   Tap the **Magnify** button 🔍 to enable the zoom selection tools.

The full screen image zooms in and a red selection border automatically appears on the image inside the zoom selection panel.

4   Perform any of the following:

•   Tap 🔍 to magnify the size of the image.

•   Tap 🔍 to reduce the size of the image.

•   Tap 🔲 to zoom into an image.

•   Tap ⛶ to return the image to its original view size.

•   Drag the red box within the small frame to pan the image in any direction you want.

5   Tap **Menu > Zoom** to hide the zoom selection panel.

To set an image as a Today wallpaper:

To add a custom look to the Today screen of your device; apply a wallpaper of your choice using any image.

1   Tap and hold a thumbnail, then tap **Set as Today Background**.
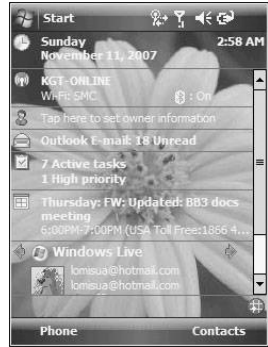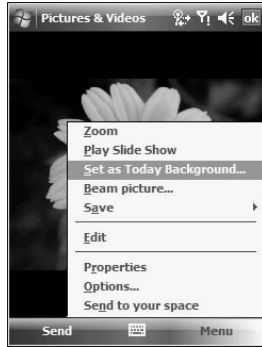
2   Tap the up or down arrows to set the transparency level.
3   Tap **ok**.

Slide show mode

You can view images in a slide show much like viewing a PowerPoint presentation in your computer. Images are adjusted to fit the entire display area and are shown in a five seconds interval (default).

To view image in slide show mode:

•   In thumbnail mode, tap **Menu > Play Slide Show**.
    During the slide show, you can use hardware buttons to control the image display. Move the joystick up or down to display the previous image; rotate down to display the next image.

To view the Slide Show toolbar:

•   During the slide show, tap anywhere on the screen or press the joystick.

The icons in the Slide Show toolbar lets you control the pace of the slide show, as well as change the orientation of the images.

•   Tap to rotate the images counterclockwise.

• Tap ⏵ to continue the slide show after pausing it.

• Tap ⏸ to pause the slide show.

• Tap ⏮ to display the previous image.

• Tap ⏭ to display the next image.

• Tap ✕ to stop the slide show. Screen returns to thumbnail mode.

Customizing Pictures & Videos

Using the Options command you can set preference settings on how to use Pictures & Videos.

To customize Pictures & Videos:

1   On either thumbnail or full screen mode, tap **Menu > Options**.
2   On the General tab, set the following options:
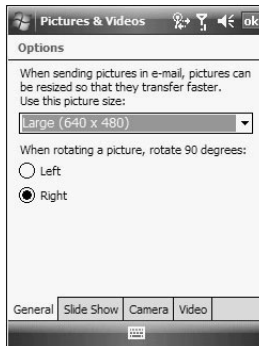
• Select the size of the pictures you want to send through e-mail. Only pictures sent through an e-mail message is resized, the original picture remains unchanged.
• Resize pictures for faster e-mail transfer
• Rotate pictures towards left or right.

3   On the Slide Show tab, set the following options:
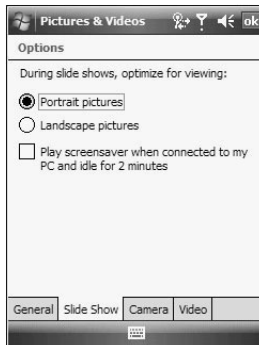
• Select the "Portrait pictures" or "Landscape pictures" radio button to set slide show orientation.
• Select the "Play a screensaver when connected to my PC and idle for 2 minutes" check box to set the image files in the My Pictures folder as a screensaver whenever your device is connected to the USB sync cable and is idle for 2 minutes.

4 On the Camera tab, set the following options:
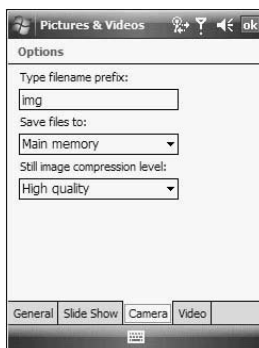
• In the Type filename prefix box, enter the prefix to be used as a default title for the image file.
• In the Save files to list, select to save image files to onboard memory or built-in storage.
• In the Still image compression level list, set a compression level when saving the image. The high quality setting provides the best image quality but more memory is required.

5 On the Video tab, set the following options:

• Select the "Include audio when recording video file" check box, to include audio when recording video files.
• In the Time limit for videos list, select the length for video clips recorded with the camera.

6 Tap **ok**.

You can take photos and videos and capture bar code data with the device's built-in camera. The camera lens is located on the rear of the device. Images can be stored on the device's onboard memory or a memory card. Once you take photos or video clips, you can associate the image with a name in the phone book, e-mail it to friends, or send it to other Pocket PCs or phones. You can also send images to your computer via Bluetooth or IR.

NOTE: The image capture application must be installed and enabled in order to operate the data capture. For more information on the type of image capture application compatible with your device, refer to the Wistron website.

Camera

With the Camera application you can take pictures and shoot videos, and modify settings with Camera while you are on mobile. The images and video clips are automatically saved in the Pictures & Videos application, where you can view and edit them. By default captured images or videos are saved as JPEG or WMV file.

To open Camera:

1   Perform one of the following:

   • Press the **Camera** button located on the lower-right side of the phone, to activate the camera.

   • Tap [icon] > **Programs** [icon] > **Pictures & Videos** [icon] > **Camera** [icon].

   • Open Pictures & Videos, then tap **Camera** on the command bar.
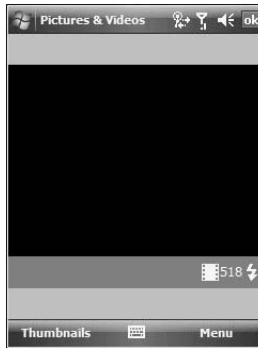
Camera screen

The Camera screen displays the view finder. Information about the current settings or the remaining number of images that can be saved to your device are displayed on the lower right corner of the screen. This screen also provides an option to toggle shooting mode between camera and video mode.

Normal *mode*

Flash

Normal mode
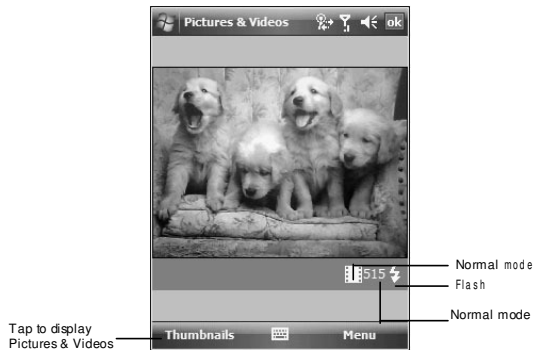
Tap to display
Pictures & Videos

<u>To switch shooting mode from camera mode to video mode</u>:
1   Launch Camera, by performing one of the following:

   •   Press the **Camera** button located on the lower-right side of the phone, to activate the camera.

