H-19 User Manual

ROM Version

20070601

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Warranty

Unless otherwise agreed in a written contract, all Opticon products are warranted against defects in materials and workmanship for two years after purchase. Opticon will repair or, at its option, replace products that are defective in materials or workmanship with proper use during the warranty period. Opticon is not liable for damages caused by modifications made by a customer. In such cases, standard repair charges will apply. If a product is returned under warranty and no defect is found, standard repair charges will apply. Opticon assumes no liability for any direct, indirect, consequential or incidental damages arising out of use or inability to use both the hardware and software, even if Opticon has been informed about the possibility of such damages.

Packaging

The packing materials are recyclable. We recommend that you save all packing material to use if you need to transport your scanner or send it for service. Damage caused by improper packaging during shipment is not covered by the warranty.

IMPORTANT SAFETY INFORMATION

Please read the following information carefully before you start using this Opticon device to avoid any damages caused by improper usage:

- The device is not charged when you take it out of the box. The battery should be charged for at least 8 hours before first use. Do not remove the battery while charging.
- Do not use batteries, which have not been specified by the manufacturer, as this may cause leakage or rupture.
- Do not charge the battery with an unspecified AC Adapter, as this may cause damage to both the device and the battery.
- When discarding the batteries, dispose of them in a proper manner, according to the battery manufacturer's instructions and your local laws.
- Power off the device and remove the battery before inserting SIM card. Make sure the SIM card snaps correctly into the SIM socket.
- Do not open the device housing or tamper with the device, as it will void your warranty.
- Do not apply excessive force on this product, as it may cause damage to the screen or the

internal component.

- Do not use the device at gas or refueling stations, chemical plants, and places containing explosives or flammable materials. Observe local guidelines.
- Use only manufacturer specified stylus. Do not scratch the screen with sharp objects.
- Do not clean the screen with chemical detergents. Only use cloths, specifically designed for cleaning liquid displays, or a soft cloth moisturized with water drops, to wipe the device screen.
- Do not expose the device to direct sunlight, or leave the device in a humid environment, for extended periods of time, as this may cause damage to the device and battery.
- Do not immerse the device in water.
- The device may interfere with the navigation and/or communication systems on aircraft. The use of the device on aircraft is prohibited by laws in most countries. Observe local guidelines.
- This product may cause medical equipment to malfunction. The use of this device is forbidden in most hospitals and medical clinics. Observe local guidelines.
- Use hands-free devices, if you need to use the telephony services, while driving a vehicle. Observe local guidelines.

Safety of Laser Products

International Standards (Japan/EU/USA) Laser Class 1

Precautions about the Laser Device

This product using laser complies with JIS C6802: 2005 Class 1, IEC60825-1+A2: 2001 Class 1 and 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated July 26, 2001.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. Use of controls, adjustment of procedures other than those specified herein may result in hazardous laser light exposure.

The user should not view directly into the light beam with optical instruments, it may pose an eye hazard.

Trademarks

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Chapter 1. Knowing Your Device

1.1 Introduction

Views of the Device

1	Stylus	Write, draw, or make selection on the touch screen
2	Scan key (left)	Press the key to scan and decode bar code/2D code
3	Record key	Press and hold this key to record a voice note
4	Volume up	Press the Volume up button to turn up the PDA receiver volume
5	Volume down	Press the Volume up button to turn up the PDA receiver volume
6	RESET button	Press the RESET button with stylus to soft-reset your device
7	Scanner	Point the reading window of the scanner in the direction of bar code/ 2D code
8	Wi-Fi/Bluetooth LED	Indicates Wi-Fi/Bluetooth Status
9	GSM/Battery LED	Indicates GSM/Battery LED
10	Power button	Power on or off the device

11	Display	2.8-inch TFT LCD with touch screen
12	Soft key (left)	Performs the command shown in the label above the button
13	Soft key (right)	Performs the command shown in the label above the button
14	Navigation pad	Press the multi directional control up, down, left, or right to move through menus; carry out the selection by pressing the center button.
15	Talk key	Press this key to dial or answer a call
16	End key	End a call or close Phone application
17	Scan key (right)	Press the key to scan and decode bar code/ 2D code
18	Eyelet for wrist strap (1)	Fix a wrist strap here
19	Mini-SD card slot	Insert a mini-SD card to expand device memory
20	Mini USB connector	Mini USB connector for PC sync and battery charging
21	Earphone Jack	Connect a 2.5 mm Earphone
22	Speaker	Listen to audio media or listen to a phone call hands-free
23	Cover latch	Slide both of the cover latches to remove the battery cover
24	Battery cover	Remove to place battery and SIM card
15	Eyelet for wrist strap (2)	Fix a wrist strap here

Be sure to save all data in your device and then press the POWER button to switch your device off before resetting the device or replacing the battery.

Cold Booting Your Device

You can execute a system cold boot to format both user store and DiskOnChip on your device. To prompt the instruction for cold boot, press and hold the POWER button longer than 10 seconds immediately after pressing the RESET button. You can then choose one of the following steps:

- Pressing the left key of the 5-way navigation key to format user store.
- Pressing the right key of the 5-way navigation key to format DiskOnChip.
- Press the up key of the 5-way navigation key to format both user store and DiskOnChip.

- Press any other key to exit.

The Stylus

- Use the stylus to tap a selection, to drag-and-drop an item, to write, or to draw on the touch screen.
- Tap and hold the stylus on the screen, icon is displayed and then a pop-up submenu is displayed.

Notification LEDs

The device has 2 notification LEDs: the left is Wi-Fi/Bluetooth LED and the right is GSM/Battery LED.

Bluetooth/Wi-Fi LED tells you about the device's Bluetooth/Wi-Fi status:

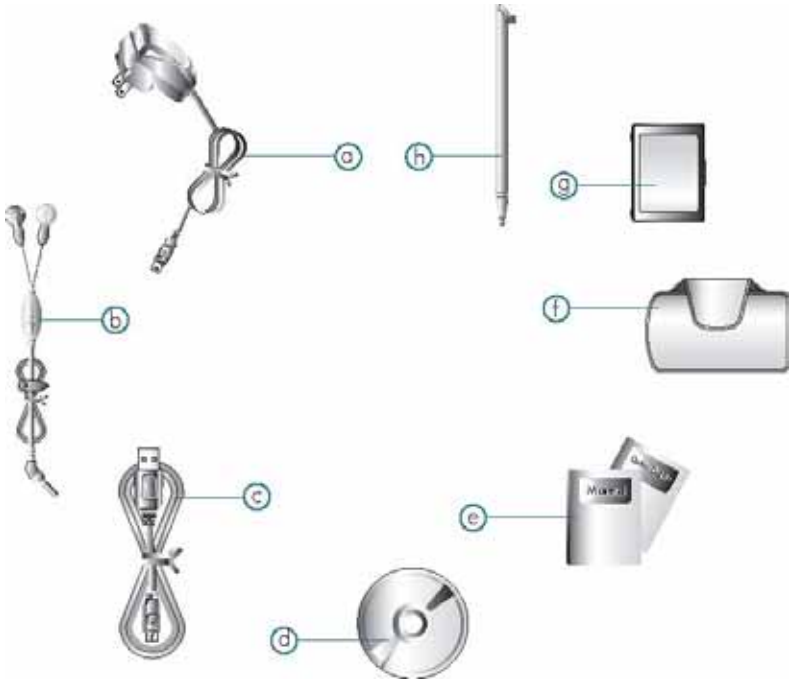
Color	Bluetooth on	Wi-Fi on
Green	Off	Blink
Blue	Blink	Off

Green and blue blink alternately while both Bluetooth and Wi-Fi are on.

GSM/Battery LED lets you know that you have unanswered calls or tells you about the device's GSM/battery status:

Color	Missed Call / Low Power	GSM on (battery full)	GSM on (battery low)	Charging
Red	Blink	Off	Blink	Off
Orange	Off	Off	Off	Constantly on
Green	Off	Blink	Off	Off

1.2 Accessories



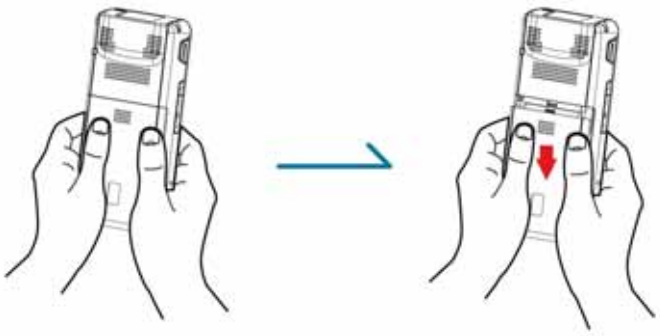
a	AC Adapter	Recharge the device battery
b	Stereo headset	Listen to a phone conversation hands-free
c	USB Cable	Connect the device to a PC
d	Getting Started CD	Windows Mobile™ Getting Started Disc
e	User Manual/Quick Guide	Provide instructions of device functions
f	Pouch	Protect the device
g	Battery	Rechargeable Li-ion polymer battery
h	Stylus	Write, draw, or make selection on the touch screen
i	Cradle	Recharge the device battery

1.3 Install SIM Card and Battery

Installing the SIM Card

If you want to use phone features, you must install a GSM SIM card.

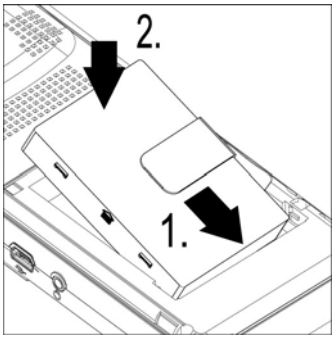
- Slide both of the cover latches down to remove the battery cover.
- Pull the plastic ribbon to remove the battery.



- Place the SIM card in the SIM card slot with the gold contacts facing down. The SIM card's cut-off corner should match the cut-off corner in the SIM card slot.

Installing the Battery

- Press the battery down forcefully into the battery slot and close the back cover.



The device contains a rechargeable Li-ion polymer battery completely discharged and should be charged for at least 8 hours before first use. Use only manufacturer-specified original batteries. Damages caused by using batteries not specified by manufacturer are not covered under warranty.

Please follow normal power off procedure to remove the battery or reboot the device, otherwise unsaved data may be lost. For information of power off procedures, see "Chapter 2.1 Powering On/Off the Device".

1.4 Battery Information

Battery performance depends on many factors, including your wireless service provider's network configuration, signal strength, the temperature of the environment in which you operate your phone, the features and/or settings you select and use, items attached to your phone's connecting ports, and your voice, data, and other program usage patterns.

Battery life estimates (approximations):

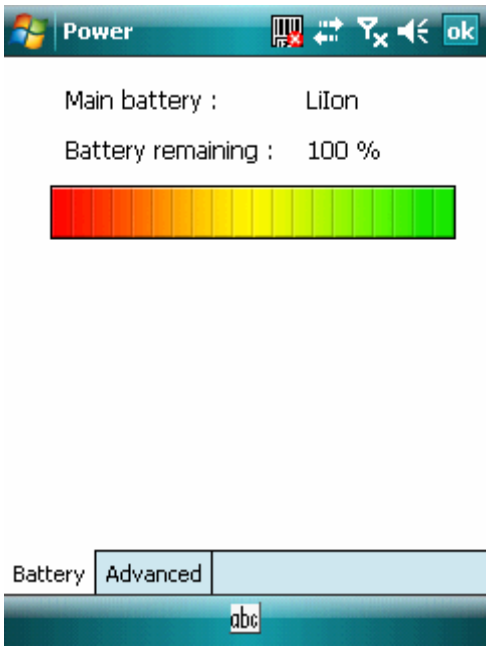
- Talk time: 4 hours
- Standby time: 150 – 200 hours

Reducing Risk of Fire or Burns

- Do not attempt to open, disassemble, or service the battery pack.
- Do not crush, puncture, short external contacts, or dispose of in fire or water.
- Do not expose to temperatures above 60˚C (140˚F).
- Replace only with the battery pack designated for this product.
- Recycle or dispose of used battery as stipulated by local regulation.

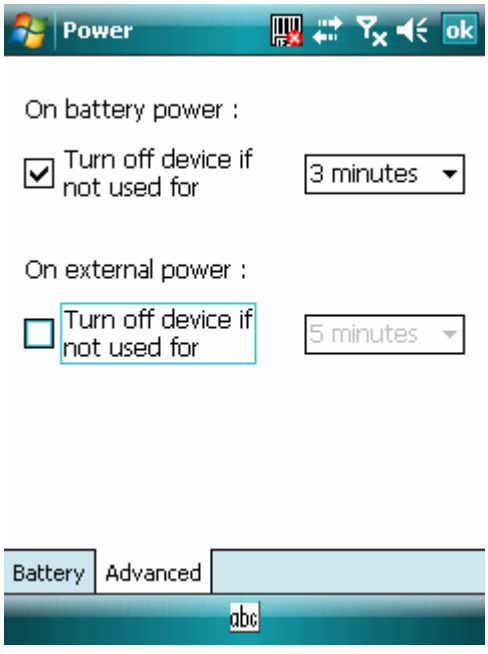
Checking the Battery Power

- Tap > **Settings** > **System** tab > **Power**.



Optimizing the Power Performance

- Tap > **Settings** > **System** tab > **Power** > **Advanced**, and adjust the time for turning off the device if it is not in use.



Managing a Low Battery

When the low-battery warning appears, do the following:

1. Immediately save your current data.
2. Start charging the battery or turn off your phone.

Charging the Battery

1. To charge the battery, place the battery into the battery slot correctly. See previous section for how to install the battery.
2. Do one of the following:
   - Connect the device with the AC adapter and plug the AC adapter into a power outlet.
   - Connect the device to a PC with the USB cable.

To charge the device with the USB cable, you must connect the device to a functioning USB port on a PC that is powered on.

Do not operate your device to temperatures above 40˚C (72˚F) while charging the battery.

Do not leave the battery in a place above 60˚C (140˚F).

1.5 Mini-SD Cards

Mini-SD is one of the most popular formats for mobile devices. Your device contains a mini-SD card slot in which you can expand the device's memory up to 2GB. Mini-SD provides functions such as built-in security for copyrighted content along with great performance for storing music, video, and photographs. Please note that mini HCSD (High Capacity SD) is not supported by this device.

Inserting a Mini-SD Card into the Device

Lift the mini SD card slot cover and insert the mini SD card with the logo side down and push into place until it clicks down and is held in place.

Mini-SD cards can only be inserted in one direction. Inserting the card in the wrong direction by force can cause damage to the card and the card slot.

Removing a Mini-SD Card from the Device

1. Gently press the mini-SD card inward (you may feel some resistance) and the card will eject itself.
2. Take out the mini-SD card from the card slot by hand.

Chapter 2. Basic Operations

2.1 Getting Started

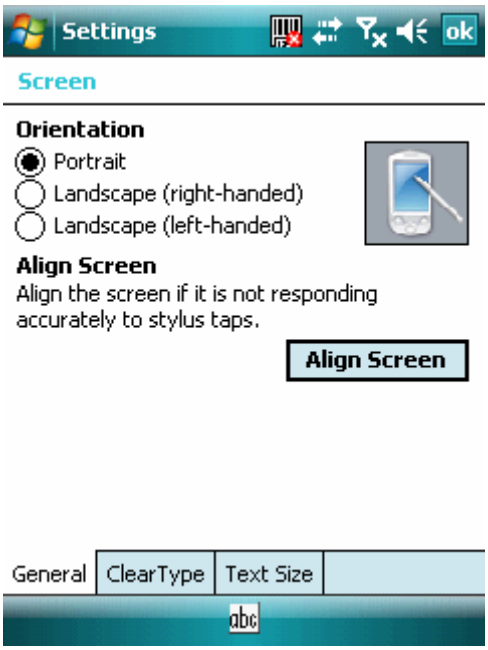
Powering On/Off the Device

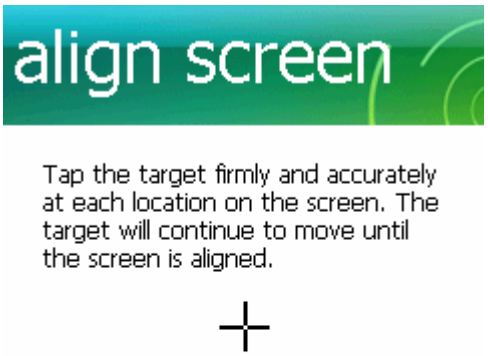
Press the POWER button to turn on the device. The POWER button is located on the top side of the device. When you power on the device for the first time, you are asked to calibrate the device. Please refer to the “Calibrating your device” section in this chapter for calibration steps. Press the POWER button again to switch the device to sleep mode. You can still receive phone calls and messages when the device is operating on sleep mode. To power off the device completely, press and hold the POWER button for 3 seconds and the system will prompt you to power off the device.

Calibrating Your Device

Calibrating the device ensures the tapped item is activated. To calibrate your device, tap the center of the cross with the stylus as the cross moves around the screen. If you would like to re-calibrate the device, follow the steps below:

1. Tap > **Settings** > **System** tab > **Screen**.
2. Tap the **Align Screen** button and follow the on-screen instructions.





Locking/Unlocking the Device

Locking the device turns off keyboard and touch screen functionality. This is a helpful feature if, for example, the device is turned on and in your pocket, and you want to prevent accidental key presses.

- To lock the device, tap on the icon on the Today Screen. Once the device is locked, the left soft key label changes to **Unlock**.

You can still receive calls and make emergency calls when the keypad is locked.

To unlock the device, tap the **Unlock** button on the Today screen first, a screen as below will show. Press the “Fn” key and * to unlock the device, or just tap the **Unlock** button on the screen.

Setting Buttons

To change functions for specific buttons in your device, do either of the following:

- Tap > **Settings** > **Buttons** > **Program Buttons** tab. Select a button (Record, Start or OK key) and assign a new program to replace the default one.
- Tap > **Settings** > **Buttons** > **Up/Down Control** tab. Drag the slider on the screen to customize the way your Up/Down control repeats.
- Tap > **Settings** > **Buttons** > **Buttons Lock** tab. Choose to lock all buttons or not when your device is in sleep mode.

Changing the Backlight Settings

1. Tap > **Settings** > **System** tab > **Backlight**.
2. You can customize the following settings:
   - Backlight settings while your device is using battery power.
   - Backlight settings while your device is using external power.
   - Brightness of backlight.

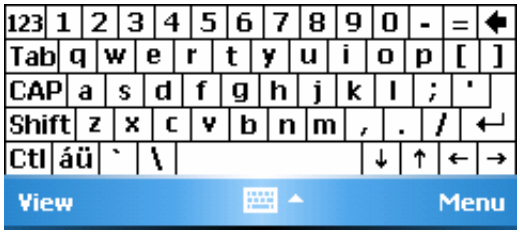
2.2 Input Methods

The device contains 8 different input methods: Keyboard, Letter Recognizer, Block Recognizer, Transcriber, Initial capital, Lowercase, Numeric, Transcriber and Uppercase. You can enter texts and numbers by using the keypad or the touch screen. When you enter texts by using the keypad, press a number key repeatedly until desired character appears. If the next letter you want is located on the same key, wait until the cursor appears, then enter the letter.

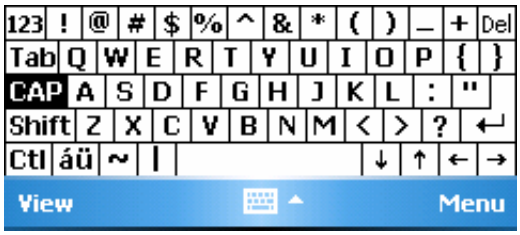
Icon	Input Method
	Keyboard
	Letter/Block Recognizer
	Transcriber
Abc	Initial capital
abc	Lowercase
123	Numeric
ABC	Uppercase

Keyboard

- Tap to launch the on-screen keyboard. If on-screen Keyboard is not the selected input method, tap the input method selector arrow (the upward arrow next to the input method icon) and select **Keyboard**.
- To enter text, tap the keys on the on-screen keyboard.



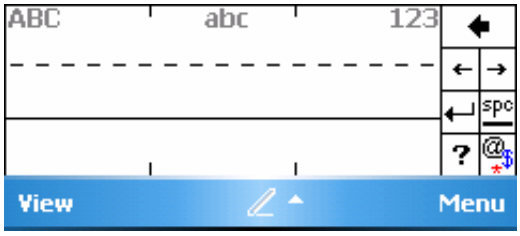
- Tap the CAP key on the on-screen keyboard to enter capital letters and/or symbols.



Letter Recognizer

Letter Recognizer recognizes one letter, number, or symbol at a time.

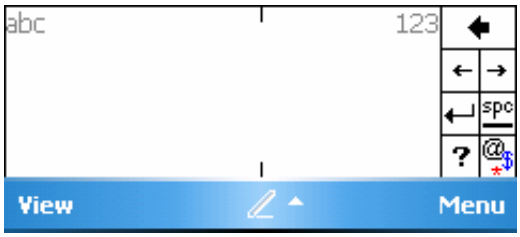
- To launch Letter Recognizer, tap the input method selector arrow (the upward arrow next to the input method icon) and select **Letter Recognizer**.
- Write uppercase letters in the left recognition area (the ABC box).
- Write lowercase letters in the middle recognition area (the abc box).
- Write numbers and symbols in the right recognition area (the 123 box).



Block Recognizer

Block Recognizer recognizes letters written in one stroke.

- To launch Block Recognizer, tap the input method selector arrow (the upward arrow next to the input method icon) and select **Block Recognizer**.
- Write lowercase letters in the text recognition area (the abc box).
- Write numbers in the numeric recognition area (the 123 box).
- To input symbols, tap any recognition area, text or numeric, once and write symbols.



Tap **?** in Letter or Block Recognizer to see a demo on how to write recognizable characters.

Transcriber

Transcriber recognizes handwritings in cursive and/or print. It uses the full screen as its recognition area. It interprets the movement of the stylus on the screen as you write.

- To launch Transcriber, tap the input method selector arrow (the upward arrow next to the input method icon) and select **Transcriber.**
- Write anywhere on the screen.

The Transcriber comes with a detailed help. Tap if you need further assistance.

Initial capital

To capitalize the first letter of every sentence you enter by the keypad, tap the input method selector arrow and select **Initial capital**.

Lowercase

To enter lowercase letters constantly by the keypad, tap the input method selector arrow and select **Lowercase**.

Numeric

To enter numbers constantly by the keypad, tap the input method selector arrow and select **Numeric**.

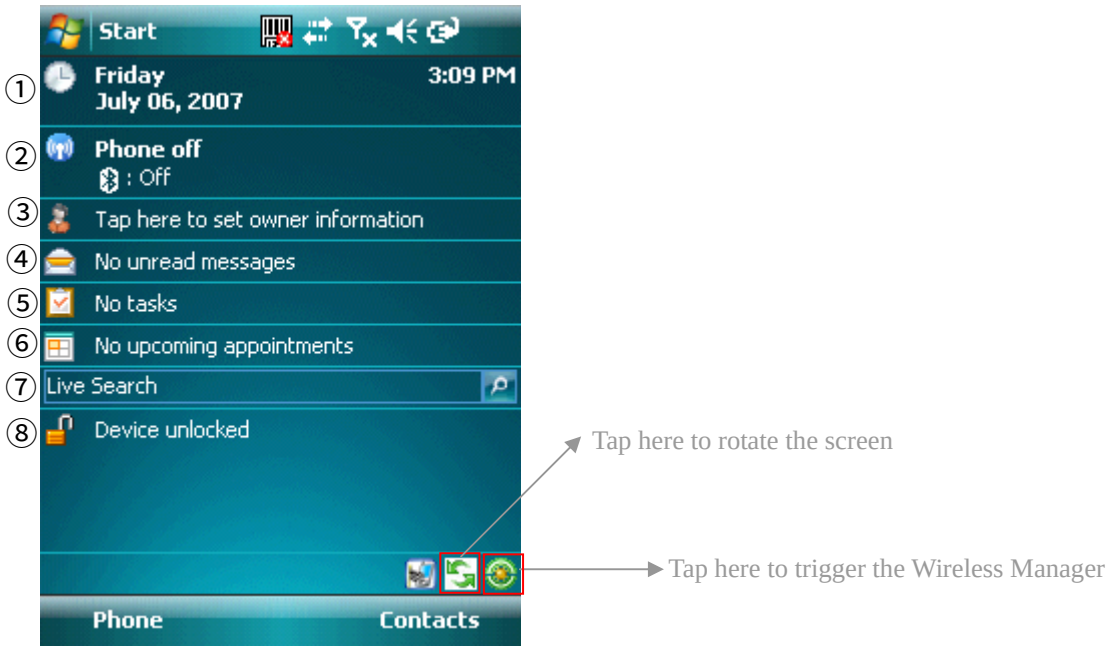
Uppercase

To enter uppercase letters by the keypad, tap the input method selector arrow and select **Uppercase**.

