Setting up a Bluetooth Hands-free/Headset connection

1. From the **Today** screen > tap **Bluetooth** icon > **Bluetooth Manager.**
2. Tap **New** > **Hands-free/Headset setup** > Tap **Next**.

   NOTE: Be sure that the **Hands-free** device you are trying to connect to is ready to receive incoming connection requests. Please refer to the device's manual for more information.
3. Follow the connection wizard instructions.

Setting up an ActiveSync via Bluetooth on your Pocket PC Phone

You can set up an **ActiveSync** partnership with a **Bluetooth-enabled** computer. First, you need to set up the **Bluetooth Configuration** of your computer (follow the instruction in the user manual of your **Bluetooth** device or PC), then setting up your Pocket PC Phone.

To establish an **ActiveSync** connection on your Pocket PC Phone:

1. From the **Today** screen > tap **Bluetooth** icon > **Bluetooth Manager.**
2. Tap **New** > **ActiveSync via Bluetooth** > **Next**.
3. Follow the connection wizard instructions.

   Be sure the **ActiveSync COM** port setting on your PC is the same as the **COM** port setting used for **Bluetooth** on your PC.
4. Follow the **Bluetooth Browser** screen, select the PC you want to synchronize with > tap **Next**.
5. Under **Serial Port Selection** > select the name of the serial port for the PC selected above > then tap **Next** > **Finish.**

Connect to a remote PC

Dial-up Networking (DUN) allows you to connect to a remote computer via a phone line. Once connected, you can browse the Internet, check your E-mail, etc.

The remote **Bluetooth** device that will provide the **Dial-up Networking** service must have access to a telephone system (either a hard-wired or cellular connection).

Devices that might provide the **Dial-up Networking** service include:

- **Bluetooth-enabled** cellular telephones.
- **Bluetooth-enabled** desktop computers that are attached to a telephone system.
- **Bluetooth** modems.

The remote computer to which you are connecting must also be attached to the phone system and capable of answering a call.

To use **Dial-up Networking**:

1. From the **Today** screen > tap **Bluetooth** icon > **Bluetooth Manager.**
2. Tap **New** > **Connect to a network** > **Next**.

3. Follow the connection wizard instructions.

After you create the **Dial-up Networking** shortcut with a device, tap and hold the shortcut icon in the **My Shortcuts** tab of the **Bluetooth Manager**, and tap **Connect**.

4. Tap **New Connection** > Tap **OK**.
5. Enter a name for the connection in the **Connection Name** field.
6. Enter a phone number. You may need to enter the country code and area code, depending on where you are calling.
7. Tap **OK** to begin dialing.

To make this connection the default dial-up connection for **Pocket Internet Explorer** when using **Bluetooth** modem, you still need to complete the following steps:

1. From the **Today** screen, tap > **Settings** > **Connections** tab.
2. Tap the **Connections** icon > **Advanced** tab > **Select Networks**.
3. Enable **Bluetooth Settings** from the drop-down list.

Send via Bluetooth

Pocket Outlook Contacts, **Calendar** items, and **Tasks** can be sent individually or collectively to a remote device.

To send data via **Bluetooth** transfer:

1. Tap > **Programs**, then open **Calendar**, **Contacts** or **Tasks.**
2. Highlight the item(s) to be sent
3. Tap-and-hold the item(s), and in the pop-up menu, tap **Send via Bluetooth**.
4. On the **Select a Bluetooth device** screen, tap the name of the destination device, and then tap **OK**.

Bluetooth Personal Area Network

A **Bluetooth personal area network** is a private, temporary, ad-hoc network of up to eight devices. A **Bluetooth personal area network** makes it easy to exchange information that would normally require a **TCP/IP** network. For example, most chat utilities, multi-player games, etc. are fully functional in a Bluetooth personal area network environment.

Bluetooth personal area networks are subject to the same security settings that govern other **Bluetooth** communications (service availability, authorization, authentication, and encryption).

One **Bluetooth** device must be the host of the personal area network. Other **Bluetooth** devices join the network as clients. The host can accept and reject clients on an individual basis.

To host a **Personal Area Network**:

1. Select **Bluetooth Manager** > **New** > **Connect** > **Join a personal network** > **Next**.
2. On the next wizard screen, select **Host a personal network** > **Next**.
3. Add remote devices to the **Bluetooth Personal Area Network**, if desired:

- Tap the **Add** button and select the device to be added.
- Add additional devices, if desired, (up to eight total, including the host)

After all the desired devices have been added, tap **OK** to complete the setup and close the wizard. Adding devices is optional; devices do not have to be added to the **personal area network** when the **Host** is configured. Devices can join the personal area network later.