   •   Tap ⚡ > **Programs** 📁 > **Pictures & Videos** 🖼 > **Camera** 📷.

   •   Open Pictures & Videos, then tap **Camera** on the command bar.
2   Tap **Menu > Video**.
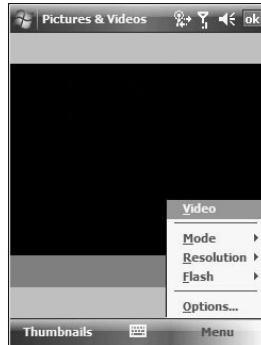
To switch back to camera mode, tap **Menu > Still**.

Camera capture mode

The SP510 offers two types of camera capture mode:
•   Camera - for taking pictures and recording videos
•   Bar code - for capturing a bar code data

<u>To select a camera capture mode</u>:

•   Slide the Camera/Bar Code switch to the **Camera** icon 📷 or the **Bar code** icon ||||||| to switch from one capture mode to another.

<u>To take a photo</u>:
1   Launch the Camera application by performing one of the following:

   •   Press the **Camera** button located on the lower-right side of the phone, to activate the camera.

   •   Tap ⚡ > **Programs** 📁 > **Pictures & Videos** 🖼 > **Camera** 📷.

   •   Open Pictures & Videos and tap **Camera** on the command bar.
2   Check the image on the view finder, adjust if necessary.

3   Press the **Camera** button to take the picture.

To take photos using burst mode:
Burst mode is a way to take a series of quick pictures.

1   Launch the Camera application.

2   Tap **Menu > Mode > Burst**.

3   Press the **Camera** button to take the picture.

     To stop a burst of pictures before all pictures have been taken, close Camera.

To take photos using timer:
Using the timer, you can take a self-portrait. Just place the device on a stable support and press the camera button, then get into position.

1   Launch the Camera application.

2   Tap **Menu > Mode > Timer**.

NOTE: By default, the self timer delay is set at five seconds.

To record a video clip:

1   Launch the Camera application.

2   Tap **Menu > Video** to set shooting mode to video.

     The available recording time displays on the *screen*.

NOTE: By default, the time limit for recording videos is set at 15 and 30 seconds.

3　Press the **Camera** button to begin recording.
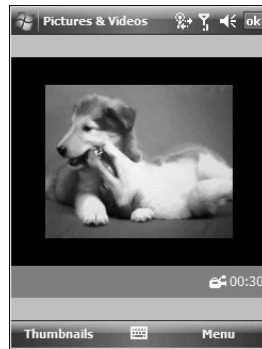
Recording stops when you press the **Camera** button again.

To select video quality:

You can specify the quality (video resolution and sound fidelity) and size of the video clips you record. Video clips of higher quality require more memory.

1　On the Camera screen, tap **Menu > Video**.

2　Tap **Menu > Quality**.

3　Select a video quality.

4　Tap **ok**.

To select picture compression:

You can set the compression level for the pictures you take. Note that selecting a high quality picture increases the size of the file significantly.

1　On the Camera screen, tap **Menu > Video**.

2　Tap **Menu > Options > Camera** tab.

3　In the Still Image compression level box, tap the desired compression level.

To set default location where photos are saved:

You can set the default location where pictures are saved. If you select main memory, pictures are saved to permanent storage on your device, which may require that you consider the storage needs of other programs.

1　On the Camera screen, tap **Menu > Video**.

2　Tap **Menu > Options > Camera** tab.

3　In the "Save files to" list, select main memory or storage card.

4   Tap **ok**.

To view photos and video clips:

1   Tap 🎯 > **Programs** 📁 > **Pictures & Videos** 🖼.

2   Tap the picture or video clip that you want to see.

To configure the camera settings of your device:

1   Launch the Camera application.

2   Tap **Menu**, then configure the device settings.
   - Video - Tap to switch to video or still (camera) mode.
   - Mode - Select from the following modes to take your picture:
      - Normal - Takes picture using the default settings.
      - Burst - Takes picture consecutively in continuous mode.
      - Timer - Takes picture five seconds after pressing the Camera button.
   - Resolution - The default resolution setting is 650 x 152 pixels.
   - Flash - Turns flash on and off.
   - Options - Displays the camera options screen.

3   Tap **ok** to exit.

10 Customizing your SP510

- Adjusting system preferences
- Program management

Adjusting system preferences

You can adjust the settings of your device to suit the way you work. Adjusting certain settings, such as backlight, auto power off timer, system volume, and processor speed, from the factory default settings may decrease your standby time.

To access Settings:

- Tap ![icon] > **Settings** ![icon].
  The Settings window has three tabs—Personal, System, and Connections, each of which has its own set of options.

  The following sections show the configuration page for each Settings option. For detailed instructions on these pages, access the page from your device, tap ![icon] > **Help** ![icon].

Personal tab
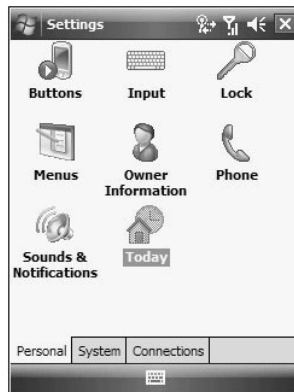
Buttons

Assign the Send/End button on the stereo headset/single earbud headset to commonly-used programs. You can also adjust the on-screen scrolling speed here.
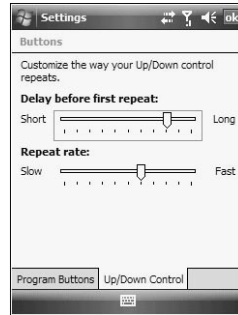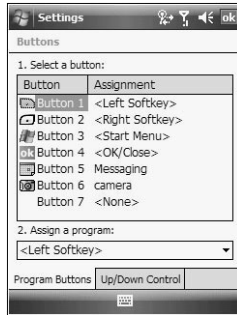
Input

Select an input method, options for word completion and other related settings.
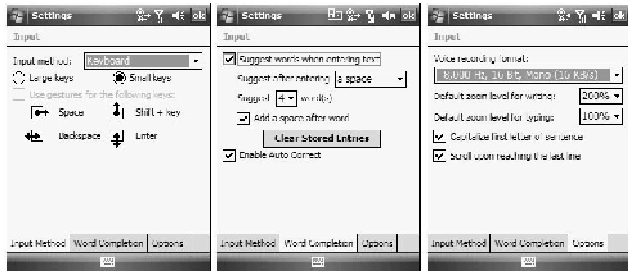
Lock

Set a password to prevent unauthorized access to your device. You also have the option to set a password hint to serve as a reminder in case you forget your password.