2.3 Today Screen Components

Today Screen

The Today Screen is usually the first screen that appears when you turn on the device for the first time each day. It displays a summary of information for the day, shows you the system status and contains a list of shortcuts to programs. The Today screen looks like this:



1	Date and time
2	Wireless status (GSM, Wi-Fi, and Bluetooth)
3	Owner information
4	Unread messages including text messages, MMS messages, and e-mails
5	Active tasks
6	Upcoming appointments
7	MSN Live Search
8	Device lock status

You can also access the Today screen by selecting **Today** from the Start menu.

To change the items showed in the Today screen, tap > **Settings** > **Today** > **Items** tab.

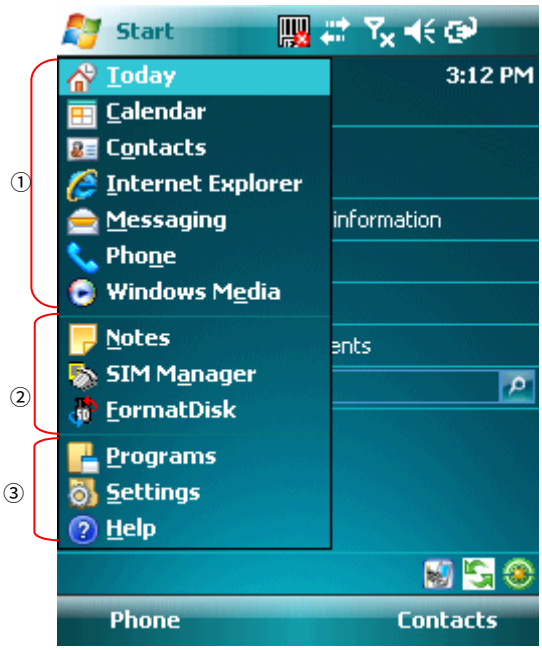
Icon Indicators

Status indicators appear at the top of the screen and on the Today screen. The following table lists common status indicators and their meanings.

	New e-mail or text message (SMS)		Connection is not active
	New voice mail		Synchronization in progress
	New instant message		Ringer on
	Voice call		Ringer off
	Voice call in progress		Roaming
	Data call in progress		No Voice mail
	Calls are forwarded		Voice mail Lines 1
	Call on hold		Call Forwarding Lines 1
	Missed call		Alarm
	Battery level 1		GPRS available
	Battery level 2		GRPS in use
	Low battery		EDGE available
	Extremely low battery		EDGE in use
	Battery charging		No SIM card installed
	Signal strength		Wi-Fi connection in progress
	Bluetooth bonding in progress		Ringer in vibration mode
	No signal		Function key on
	Flight mode		Synchronization error
	No service		Barcode reader off
	PC Connection is active		Barcode reader on

2.4 The Start Menu

The Start menu is divided into 3 groups as described in the following:



1	Commonly used items
2	Recently accessed applications
3	List of all programs, device settings, and system help

List of All Programs

The following table lists icons of the programs that are already installed on your device.

	Games	Windows Mobile comes with 2 games: Bubble Breaker and Solitaire.
	ActiveSync	Synchronizes information between your device and a PC. See “Chapter 4. Synchronizing Information” for details.
	Backup Manager	Lets you backup and recover your date. See “10.5 Backup/Recover” for details.
	Calculator	Performs basic arithmetic and calculations such as addition, subtraction, multiplication, and division.
	File Explorer	Lets you organize and manage the files on your device.
	FormatDisk	Lets you format the inserted mini-SD card and DiscOnChip in your device.
	Internet Sharing	Lets you use your device as an external modem for a PC, connecting through an USB port and Bluetooth.
	Notes	See “2.7 Notes” for details

	Pictures & Video	Collects, organizes, and sorts picture and video files in the My Pictures folder on your device or on a storage card.
	Search	Searches the data stored in your device.
	SIM Manager	Lets you manager your SIM card. See “3.4 SIM Manager” for details.
	Tasks	Keeps track of your tasks. See “2.8 Using Tasks” for details.

List of All Settings

Personal

	Buttons	Configure the device’s buttons.
	Input	Input method configurations.
	Lock	Set a password to unlock the device.
	Menus	Configure the Start menu.
	Owner Information	Enter information about the owner of the device.
	Phone	Configure the Phone features. See “Chapter 3 Phone Features” for details.
	Sounds & Notifications	Configure program and event sounds.
	Today	Configure the Today screen items and theme.

System

	About	Windows Mobile information and device name.
	Backlight	Configure the display backlight.
	Barcode Settings	Change settings of barcode scanner

	Certificates	Manage personal and root certificates.
	Clock & Alarms	Set time and alarms.
	Customer Feedback	
	Device Info	Display the device software and hardware version.
	Encryption	
	Error Reporting	Enable or disable Microsoft product error reporting.
	External GPS	
	Factory Reset	Lets you reset all settings to manufacturer default.
	Memory	Memory and process management.
	Power	Power management settings.
	Regional Settings	Configure the device's locale.
	Remove Programs	Remove an installed application.
	Screen	Lets you align the screen. See "Calibrating Your Device" of Chapter 2 for details.
	Windows Update	

Connections

	Beam	Turn on/off the beam feature.
	Bluetooth	Configure Bluetooth settings. See "Chapter 5 Bluetooth Connections" for detail.
	Connections	Configure the device's connections.

	Network Cards	Configure Network adapter.
	USB to PC	Enable/Disable advanced network functionality.
	Wireless Manager	Turn on/off wireless and phone features with the Wireless Manager.

2.6 Using Calendar

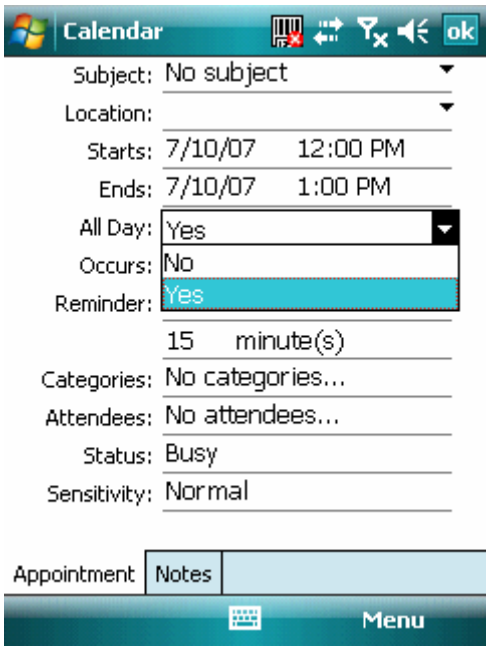
Use Calendar to schedule appointments, including meetings and other events. Your appointments for the day can be displayed on the Today screen. If you use Outlook on your PC, you can synchronize appointments between your device and PC. You can also set Calendar to remind you of appointments with a sound or flashing light, for example.

You can look at your appointments in several different views (Day, Week, Month, Year and Agenda). To see detailed appointment information in any view, tap the appointment. For information about changing the Calendar view, see Change views in Calendar.

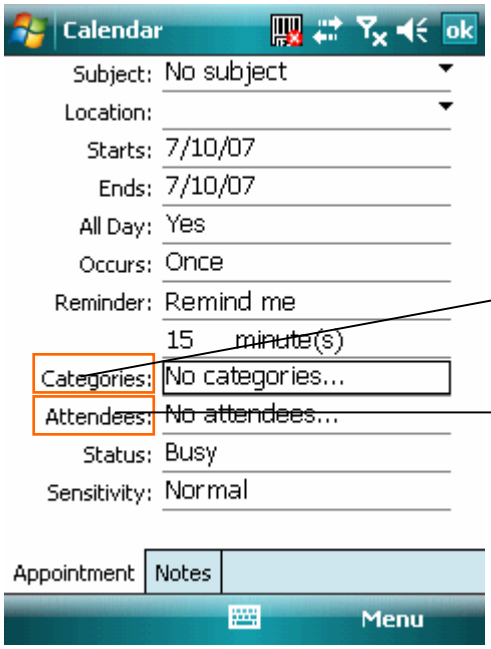
Scheduling an Appointment

1. Either tap > **Calendar** or tap the appointment reminder on the Today Screen.

2. Tap **Menu** > **New Appointment**.
3. Enter information about the appointment.
4. To schedule an all-day event, under **All Day**, select **Yes**.



5. Select categories and attendees.

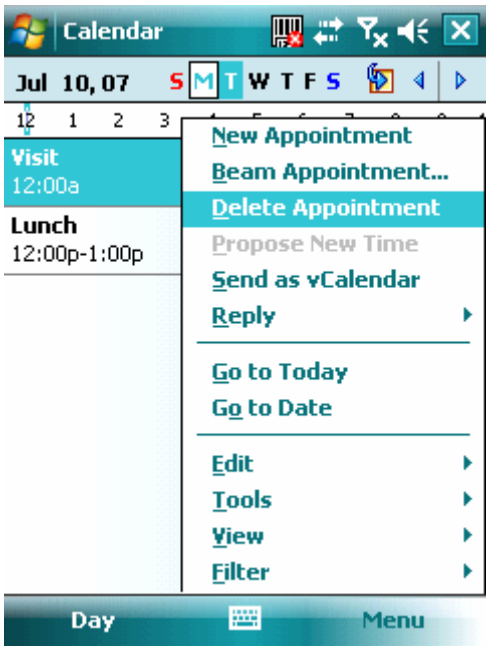


6. Tap ok.

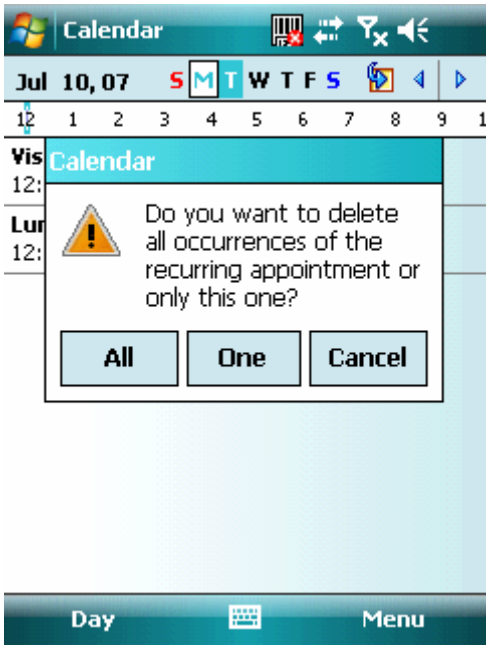
All-day events do not occupy blocks of time in Calendar; instead, they appear in banners at the top of the calendar.

Deleting an Appointment

1. Tap > **Calendar**.
2. In Agenda view, select the appointment to delete.
3. Tap **Menu** > **Delete Appointment**.



4. If the appointment is recurring, tap **Yes** to delete the series, or tap **No** to delete only the current occurrence.



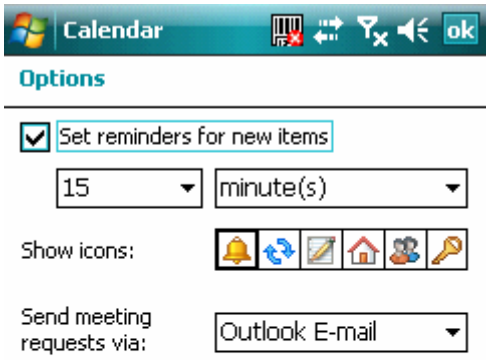
When you delete an appointment in Calendar on your phone, it is also deleted on your PC the next time you synchronize. If the appointment has not been synchronized with a PC, it will be deleted only form the phone.

Calendar items can be deleted only from Agenda view or from an open calendar appointment. To delete from other views, open the appointment, and Tap **Menu** > **Delete**.

Changing the Reminder Time

By default, the reminder time is set 15 minutes prior to an appointment.

1. Tap > **Calendar**.
2. Tap **Menu > Tools > Options**.
3. Tap **Appointment** tab and change the time.



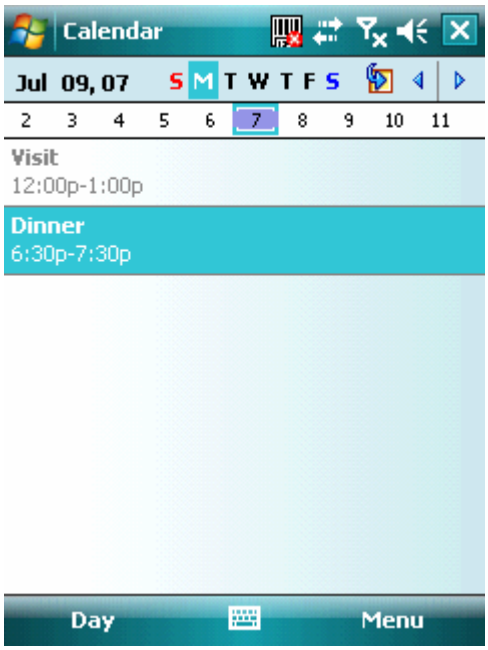
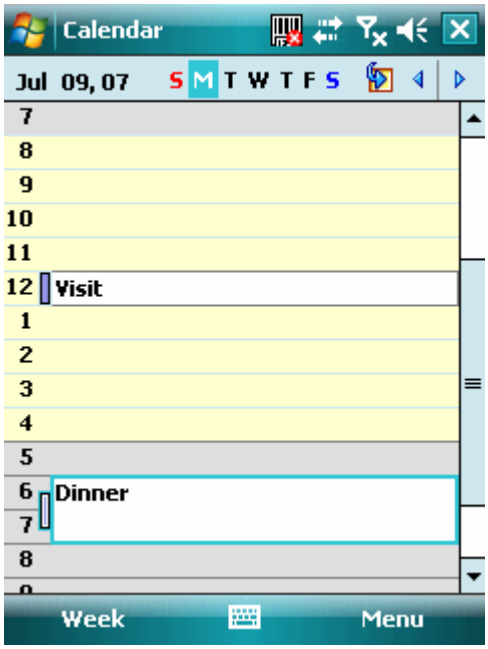
4. Tap ok.

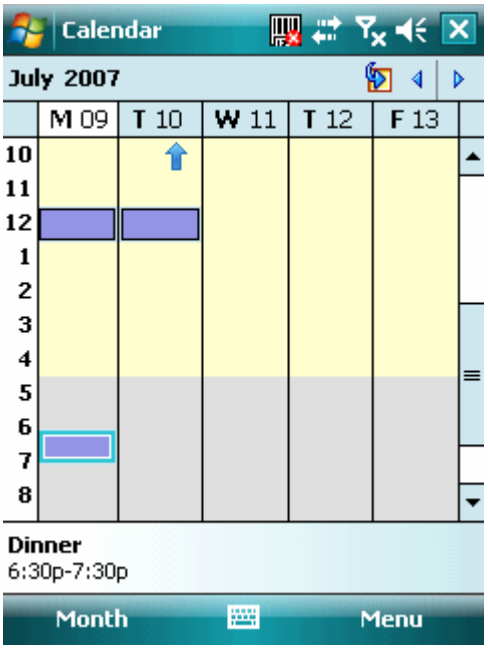
Changing Calendar Views

You can look at your appointments in Agenda, Day, Week, Month or Year view. To see detailed appointment information in any view, tap the appointment. To see a list of available actions for an appointment, tap and hold the appointment.

1. Tap > **Calendar**.

2. Tap **Menu** > **View** and select the view you want.

View	See	Screen
Agenda	Your current day's activities at a glance. Upcoming appointments are bold; past appointments are dimmed.	
Day	Your schedule for a single day in a day-planner layout. Free and busy times in time slots of 1/2 hour or 1 hour.	

Week	Your schedule for the whole week.	
Month	Your free and booked days for a month: : Current day : morning appointment : afternoon appointment : morning and afternoon appointments : all-day event with time not marked free	

Year	A calendar for the entire year.	

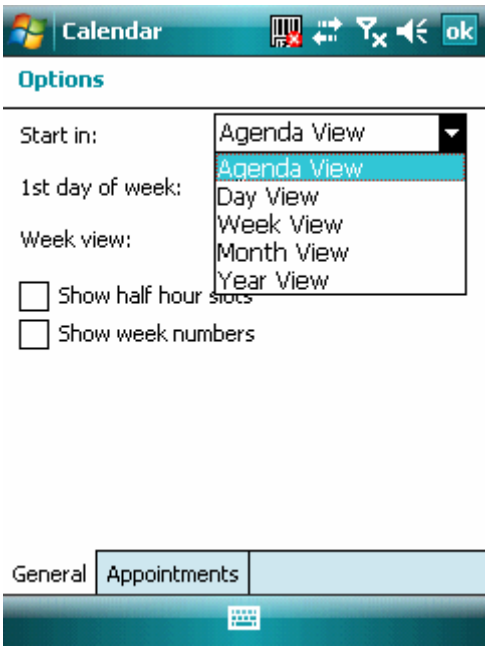
In Month view, a date will appear in red when the Holiday category is assigned to any appointment for that day.

You can also change the view by tapping Agenda, Day, Week, Month, or Year on the menu bar.

To quickly see your appointments for the current day, tap **Start** > **Today**.

Changing the Display of the Work Week

1. Tap > **Calendar**.
2. Tap **Menu** > **Tools** > **Options** and do one of the flowing:
   - To assign a default view, in **Start in**, select **Agenda View**, **Day View**, **Week View**, **Month View** or **Year View**.



- To specify the first day of the week, in **1st day of week**, tap **Sunday** or **Monday**.
- To specify the number of days you want to appear in a week, in **Week view**, tap **5-day week**, **6-day week**, or **7-day week**.

3. Tap ok.

2.7 Using Notes

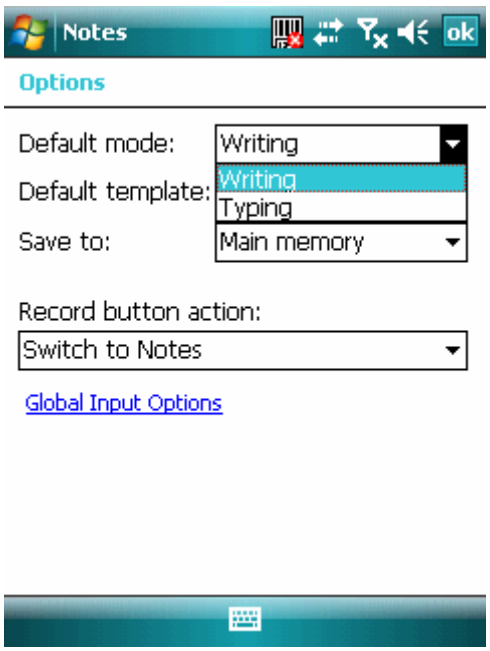
Notes helps you to quickly capture thoughts, questions, reminders, to-do lists, and meeting notes. You can create handwritten and typed notes, record voice notes, convert handwritten notes to text for easy readability, and send notes to others.

Your notes and recordings are displayed in the note list. If you have a long list, tap the sort list (labeled Name by default), and select the option you want. To open a note or play a recording, tap it. To see a list of available actions for a note or recording, tap and hold the note or recording.

Setting the Default Input Mode

1. Tap > **Programs** > **Notes**.
2. Tap **Menu** > **Options**.
3. Select one of the following modes in **Default mode**:
   - Select **Writing** if you prefer your notes to be handwritten.

- Select **Typing** if you would like your notes to be typed.



4. Tap ok.

Creating a Note

1. Either tap > **Programs** > **Notes** or press the Voice Record button on the left side of the device.

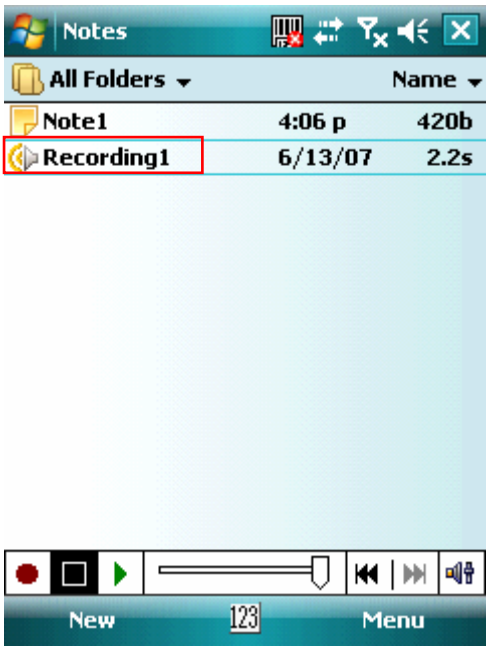
Press the Voice Record button on the left side to launch Notes.

2. Tap **New** and enter text.

3. Tap ok to save your note.

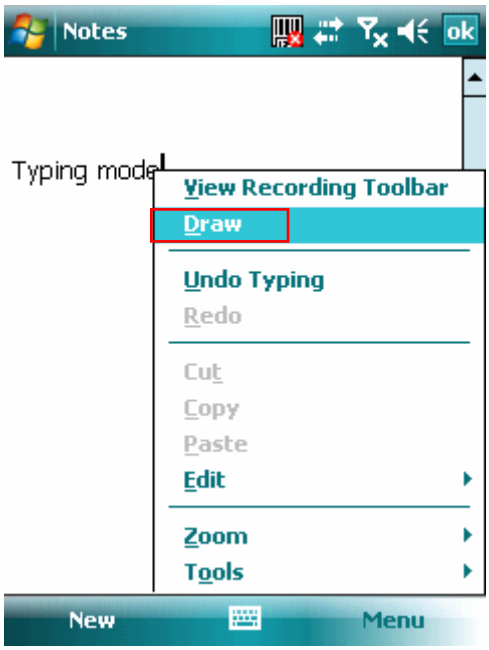
Creating a Stand-alone Voice Recording

1. Tap > **Programs** > **Notes**.
2. If the recording toolbar is not shown, tap **Menu** > **View Recording Toolbar**.
3. Tap the RECORD button on the recording toolbar and speak to the device's microphone to record your voice in the notes list.
4. Tap the STOP button on the recording toolbar when finished.
5. Tap ok to return to the notes list. In the notes list a stand-alone voice recording is listed with a icon.

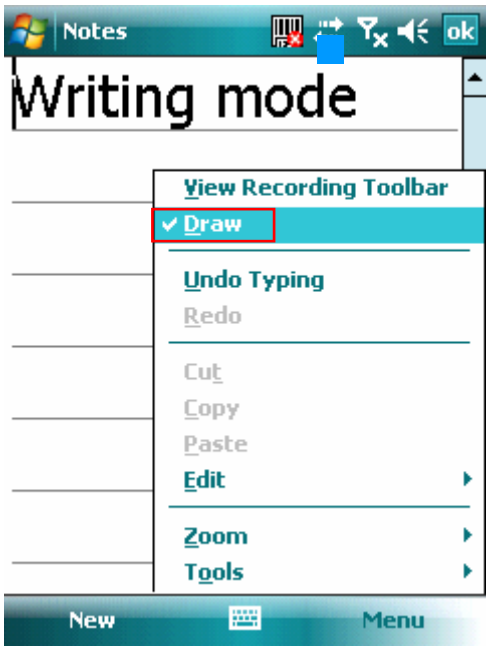


Switching between Typing/Writing Modes

1. Tap > **Programs** > **Notes**.
2. Create a new note or open an existing note from the notes list.
3. Tap **Menu** > **Draw** to switch to a different mode.



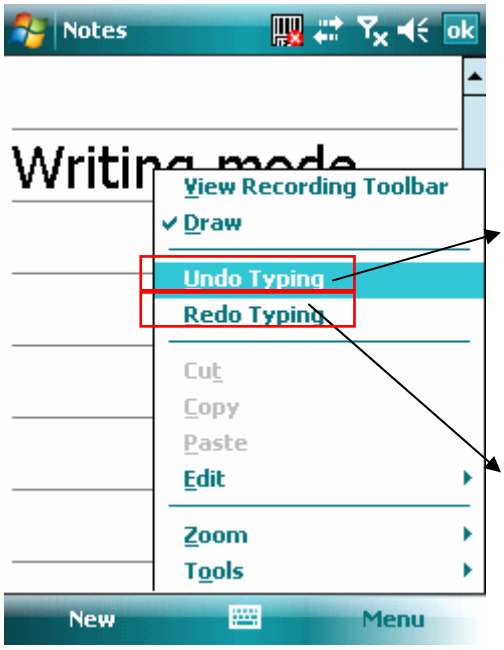
While in typing mode, tap Draw to switch to writing mode



While in writing mode, tap Draw to switch to typing mode

Editing a Handwritten Note

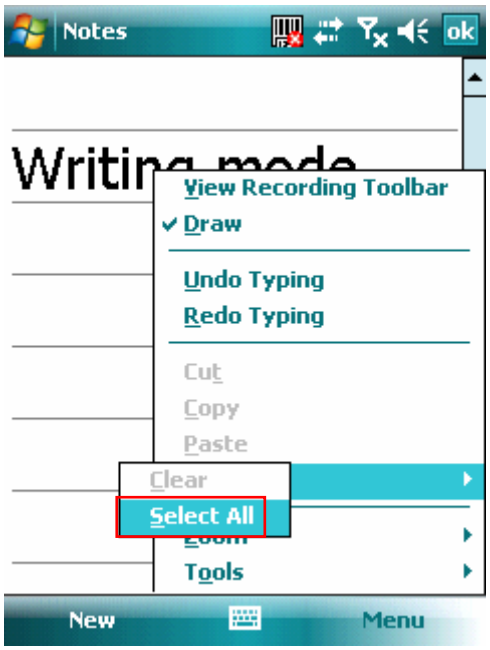
- Tap **Menu** > **Undo/Redo Ink**.