To join a **Personal Area Network**:

1. Select **Bluetooth Manager** > **New** > **Connect** > **Join a personal network** > **Next**.
2. On the next wizard screen select **Join a personal network** > **Next**.

When **Bluetooth Browser** appears, select the host of the personal area network, and then tap **Next** to establish a connection to the personal area network. If asked to enter **IP** network settings, select **Use server-assigned IP address**, and then tap **OK**.

The network host's authorization and authentication settings, and/or its **Personal Area Network** service availability may prevent you from joining the network. Any application that requires a network connection can use the **Personal Area Network** connection.

My Shortcuts

The default tab on the **Bluetooth Manager** is **My Shortcuts**. This screen displays the icons that have been created for connections to other devices. The icons provide visual feedback about the status of the connection to which they are linked.

The double-tap is context sensitive:

- If the connection is not open—double-tap its icon to establish a connection.
- If the connection is open—double-tap its icon to display the connection's status.

Connections can also be opened/closed, and other options accessed, using the tap-and-hold technique. If you tap a connection icon and hold the stylus in place for a few seconds, a context sensitive menu appears.

Active Connections

This tab displays the active **Outgoing** and **Incoming Connections** on your Pocket PC Phone.

6.7 Wireless Modem

This utility will simulate your device as a wireless modem, and let your PC/Notebook be connected to a wireless network. The software **Wireless Modem** (by tapping > **Programs** > **Wireless Modem)** allows you to select the various wireless connection types: **Serial**, **IrDA**, **USB**, or **Bluetooth**.

Connecting via Serial Port or IrDA

Before create a new modem via **IrDA** connection, you need install the software **IrCOMM2k**. **IrCOMM2k** is a driver for **Windows 2000** and **XP**. It emulates a serial port which can be used to exchange data with mobile devices. Go to ***http://www.ircomm2k.de*** to download the driver and install it on your PC by following the installation instruction provided on the web.

If you are using a **Serial port** connection, you can just start the settings on your PC and your Pocket PC Phone as described below. No additional driver needs to be installed.

Settings on your PC

Contact your **ISP** to get the **APN (Access Point Name)**. Before you start using your **Wireless Modem** with a **serial port** or **IrDA** connection, you need to create a new modem on your PC first:

1. Click **Start** > **Settings** > **Control Panel** > **Phone and Modem Options**.
2. **Add** a new modem by selecting the **Modem** tab.
3. Enable the checkbox **Don't detect my modem; I will select it from a list**.
4. Select **Standard Modem Types** in the **Manufacturers** field, select **Standard 33600 bps Modem**, then select **Next**.
5. Select your modem port and click **Next.**
6. When a **Modem installation is finished!** screen appears, click **Finish** to go back to the **Modem** tab mentioned in ***Step 2***. Now you can see a **Standard 33600 bps Modem** in the modem list.
7. Highlight the modem you just created, and then click the **Properties** button. Then select the **Advanced** tab.
8. Enter the complete string in the **Extra initialization commands:** field: **AT+CGDCONT=1,"IP","APN","",0,0**
9. Remember to click the **Change Default Preferences** button after entering the required string as mentioned above.
10. Click the **General** tab and set the **Float control** by selecting **None** from the dropdown list. Then keep pressing **OK** until the modem installation wizard exits.

A new standard modem is now set up successfully on your PC, but you still need to create a new dial-up connection:

1. Click **Start** > **Settings** > **Control Panel** > **Network and Dial-up Connections** > **Make New Connection.**
2. To continue, then tap **Next.**
3. Select **Dial-up to the Internet,** then tap **Next.**
4. Enable the option **I want to set up my Internet connection manually, or I want to connect through a local area network (LAN)** button, and then **Next.**
5. Select **I connect through a phone line and a modem** option, and then **Next.**
6. Enable the **Use area code and dialing rules** checkbox and enter the telephone number ***99#** > and then **Next**.
7. Enter the user name and password you use to log on to your ISP, and then click **Next.**
8. Enter a name for this connection > and then **Next.**
9. Select **No** when the installation wizard asks you to set up an Internet mail account, and then click **Next.**
10. After the installation is completed, click **Finish**.

Settings on your PC

You need to take further actions and notices before you start using the **Wireless Modem** on your Pocket PC Phone:

- A **GPRS SIM** card is inserted in your Pocket PC Phone.
- Disable the **ActiveSync** com port connection of your PC.
- Disable the **Infrared** function by tapping > **Settings** > **Connections** tab > **Beam** > uncheck **Receive all incoming beams.**
- Insert your Pocket PC Phone to your PC/Notebook by **Serial connection** (using the optional serial sync cable).