Menus

Customize what appears on the   menu.
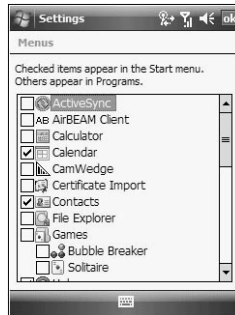
Owner Information

Enter personal information and customize text display when device is turned on.
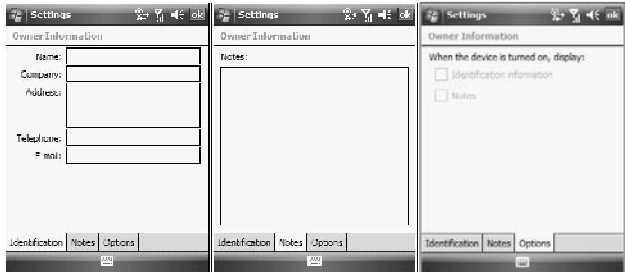
Phone

Set up the phone function of your device. See "Phone preferences" on page 135 for more information.
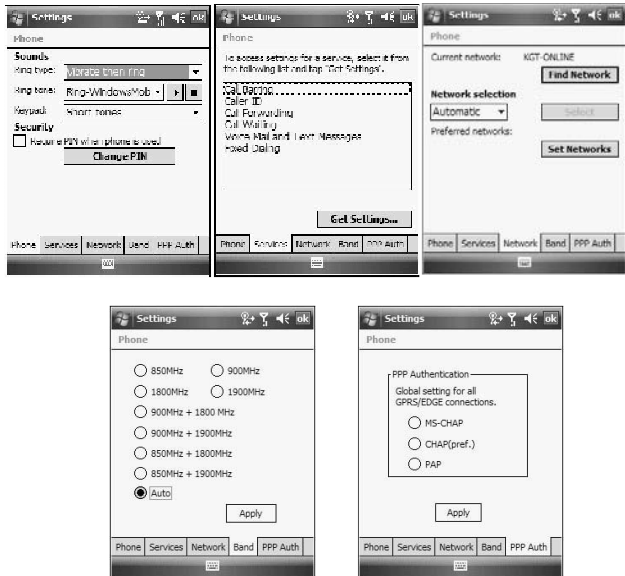
Sounds & Notifications

Set the volume level for system sounds and select the types of action you want to hear sounds for. You can also define how you want to be notified about different events. Options for personalizing sound notifications are also available.
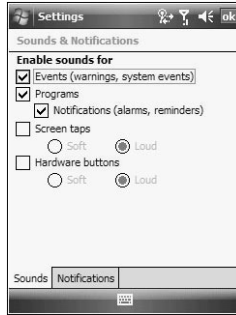
Today

Customize the look and the information that is displayed on the Today screen.
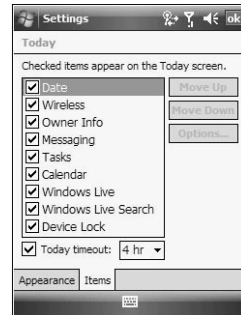
System tab
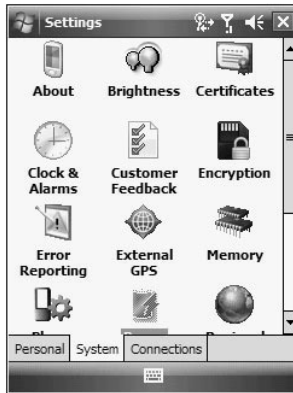
About

Displays your device's version and copyright information; includes an option to define a device ID.
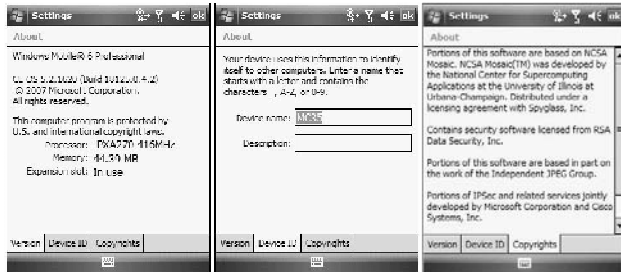
Brightness

Define settings for the display brightness and backlight control.
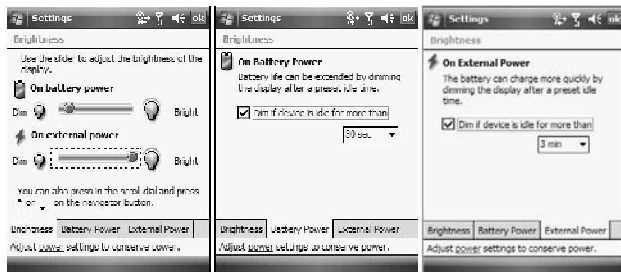
Certificates

View and manage the public key certificates available on your device.
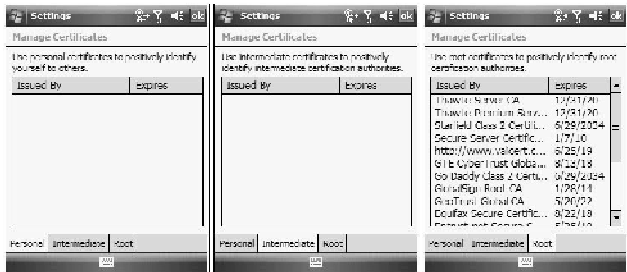
Clock & Alarms

Change the time or set alarms.
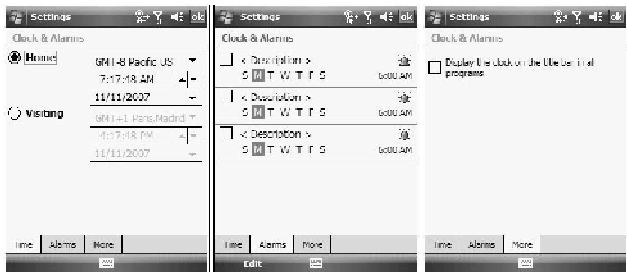
Customer Feedback

Submit your feedback on the Windows Mobile 6.0 software.
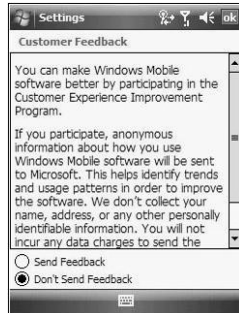
Encryption

Enables or disables encrypting files stored in your memory card.

Error reporting

Enable or disable error reporting.

External GPS

Adjust the GPS settings.
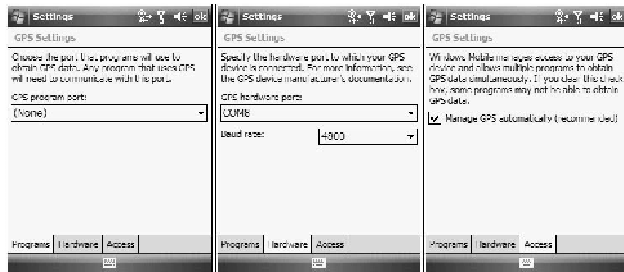
Memory

Adjust allocation of storage and main memory.
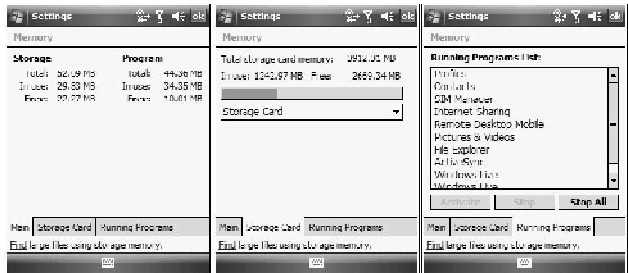
Phone Profiles

View and edit the Phone function's preset profiles for different operations mode.