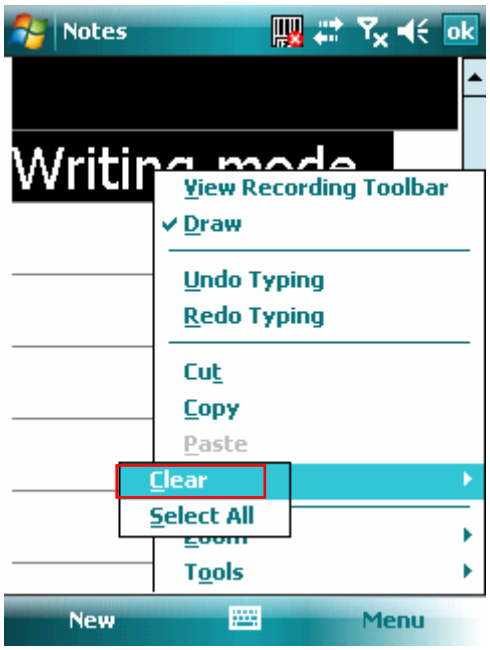
Tap **Undo Ink** to cancel or reverse an action.

Re-execute an undone action by tapping **Redo Ink**.

- Tap **Edit** > **Select All/Clear**.



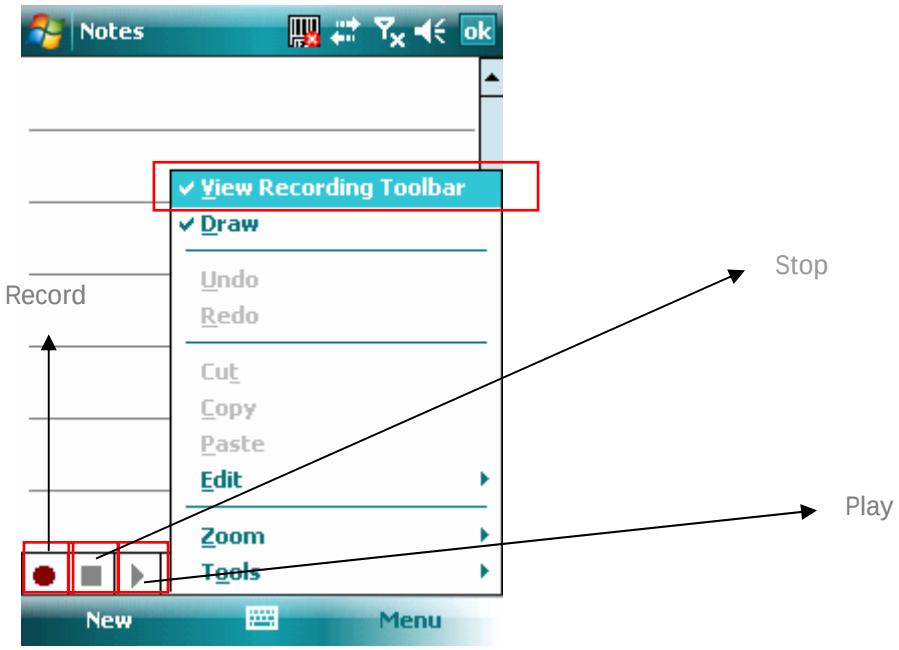
Tap **Select All** to select all handwriting



Tap **Clear** to clear selected handwriting

Adding a Voice Recording to a Note

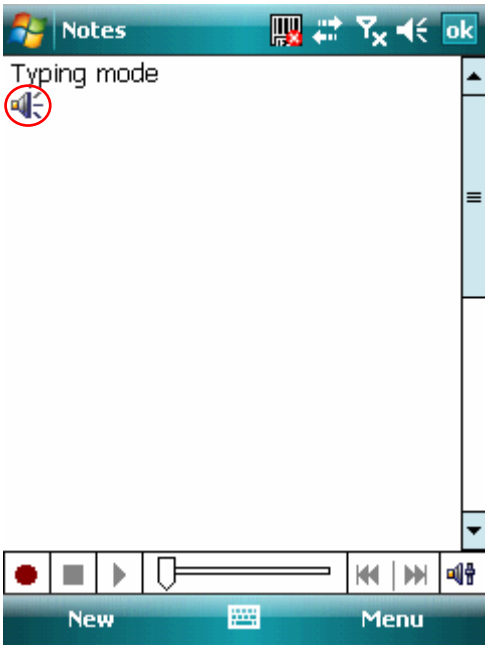
1. Tap > **Programs** > **Notes**.
2. Create a new note or open an existing note from the notes list.
3. If the recording toolbar is not shown, tap **Menu** > **View Recording Toolbar**.



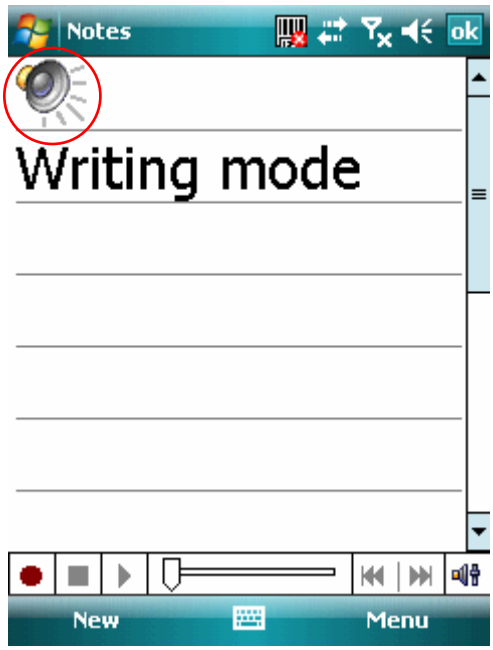
4. Tap the **RECORD** button on the recording toolbar and speak to the device's microphone.

5. Tap the **STOP** button on the recording toolbar when finished.

6. Tap ok to return to the notes list if you are adding a voice recording to a note.



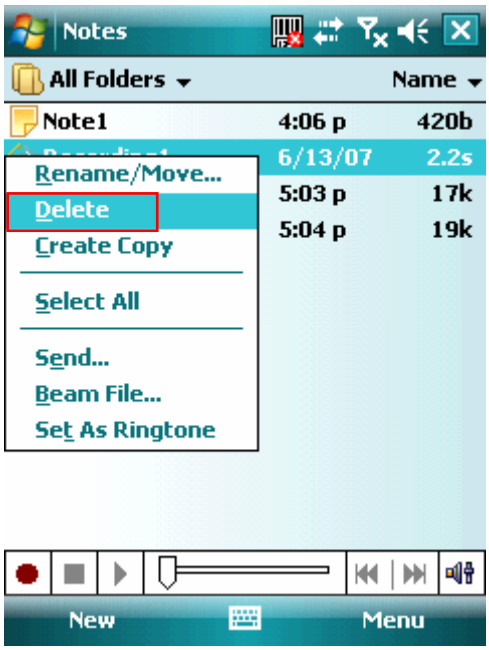
Add a voice recording to a note in typing mode



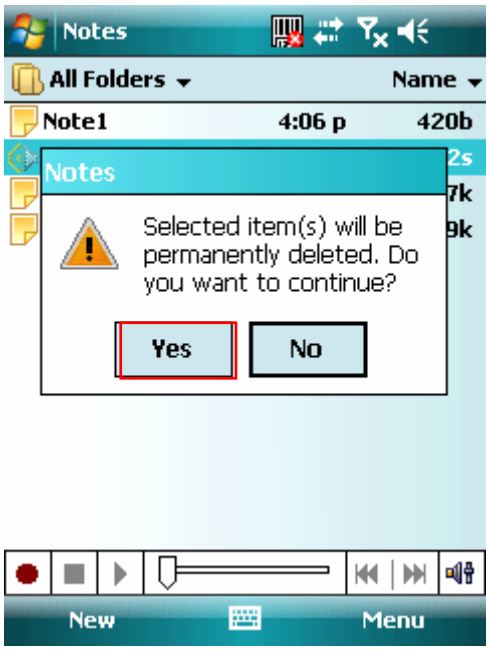
Add a voice recording to a note in writing mode

Deleting a Note

1. Tap > **Programs** > **Notes**.
2. Tap and hold the note and tap **Delete**.

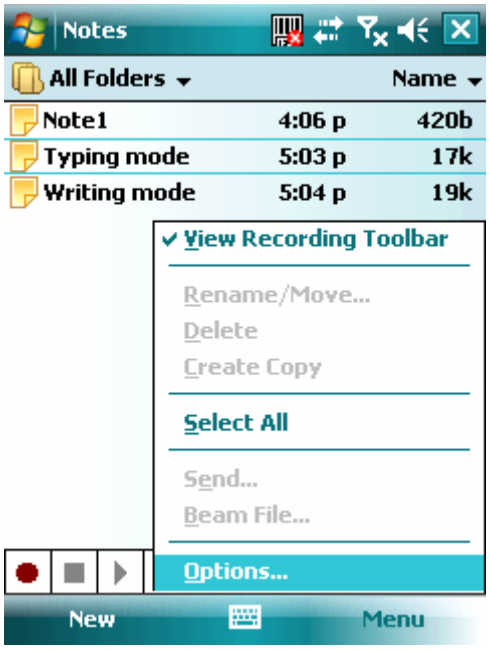


3. Tap the **Yes** button to delete the selected note.

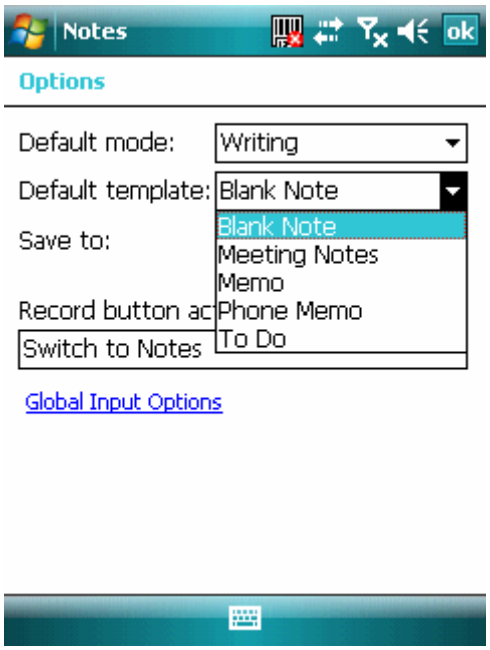


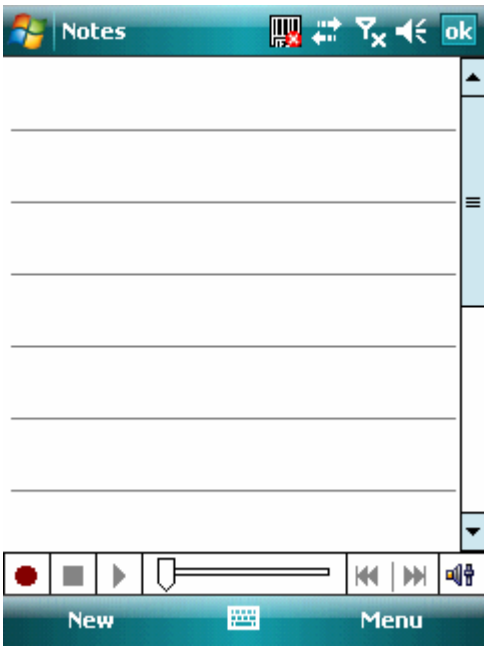
Creating a Default Template

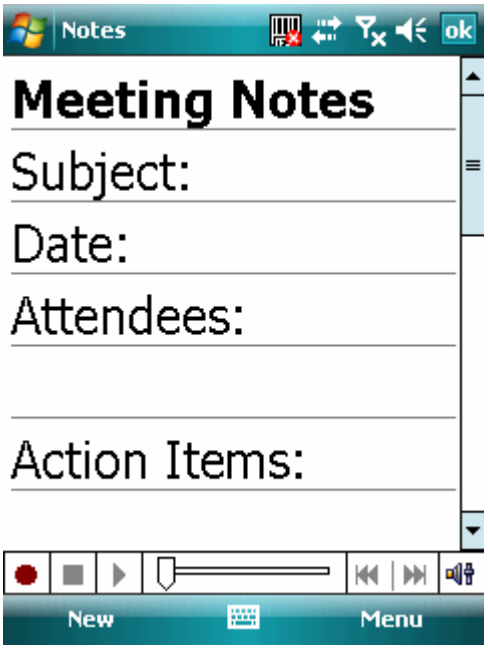
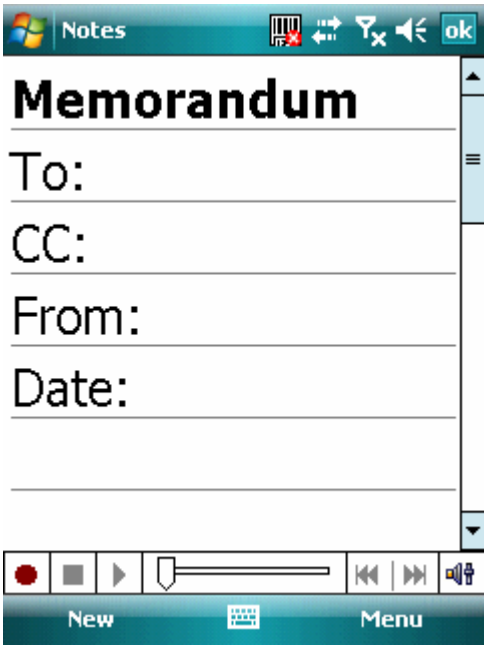
1. Tap > **Programs** > **Notes**.
2. Tap **Menu** > **Options**.

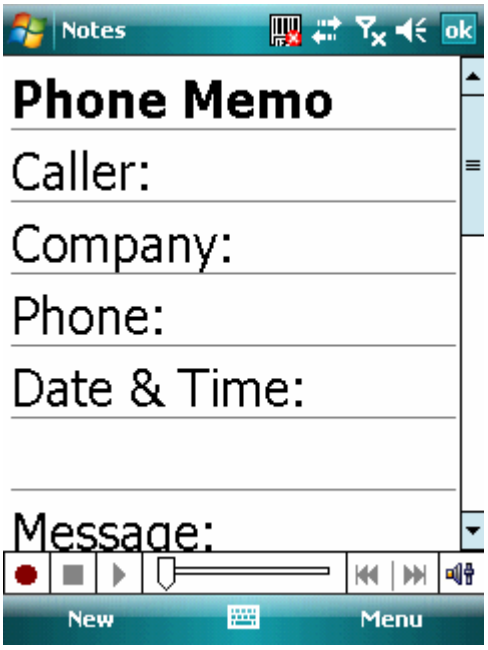
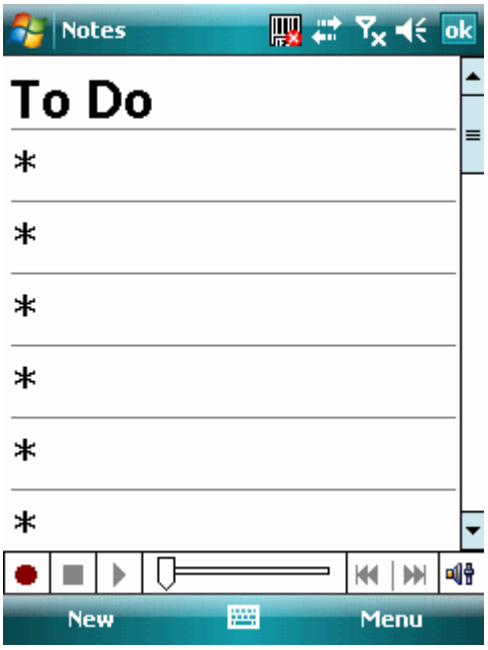


3. Select a template from Default template.



Template	Screen
Blank	

Meeting Notes	
Memo	

Phone Memo	
To Do	

2.8 Using Tasks

Use Tasks to keep track of things you need to do. A task can occur once or repeatedly (recurring). You can set reminders for your tasks and you can organize them by using categories.

Your tasks are displayed in a task list. Overdue tasks are displayed in red.

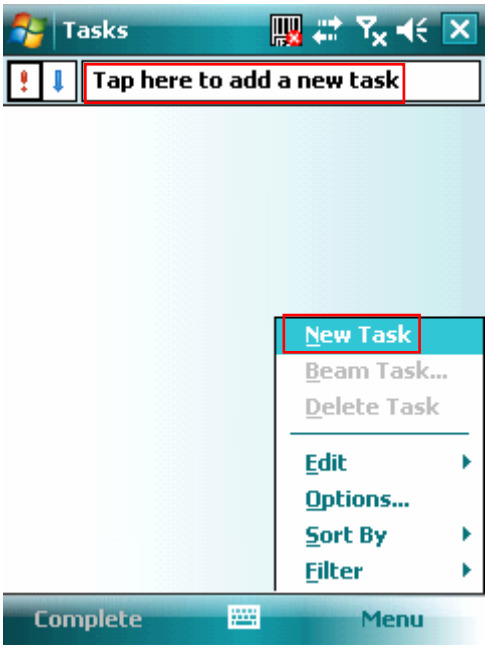
If you use Outlook on your PC, you can synchronize tasks between your device and PC so that

tasks you create or update on your PC will also be updated on your device and vice versa.

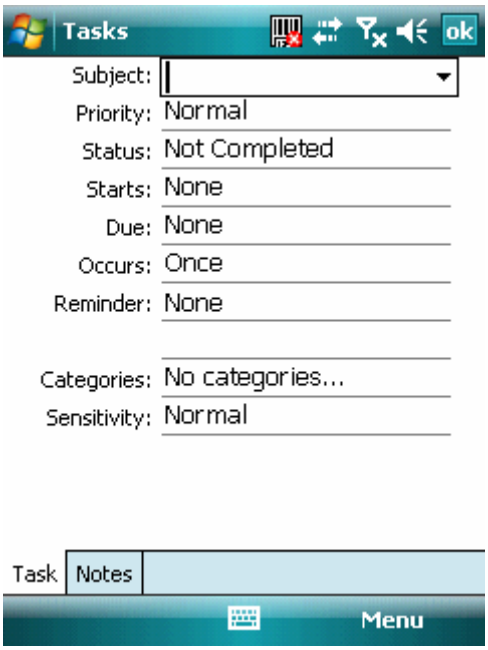
To quickly see the number of active tasks you have, tap **Start** > **Today**.

Creating a Task

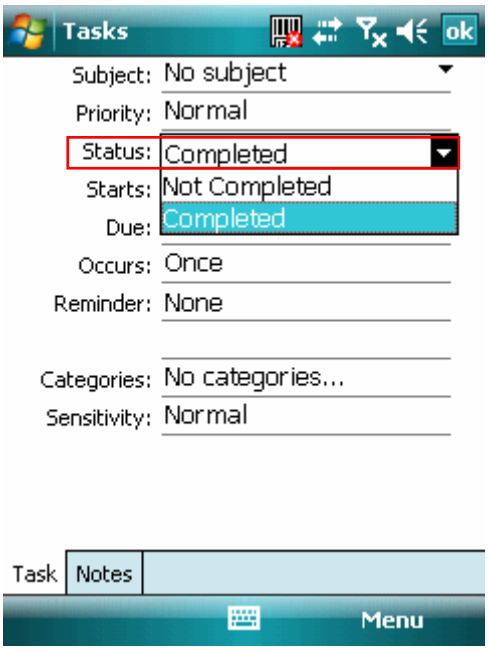
1. Tap > **Programs** > **Tasks**.
2. Do one of the following:
   - In the **Tap here to add a new task** box enter the task name and press the ENTER key.
   - Tap **Menu** > **New Task** and enter details about the new task.



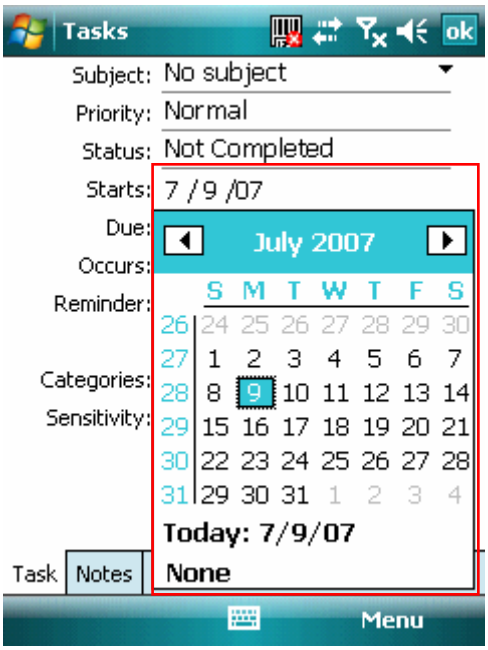
1. Enter or select a subject.



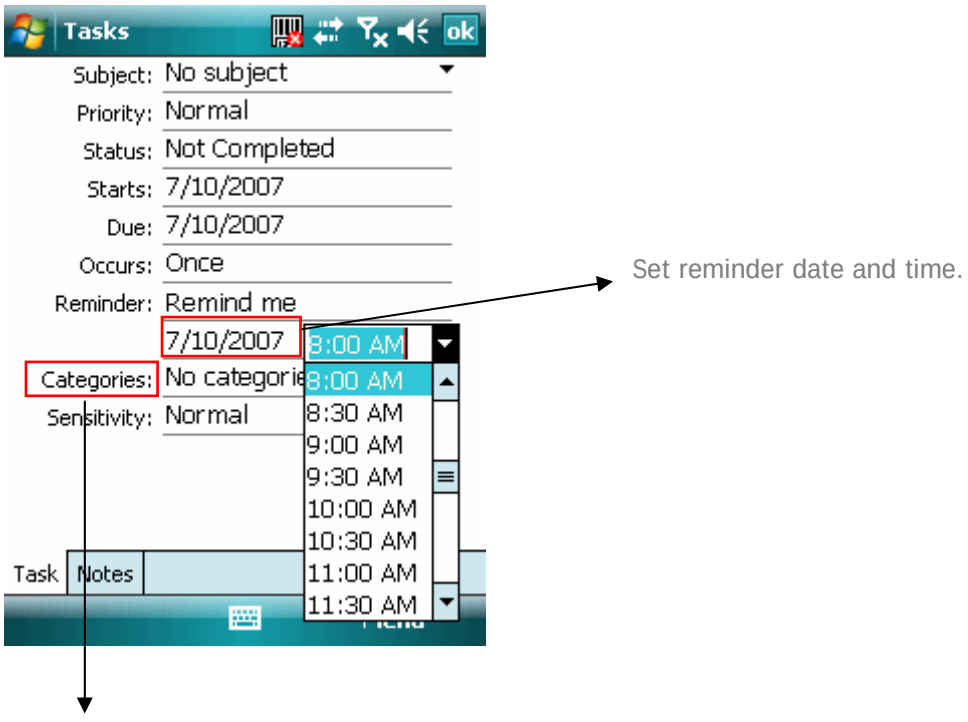
2. Select a completion status.