1. Tap > **Programs** > then tap **Wireless Modem**.
2. Select the **Serial** connection type from the drop-down list and insert the serial cable adapter.
3. Make sure that you have connected your device with a serial sync cable if you choose **Serial** connection to a notebook or PC, and then tap **Start.**

Now you can start to dial the new dial-up connection you have created by tapping **Start** > **Settings** > **Control Panel** > **Network and Dial-up Connections** on your PC.

Connecting via USB Port

As with the connection via **serial** or **IrDA**, you need to check the same things as below before you start using the **Wireless Modem** on your Pocket PC Phone via **USB** connection:

- A **GPRS SIM** card is inserted in your Pocket PC Phone.
- Disable the **ActiveSync** com port connection of your PC.

- Disable the **Infrared** function by tapping > **Settings** > **Connections** tab > **Beam**, and then uncheck **Receive all incoming beams.**
- Insert your Pocket PC Phone to your PC/Notebook by **USB connection** (using the **USB** sync cable or cradle).

Before setting up an **USB** modem, you must verify that you have the two files, **USBMDM** and **USBModem_Dialer,** on the ***Pocket PC Phone Companion CD***. Insert the ***Companion CD*** into the CD-Rom of your PC and perform the settings as follows:

1. Tap > **Programs** > **Wireless Modem**.
2. Select the **USB** connection type from the drop-down list and insert the **USB** cable adapter.
3. Tap the **Start** button on the **Wireless Modem** screen of your Pocket PC Phone.
4. A **Found New Hardware** message will pop up on your desktop PC.
5. Select the **Display a list of the known drivers for this device so that I can choose a specific driver** option, and then click **Next.**
6. Select **Modem** from the **Hardware types** list > and then **Next**.
7. Click the **Have Disk** button > and then **Next.**
8. Select the recognized **USB Modem** in the **Models** list, and then **Next**. After the installation completed, click **Finish**.
9. After the installation, a new **USB modem** will be found in the **Modem** list by tapping **Start** > **Settings** > **Control Panel** > **Phone and Modem Options** on your PC.
10. Double click the **USBModem_Dialer** file on the ***Pocket PC Phone Companion CD*** and set the **GPRS** settings (enter the **APN** assigned by your **ISP**) in the blank text box and press **Dial** to start the connection.

Connect via Bluetooth

Before starting to use your Pocket PC Phone as a **Bluetooth** modem, you must be sure that your PC is a **Bluetooth-enabled** device. Besides that, you still need to check the following:

- A **GPRS SIM** card is inserted in your Pocket PC Phone.
- Disable the **ActiveSync BT** port connection of your PC.
- Disable the **Infrared** function by tapping > **Settings** > **Connections** tab > **Beam** > uncheck **Receive all incoming beams.**

1. Select > **Programs** > **Wireless Modem**.
2. Select the **Bluetooth** connection type from the drop-down list and tap the **Start** button.
3. Open your Pocket PC Phone from the **Bluetooth** application installed on your PC.

The interface of the **Bluetooth** application installed on your PC will vary, depending on the **Bluetooth module** embedded or attached in your PC when you purchased it. Follow the installation instructions of the connected **Bluetooth** device's manual.

Chapter 7

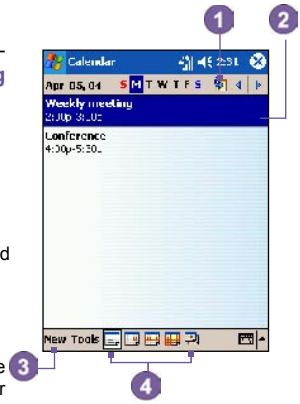
Using Microsoft Outlook

7.1 Calendar
7.2 Contacts
7.3 Tasks
7.4 Notes

7.1 Calendar

Use Calendar to schedule appointments, including meetings and other events. You can check your appointments in one of several views (**Day**, **Week, Month**, and **Agenda**) and set **Calendar** to remind you of appointments with a sound or other method. Appointments for the day can be displayed on the **Today** screen.

If you use **Outlook** on your PC, you can synchronize appointments between your Pocket PC Phone and PC. See **Using *ActiveSync*** in ***Chapter 4***.



1. Tap to go back to view today's appointment.
2. Tap to display or edit the appointment details.
3. Tap to create a new appointment.
4. Tap to change the appointments in various displayed views.