Power

View power level for both the main and backup battery. To minimize power consumption, you can define settings for the auto-off function and the processor's operation speed.
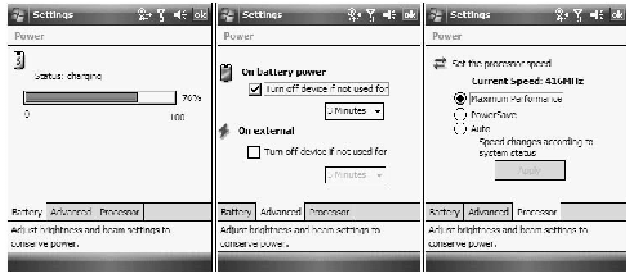
Regional Settings

Set default number and time display formats and other related options.
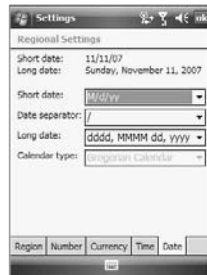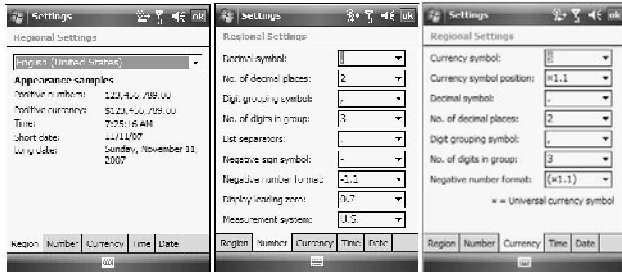
Remove Programs

Remove programs from storage memory.
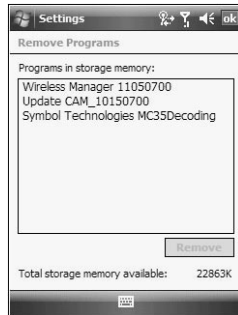
Screen

Set the viewing orientation and text size setting. You can also recalibrate screen and enable the ClearType feature.
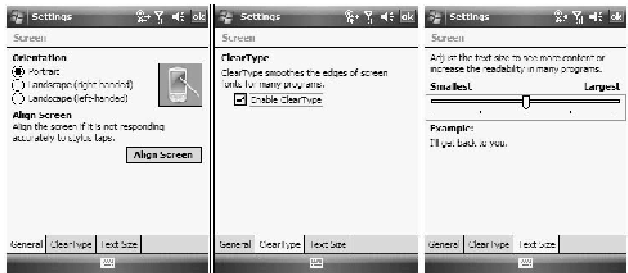
SDSwitch

Switch between SDIO and SDMMC driver mode. When you want to run applications from an Micro-SD card, it is recommended to switch the SD driver mode from the default SDIO mode to SDMMC mode to improve the performance of the Micro-SD cards. If you are not going to launch applications from an Micro-SD card, keep the default SD driver mode settings to SDIO mode.
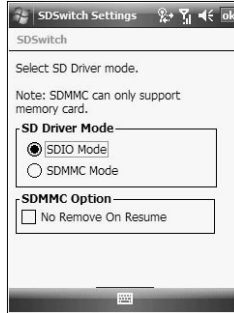
NOTE: The "No Remove On Resume" option in the SDSwitch Settings screen is primarily applicable when you select the SDMMC driver mode. It prevents the SDMMC driver to unload or reload when device resumes operation.

SIM Manager

Manage all contacts stored on your SIM card.
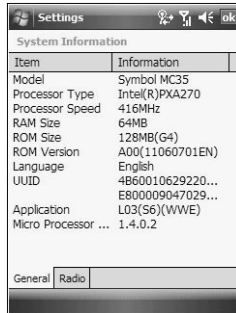
System Information

Displays your device's hardware and software information.

Item	Information
Model	Symbol MC35
Processor Type	Intel(R)PXA270
Processor Speed	416MHz
RAM Size	64MB
ROM Size	128MB(G4)
ROM Version	A00(11060701EN)
Language	English
UUID	4B60010629220... E800009047029...
Application	L03(S6)(WWE)
Micro Processor ...	1.4.0.2

General | Radio

Item	Information
Radio Stack Driv...	SIEMENS MC75 REVISION 03.010
IMEI	354438010237885
RIL Driver Version	10100700
WiFi Driver Version	27.p26
Wireless Attend...	Wireless and Blue...
MAC Address	00-16-d3-67-f8-a0

General | Radio

Windows Update

Keep your device up to date by downloading security fixes, critical updates, drivers, and latest Help files.

Update Setup

Windows Update

Welcome to Windows Update for Windows Mobile setup. To help keep your mobile device protected and up to date, click Next.

View privacy statement

Cancel   Next
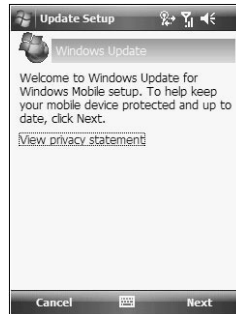
Connections tab

⊙ Beam

Define settings for the beam function.

Bluetooth

Use this option to configure the device's Bluetooth settings.
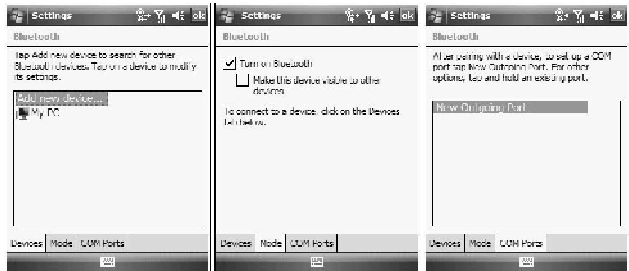
Connections

Adjust settings for connecting to your ISP or to a local network.
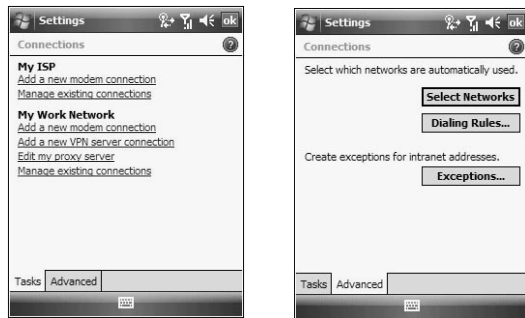
Express GPS Connect