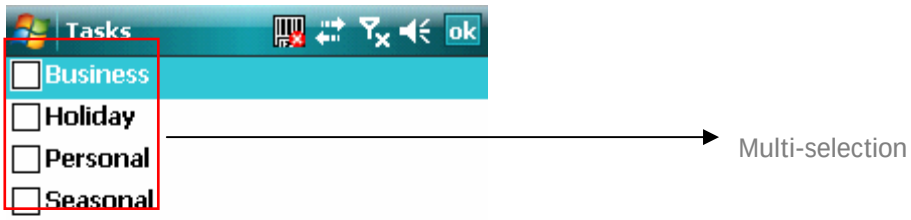


3. Pick the start and due time.

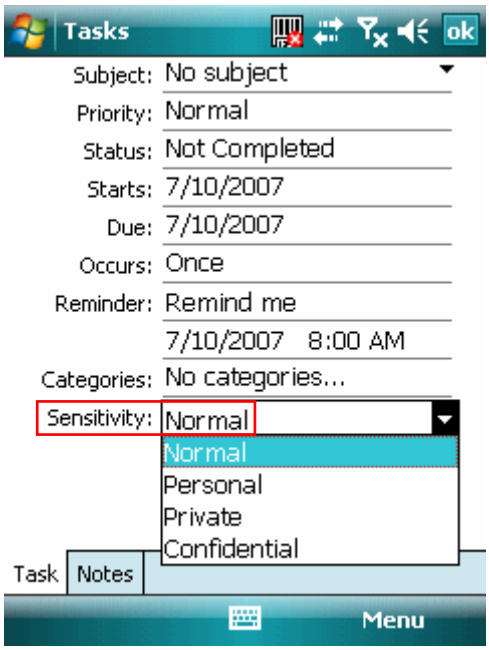


4. Set a reminder date/time and pick a task category.





5. Select task sensitivity.

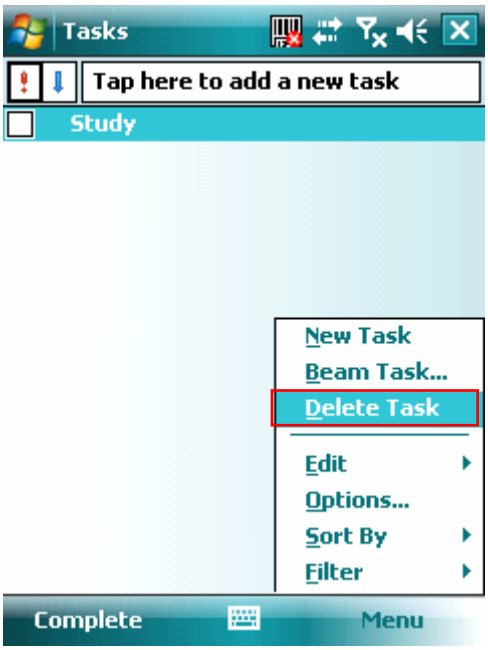


You can synchronize information on your phone with your PC to keep your task list up to date in both locations.

If you create a new task with a reminder on your PC and then synchronize tasks with your phone, the reminder will play at the time it was set on your PC.

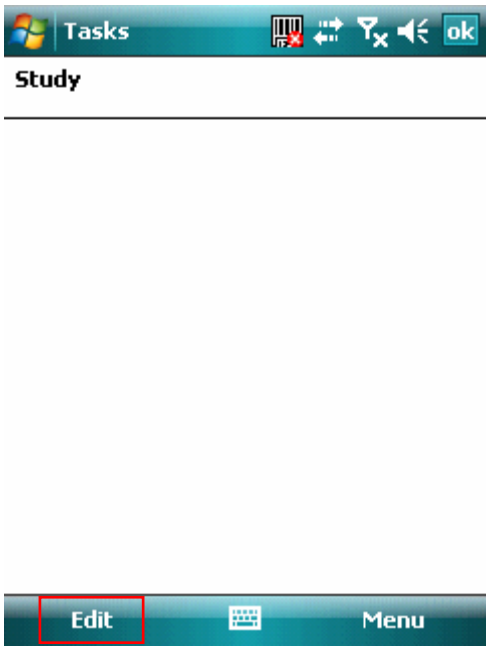
Deleting a Task

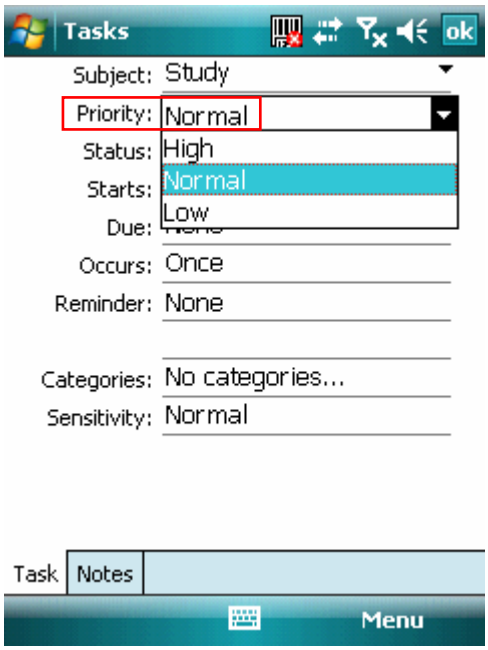
1. Tap > **Programs** > **Tasks**.
2. Select the task, and tap **Menu** > **Delete Task**.



Changing Task Priority

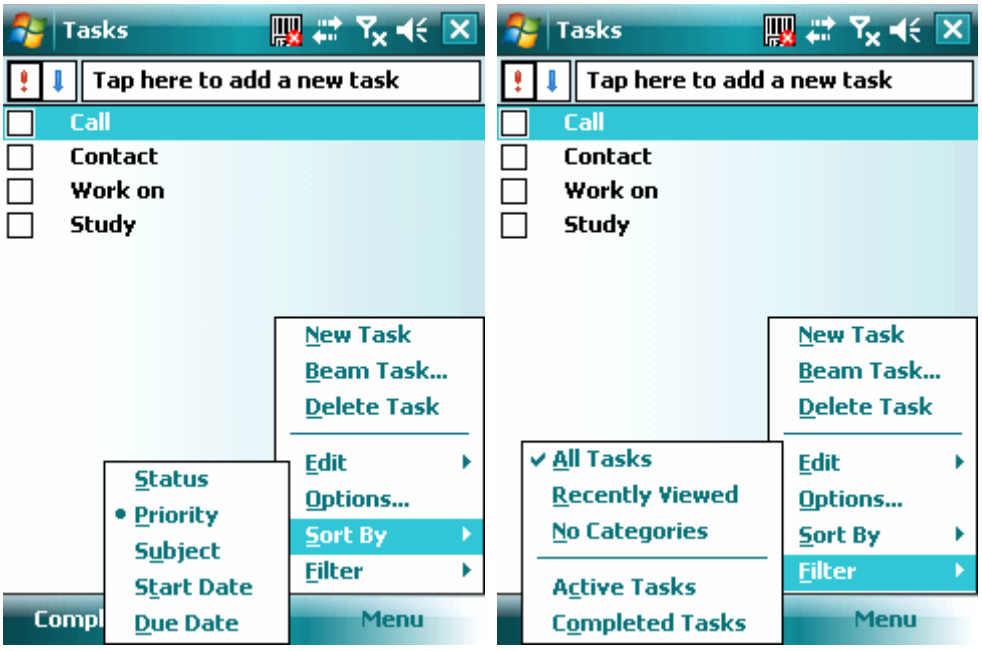
1. Tap > **Programs** > **Tasks**.
2. Select the task, and tap **Edit**.
3. In the **Priority** box, select a priority.





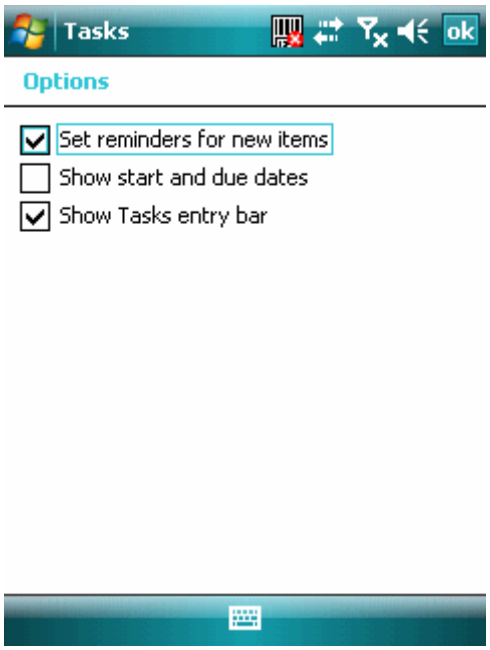
Sorting/Filtering Your Tasks

1. Tap > **Programs** > **Tasks**.
2. Do one of the following:
   - To sort the tasks, tap **Menu** > **Sort by** and select a sorting option.
   - To filter the tasks by category, tap **Menu** > **Filter** and select a category to display.



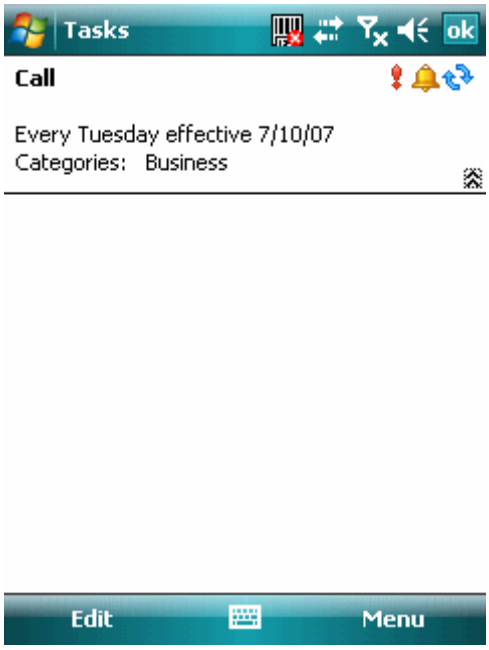
Setting Tasks Options

1. Tap > **Programs** > **Tasks**.
2. Tap **Menu** > **Options**, there are 3 options you can set:
   - Set reminders for new items
   - Show start and due dates
   - Show Tasks entry bar



Viewing Task Details

1. Tap > **Programs** > **Tasks**.
2. Tap twice on a task to view the details.



Charter 3. Phone Features

You can use your phone to make, receive, and keep track of calls, and send text messages (SMS, Short Message Service) and MMS (Multimedia Messaging Service) messages. You can also dial a phone number directly from Contacts, and easily copy SIM contacts to Contacts on the phone.

3.1 Making a Call

The Phone Screen

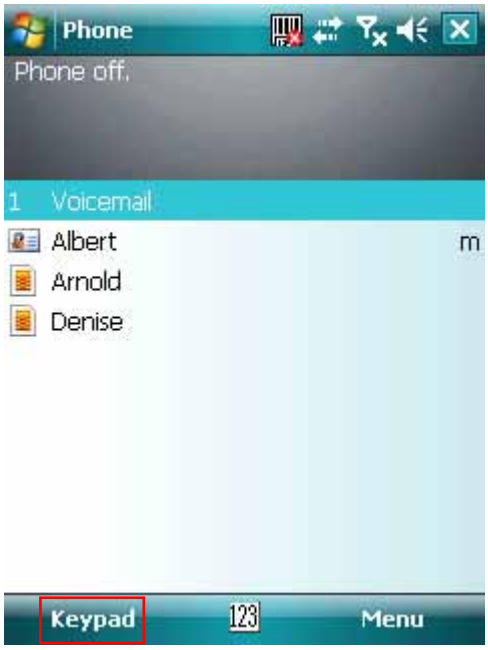
From the Phone screen, you can open, call, or find a contact, and even save a new number in Contacts. To access the Phone screen, do any of the following:

- Press the Talk key ( ).
- Tap > **Phone**.

Making a Call by Entering a Phone Number

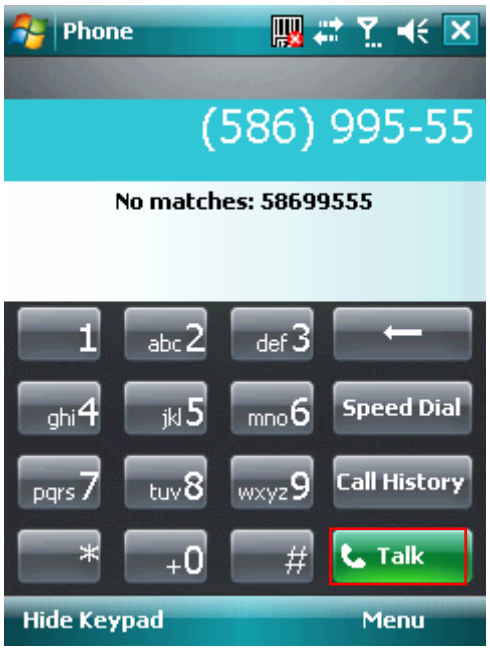
To enter phone numbers by tapping the screen directly, you have to open the Phone Keypad.

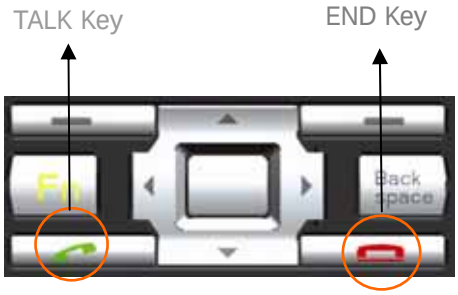
1. On the Phone screen, if the Phone Keypad doesn't show automatically, tap **Keypad**. A Phone Keypad will show, you can then enter the phone number.



2. Do one of the following after entering the phone number:

   - If you see the number or contact name to call, select it, then tap Talk or press the TALK ( ) key.
   - If you do not see the number or contact name, finish entering the number, then tap Talk or press the TALK ( ) key.



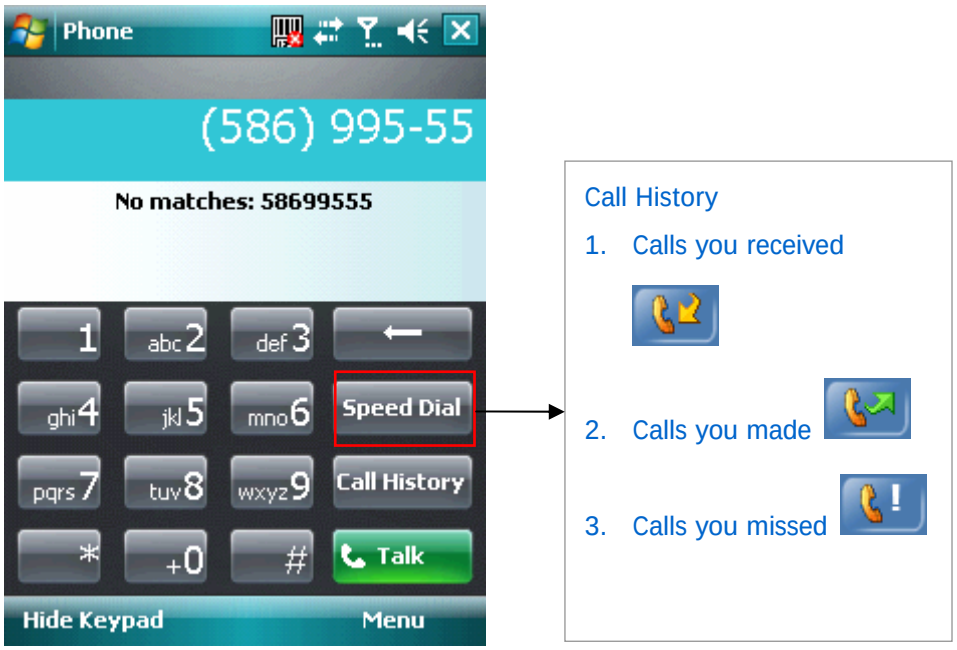


Tap ← on the screen once to erase one single number; tap and hold it to erase a whole string of numbers.

Making a Call from Call History

Call History displays calls you have made, received, and missed.

1. On the Phone screen, tap the **Call History** button on the Phone keypad.

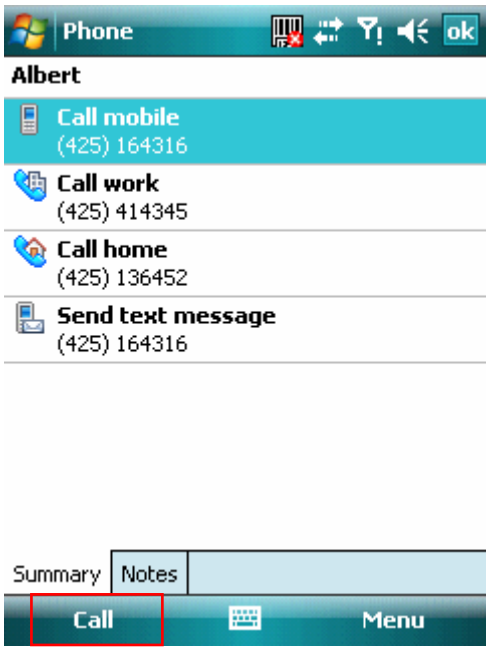


2. Select the name or phone number to call.
3. Tap **Call** or press TALK ( ).

Making a Call from Contacts

1. On the Phone screen, tap on the desired contact in the list.

2. Tap on the number you want to dial; otherwise, you can tap **Call** on the screen or press TALK ( ).



You can tap on the desired contact in the list and tap on the number you want to dial.

You can also tap and hold the desired contact in the list and select **Call Work**, **Call Home**, or **Call Mobile** from the pop-up submenu.

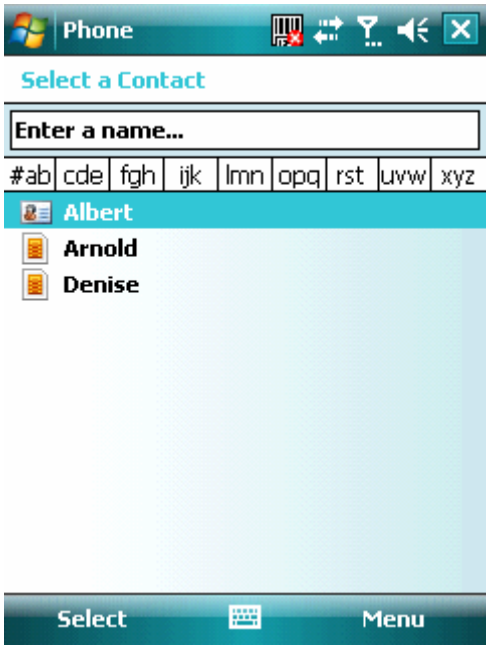
Making a Call from Speed Dial

You can create speed dial entries for frequently-called numbers or frequently-accessed items so you can dial a number by pressing a single key. For example, if you assign location 2 to a contact in Speed Dial, you can simply press and hold 2 on the Phone keypad to dial the contact's number. Speed dials can be created only for numbers that are stored in Contacts.

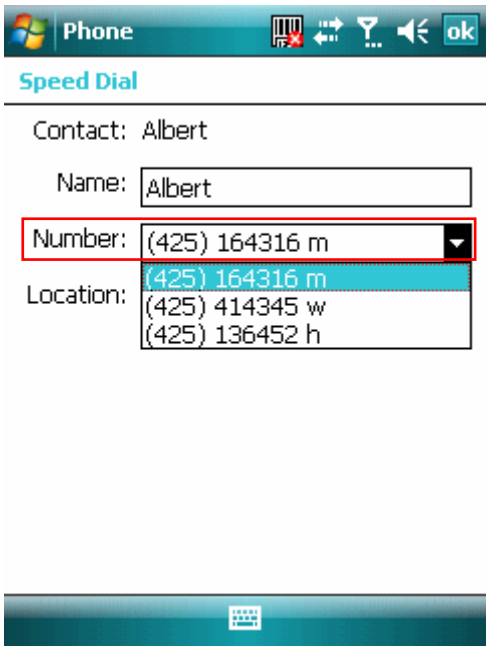
To create a speed dial entry for a contact

1. On the Phone screen, tap **Speed Dial**.
2. Tap **Menu** > **New**.

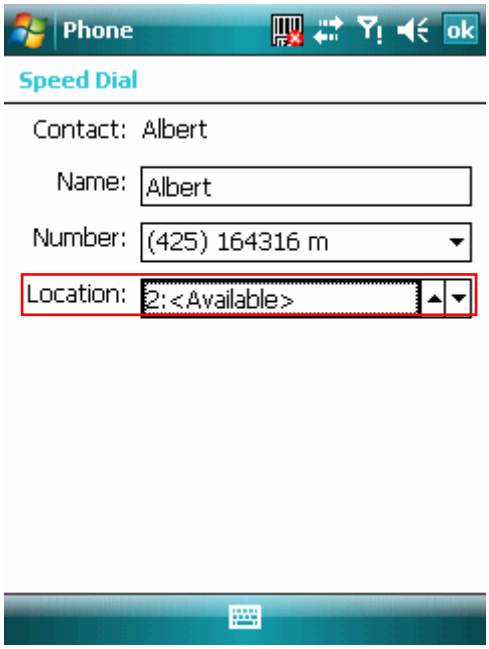
3. Tap the contact for whom to create a speed dial.



4. Select the phone number for which to create a speed dial.



5. In **Location**, select the speed dial number to use.



6. Tap ok when finished.

The first speed dial location is generally reserved for your voicemail. Speed Dial uses the next available location by default. If you want to place a number in a location that is already used, the new number replaces the existing number.

Tap the **Speed Dial** button on the phone screen to check the success of creating a Speed Dial entry.

To retrieve a voicemail message

- On the Today screen, press and hold 1 to access your voice mailbox, and follow the prompts to retrieve your message.

To delete a speed dial entry

- In the Speed Dial list, tap **Menu** > **Delete**.

Receiving/Rejecting a Call

When you receive a phone call, you have the option to answer it or ignore it.

To receive a call

- Tap **Answer** or press the TALK ( ) key to accept an incoming call.

To end a call

- Tap **Ignore** or press END ( ) to hang up a call.

3.2 Configuring the Phone

Your wireless service provider may provide useful services such as Call Barring, Caller ID, Call Forwarding, Call Waiting, Voice Mail and Text Messages and Fixed Dialing. You can get their settings from the Network and change them.

Activating PIN Security

Most Subscriber Identity Module (SIM) cards are preset with a personal identification number (PIN) that is provided by your wireless service provider. When PIN Security is activated, you need to enter the PIN whenever you use your phone.

1. Tap > **Settings** > **Phone** > Select **Require PIN when phone is used**.
2. Enter the preset PIN provided by your wireless service provider.
3. Tap **Enter**.

If your PIN is entered incorrectly three times, the SIM card will be blocked. If this happens, you can unblock it with the PIN Unblocking Key (PUK) obtained from your wireless service provider.

Changing the Ring Type and Ring Tone

You can choose how to be notified for incoming calls.

To set a ring type for incoming calls

1. Tap **> Settings > Phone**.
2. In the Ring type list, tap the desired option.

To set a ring tone for incoming calls

1. Tap > **Settings** > **Phone**.
2. In the Ring tone list, select a ring tone.
3. Tap ok.

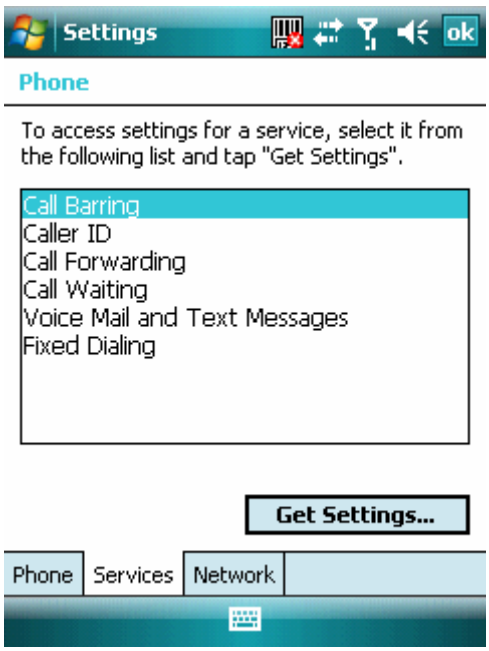
To adjust the earpiece volume during a call, press the VOLUME control on the phone side panel. Adjusting the volume at any other time can affect the ring and notification and MP3 sound levels.

Blocking Incoming or Outgoing Calls

You will not be able to receive or make calls according to the options you choose.

1. Tap > **Settings** > **Phone** > **Services** tab.

2. Tap **Call Barring** > **Get Settings**.



3. Choose the calls you want to block, and tap ok.
   - Block incoming calls: All calls, When roaming, Off.
   - Block outgoing calls: All calls, International, International except to home country, Off.

Displaying Caller ID

You can provide a way for people to know your identity when you are calling them.

1. Tap > **Settings** > **Phone** > **Services** tab.
2. Tap **Caller ID** > **Get Settings**.
3. Select **Everyone**, **No one** or **Only to contact**.

Call Waiting

When you are in another call, you will be notified of an incoming call if this option is selected.

1. Tap > **Settings** > **Phone** > **Services** tab > **Call Waiting** > **Get Settings**.
2. Select **Notify me** or **Do not notify me**, and tap ok.

> To change phone settings alternatively, tap **Menu** > **Options** > **Services** tab from the Phone keypad.

3.3 In-Call Options

Your phone provides various options for managing multiple calls at the same time. You are notified when you have another incoming call, and you have the choice of ignoring or accepting the call. If you are already on a call and accept the new call, you can choose to switch between the two callers, or set up a conference call between all three parties.

In-Call Options

Answering Another Call

1. Tap **Answer** to take the second call and put the first call on hold.
2. To switch between two calls, tap **Swap**.
3. To end the second call and return to the first call, press END ( ).

Conference Call

1. Either put a call on hold and dial a second number; or accept a second incoming call when you have one in progress.
2. Tap **Menu** and select **Conference**.