Create or change an appointment

1. To create an appointment, tap **New**. To select a new date from a pop-up calendar, tap the display date. To enter or select a new time, tap the display time. Enter the appointment details, and when finished, tap **OK** to return to the calendar.
2. If you are working in **Day** view, tap the time slot for the new appointment and then **New** to have the time automatically entered for you.
3. To change an appointment, tap it in the calendar, and then tap **Edit**. Change any appointment detail by tapping it and entering the new information.

When entering a time, you can type military and abbreviated time forms, such as 2300 (becomes 11:00 PM), 913pm (becomes 9:13 PM), 911 (becomes 9:11 AM), and 9p (becomes 9:00 PM).

Send a meeting request

You can use **Calendar** to set up meetings with users of **Outlook** or **Pocket Outlook**. The meeting request will be created automatically and sent either when you synchronize **Inbox** or when you connect to your E-mail server.

1. Create an appointment and enter the meeting information.

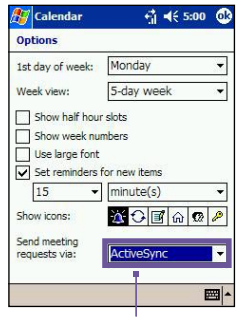
2. Tap **Attendees** (you will need to hide the input panel to see this box).

3. Select the meeting attendees from the list of e-mail addresses you've entered in **Contacts**. Only those contacts with e-mail addresses will be displayed.

4. Select other desired options and then tap **OK**.

5. Messaging automatically creates a meeting request and sends it to the attendees the next time you synchronize with your PC. Any textual notes entered in the **Notes** tab (excluding writing or recordings) will also be sent.

If you are sending the meeting request through a connection to an ISP or the network, rather than through synchronization with your PC, tap the **Tools** > **Options** > **Appointments** tab. In **Send meeting requests via**, tap the service you want to use to send the meeting request.



Tap the service you want to use to send the meeting request.

Use the summary screen

When you tap an appointment in **Calendar**, a summary screen is displayed. To change the appointment, tap **Edit**.

Set a reminder for an appointment

1. In the **Calendar**, tap the appointment, and then tap the upper portion of the summary screen when editing the appointment.

2. Tap **Reminder** and select **Remind me**.

3. To change how many minutes before the appointment you are to be reminded, tap the minutes displayed.

To automatically set a reminder for all new appointments, in the calendar, tap the **Tools** > **Options** > **Appointments** tab and select **Set reminders for new items**.

Beam an appointment

To beam an appointment, in the calendar list, tap and hold the appointment. On the pop-up menu, tap **Beam Appointment**.

When using **infrared (IR)**, align the **IR** ports between the devices so that they are unobstructed and within close range of each other.

7.2 Contacts

Contacts maintains a list of your friends and colleagues so that you can easily find the information you're looking for, whether you're at home or on the road. You can enter both personal and business information.

If you use **Outlook** on your PC, you can synchronize contacts between your device and PC. See ***ActiveSync*** in ***Chapter 4***.

View contacts

1. Select the category of contacts you want displayed in the list.
2. Tap and enter part of a name to quickly find it in the list.
3. Tap letters, such as **h** (home), **w** (work), or **m** (mobile) to the right of the contact to see additional phone numbers and e-mail addresses.
4. Tap to display or edit the contact details.
5. Tap and hold to display a pop-up menu of available actions.

To change the way information appears in the list, tap **Tools** and then **Options**.

Create or change a contact:

1. Tap > **Programs** > **Contacts** > **New**.
2. Using the input panel, enter a name and other contact information. You will need to scroll down to see all available fields.
3. To assign the contact to a category, scroll to and tap **Categories** and select a category from the list. In the contact list, you can display contacts by category.
4. To add notes, tap the **Notes** tab. You can enter text, draw, or create a recording.
5. To change a contact, tap it in the contact list, and then tap **Edit**. To cancel edits, tap **Edit** > **Undo**. When finished, tap **OK** to return to the contact list.

If you enter a name with more than 2 words, the middle word will be recorded as a middle name. If your contact has a double first or last name, tap the **Name** arrow and enter the names in the proper box.