Enable and customize settings for the GPS connection utility.
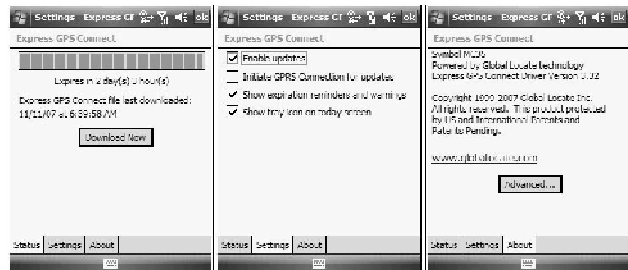
USB to PC

Enable or disable the enhanced network connectivity.
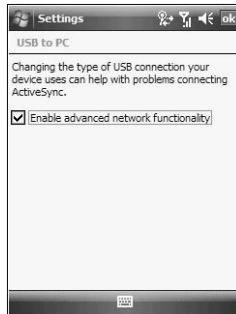
ⓦ Wireless Manager

Enable or disable the device's wireless radios and customize Bluetooth, and Phone settings.
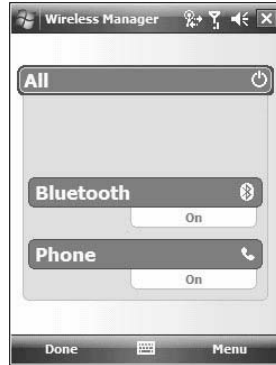
Program management

Adding programs to your device

Programs bundled with your device at the factory are stored in ROM (read-only memory). You cannot remove these programs, and you'll never accidentally lose ROM contents. ROM programs can be updated using special installation programs with a *.xip extension. All other programs and data files installed to your device after factory installation are stored in the Random Access Memory (RAM). You can install any program created for your device, as long as it has enough memory. The most popular place to find software for your device is on the Windows Mobile Web site http://www.microsoft.com/windowsmobile/default.mspx You can add programs to your device either by using ActiveSync or by downloading the program from the Internet.

To add programs using ActiveSync:

Before installing a program on your device, you must first install the appropriate software for your device on your computer.

1   Determine your device and processor type so that you know which version of the software to install.

   (a)   Tap 🎝 > **Settings** 🔘.

   (b)   On the System tab, tap **About** 🔘.

   (c)   On the Version tab, make a note of the processor information.

2   Download the program to your computer (or insert the CD or disk that contains the program into your computer).

You may see a single *.xip, *.exe, or *.zip file, a Setup.exe file, or several versions of files for different device types and processors. Be sure to select the program designed for a Pocket PC and your device's processor type.

NOTE: Read any installation instructions, Readme files, or documentation that come with the program. Many programs provide special installation instructions.

3   Connect your device to your computer.

4   Double-click the *.exe file.

  •   If the file is an installer, the installation wizard will begin. Follow the directions on the screen. Once the software has been installed on your computer, the installer will automatically transfer the software to your device.

  •   If the file is not an installer, you will see an error message stating that the program is valid but it is designed for a different type of computer. You will need to move this file to your device. If you cannot find any installation instructions for the program in the Readme file or documentation, use the ActiveSync Explore button to copy the program file to the Program Files folder on your device. For more information on copying files using ActiveSync, see page 37.

5   Once installation is complete, tap 🔲 > **Programs** 🔲, then the program icon to launch it.

To add a program directly from the Internet:

1   Determine your device and processor type so that you know which version of the software to install.

  (a)   Tap 🔲 > **Settings** ⚙.

  (b)   On the System tab, tap **About** 📱.

  (c)   On the Version tab, make a note of the processor information.

2   Download the program to your device straight from the Internet using Internet Explorer Mobile.

     You may see a single *.xip, *.exe or *.zip file, a Setup.exe file, or several versions of files for different device types and processors. Be sure to select the program designed for a Pocket PC and your device's processor type.

NOTE: Read any installation instructions, Readme files, or documentation that comes with the program. Many programs provide special installation instructions.

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3   Tap the file, such as a *.xip or *.exe file. The installation wizard will begin.

4   Follow the on-screen instructions.

Adding a program to the Start menu

You can choose what program icons should appear on the menu based on which ones you use most often.

To add a program to the Start menu program using Settings:

1   Tap 🔲 > **Settings** ⚙.

2   On the Personal tab, tap **Menus** 🔲.

3   Select the check box for the programs you wish to add.

     If you do not see the program you want, you can either use File Explorer on your device to move the program to the Start Menu folder, or use ActiveSync on your computer to create a shortcut to the program and place the shortcut in the Start Menu folder.

To add a program to the Start menu program using File Explorer on your device:

1   Tap 🔲 > **Programs** 🔲 > **File Explorer** 📁.

2   Tap the **My Device** icon (tap the folder list, labeled My Documents by default, and then My Device to see a list of all folders on your device).

3   Open the path: **Windows > Start Menu > Programs**.

4   Tap and hold the program you want to add to the menu, then tap **Cut** on the pop-up menu.

5   Open the path: **Windows > Start Menu**.

6   Tap and hold a blank area of the window, then tap **Paste** on the pop-up menu.

7   The program will now appear on the 🔲 menu.

To add a Start menu program using ActiveSync on your computer:

1   In the ActiveSync on your computer, click **Explore** to explore your device's files and locate the program.

2   Right-click the program, and then click **Create Shortcut**.

3   Move the shortcut to the Start Menu folder in the Windows folder.

The shortcut now appears on the 🔲 menu.

For more information on using ActiveSync, see **ActiveSync Help** on your computer.

Running programs from the micro-SD card

Store applications in the micro-SD card and launch directly from the card. To run programs from an Micro-SD card:

1   Launch the SDSwitch application.

(a)   Tap 🔲 > **Settings** 🔲.

(b)   On the System tab, tap **SDSwitch** 🔲.

2   Set the mico-SD driver mode to SDMMC mode. See "To set the SD driver mode to SDMMC mode" on page 232 for more information.

3   Insert the micro-SD card into your device.

4   Tap 🔲 > **Programs** 🔲 > **File Explorer** 🔲.

5   Run the application stored in the Micro-SD card.

Removing programs

You can only remove programs that you installed. Programs that come with your device cannot be removed.

To remove a program using Settings:

1   Tap 🔲 > **Settings** 🔲.

2   On the System tab, tap **Remove Programs** 🔲.

3   Tap the program you wish to remove.

4   Tap **Remove**.

5   Tap **Yes**. If another confirmation message appears, tap **Yes** again.

To remove a program using File Explorer on your device:
If the program does not appear in the list of installed programs in Remove Programs, use
File Explorer on your device to locate the program:

1   Tap > **Programs** > **File Explorer** .
2   Tap the **My Device** icon (tap the folder list, labeled My Documents by default, and
    then My Device to see a list of all folders on your device).
3   Open the path: **Windows > Start Menu > Programs**.
4   Tap and hold the program you want to remove, then tap **Delete** on the pop-up
    menu.