If the conference connection is successful, the word “Conference” will appear at the top of the screen. To add additional persons to your conference call, tap **Hold**, enter the phone number, and then tap **Swap** to return and continue.

Not all service providers support conference calling. Contact your service provider for details.

Call Waiting

To turn call waiting notifications on and off

When you are in another call, you will be notified of an incoming call if this option is selected.

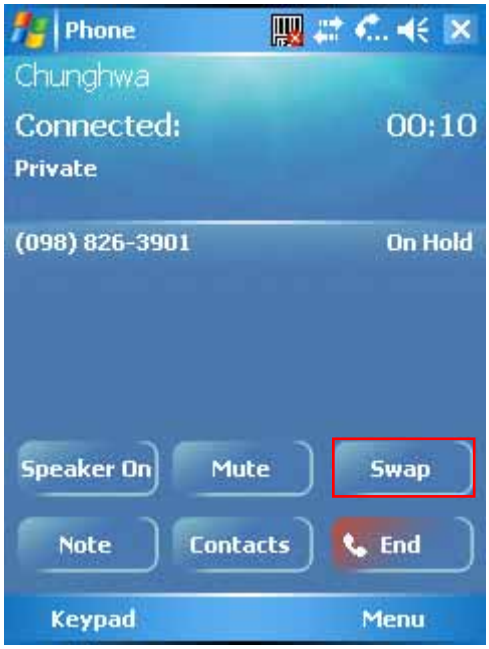
1. Tap > **Settings** > **Phone** > **Services** tab > **Call Waiting** > **Get Settings**.
2. Select **Notify me** or **Do not notify me**, and tap ok.

To answer another call

1. Click **Answer** to take the second call and put the first call on hold.
2. To end the second call and return to the first call, press END ().

To switch between calls

- To switch between two calls, click **Swap**.



Turning On/Off the Speakerphone

Talk hands-free or let others hear your conversation with the built-in speakerphone in your device.

- Tap **Speaker On** during a call to turn the speaker on.
- Tap **Speaker Off** to turn the speaker off.

To avoid damage to your hearing, do not hold your phone against your ear when the Speakerphone is turned on.

Muting the Microphone

The device's microphone can be turned off during a call. If you turn off the microphone the caller cannot hear you. However, you can still hear the caller.

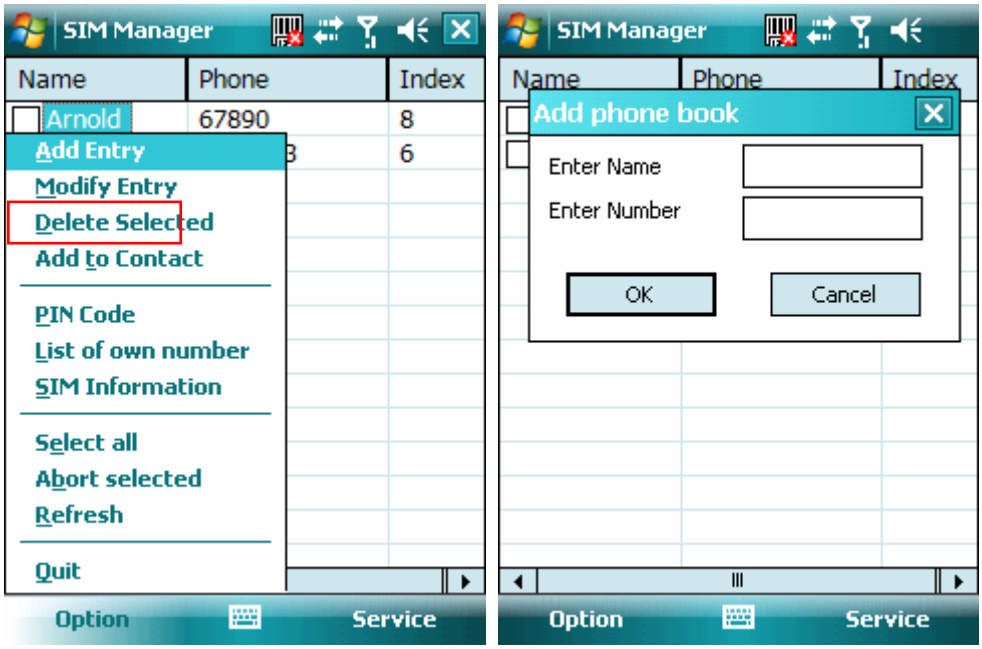
- Tap **Mute** during a call to turn the microphone off.
- Tap **Unmute** to turn the microphone on.

3.4 SIM Manager

The SIM Manager helps you to manage the phonebook in your SIM card. Using the SIM Manager, you can easily transfer phonebook entries from your SIM card to Contacts.

Adding a Phonebook Entry to SIM Card

1. Tap > **Programs** > **SIM Manager**.
2. Tap **Option** > **Add Entry** and enter the name and phone number you want to add.



3. Tap the **OK** button.

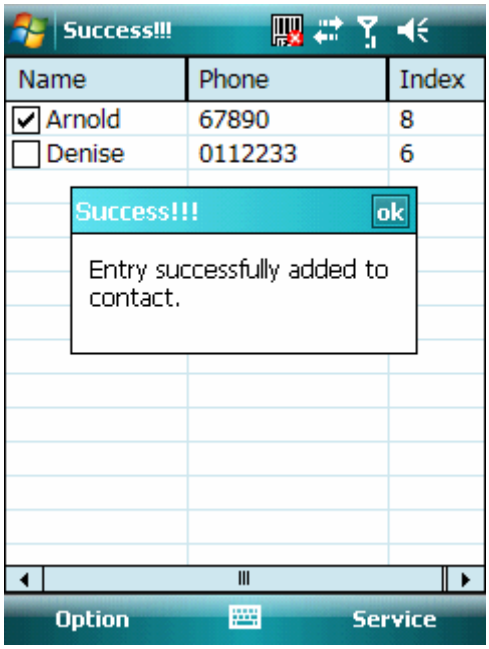
Deleting Phonebook Entries from SIM Card

1. Tap > **Programs** > **SIM Manager**.
2. Select the entries you want to delete by checking the checkboxes in front.
3. Tap **Option** > **Delete Selected**.

Saving Phonebook Entries to Contacts

1. Tap > **Programs** > **SIM Manager**.
2. Select the entries you want to save to Contacts by checking the checkboxes in front.
3. Tap **Option** > **Add to Contacts**.

4. Tap ok to close the notification dialog box.



Chapter 4. Synchronizing Information

ActiveSync synchronizes information on your phone with information on your PC such as Outlook content. ActiveSync can also synchronize over a wireless or cellular network with Exchange Server, if your company or service provider is running Exchange Server with Exchange ActiveSync.

Specifically, you can use ActiveSync to:

- Synchronize information such as Outlook e-mail, contacts, calendar, or tasks information on your phone with your PC, as well as pictures, video, and music.
- Synchronize Outlook e-mail, contacts, calendar appointments, and tasks on your phone directly with Exchange Server so that you can stay up to date even when your PC is turned off.
- Copy files between your phone and your PC without synchronizing.
- Select which types of information are synchronized and specify how much information is synchronized. For example, you can choose how many weeks of past calendar appointments to synchronize.

4.1 Installing and setting up ActiveSync

1. Install ActiveSync on your PC, as described on the Windows Mobile™ Getting Started Disc. After Setup completes, the Synchronization Setup Wizard automatically starts when you connect your device to the PC.
2. Follow the instructions on the screen to complete the wizard. In the Sync Setup Wizard, you can:
   - Create a synchronization relationship between your PC and the device.
   - Configure an Exchange Server connection to synchronize directly with Exchange Server. To synchronize your device with Exchange Server, obtain the name of the Exchange Server, your user name, password, and domain name from your administrator before completing the wizard.
   - Choose information types to synchronize.

When you finish the wizard, ActiveSync synchronizes your phone automatically. Once synchronization completes, you can disconnect your phone from your PC.

4.2 Synchronizing Information

To synchronize using ActiveSync, you must install ActiveSync on your PC before connecting your device to the PC.

Starting and Stopping Synchronization Manually

1. Turn on the device.
2. Connect your device to your PC using a USB cable or Bluetooth. For more detailed information, see "Connecting a mobile device to a PC" in ActiveSync Help on your PC.
3. Tap > **Programs** > **ActiveSync**.
4. To start synchronizing, tap **Sync**.
5. To stop synchronizing, tap **Stop**.

You can start and stop synchronization only if your device already has a sync relationship with a PC or Exchange Server.

Some Anti-Virus software may conflict with ActiveSync.

ActiveSync synchronizes a limited amount of information by default to save storage space on your phone. You can change the amount of information that is synchronized by performing the following steps.

Changing Which Information is Synchronized

You can change this setting only if your device already has a sync relationship with a PC.

Please disconnect your device from your PC before changing this setting.

1. Tap > **Programs** > **ActiveSync**.
2. Tap **Menu > Options**.
3. Do one or more of the following:
   - Select the check box for the items you want to synchronize. If you cannot select a check box, you might have to clear the check box for the same information type elsewhere in the list.
   - Clear the check box for any items you want to exclude.
   - To customize synchronization of a computer, select the computer name then click **Settings**.
   - To customize synchronization of particular information, select the information type then click **Settings**.
   - To stop synchronizing with one computer completely, select the computer name and click **Delete**.

Outlook e-mail can be synchronized with only one computer.

4.3 Changing Settings for an Information Type

Before changing settings for an information type on the device, disconnect it from your PC.

1. Tap > **Programs** > **ActiveSync** > **Menu** > **Options**.
2. Select one of the information types.
3. Do one of the following:
   - To view or change settings for an information type (when available), tap **Settings**.
   - To view or change settings for a computer or Exchange Server, tap **Settings**.
4. Change the amount of information to be synchronized or other settings.
5. Tap (or **Finish** in the Exchange Server settings wizard).

4.4 Synchronizing with Exchange Server

To set up your device to synchronize directly with Exchange Server, you will need to get the name of the server and the server domain name from your service provider or system administrator. You must also know your Exchange user name and password.

Before changing synchronization settings on the device, disconnect it from your PC.

1. On your device screen, tap > **Programs** > **ActiveSync** > **Menu** > **Configure Server**. If you have not yet set up sync with Exchange Server, this will say **Add Server Source**.
2. In **Server address**, enter the name of the server running Exchange Server, and tap **Next**.
3. Enter your user name, password, and domain name, and tap **Next**.
4. If you want the device to save your password so that you will not need to enter it again when connecting, select the **Save password** check box.
5. Select the check boxes for the types of information items that you want to synchronize with Exchange Server.
6. To change available synchronization settings, select the type of information, and tap

Settings.

7. To change the rules for resolving synchronization conflicts, tap **Advanced**.
8. Tap **Finish**.

You can also use the Sync Setup Wizard to set up the phone to synchronize remotely with the Exchange Server. This wizard is started when you connect your phone to your PC after installing ActiveSync on the PC.

4.5 Synchronizing via Bluetooth

Connecting to a PC Using Bluetooth

1. Follow the instructions in ActiveSync Help on the PC for configuring Bluetooth on your PC to support ActiveSync.
2. Tap > **Programs** > **ActiveSync**.
3. Tap **Menu** > **Connect via Bluetooth**. Ensure that the device and PC are within close range.
4. If this is the first time you have connected to this PC via Bluetooth, you must complete the Bluetooth wizard on the phone and set up a Bluetooth partnership with the PC before synchronizing.
5. Tap **Sync**.
6. When finished, tap **Menu** > **Disconnect Bluetooth**.

To preserve battery power, turn off Bluetooth.

Chapter 5. Bluetooth Connections

5.1 Overview of Bluetooth

Bluetooth is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange information over a distance of about 10 meters without requiring a physical connection. You can even beam information to a device in a different room, as long as it is within range.

The software included with your phone allows you to use Bluetooth in the following ways:

- Beam information, such as files, appointments, tasks, and contact cards, between devices that have Bluetooth capabilities.
- Create a connection between your device and a Bluetooth phone to use the phone as a modem.

Bluetooth Modes

Bluetooth on your phone operates in three different modes:

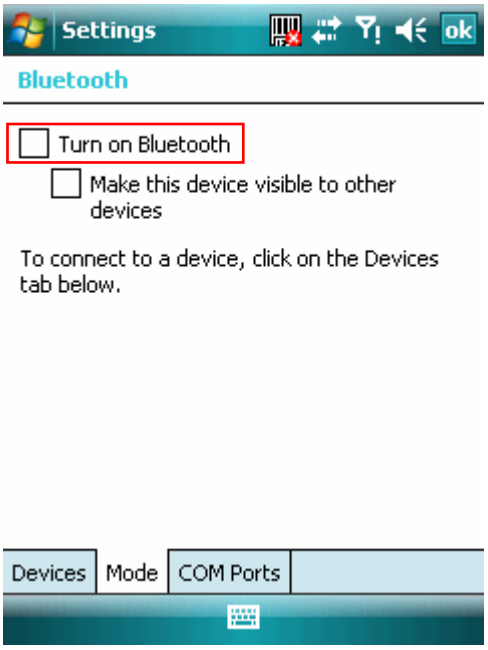
1. **On**. Bluetooth is turned on and you can use Bluetooth features.
2. **Off**. Bluetooth is turned off. In this mode, you can neither send nor receive information using Bluetooth. You might want to turn off the radio at times to conserve battery power, or in situations where radio use is prohibited, such as onboard an aircraft and in hospitals.
3. **Visible**. Bluetooth is turned on, and all other Bluetooth-enabled devices within a range of 10 meters can detect your phone.

By default, Bluetooth is turned off. If you turn it on, and then turn off your phone, Bluetooth also turns off. When you turn on your phone again, Bluetooth automatically turns on.

Turning Bluetooth On or Off

1. Tap > **Settings** > **Connections** tab> **Bluetooth**.

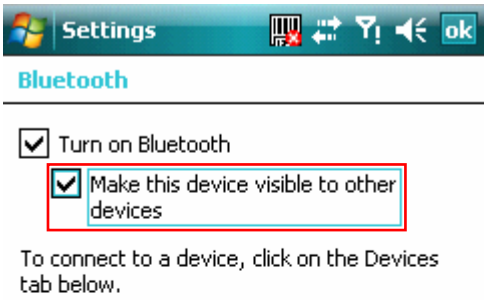
2. Tap **Mode** tab, check or uncheck the checkbox in front of **Turn on Bluetooth** to turn on or off Bluetooth.



Making Your Device Visible

To receive beamed information, beaming devices or computers must be able to detect your device.

1. Tap > **Settings** > **Connections** tab > **Bluetooth**.
2. Select **Make this device visible to other devices**, and tap ok.



Other Bluetooth-enabled devices can now detect your phone and attempt to beam information to it, establish a Bluetooth partnership, or use a Bluetooth service.

Selecting **Make this device Visible to other devices** also turns on Bluetooth.

Turning off Bluetooth will make your device not visible, and it will also prevent you from sending a Bluetooth beam.

5.2 Bluetooth Partnership (Bonding)

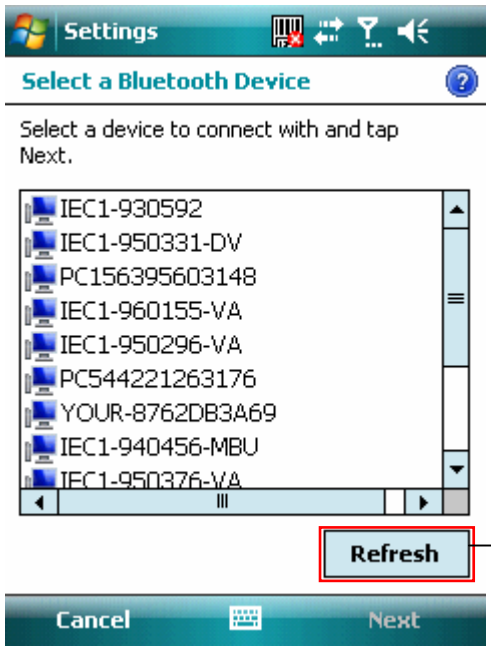
A Bluetooth partnership is a relationship that you create between your phone and another Bluetooth-enabled device in order to exchange information in a secure manner. Creating a partnership between two devices involves entering the same personal identification number (PIN) on both devices, and this is a one-time process. Once a partnership is created, the devices can recognize the partnership and exchange information without entering a PIN again. Make sure the two devices are within a range of 10 meters, and Bluetooth is turned on and in discoverable mode.

Creating a Bluetooth Partnership

1. Tap > **Settings** > **Connections** tab> **Bluetooth** > **Devices** tab.

2. Tap **Add new device**. Your device searches for other Bluetooth-enabled devices and displays them in the list.

3. Select the device with which you want to create a Bluetooth partnership, and tap **Next**.



Tap the **Refresh** button if the device you want to connect is not listed.

4. In **Passcode**, if you want to use a passcode (recommended for enhanced security), enter an alphanumeric passcode between 1 and 16 characters, and tap **Next**. Otherwise, leave the passcode blank.

5. Enter the same passcode on the other device.
6. Select the service to use from the device, and tap **Finish**.

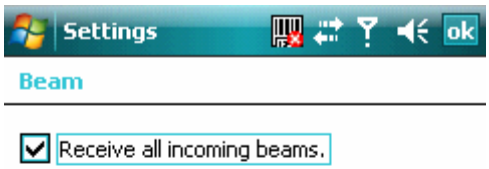
Once you create a partnership, the Bluetooth-enabled devices don't need to be visible to beam information between them; Bluetooth needs only to be turned on.

5.3 Beaming Information (Bluetooth)

Receiving Beamed Information

1. Tap > **Settings** > **Connections** tab > **Beam**.

2. Select **Receive all incoming beams**.



3. To receive beams by using Bluetooth, ensure Bluetooth is turned on and that your phone is discoverable and within close range.
4. Tap ok.

Once you select Receive incoming beams, your phone automatically receives beams until you clear this check box.

Your phone can receive all types of beamed files, but you may not be able to view all types of files on the phone. You may need to copy some files to a PC for viewing.

Beaming an Item

In the Calendar, Contacts, Notes, Tasks, and Pictures programs, you can beam files and information to other devices using Bluetooth.

1. From the program, select the item you want to beam, such as an appointment in Calendar, a task in Tasks, a contact card in Contacts, a picture in Pictures, a file in File Explorer. In Calendar, for example, first open the appointment in Agenda view.
2. Tap **Menu** > **Beam**.
3. Your device will search and show visible devices, select the device to which you want to send the item.

When using Bluetooth, if the device that you want to beam to doesn't appear in the list, ensure that the device is turned on, visible, and within close range of your phone. Also, ensure that Bluetooth is turned on.

You can obtain the Bluetooth BD Address of your device. Tap > **Settings** > **System** tab > **Device Info** > **Identity** tab.

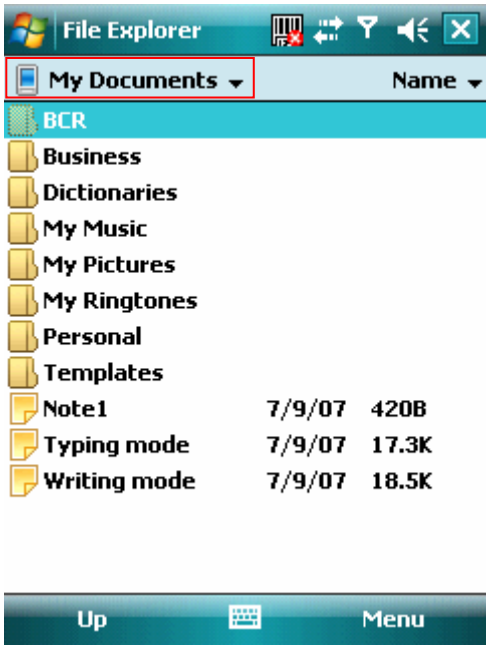
Chapter 6. Transferring Files To and From Your Device

You may need to transfer application data such as Word documents, Excel spreadsheets, PowerPoint slides, and/or media files from your PC to your device. This section describes different methods to transfer files from a PC to your device.

6.1 Using ActiveSync

To transfer files from PC to your device with ActiveSync, you must install Microsoft ActiveSync on the PC first. Please refer to Chapter 4 Synchronizing Information for detail on how to install and set up ActiveSync.

1. Connect your device to the PC with the USB cable. Microsoft ActiveSync should be automatically launched on the PC if it is set up correctly.
2. Select an information type under Synchronization Options in the Synchronization Setup Wizard by checking the checkbox in front of it.
3. Click the **Settings** button and add the files you want to transfer. Click the **OK** button when you finish.
4. Click **Next**, and then click **Finish** to start the synchronization process.
5. On your device, tap > **Programs** > **File Explorer**. The files should be saved to **My Documents**. Check to see if the files have been transferred to your device successfully.

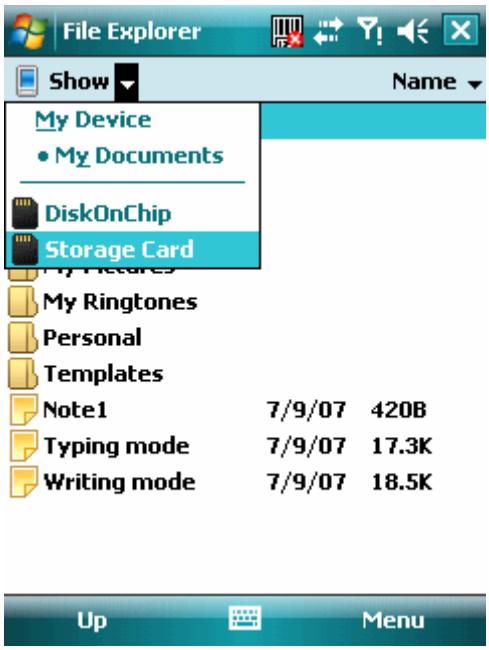


6.2 Transferring from Memory Cards

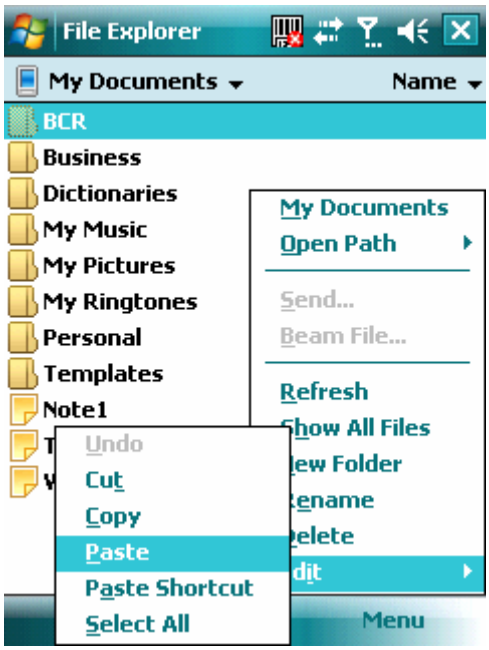
1. Insert your memory card into the device's mini-SD card slot. (See "1.5 Mini-SD

cards" for details.)

2. Tap > **Programs** > **File Explorer**.
3. In the Show list, select **Storage Card**.



4. File Explore should display all the files stored in your memory card. Tap and hold the file you want to transfer, and select **Copy**.
5. From the Show list in File Explorer, go to destination folder. (For example, **My Device** > **My Documents**.)
6. Tap **Menu** > **Edit** > **Paste**.



6.3 Using Bluetooth

Before receiving files, you must turn Bluetooth on and establish a Bluetooth partnership between your PC and your device. (See “Chapter 5. Bluetooth/Infrared Connections” for details.)

1. On your PC, locate the file you want to send using Bluetooth with Windows Explorer.
2. Right-click the file and select the device you want to transfer the file to under “Send To > Bluetooth.”
3. Tap **Yes** when your device prompts about receiving a file.
4. After the transmission process is finished, the file should be saved in your device under My Documents in the File Explorer.

6.4 Transferring to a PC or Other Devices

Please refer to Section 5.3 “Beaming Information (Bluetooth)” for details.

Chapter 7. Connecting to the Internet

7.1 Setting up Internet connections

Your device's powerful networking capabilities allow you to access the Internet or your corporate network at work through wireless and conventional connections. Specifically, you can configure your device to establish a connection via GPRS or Proxy.

With an active connection on your device, you can browse the Web, download e-mails, or use MSN Messenger. Check with your service provider to see if a connection has already been set up for you, and if over-the-air configuration is supported.