SD driver management

Setting the SD driver

The SDSwitch application supports two SD driver mode. The SDIO mode is enabled by
default. Keep this setting when backing up or transferring files to a storage card. When
you want to run applications from an Micro-SD card, you must set the SD driver mode to
SDMMC mode to improve the performance of the Micro-SD card.

To set the SD drive mode to SDMMC mode:

1   Tap > **Settings** .

2   On the System tab, tap **SDSwitch** .
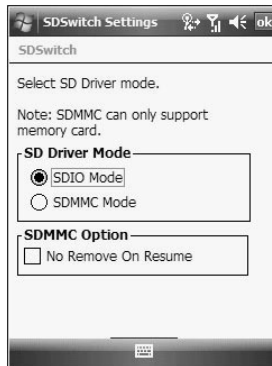
3   Select the **SDMMC Mode**.
4   Tap the "No Remove On Resume" check box.

5   Tap **ok**. A confirmation box is displayed.
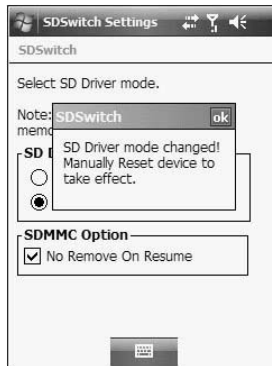
6   Tap **ok**, then perform a soft reset. See "To perform a soft reset" on page 244 for more information.

To set the SD drive mode to SDIO mode:

1   Tap ▓ > **Settings** ▓.

2   On the System tab, tap **SDSwitch** ▓.

3   Select the **SDIO Mode**.

4   Tap **ok**. A confirmation box is displayed.

5   Tap **ok**, then perform a soft reset. See "To perform a soft reset" on page 244 for more information.

11 User Support

- Customer support
- Protecting your SP510
- Troubleshooting

Customer support

Refer to following help resources on how to use your SP510.

For information on:	Refer to:
Operating instructions	This User Guide. It provides online reference for using your device. The guide is available for download. Visit http://support.wistron.com The SP510 Help. To view Help, tap 📄 > **Help** ❓ .
Programs on your device Additional programs that can be installed on your device	See "Program list" on page 40 for more information.
Up-to-date information regarding your device	For the latest information on the SP510 visit http://www.Wistron.com/SP510
Technical assistance	Go to http://www.Wistron.com/contactsupport to contact the Wistron Enterprise Mobility Support for your region. If you purchased your Wistron product from a Wistron Business Partner, contact that Business Partner for service. Before contacting, have the model number and serial number at hand. If your problem cannot be solved by the Wistron Enterprise Mobility Support, you may need to return your equipment for servicing and you will be given specific directions. Wistron is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

Protecting your SP510

Your device is not just a financial investment but a wealthy source of personal information. It is then imperative that you protect your device from unauthorized access, as well as data loss.

Using system locks

There several ways that you can secure your SP510, both from accidental key presses and from unauthorized access.

- Locking the keypad
- Locking the touch screen
- Setting an access password lock

Locking the keypad/touch screen

Tapping the **Device unlocked** icon on the Today screen prevents accidental data entry from both the keypad and the touch screen. When the device is locked, the command bar displays **Unlock**.
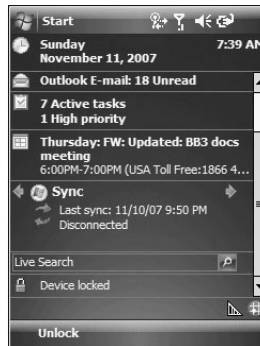
To unlock the keypad/touch screen:
1   On the command bar, tap **Unlock**.
2   On the Unlock screen, tap **Unlock** or press the **orange** and **Q** keys on the keypad.
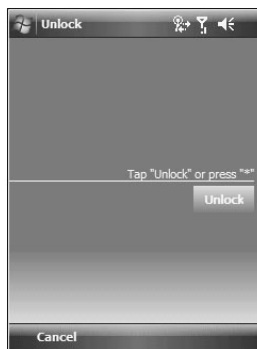
Locking the device

You have the option to create a lock password that will be required to access your device after a set period of inactivity.

To assign a lock password:

1   Tap 📱 **> Settings** 📷.

2   On the Personal tab, tap **Lock** 🔑.

3   On the Password tab, perform the following:

(a)   Select the "Prompt if device unused for" check box, then tap the pick list opposite it to set the period of inactivity before the lock password is required for access.

(b)   Select a password type pick list. You have two options.

   •   Simple PIN – This password mode requires a 4-digit password.

   •   Strong alphanumeric – This password mode requires an alphanumeric password (i.e., a combination of upper- and lower case letters, numbers, and symbols) consisting of at least seven characters.

4   Type then confirm your lock password.

5   If you want to set a keyword to serve as a password reminder in case you forget it, tap the **Hint** tab.

6   Tap **ok**.

Creating backup files

Any additional programs or new data in your device are stored in the Random Access Memory (RAM). These items are lost if you have to perform a hard reset or your device loses all power for any other reason. Because of this, it is important that you regularly back up files to your computer via ActiveSync or to a storage card using the device's built-in SD/MMC expansion slot.

If you have access to your computer, use ActiveSync to synchronize files between your device and your computer. See "Synchronizing information with your computer" on page 31 for more information.

In instances where you are unable to access your computer, you can back up files to a storage card.

To back up individual files in a storage card:

1   Insert a storage card into the SD/MMC expansion slot on the top of your device.
   See "Using the SD/MMC expansion slot" on page 12 for more information.

2   Tap 📱 **> Programs** 🗔 **> File Explorer** 🗔.

3   Select the file you want to back up.

4   Tap **Menu > Edit > Copy**.
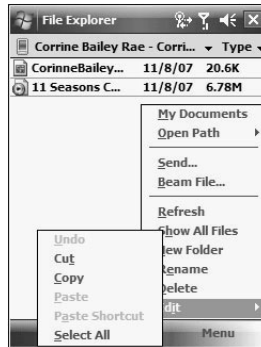
5   Tap the **My Device** icon (tap the folder list, labeled My Documents by default, and then My Device to see a list of all folders on your device), then select **Storage Card**.
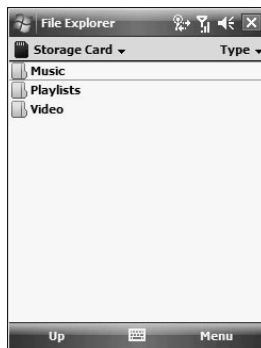
6   Tap **Menu > Edit > Paste.**
7   After the backup process, remove the storage card from the SD/MMC expansion slot.

To back up several files in a storage card:

1   Insert a storage card into the SD/MMC expansion slot on the top of your device.

     See "Using the SD/MMC expansion slot" on page 12 for more information.

2   Tap   > **Programs**   > **File Explorer**   .
3   Perform one of the following:
     •   Locate the file folder containing the files you want to back up.
     •   Create a new folder and move/copy the files you want to back up there.

4   Tap and hold the file folder you want to backup, then select **Copy** from the pop-up menu.

5   Tap the **My Device** icon (tap the folder list, labeled My Documents by default, and then My Device to see a list of all folders on your device), then select **Storage Card**.

6   Tap and hold a blank area, then select **Paste** from the pop-up menu.

7   After the backup process, remove the storage card from the SD/MMC expansion slot.

Troubleshooting

Troubleshooting reminders

When a troubleshooting procedure requires uninstalling the battery pack or resetting the device, note the following:

*   If the procedure requires uninstalling the battery pack, first turn the device off. Once it is off, wait for five seconds to allow the device to completely enter sleep mode before removing the battery pack.

Troubleshooting procedures

The following sections describe a list of possible situations that may arise during the use of your device. Easy answers and solutions are provided for each one.

Battery problem

Memory on your SP510 EDA is shared between storage memory and program memory. Storage memory is used to store the information you create and programs you install. Program memory is used to run programs on your device. Your device automatically manages the allocation between storage and program memory.

To view memory allocation and availability:

1   Tap 🔄 > **Settings** 🔵.

2   On the <u>System</u> tab, tap **Memory** 🔲.

Battery loses power

When the battery is low, you see a battery icon 🔋(See "Status icons" on page 18 for more information) in the navigation bar and a pop up screen that tells you to recharge the battery as soon as possible.

Your device uses both a detachable and rechargeable main battery pack and an embedded backup battery cell. When the main battery pack is removed or is completely drained out, your device shuts down. The backup battery cell retains data for 30 minutes after which you risk losing all data on the internal memory of your device.

Tips on how to make battery charge last longer

To make your battery charge to last as long as possible, observe the guidelines listed below:

*   Use external power whenever possible
    Use the AC adapter to plug your device into external power whenever possible, especially when:
    *   Establishing a remote connection
    *   Using the backlight
    *   Watching/listening to audio or video files
    *   Connecting to a computer and/or server
*   Shorten auto suspend time
    While on battery power, your device automatically suspends operation if you haven't touched the hardware buttons or used the stylus for a specified period of time. Maximize battery life by shortening this time.

    (a)   Tap 🔄 > **Settings** 🔵.

    (b)   On the <u>System</u> tab, tap **Power** 📗.

    (c)   On the <u>Advanced</u> tab, adjust the setting on the "On battery power" pick list.

          If the device lapses into sleep mode, allow ample time before turning it back on to allow for a smoother power mode transition. The device wakes up from sleep mode when any of the following events occur:

          *   The Power button ⏻.
          *   The device is connected to the USB sync cable.
          *   A storage card is inserted into the SD/MMC expansion slot.

- A call is received by your device.
- A preset alarm event is activated.
- Turns off sounds you don't need.

  Your device emits sounds in response to a number of events, such as warnings, reminders, and screen taps or hardware button actions. Optimize battery life, by turning off any sounds you don't need.

  (a)   Tap ⚡ > **Settings** 🔘.

  (b)   On the <u>Personal</u> tab, tap **Sounds & Notifications** 🔘.

  (c)   Clear the check boxes on both <u>Sound</u> and <u>Notifications</u> tabs.

- Disable the phone function when no SIM card is installed on your device.

Password problem

Forgotten password

If you forget your password, you'll need to clear your device's memory by hard resetting it. See "To perform a hard reset" on page 244 for more information.

Memory problem

Device memory run out

If you receive a message stating that storage or program memory is unavailable, try the following solutions.

Finding space in storage memory

- Move data to an SD/MMC/SIO storage card.
  (a)   Insert a storage card to your device's expansion slot.

  (b)   Tap ⚡ > **Programs** 📂 > **File Explorer** 📇.

  (c)   Tap and hold the file you want to move, then tap **Cut** from the pop-up menu.

  (d)   Open the My Documents folder; tap **Menu**, **Edit**, then **Paste**.

NOTE: Files stored in folders other than My Documents or stored in folders within subfolders in My Documents may not show up in the list view of some programs.

- Move e-mail attachments.
  (a)   Insert a storage card to your device's expansion slot.

  (b)   Tap ⚡ > **Messaging** ✉.

  (c)   On the <u>Messaging</u> tab, select the tap **Menu > Options**.

  (d)   On the <u>Storage</u> tab, select "When available, use this storage card to store attachments" check box.

  All attachments are moved to the storage card, and new attachments are automatically stored on the storage card.

  (e)   Tap **ok**.
- Set programs such as <u>Notes</u>, <u>Word Mobile</u>, and <u>Excel Mobile</u> to automatically save new items on the storage card. In the program, tap **Menu > Options**.
- Delete unnecessary files.

  (a)   Tap ⚡ > **Programs** 📂 > **File Explorer** 📇.

  (b)   Locate the file for deletion.

  (c)   Tap and hold the file, then tap **Delete** on the pop up menu.

Finding space in program memory

- Stop programs you are not currently using.

  In most cases, programs automatically stop to free needed memory. However, in some situations, such as when confirmation dialog boxes are waiting for a user response, the program may not be able to automatically stop. To check the state of your active programs:

  (a)   Tap 🗗 > **Settings** 🔟.

  (b)   On the <u>System</u> tab, tap **Memory**.

  (c)   On the <u>Running Programs</u> tab, tap the program you want to view, then tap **Activate**.

  (d)   Close any open windows or messages and return the program to list view.

  If this doesn't work, you can stop the program manually.

  (a)   Close all open confirmation dialog boxes and return the program to list view.

  (b)   Stop the program by tapping **Stop** or **Stop All** on the <u>Running Programs</u> tab.

- Clear storage memory as described in the preceding section.

  This frees some storage memory so that it can be allocated to program memory.

- Perform a soft reset on your device. See "To perform a soft reset" on page 244 for more information.

Screen problems

Screen freezes or responds slowly

Perform a soft reset on your device. See "To perform a soft reset" on page 244 for more information.

Screen is blank

Press and hold the Power button ⟳ for a full second. If that doesn't work:

- Remove the battery pack and check if the SIM card holder is closed properly.
- If you are using the device on battery power, shift the device to AC power.
- Perform a soft reset on your device. See "To perform a soft reset" on page 244 for more information.

Screen is dark

Prolonged exposure to direct sunlight may cause your device screen to temporarily darken. This is normal for LCD screens and is not permanent.

Screen is hard to read

If you're having a hard time viewing a document in:

- Notes - try changing the size of the view. To do this, tap a zoom percentage on the **Menu**.
- Word Mobile and Excel Mobile - try changing the size of the view. Tap **View > Zoom**, then select a zoom percentage.
- Internet Explorer - try changing the font size. Tap **Menu > View > Text Size**, then select a size.

Screen flashes on then off when power button is pressed

This occurs when the screen backlight has automatically turned off but the device is still powered on.

- Tap the screen or press a key to light the display.
- Set the backlight off time to greater than or equal to the power off time.

Tapping and writing problems

Inaccurate response to stylus taps

Recalibrate the screen. See "Recalibrating the screen" on page 243 for more information.