If you need to manually set up a connection, it is important that you obtain the following information from your Internet Service Provider (ISP) or the company whose intranet you are trying to access:

- User name
- Password
- Access point name (required for GPRS connection)
- Domain name (required for accessing a corporate network or an intranet)

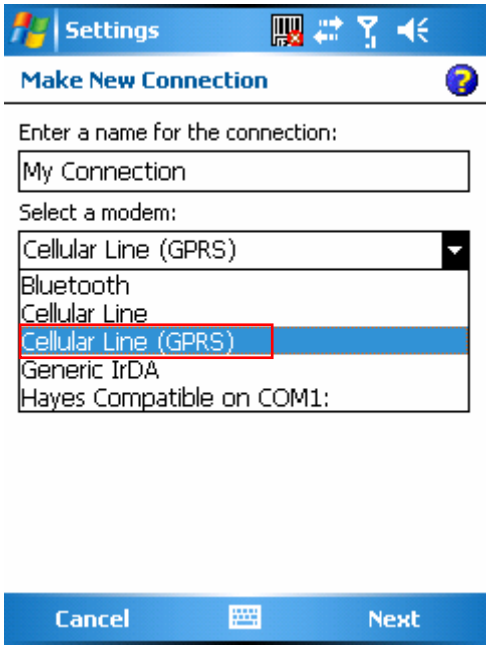
Creating a GPRS Connection

Every network connection is different. You should gather all of the relevant information or network settings you need before starting this process.

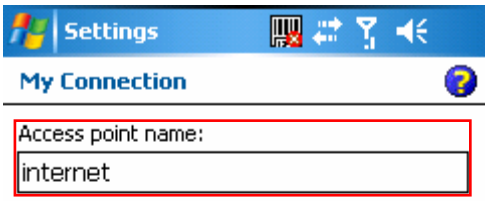
1. Tap > **Settings** > **Connections** tab > **Connections**.

2. Tap **Add a new modem connection**.

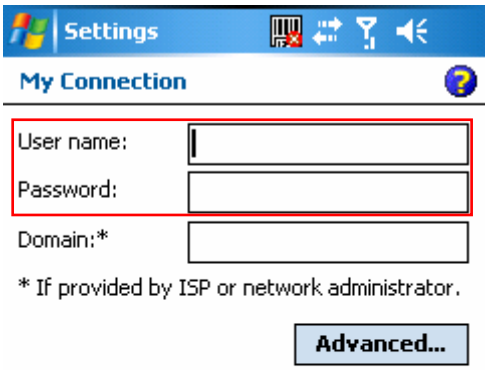
3. Enter the following information (you may or may not need to enter all of the following information), and tap **Finish**.
   - Enter a name for the connection.
   - In **Select a modem**, select **Cellular Line (GPRS)**.



   - In **Access point name**, enter the access point name.



- In **User name**, enter your user name for the GPRS network, if required.
- In **Password**, enter your password, if required.



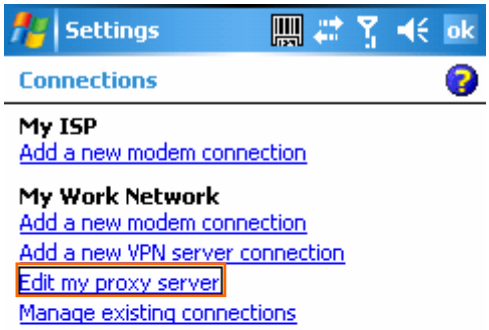
- Tap **Advanced** > **Servers** tab. In **DNS**, enter the primary Domain Name System (DNS) address, if required.
- In **Alt DNS**, enter the secondary DNS address, if required.
- Tap **TCP/IP** tab. In **Use specific IP address**, enter the Internet Protocol (IP) address for the device, if required.

The phone uses this connection when you open a program that connects to the Internet.

Creating a Proxy Connection

Every network connection is different. You should gather all of the relevant information or network settings you need before starting this process.

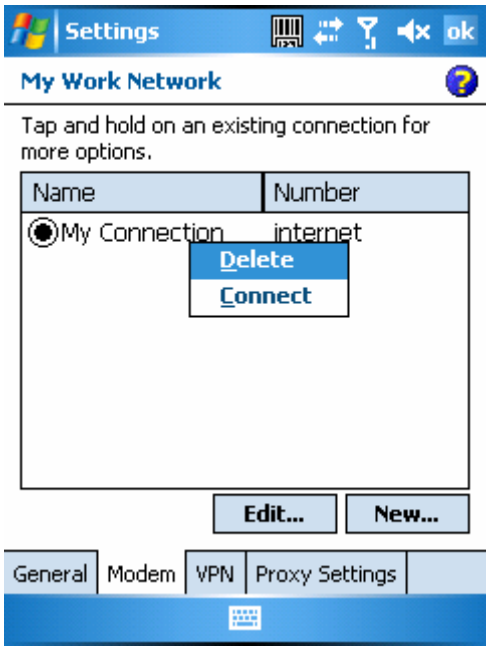
1. Tap > **Settings** > **Connections** tab > **Connections**.
2. Tap **Edit my proxy server**.



3. Check the checkbox in front of **This network connects to the Internet**.
4. Check the checkbox in front of **This network uses a proxy server to connect to the Internet**.
5. Under **Proxy server**, enter the proxy server name.
6. If the proxy server uses a different port or requires a username and password tap **Advanced**, select the proxy type to change its settings, then enter username, password and/or port number in the proper fields.
7. Tap ok.

Deleting a Connection

1. Tap > **Settings** > **Connections** tab **> connections**.
2. Tap **Manage existing connections**.
3. Tap and hold on the connection you want to delete and select **Delete**.



The device can not connect to a PC through ActiveSync while connecting to the Internet using GPRS.

7.2 Using Internet Explorer Mobile

Internet Explorer Mobile is a full-featured Web browser, optimized for use on your phone. You can use Internet Explorer Mobile to browse the Internet once you have set up your Internet connection (if you haven't done so, please read the previous chapter before continuing).

Browsing the Internet

1. To browse the Internet you must have a valid connection established.
2. Tap > **Internet Explorer**.
3. Do either of the following:
   - Enter the address in the address bar, and tap .
   - Tap **Favorites** then select a Web Page.

Adding a Web Page to the Favorite List

1. Tap > **Internet Explorer**.
2. To go to the page you want to add, tap **Menu** > **Add to Favorites**.
3. Confirm or change the name and Web page address.
4. In **Create in**, select a folder for this favorite.
5. Tap **Add**.

A quick way to add favorites to your phone is to synchronize with your PC using ActiveSync. For more information, see ActiveSync Help on your PC.

Deleting a Favorite

1. Tap > **Internet Explorer**.
2. Tap **Favorites**.
3. Tap **Add / Delete** tab.
4. Select the favorite to delete.
5. Tap the **Delete** button.
6. Tap **Yes** to confirm the deletion.

Changing the Size of Text on Web Pages

1. Tap > **Internet Explorer**.
2. Tap **Menu** > **Zoom** and select the size you want.

There are five zoom options you can select: Largest / Larger / Medium / Smaller / Smallest.

Showing or Hiding Pictures on Web Pages

1. Tap > **Internet Explorer**.
2. Tap **Menu** > **View** > **Show Pictures**.

   A check mark next to Show Pictures indicates that pictures will be displayed.

Changing Web Page Display Options

1. Tap > **Internet Explorer**.
2. Tap **Menu** > **View**.
3. Select one of the following:
   - **One Column**. Arranges the content into one column that is as wide as the screen. This means that you will rarely have to scroll horizontally.
   - **Default.** Maintains a layout similar to what you see on a desktop computer, but makes items smaller and arranges the content so that you can see most of it without having to scroll horizontally.
   - **Desktop.** Keeps the same layout and size as on a desktop computer, which will require both horizontal and vertical scrolling.

Clearing History, Cookies, or Temporary Files

1. Tap > **Internet Explorer**.
2. Tap **Menu** > **Tools** > **Options**.
3. Tap **Memory** tab.
4. Select the type of memory to clear.
5. Tap **Clear History** or **Delete Files**, then tap ok.

Viewing a Page in Full Screen Mode

1. Tap > **Internet Explorer**.
2. Do either of the following:
   - Tap **Menu** > **View** > **Full Screen**.
   - Tap and hold on the screen with stylus, and then tap **Full Screen** on the pop-up menu.

To exit full screen mode, press either SOFT KEY, and then tap **Menu** > **View** > **Full Screen** to cancel the selection.

7.3 Using Wireless Manager

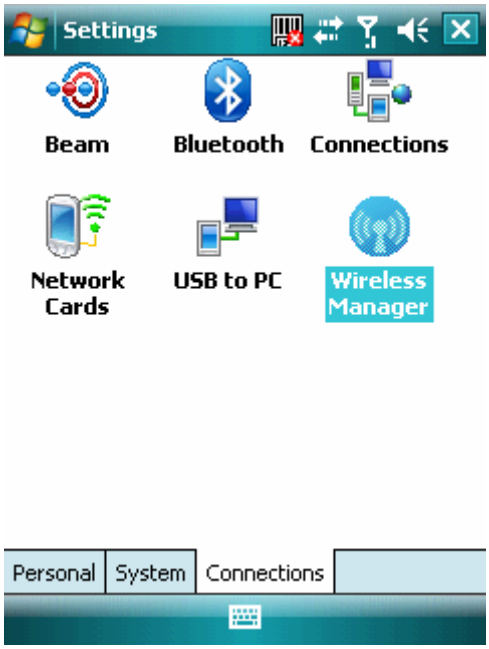
Wireless Manager is a program that allows you to conveniently turn on or off the various wireless connections on the Windows Mobile-based device, including cellular phone, Bluetooth and Wi-Fi.

Opening Wireless Manager

To open the Wireless Manager, do one of the following:

- Tap icon on the screen to open the Wireless Manager directly.
- Tap the signal strength icon ( ) at the top of the screen, and tap **Wireless Manager**.

- Tap > **Settings** > **Connections** tab > **Wireless Manager**.



Enabling and Disabling a Feature

There are three buttons in the Wireless Manager; each of them represents one certain feature. You can simply tap a button to activate its corresponding feature.

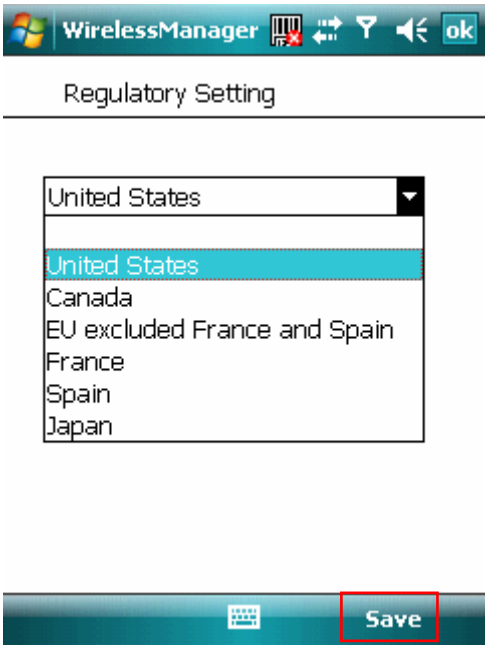
- Tap the first button to toggle between enabling or disabling the **phone**.
- Tap the second button to toggle between turning on or off **Bluetooth**.
- Tap the third button to toggle between turning on or off **Wi-Fi**.

Changing Regulatory Setting

The regulations for the frequency, channel and power of Wi-Fi and Bluetooth are varied in different regions. You can adapt a country's telecommunications regulatory settings while you use your device to access wireless networks in the country.

1. Open Wireless Manager and then tap **Settings** > **Regulatory**.

2. Select a country/region in which you use this device. Tap **Save** to confirm the setting.



Wi-Fi and Bluetooth can not be turned on if the Regulatory Setting is blank.

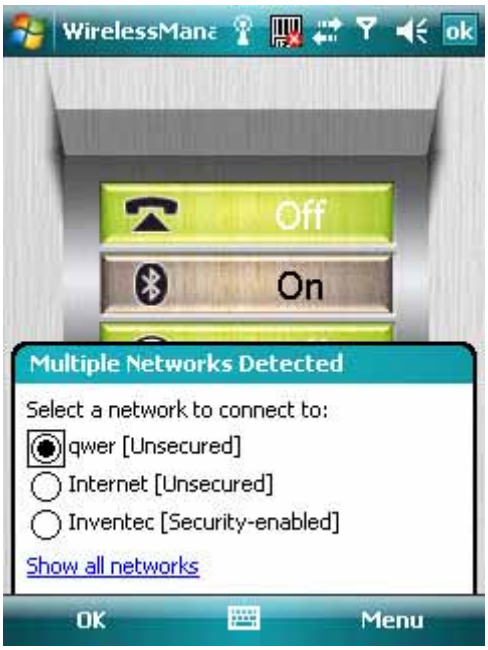
7.4 Using Wi-Fi Connection

Wi-Fi is an enabling technology that allows you to quickly access e-mail, the internet, and broadband multimedia content. When your device encounters a hotspot (a place where you can access Wi-Fi networks), it can then connect to that network wirelessly. While some hotspots are free, the most robust public Wi-Fi networks are provided by private internet service providers (ISPs) that charge a fee for users to connect to the internet.

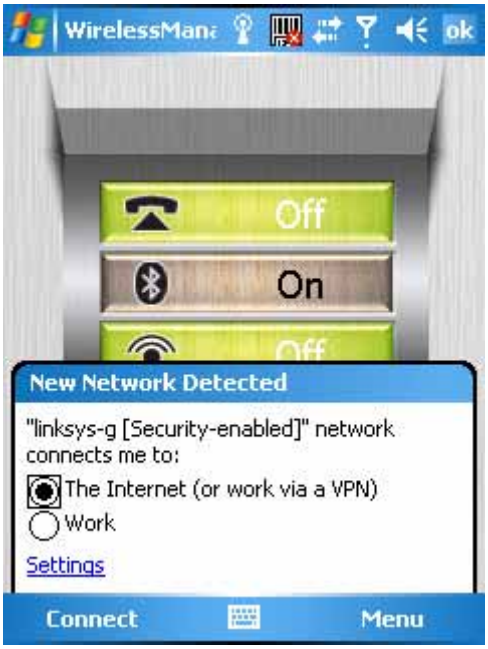
Connecting to a Wi-Fi Network

1. Tap > **Settings** > **Connections** tab > **Wireless Manager**.
2. Tap the third button to turn on Wi-Fi connection.

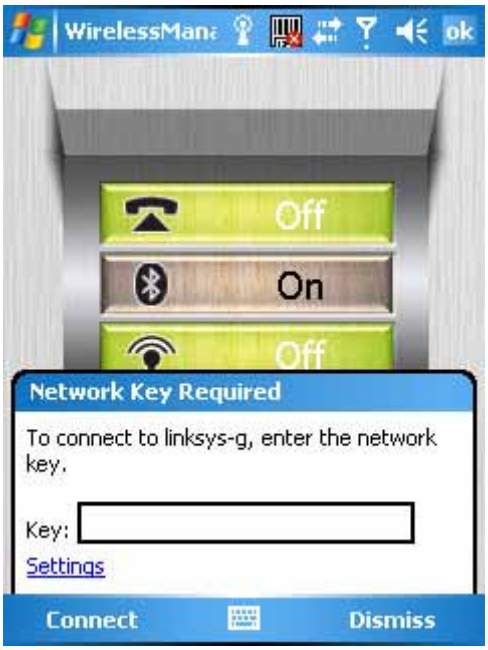
3. Available wireless networks will be detected and showed on a pop-up window. Select the desired wireless network and tap **OK**.



4. Select **The Internet** if the wireless network connects your device to the Internet; select **Work** if the wireless network connects to a private network. Then tap **Connect**.



5. Enter a network key if required. Then tap **Connect**.



6. When Wi-Fi connection is activated, the icon shows on the title bar.

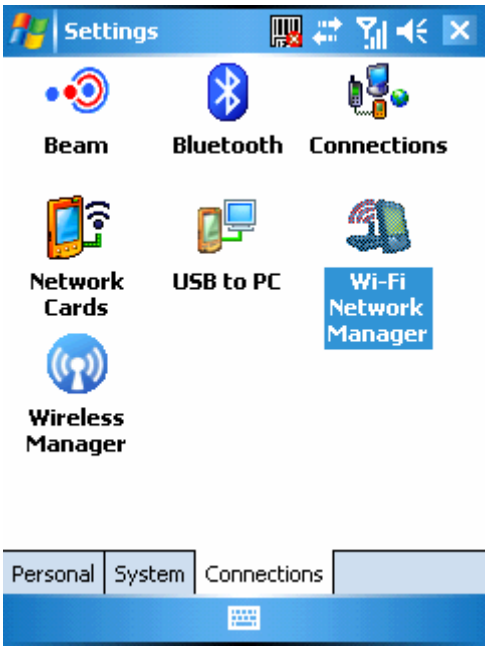
You may need to consult your ISP before you try to run this utility.

You can obtain the Wi-Fi address of your device. Tap > **Settings** > **System** tab > **Device Info** > **Identity** tab and refer to Wireless LAN MAC Address.

Checking Wi-Fi Connection

You can check the current wireless connection status via Wi-Fi Network Manager after connecting to a Wi-Fi Network.

1. Tap > **Settings** > **Connections** tab > **Wi-Fi Network Manager**.



2. In **Status** tab, you can see information of link status, SSID, Signal strength...etc.
3. In **Info** tab, you can check values of servers and IP address and renew IP if needed.
4. In **Advanced** tab, you can refer to Wireless LAN MAC address and version information.

Configuring Wi-Fi Settings

You can configure wireless networks on your device, including adding new Wi-Fi connections and editting currently available networks.

> The screen for wireless networks configure can only be accessed after a Wi-Fi network is connected.

Creating Wireless Connections

1. Open Wireless Manager and then tap **Settings** > **Wi-Fi Settings**.
2. In **Wireless** tab, tap **Add New...** on the screen.
3. Enter the **Network name** and **Network type** and then tap **Next**. If you want to connect to another device instead of a network through an access point, select **This is a device-to-device (ad-hoc) connection**.
4. Select **Authentication** type and **Data Encryption** and enter the **Network key** and **Key index** if needed. Tap **Next**.
5. Select **Use IEEE 802.1 x network access control** to use EAP (Extensible Authentication Protocol). Select **EAP type**: **PEAP** or **Smart Card or Certificate**.

6. Tap **Finish**.

Editing Wireless Networks

1. Open Wireless Manager and then tap **Settings** > **Wi-Fi Settings**.
2. In **Wireless** tab, you can see currently available wireless networks. Tab and hold the network you want to edit, and then tap **Edit** on the pop-up screen.
3. You can then select the network type and specify the network key and other required information of this wireless network.

Chapter 8. Messaging & Contacts

Messaging is the unified point of access for all message types within your device. With Messaging, you can send and receive text messages, e-mails, and MMS messages.

Contacts helps you to manage your contact information. Using Contacts you can quickly communicate with people.

This section describes the procedure on sending and receiving different kinds of messages, and using Contacts to manage addresses and phone numbers.

8.1 Text Messaging

Creating a Text Message

1. Tap > **Messaging**.
2. In the message list, tap **Menu** > **Go To** > **Text Messages**.
3. Tap **New**.
4. Enter the recipient's text message number in the **To** field. Insert a semicolon (;) between multiple text message numbers.
5. Enter your message and tap **Send**. Text messages are sent immediately.

> You can quickly enter text message numbers from your contact cards. In **To**, press ENTER and select a recipient from the list. Then, select the recipient's phone number.

Using Preset Text Messages

You can quickly insert preset or frequently used messages into your text message. While composing a message, tap **Menu** > **My Text** and select a preset message to insert.

To edit a preset message:

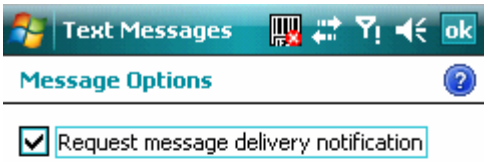
1. While composing a message, tap **Menu** > **My Text** > **Edit My Text Messages**.
2. Select a message and edit.
3. Tap ok.

Reading a Text Message

1. Tap > **Messaging**.
2. Tap **Inbox** ▼ and select Inbox under Text Messages.
3. In the message list, tap the text message you want to read.

Requesting Message Delivery Notification

1. Tap > **Messaging**, and select **Text Messages**.
2. Tap **Menu > New**.
3. Tap **Menu** > **Message Options**.
4. Select this check box to request a message delivery notification.



5. Tap ok.

8.2 E-mail

Setting Up an Internet E-mail Account Manually

Before you set up your Internet e-mail account, please ensure that you have the necessary information.

Setting	Description
User name	Usually the first part of your e-mail address, which appears before the “at” sign (@).
Password	Choose a strong password. You will have the option to save your password, so that you do not need to enter it each time you connect to your e-mail server.
Domain	The domain name. This may be required.
Server type	The type of e-mail server that hosts your mailbox (POP3 or IMAP4).
Account name	A name for this account. You must use a different name for each account that you set up.

Network	The type of network your e-mail server connects to.
Incoming mail server	The name of your e-mail server (POP3 or IMAP4).
Require SSL connection	Select this to ensure you always receive e-mail for this account using an SSL connection. This enables you to receive personal information more securely. Please note that if you select this and your ISP does not support an SSL connection, you will not be able to connect to receive e-mail.
Outgoing mail server	The name of your outgoing e-mail server (SMTP).
Outgoing server requires authentication	Your outgoing e-mail server (SMTP) may require authentication. Note: Your user name and password from above will be used.
Outgoing server settings	Your outgoing e-mail server may require different authentication settings than your incoming e-mail server.
Use different user name for outgoing server	A check box that lets you enter separate settings for your outgoing e-mail server.
User name	Your user name for the outgoing e-mail server.
Password	Your password for the outgoing e-mail server.
Domain	The domain name of the outgoing e-mail server.
Require SSL connection (Outgoing mail server only)	A connection that enables you to send personal information more securely. Note that if you select this and your ISP does not support an SSL connection, you will not be able to send e-mail.

Now you are ready to set up your account:

1. Tap > **Messaging**.
2. Tap **Menu** > **Tools** > **New Account**.
3. Select your e-mail provider then tap **Next**.
4. Enter your e-mail address and tap **Next**.
5. On the **Auto configuration** setup page, tap **Next**. Auto configuration attempts to obtain necessary e-mail server settings from your service provider.
6. If auto configuration was successful, the **Your name** and **User name** are automatically filled out for you. Tap **Next** and then tap **Finish** to complete the account setup. If auto configuration was not successful, enter information above appropriate until setup is complete.

Enter a name that you want to display when you send e-mail in the **Your name** field.

If you save your password and then lose your phone, someone finding your phone might be able to gain access to your e-mail.

Composing an E-mail Message

1. Tap > **Messaging**.
2. Select an e-mail account.
3. Tap **New**.
4. In **To**, **Cc** and/or **Bcc**, enter recipient e-mail addresses. Insert a semicolon (;) between multiple addresses.
5. In **Subject**, enter a subject.
6. Enter a message.
7. Tap **Send**. E-mail messages are stored in Outbox and are sent to recipients the next time you synchronize or connect to your e-mail server and send and receive mail.

You can quickly enter e-mail addresses from your contact cards. In **To**, press ENTER and select a recipient from the list. Then, select the recipient's e-mail address.

Reading an E-mail Message

1. Tap > **Messaging**.
2. Tap **Inbox▼** and select an Inbox under an e-mail account.
3. In the message list, tap the e-mail message you want to read.

Message Options

1. Tap > **Messaging**, and select an e-mail account.
2. Tap **New**.
3. Tap **Menu** > **Message Options**.
4. Select the type of options to change.
5. Tap ok.

8.3 Changing Messaging Account Options

1. Tap > **Messaging**, and select the Messaging account you want to change options for.
2. Tap **Menu** > **Tools** > **Options**.
3. Select the type of options to change.
4. Tap .

8.4 Using Contacts

Contacts is your address book and information storage for the people and businesses you communicate with. It stores phone numbers, e-mail addresses, home addresses, and any other information that relates to a contact, such as a birthday or an anniversary date. You can also add a picture or assign a ring tone to a contact.

From the contact list, you can quickly communicate with people. Click a contact in the list for a summary of contact information. From there, you can call or send a message.

If you use Outlook on your PC, you can synchronize contacts between your phone and PC.

Creating a New Contact

1. Tap > **Contacts** > **New**.
2. Enter information for the new contact.
3. Tap .

If someone who isn't in your list of contacts calls you or sends you a message, you can create a contact from Call History or from the message by tapping **Menu** > **Save to Contacts**.

To save an existing contact to your SIM, open the contact and tap **Menu** > **Save to SIM**.

Viewing and Editing Contact Information

1. Tap > **Contacts**.
2. Tap the contact whose information you want to view.
3. To edit the information, tap **Menu** > **Edit**.
4. When finished making changes, tap .

Adding a Picture to a Contact

1. Tap > **Contacts**.
2. Tap the contact you want to add a picture to.
3. Tap **Menu** > **Edit**.
4. Tap **Picture**.
5. Tap the picture you want to add.

Assigning a Ring Tone to a Contact

To easily identify who is calling you by the ring tone, you can assign a custom ring tone to each contact.