Slow or no response

Perform a soft reset on your device. See "To perform a soft reset" on page 244 for more information.

IR connection problem

Failure to beam information

If you're having difficulty transferring information via IR, try the following:

* Transfer only one file or no more than 25 contact cards at a time.
* Align your device's IR port ⎯◿ with that of the receiving device so that they are unobstructed and within a close range.
* Adjust the room lighting. Some types of light interfere with IR connections. Try moving to a different location or turning off some lights.

Bluetooth connection problem

Failure to beam information

If you're having difficulty transferring information via Bluetooth, try the following:

* Transfer only one file or no more than 25 contact cards at a time.
* Turn on Bluetooth for SP510 and the receiving device.
* Make sure the devices are within close range.

Phone connection problem

If you have a problem using the phone function, try the following:

* Check if your device's wireless connection to your mobile service provider is switched on and the signal unobstructed.
* Contact your mobile phone service provider for assistance.

Internet connection problem

If you're having difficulty establishing Internet connection, try the following:

* Make sure you have properly set up a connection to your device ISP (Internet Service Provider).
* Check if your device's wireless connection to your mobile service provider is switched on and the signal unobstructed.

NOTE: When your device is connected to the USB sync cable while the GPRS function is on, you will not be able to browse web pages.

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* Verify your user name and password with your device ISP.
* Verify with your device's ISP that the network you are trying to connect is available, or try to connect to it using another device or from a computer.

Network connection problem

If you're having network connection problems, try the following:

* Check if your device's wireless connection to your mobile service provider is switched on and the signal unobstructed.
* Verify that you have added necessary server information.

  (a) Tap � > **Settings** 🔘.

  (b) On the Connections tab, tap **Connections** 🖥️.

  Most networks use DHCP, so you need not change these settings unless your network administrator instructs you to do so.

  * If the option Network Connection is not listed as a connection method in the ActiveSync dialog box when starting synchronization, wait for a few minutes and try again. Also, if synchronization does not start right away, the network is probably busy, and it may take a minute for your device to connect to the network.
  * Verify your user name and password with your network administrator.
  * Verify with your network administrator that the network you are trying to connect is available, or try to connect to it using another device or from a computer.

- You may need to change your device name if you are trying to connect to a network and cannot because another Pocket PC Phone with the same name is already connected. To change your device's name:

    (a) Tap 🔠 > **Settings** 🔘.

    (b) On the <u>System</u> tab, tap **About** 📳.

    (c) On the <u>Device ID</u> tab, enter a new name on the Device name field.

    (d) Tap **ok**.

    Additional troubleshooting information is available in **Connections Help** of your device and on the **ActiveSync Help** on your computer.

USB cable problem

The following solutions may help if you encounter problems when connecting to your computer.

- Make sure that your device is turned on.
- Plug the other end of the cable securely into the universal connector on the base of your device.

Additional troubleshooting information is available in **Connections Help** of your device and on the **ActiveSync Help** on your computer.

Recalibrating the screen

When you first startup your SP510, you are asked to calibrate the screen by tapping the center of a cross with your stylus as it moves around the screen. This process ensures that when you tap the screen with your stylus the item tapped is activated.

If, however, while using your device, you discover tapping an item does not bring up the appropriate response, it means the touch screen has lost its calibration.

<u>To recalibrate the screen</u>:

1 Open the <u>Align Screen</u> via software or hardware function.

- Software launching

    (a) Tap 🔠 > **Settings** 🔘.

    (b) On the <u>System</u> tab, tap **Screen** 📳.
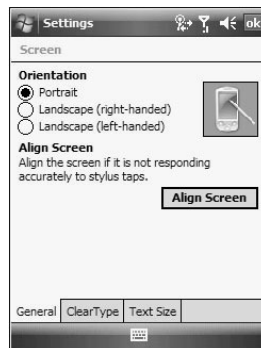
    (c) On the <u>General</u> tab, tap **Align Screen**.

- Hardware launching

    Simultaneously press the **Power** button 🔘 and the joystick.

2 Tap the center of the cross with your stylus as it moves around the screen.

Resetting your SP510

You may have to perform a reset if the device freezes (i.e., device no longer responds to the buttons on the screen).

To perform a soft reset:

A soft reset allows your device to get a fresh start, similar to rebooting a computer. This restarts your device and adjusts memory allocation. All records and entries are retained after a soft reset. Unsaved data in open programs may in some cases be lost.

1   Remove the stylus from its holder.

2   Lightly press the tip of the stylus to the reset button located on the lower-left side of the device.

To perform a hard reset:

A hard reset removes power to your device. This erases all records and entries, deletes all additional programs you have installed, and restores the device's default factory settings. Never perform a hard reset unless a soft reset does not correct your problem. When you perform your next ActiveSync operation, you can restore any data that you previously synchronized to your computer or you can restore data that you backed up to a storage card.

NOTE: When you perform a hard reset, the date and time settings are not retained. Formats, preferences, and other settings are restored to their default factory settings.

1   Hold down the **Power** ⏻ and **Push to Talk** buttons.
2   While holding down the Power and Push to Talk buttons, gently press the tip of the stylus to the **Reset** button.
3   Release the **Reset** button.
     The message "To clear all data in the memory, press Volume Up Button. To cancel the operation, press Volume Down Button." appears.
4   Release the **Power** ⏻ and **Push to Talk** buttons.
5   Press the top key of the **Volume** button.
     You will be prompted to confirm the hard reset.

Checking the OS version of your device

The SP510 operating system and software programs are stored in built-in Read Only Memory (ROM) chips. Data stored in the ROM are semi-permanent, it remains the same unless updated by a firmware updater. You may need to update the firmware of your device if new firmware patches are available. Visit the http://www.Wistron.com/SP510 for the latest firmware version available for SP510.

To check the OS version of your device:

1   Tap 🔊 > **Settings** 🔘.

2   On the System tab, tap **System Information** 🖥.

The device ROM version and application number is highlighted on the screen below.

Item	Information
Model	Symbol MC35
Processor Type	Intel(R)PXA270
Processor Speed	416MHz
RAM Size	64MB
ROM Size	128MB(G4)
ROM Version	A00(11060701EN)
Language	English
UUID	4B60010629220... E800009047029...
Application	L03(S6)(WWE)
Micro Processor ...	1.4.0.2

General | Radio
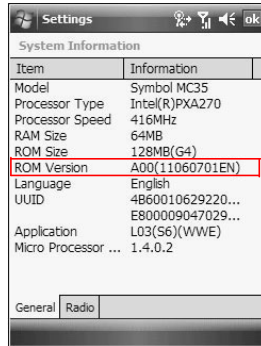
Battery pack information

CAUTION!   DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

This device is equipped with a removable and rechargeable Lithium polymer battery. When a replacement is needed, please request the dealer from whom your device was purchased to assist you. Use only manufacturer approved batteries.

Battery pack reminders

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Only use the battery for the system for which it is specified.
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-200x. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.

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