1. Tap > **Contacts**.
2. Tap the contact you want to assign a ring tone to.
3. Tap **Menu** > **Edit**.
4. Tap **Ring tone** and select the ring tone you want.
5. Tap .

Finding a Contact

1. Tap > **Contacts**.
2. Begin entering the name or phone number of the contact until the contact is displayed.

Sending an E-mail to a Contact

1. Tap > **Contacts**.
2. Tap the contact you want to send an e-mail to.
3. Tap the e-mail address.
4. Select the e-mail account to use.
5. Enter a subject, compose your message, and then tap **Send**.

Sending a Text Message to a Contact

1. Tap > **Contacts**.
2. Tap the contact you want to send a text message to, and tap **Menu** > **Send Text Message**.
3. Compose your message, and tap **Send**.

Creating a SIM Contact

Contacts can be created and stored on a subscriber identity module (SIM.) If you move the SIM

to another phone, your SIM contacts are moved as well.

1. Tap > **Contacts**.
2. Tap **Menu** > **New SIM Contact**.
3. Enter the name and phone number of the contact and tap .

SIM contacts appear at the bottom of the contacts listed in alphabetical order.

Chapter 9. Using Barcode Reader

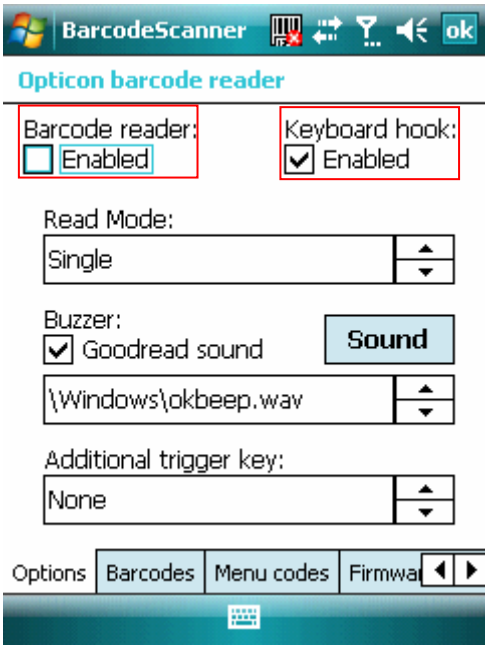
In the top of your device, a reader for barcode/2D code reading and decoding is built in, with which various types of barcode/2D code labels are decoded into readable information such as letters and numbers. Settings of barcode/2D code reader can be changed to fit your specific requests.

9.1 Setting Barcode Reader

Changing Options in Barcode Reader

Barcode reader is set to be disabled by default, please remember to activate it before scanning.

1. Tap > **Settings** > **System** tab > **Barcode settings** > **Options** tab. Check the check box of **Barcode reader** or/and **Keyboard hook**.

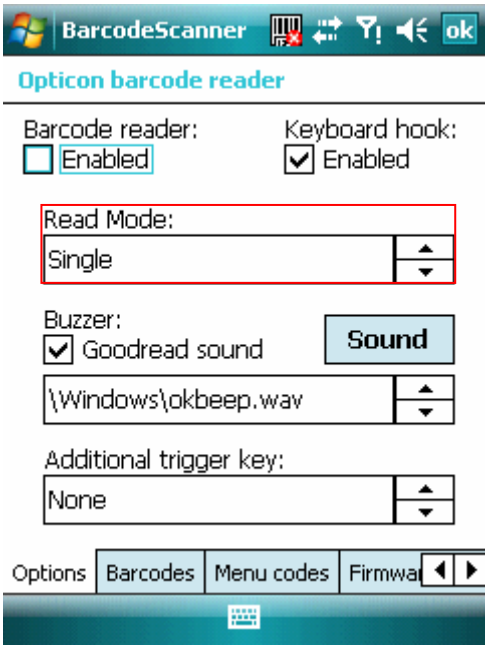


When Keyboard hook is enabled, data is received as key message; when Keyboard hook is disabled, data is stored in the memory buffer temporarily. To retrieve the data, use specific software development kit (SDK) and compatible Windows application program interfaces (APIs). You can download the SDK from http://www.opticon.com.

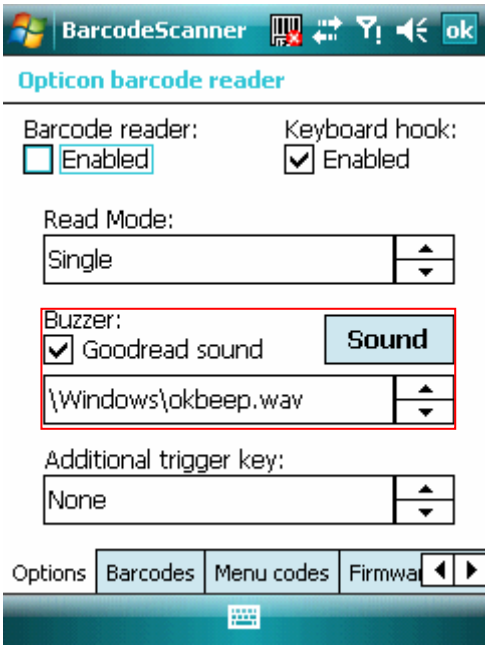
Keyboard hook can convert received characters to keyboard messages; therefore, you can read barcode in applications such as Notes, Tasks, Excel Mobile and Word Mobile as long as you enable the keyboard hook.

2. In **Read Mode**, tap the upward/downward arrow to toggle between **Multiple** and **Single**. Multiple read mode enables reading of multiple barcodes within a specified time after on time triggering, while single read mode needs the reader to be triggered again to

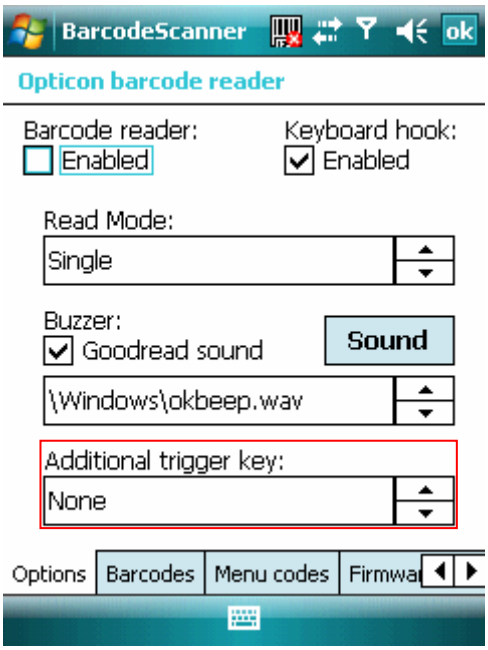
read another label.



3. In **Buzzer**, check the checkbox of **Goodread sound**. It enables the function of playing a sound effect after a barcode has been decoded successfully. You can change the sound effect by tapping the upward/downward arrow and playback the sound effect you choose by tapping the **Sound** button on the screen.



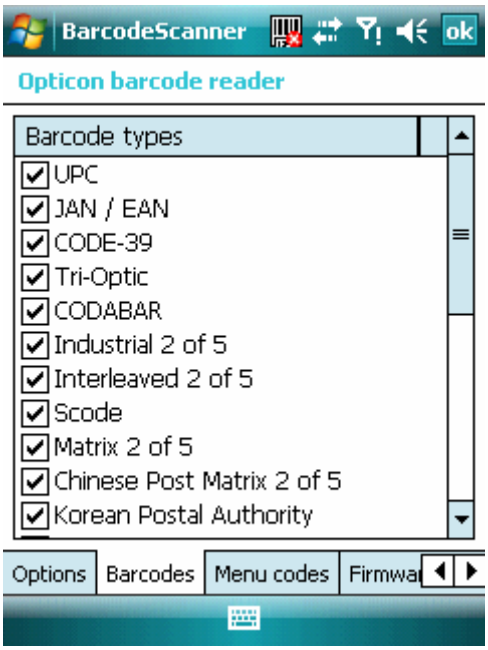
4. In **Additional trigger key**, tap the upward/downward arrow to choose another access key for the reader. Otherwise you can set the additional trigger key to be none.



Choosing Barcode Types

Your device is capable of scanning and decoding various barcode types; to check what kind of barcode is readable and to assign specific barcode types to scan for, do as follows:

1. Tap > **Settings** > **System** tab > **Barcode settings** > **Barcodes** tab.



2. Select specific barcode types or select all of them.
3. Tap ok.

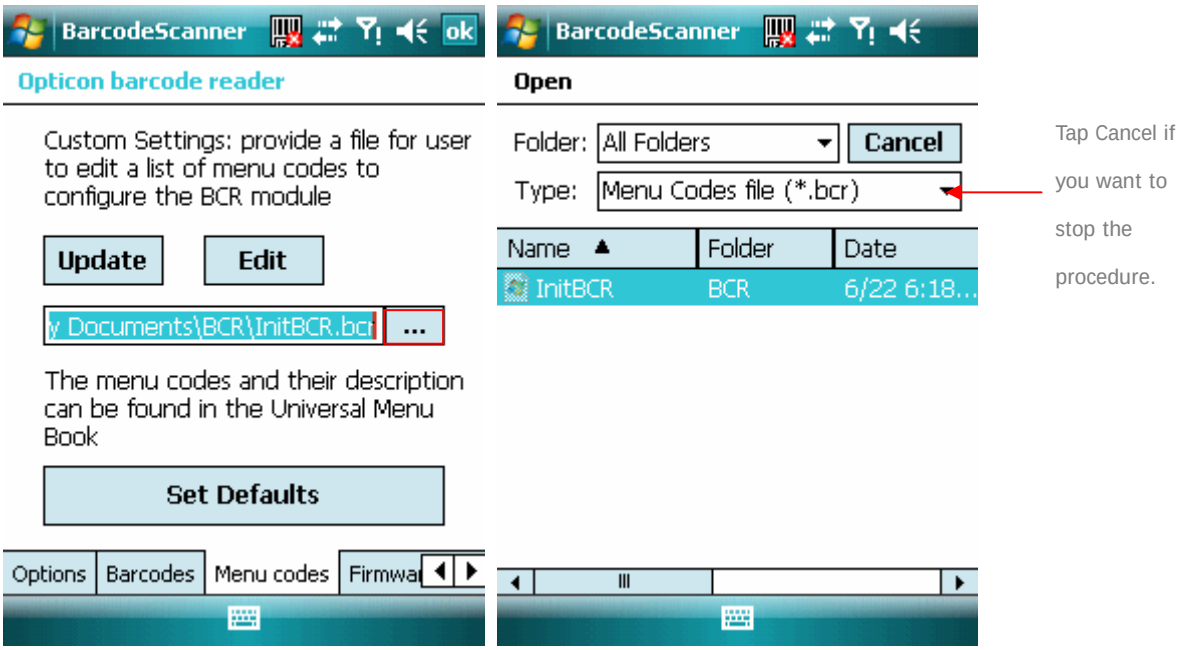
Advanced Setting

You can set specific configuration to your barcode reader by editing a list of codes in the menu codes file. The codes you input will be stored in the menu code file and replace default settings. For descriptions of menu codes, refer to Universal Menu Book (you can download it from www.opticon.com). Please note that supported menu codes depend on the module type or the firmware version of your device.

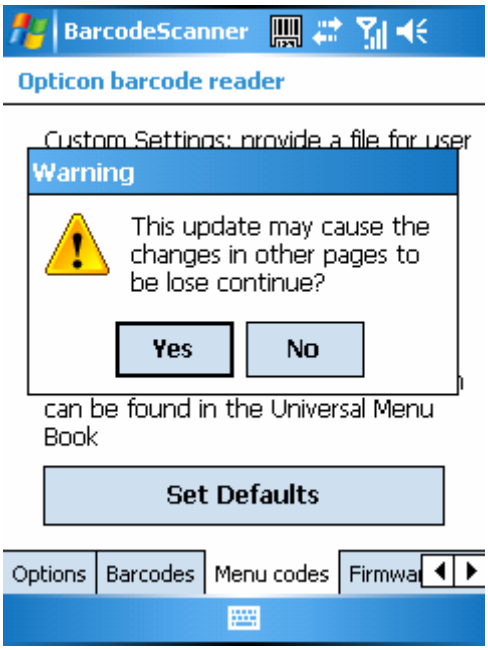
Inputting Menu Codes from a File

You can input menu codes automatically from a file, please do as follow to access the file and configure the barcode reader.

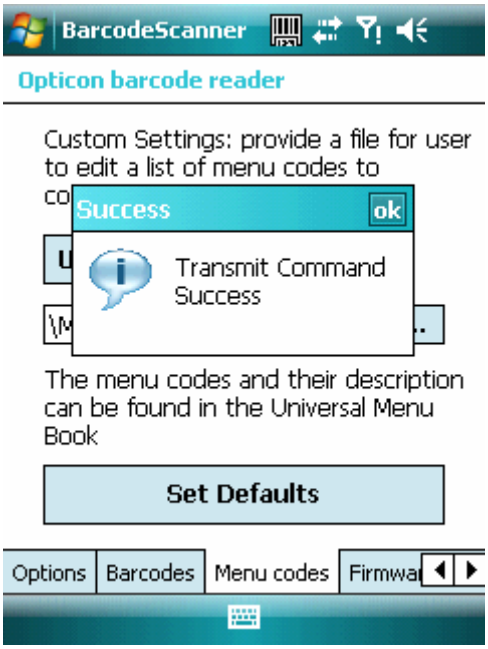
1. Tap > **Settings** > **System** tab > **Barcode settings** > **Menu codes** tab.
2. Tap ... to view available files in your device.



3. Tap Update after you select a file.
4. Tap Yes to continue.



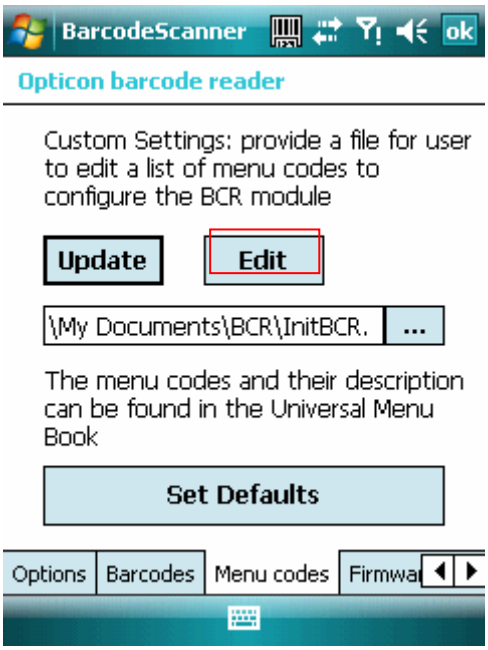
5. Tap ok.



Editing Existent Menu Codes

You can input characters directly to edit an existent menu codes file.

1. Tap > **Settings** > **System** tab > **Barcode settings** > **Menu codes** tab.
2. Tap Edit.



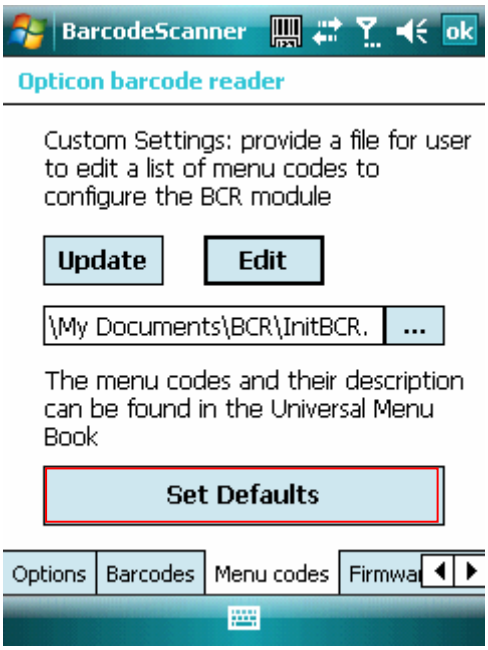
3. Input or delete menu codes.

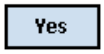
4. Tap ok.

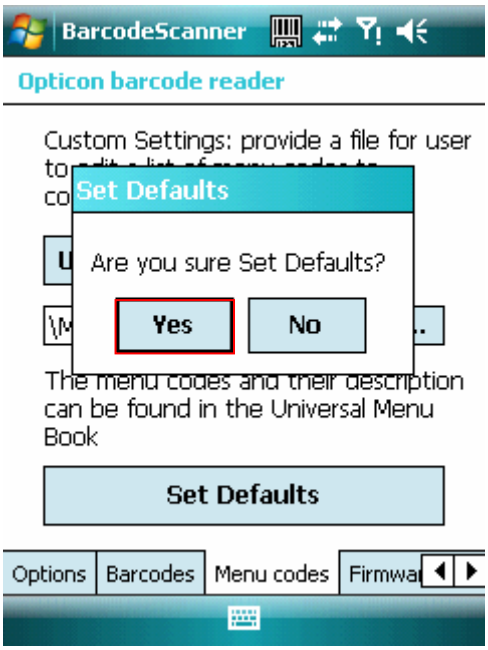
Returning to Defaults

You can cancel all personalized settings in the barcode reader.

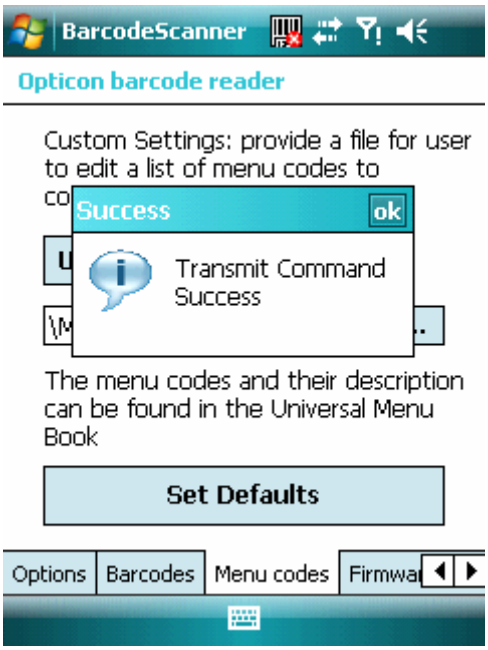
1. Tap > **Settings** > **System** tab > **Barcode settings** > **Menu codes** tab.
2. Tap Set Defaults.



3. Tap  to continue.



4. Tap .

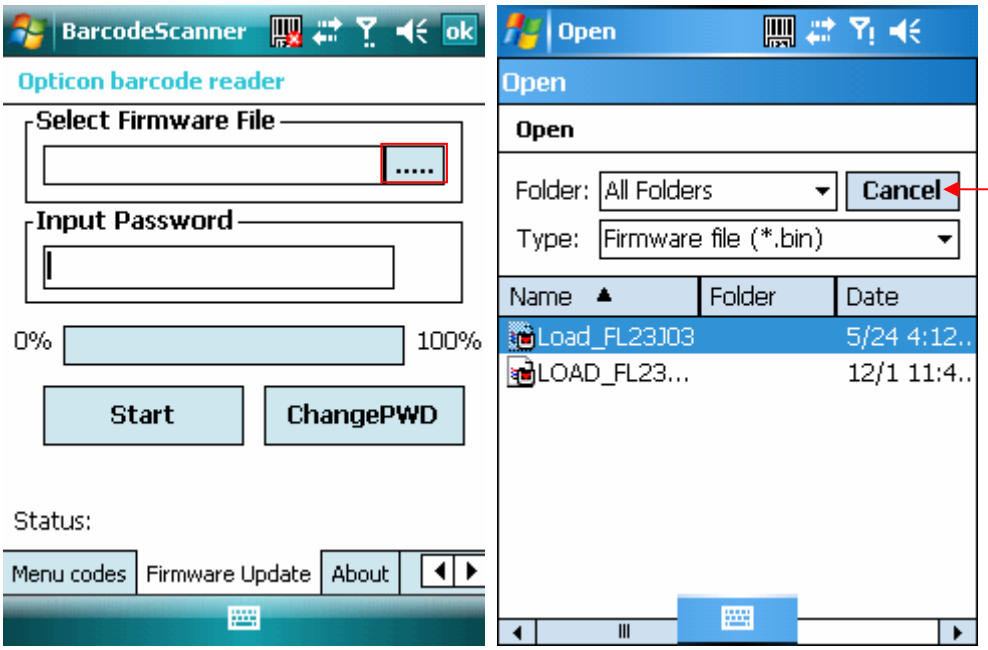


Firmware Update

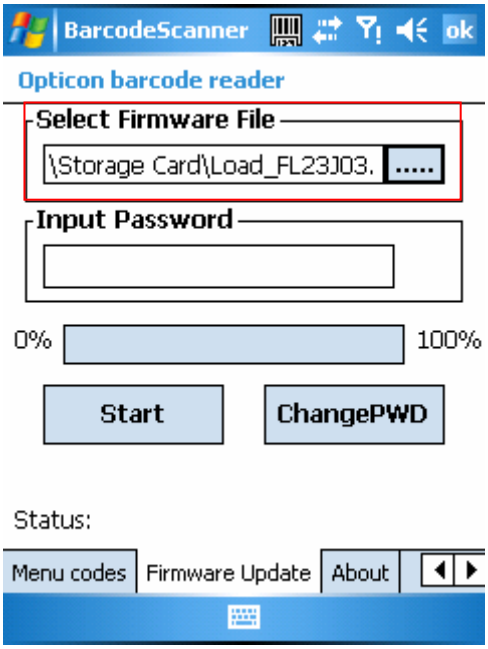
How to update the firmware of your device

You can update the firmware of barcode reader from an adapted file on your device or a Mini-SD card inserted to your device. Please connect your device with the AC adaptor before updating firmware.

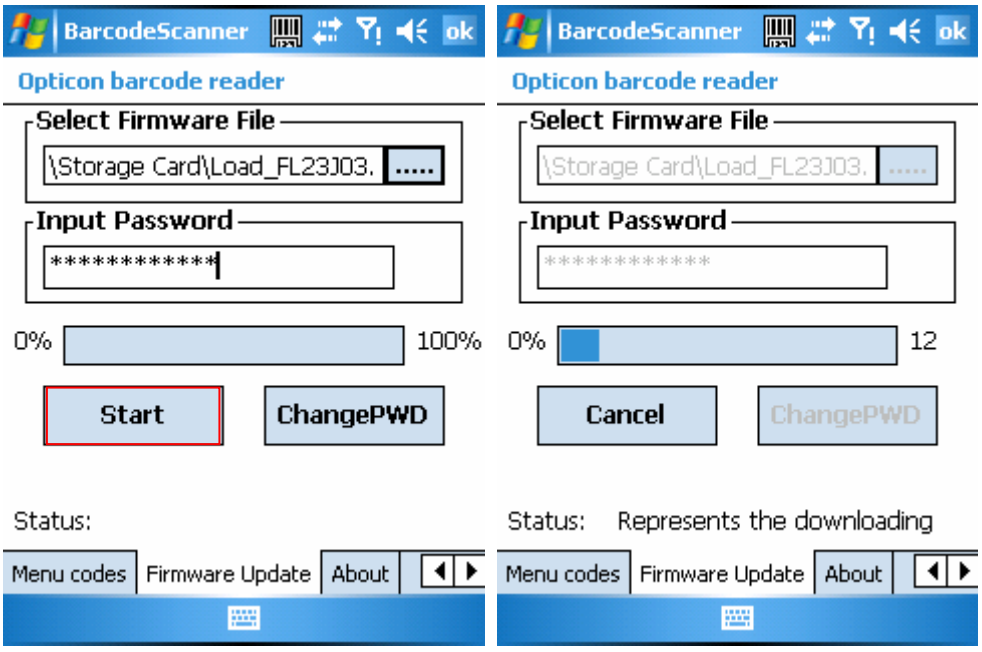
1. Tap > **Settings** > **System** tab > **Barcode setting** > **Firmware Update** tab.
2. Tap ... to view available files and select one of them.



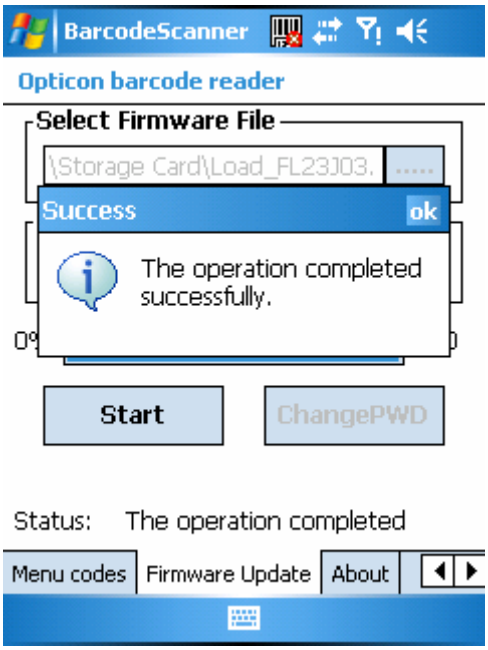
3. Tap the file you want to update the firmware from. The selected file will be showed on the screen then.



4. Input the default password “1234567890AB” and tap Start. You can then see current completed percentage of the update to be displayed on the screen.



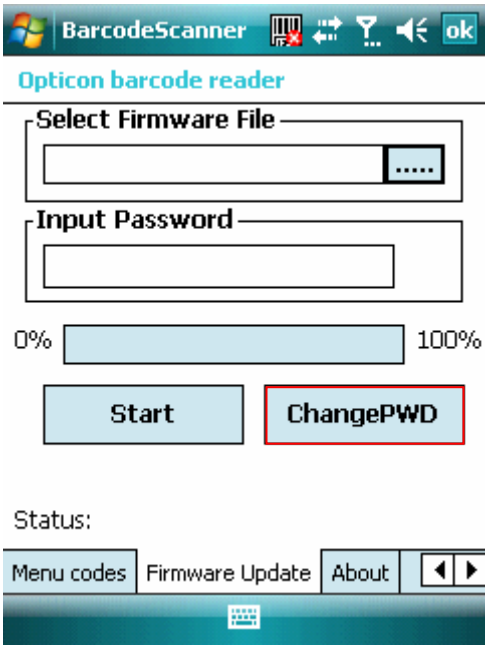
5. Tap ok to complete the operation.



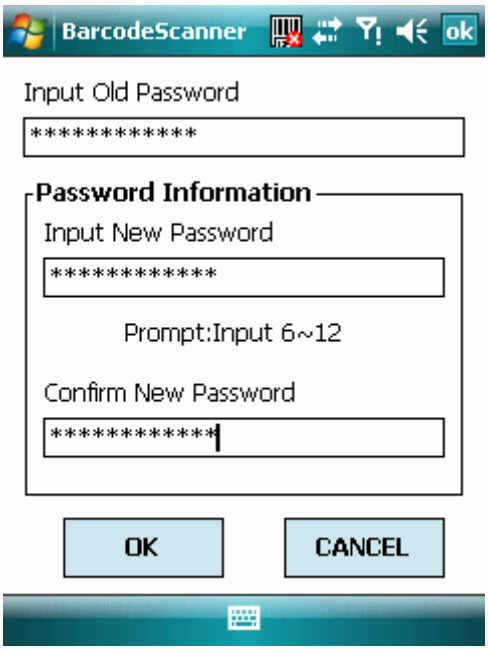
Change Password

You can change the default password of firmware update to another one.

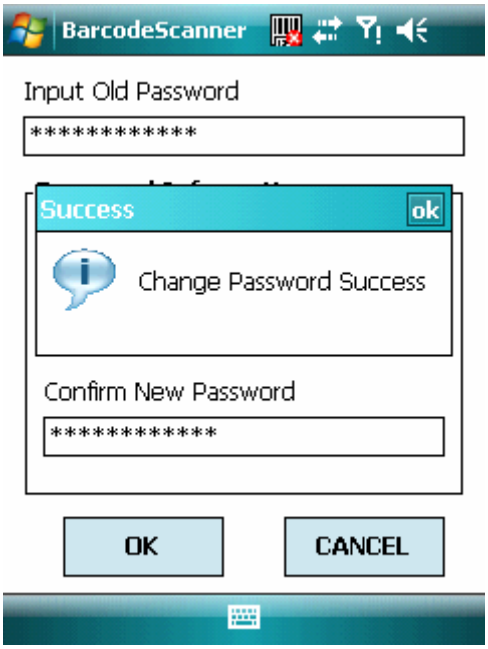
1. Tap > **Settings** > **System** tab > **Barcode setting** > **Firmware Update** tab.
2. Tap ChangePWD.



3. Input old password first. In **Password Information**, input your new password in both of the boxes in sequence for double confirmation. Then tap OK.



4. Tap ok to complete the procedure.



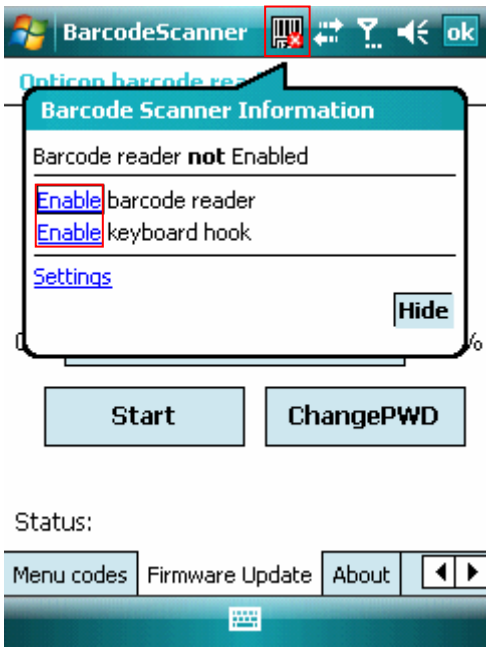
You can see more information about the barcode reader such as scanner version, please tap > **Settings** > **System** tab > **Barcode settings** > **About** tab.

9.2 Scanning and Reading Barcode labels

Your device can scan and decode barcode labels depending on the scanner equipped with your

device. If you prefer to read a barcode on your device right after scanning, open an application in which letters and numbers can be displayed before you activate the barcode reader.

1. Open an application, e.g. Notes, Tasks and Contacts, in which you want to display converted barcode information after scanning.
2. Do one of the following to enable barcode reader and keyboard hook:
   - Tap > **Settings** > **System** tab > **Barcode settings** > **Options** tab. Then check the checkboxes of Barcode reader and Keyboard hook.
   - Tap icon on the screen and tap Enable in the dialog box to active barcode reader and keyboard hook directly.



3. Point the barcode reader to a barcode label and press the scan key (left scan key, right scan key or the assigned trigger key).
4. Adjust the distance between your device and the label, and make sure the light emitted from the scanner exceeds the width of the label.

5. A Goodread Sound plays and the content of the barcode shows when the label is decoded successfully.

Chapter 10. Other Applications

10.1 Backup/Recover

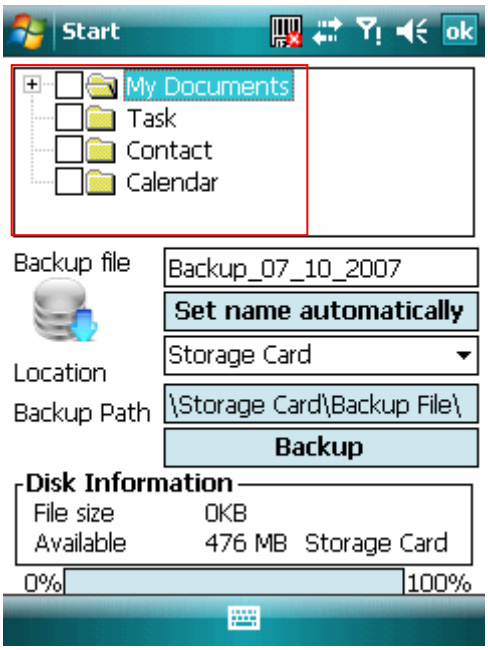
It is advisable to take backups of your device data regularly in case important data is accidentally lost or damaged. You can recover your data from those backup copies as needed. Device data can be backed up to or be recovered from DiskOnChip of your device or a compatible memory card.

DiskOnChip is flash memory device (essentially a hard disk on a chip) which locates in an independent area of OS. DiskOnChip keeps the data even after a factory reset.

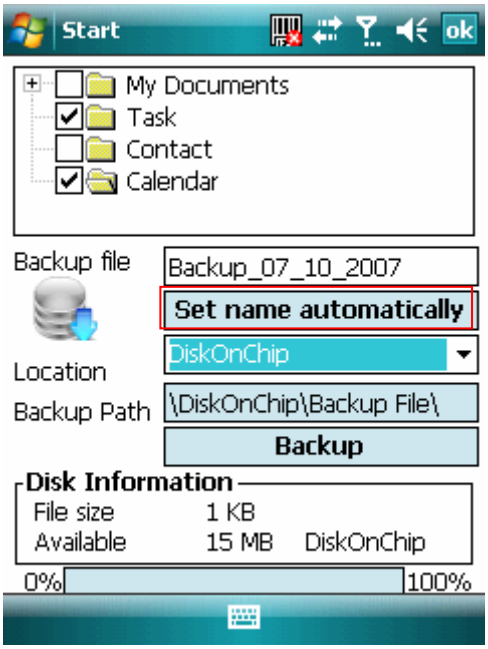
Backup data

1. Tap > **Programs** > **Backup Manager**.
2. Tap the **Backup** button.

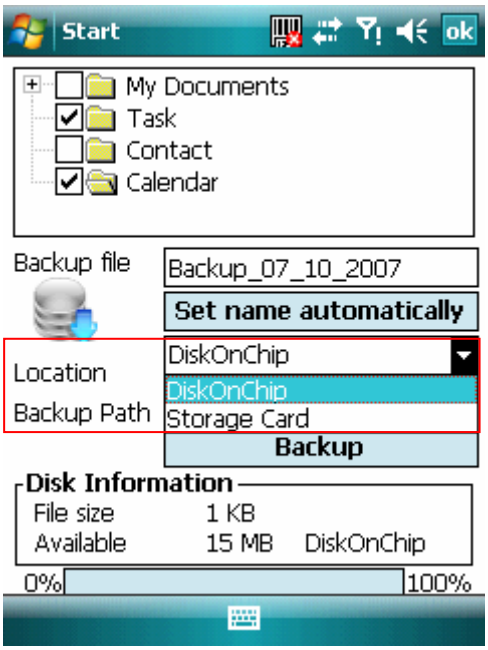
3. Select the check box(es) of the item(s) that you want to backup.



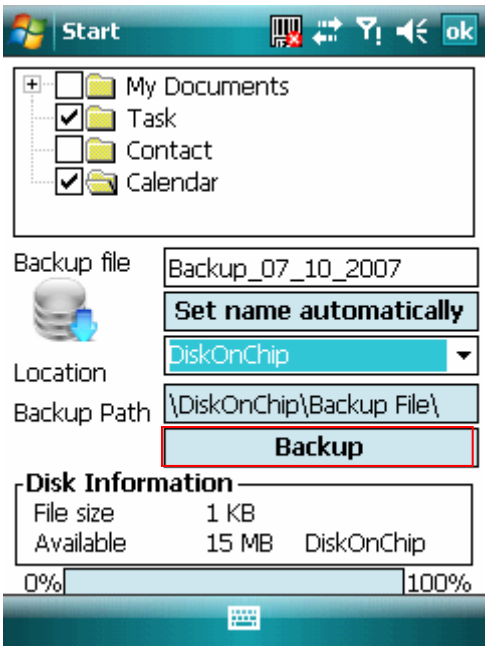
4. Input a file name for the backup copy. To name it automatically, tap **Set name automatically**.



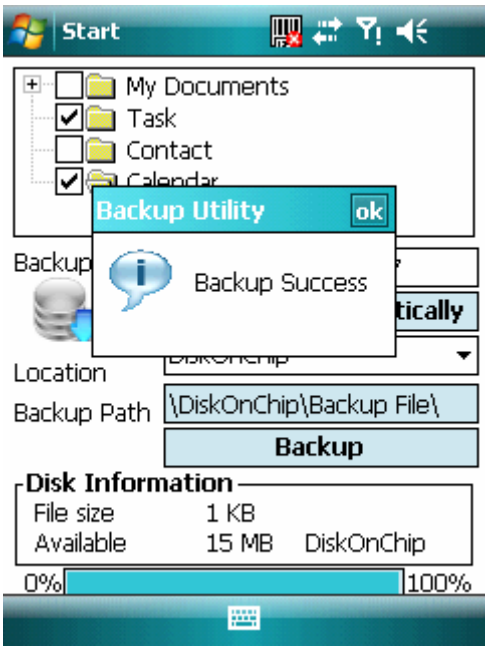
5. Select a destination for storing the backup copy: Storage Card or DiskOnChip.



6. Tap the **Backup** Button.



7. tap ok.

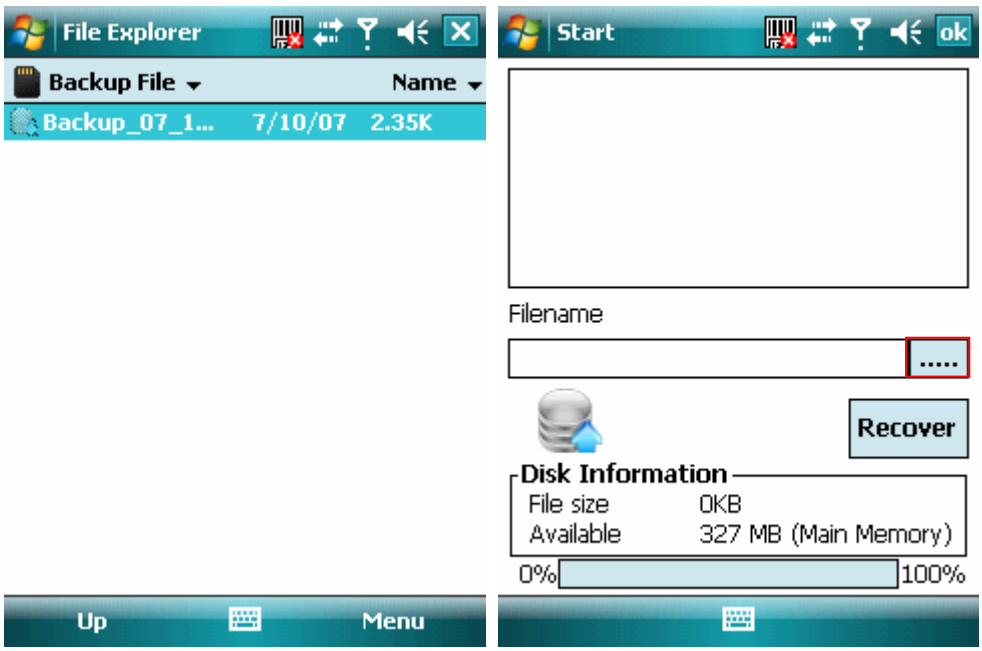


Recover data

1. Tap > **Programs** > **Backup Manager**.
2. Tap the **Recover** button.

3. Do one of the following to select a file:
   - Tap > **Program** > **File Explorer** > **Backup File** folder and select a file. Please note the Backup File may be located under My Documents, DiskOnChip or Storage card. It depends on the backup path you had chosen.

- Tap ..... on the screen to view available files. You can then select one of them.



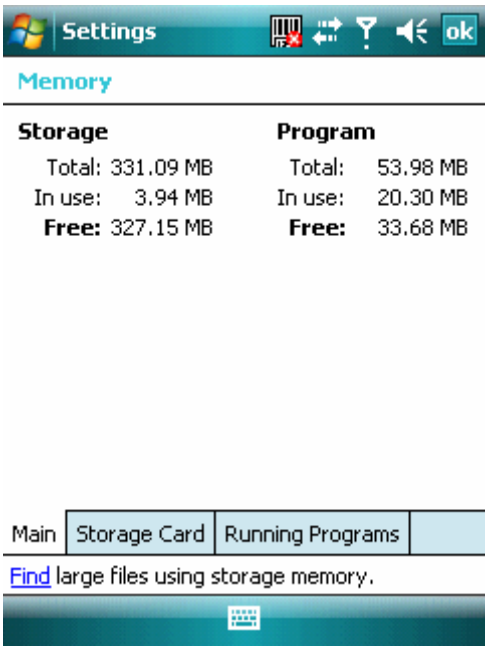
4. Tap the **Recover** Button.
5. tap ok.

> Only items that have already been backed up can be recovered from their backup copies.
>
> Installed applications will not be backed up.

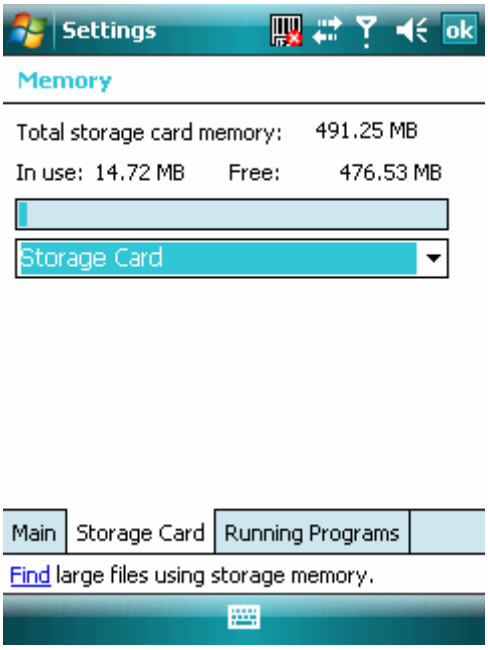
10.2 Managing Memory

Checking Available Storage

1. Tap > **Settings** > **System** tab > **Memory**.
2. In **Main** tab, you can see how much storage is available on the main memory of your device.



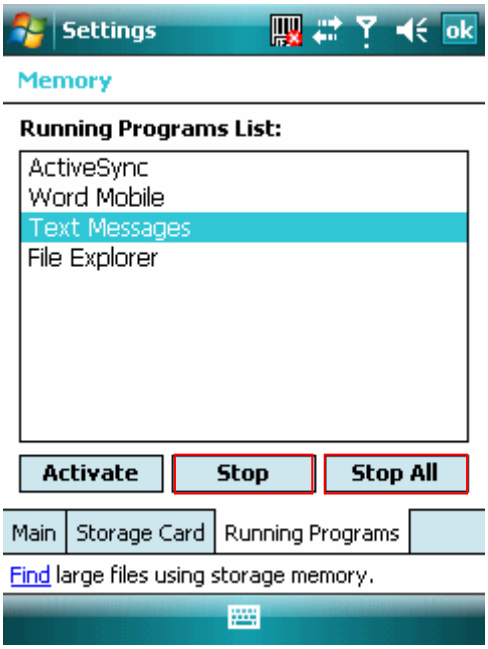
3. To see how much storage is available on your storage cards, tap **Storage Card** tab.
4. Use the drop-down menu to select your available storage cards and view their available memory.



Closing a Running Program

1. Tap > **Settings** > **System** tab > **Memory** > **Running Programs** tab.

2. In **Running Program List**, select a program. You can tap **Stop** on the screen to close the program or tap **Stop All** to close all programs.



Appendix

A.1 Regulatory Notices

European Union Notice

Product with CE marking comply with the R&TTE Directive (99/5/EC), the EMC Directive (89/336/EEC), and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in parentheses are the equivalent international standards).

- ETSI EN 301 481-1
  Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
- ETSI EN 300 328
  Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques.
- EN 50360:2001
  Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300MHz – 3GHz)
- ETSI EN 301 489-7
  Eletromagnetic compatibility and Radio spectrum matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS).
- ETSI EN 301 489-17
  Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.
- EN 60950-1 (IEC 60950-1)
  Safety of information Technology Equipment.
- ETSI EN 301 511
  Global system for mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands, covering essential requirements of article 3.2 of the R&TT directive (1995/5/EC).

Federal Communications Commission Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee does cause harmful interference to radio or TV reception, which can be determined by turning the equipment on and off, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure Information (SAR)

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

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

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

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/ea after searching on FCC ID: UFOBC0164AAA390.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 1.5 cm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do no t use a body-worn accessory and are not holding the device at the ear, position the handset a minimum of 1.5 cm from your body when the device is switched on.

SAR Information

- 0.33 W/Kg @1g FCC (head)
- 1.16 W/Kg @1g FCC (body)
- 0.389 W/Kg @10g (CE)

Exposure to Radio Frequency (RF) Signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards previously set by both U.S. and international standards bodies:

- American National Standards Institute (ANSI) IEEE. C95.1-1992
- National Council on Radiation Protection and Measurement (NCRP). Report 86. 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Ministry of Health (Canada), Safety Code 6. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 Watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in usage. Normal conditions only ensure the radiative performance and safety of the interference. As with

other mobile radio transmitting equipment, users are advised that for satisfactory operation of the equipment and for the safety of personnel, it is recommended that no part of the human body be allowed to come too close antenna during operation of the equipment.

Warning!

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. TO REDUCE RISK OF FIRE OR BURNS, DO NOT DISASSEMBLE, CRUSH, PUNCTURE, SHORT EXTERNAL CONTACTS, EXPOSE TO TEMPERATURE ABOVE 60.C (140.F), OR DISPOSE OF IN FIRE OR WATER. REPLACE ONLY WITH SPECIFIED BATTERIES. RECYCLE OR DISPOSE OF USED BATTERIES ACCORDING TO THE LOCAL REGULATIONS OR REFERENCE GUIDE SUPPLIED WITH YOUR PRODUCT.

A.2 PC Requirement to Run ActiveSync 4.5

To connect your device to the PC, you must have Microsoft® ActiveSync® program installed on your PC. ActiveSync 4.5 is included in the Installation CD, which is compatible with the following operating systems and applications:

- Microsoft® Windows® 2000 Service Pack 4
- Microsoft® Windows® Server 2003 Service Pack 1
- Microsoft® Windows® Server 2003 IA64 Edition Service Pack 1
- Microsoft® Windows® Server 2003 x64 Edition Service Pack 1
- Microsoft® Windows® XP Professional Service Packs 1 and 2
- Microsoft® Windows® XP Home Service Packs 1 and 2
- Microsoft® Windows® XP Tablet PC Edition 2005
- Microsoft® Windows® XP Media Center Edition 2005
- Microsoft® Windows® XP Professional x64 Edition
- Microsoft® Outlook® XP and Microsoft® Outlook® 2003 messaging and collaboration clients
- Microsoft® Office XP
- Microsoft® Office 2003
- Microsoft® Internet Explorer 6.0 or later (required)
- Microsoft® Systems Management Server 2.0

A.3 Specifications

System Information

CPU	Samsung S3C2440A, 400MHz
Operating System	Windows Mobile 6.0 for Pocket PC, Phone Edition
Memory	64 MB RAM 128 MB ROM

Dimension and Weight

Dimension	135 x 62.5 x 24.5 (25.7) mm
Weight	250 g (estimated)

Key and Indication

Key	● 5-way navigation with action input ● 2 Scan key ● Volume up and down ● Power button ● Send key and End key ● Warm reset button ● Voice Record (Configurable side key) ● 2 Soft key ● Start and OK key ● 12 key keyboard ● Warm Reset
Indication	● Vibrate ● Audible ● Visual message ● LED 1: Wi-Fi (Green)/Bluetooth(Blue) ● LED 2: Low Power/Missed Call(Red)/Charging(Orange)/GSM on(Green)

Display

Type	Transflective TFT LCD with touch panel and backlight
Size/Resolution/Color	2.8", 240x320, 65K colors

Scanner/Barcode Reader

<H-16A> 1D Model	Red laser diode
	Supported Symbologies

	1D : EAN, JAN, UPC-A, UPC-E, Industrial 2 of 5, IATA, Interleaved 2 of 5, NW-7 (CODABAR), CODE-39, CODE-93, CODE-128, and so on
<H-16B> 1D/2D Model	CMOS Area Sensor
	Supported Symbologies 1D : EAN, JAN, UPC-A, UPC-E, Industrial 2 of 5, IATA, Interleaved 2 of 5, NW-7 (CODABAR), CODE-39, CODE-93, CODE-128, and so on 2D : PDF417, Micro PDF417, QR Code, Data Matrix, Maxi Code, and so on

Connectivity

Bluetooth	Bluetooth 1.2 compliant
Wi-Fi	IEEE802.11 b/g compliant
Telecom	GSM/GPRS/EDGE 850/900/1800/1900, GPRS class 10, EDGE class 10
USB	mini USB (ver.1.1 client)

External Memory Card

Card Slot	Mini-SD card slot (ver.1.0)

Battery and Power

Main Battery	Li-Ion Polymer 4.2V 1440mAh
Talk Time	4 hours
Standby Time	150 hours
Battery Charing Time	6 Hours

WEEE Notice

The Waste Electrical and Electronic Equipment (WEEE) Directive is designed to encourage and regulate the collection, reuse, recycling and recovery of waste electrical and electronic equipment, which entered into force as European law on 13th February 2003. The Directive aims to improve the level of recycling of electrical and electronic equipment (EEE) and encourages designers to develop products with recycling efficiency in mind; it also aims to improve our environment, reduce risks to human health through the proper treatment of discarded goods.

The WEEE logo ( ) on the product and its accessories or on its box indicates that this product must be disposed of or dumped with your other household wastes. You are liable to

dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will allow us to help conserving natural resources. Moreover, proper recycling of the electronic and electrical waste equipment will ensure safety of human health and environment.

For more information about electronic and electrical waste equipment disposal, recovery and collection point, please contact your local city centre, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.

RoHS Compliance

This product is in compliance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and its amendment.