To find a contact:

There are several ways to find a contact:

- Tap > **Programs** > **Find**, enter the contact name (first, last, or middle), phone number, or address, select **Contacts** for the type, and then tap **Go**.
- From **Contacts**, start typing a contact name until you see it displayed on the screen. To show all contacts again, tap the text box at the top of the screen and clear the text, or tap the arrow icon to the right of the text box.
- Tap one of the sets of letters displayed at the top of the contact list. This takes you to the contact names beginning with those letters.
- In the contact list, tap the category list (labeled **All Contacts** by default) and tap the category to which you've assigned a contact. To show all contacts again, select **All Contacts**. To view a contact not assigned to a category, select **No Categories**.
- To view the names of companies your contacts work for, in the contact list, tap **View** > **By Company**. The number of contacts that work for that company will be displayed to the right of the company name.
- Press and hold the top of the navigation pad until alphabetical letters appear on the screen in large type. Then use the navigation pad to scroll through the alphabet and select a letter.

Beam a contact

1. To beam a contact, in the contact list, tap and hold the contact. On the pop-up menu, tap **Beam Contact**.
2. To beam multiple contacts, tap and drag to select the contacts. Then, tap **Tools** > **Beam Contacts**.

When using **infrared (IR)**, align the **IR** ports between the devices so that they are unobstructed and within close range.

Change options

In the contact list, tap **Tools** > **Options**.

1. To increase the available space for displaying contacts in the list, clear **Show ABC tabs**.
2. The area code and country/region for new contacts are automatically entered based on the information in **Country/Region settings**.

Using the summary screen

When you tap a contact in the contact list, a summary screen is displayed. To change the contact information, tap **Edit**.

7.3 Tasks

Use Tasks to keep track of things you need to do.
A variety of task information can be displayed on the **Today** screen.
If you use **Outlook** on your PC, you can synchronize tasks between your device and PC.
See ***ActiveSync*** in ***Chapter 4***.

Create or change a task:

1. To create a task with detailed information, such as start and due dates, tap > **Tasks** > **New**.
2. In the task list, you can display tasks by category.
3. To assign the task to a category, tap **Categories** and select a category from the list.

   To create a new category, tap the **Add/Delete** tab, enter the category name, and then tap **Add**. The new category is automatically selected in the **Select** tab.
4. To add notes, tap the **Notes** tab. You can enter text, draw, or create a recording. When finished, tap **OK** to return to the task list.
5. To change a task, tap it in the task list, and then tap **Edit**. To quickly create a task, enter text in the **Tap here to add a new task** box at the top of the screen. If you don't see this box, tap **Tools** > **Entry Bar**.

Set a reminder for a task

1. In the task list, tap the task, and then tap **Edit**.
2. Tap the **Due** field and set a due date if you have not already done so.
3. Tap the **Reminder** field and select **Remind me**. You will be reminded at 8:00 in the morning on the due date.
4. To change the reminder date, tap the date displayed.

To be automatically reminded of new tasks with a due date, in the task list, tap **Tools** > **Options** and select **Set reminders for new items**.

To choose how you are reminded, for example by a sound, tap > **Settings** > **Personal** tab > **Sounds & Notifications**.

Using the summary screen

When you tap a task in the task list, a summary screen is displayed. To change the task, tap **Edit**.

Beam a task

To beam a task, in the task list, tap and hold the task. On the pop-up menu, tap **Beam Task**.

7.4 Notes

Notes help you quickly capture ideas, notes, and thoughts. You can create a note using written and typed text, drawings, and recordings. You can also share your notes with others through E-mail, infrared, and synchronization with your PC. See ***Synchronizing Information*** in ***Chapter 4***.

To create documents with advanced formatting or templates, such as bulleted lists and tabs, use word processing software developed for your device, such as **Pocket Word**.

To create a note

1. Tap > **Programs** > **Notes** > **New**.
2. Create your note by writing, drawing, typing, and recording, see ***Entering Information*** in ***Chapter 2*** for more information about using the input panel, writing and drawing on the screen, and creating recordings.

You can insert the date in a note. First, deselect and make sure that no drawings are selected. Next, tap and hold anywhere on the note and then tap **Insert Date**.

Send a note by E-mail

1. If you haven't already set up **Messaging** to send and receive messages, please do so now. See the ***account settings*** in ***Chapter 8***.
2. In the note list, tap and hold the note or recording. To select multiple notes or recordings, tap and drag. Then, tap and hold the selected items.
3. On the pop-up menu, tap **Send via E-mail**. A new message is created with the item attached.

Beam a note

To beam a note, in the note list, tap and hold the note. On the pop-up menu, tap **Beam File**.

Change options

In the note list, tap **Tools** > **Options**.

1. From the **Default template** list, you can select a pre-designed template to use with all new notes.
2. If you store most of your notes and recordings on a storage card, in **Save to**, tap **Storage card** to have new items automatically stored on your storage card.

Chapter 8

Messaging Features

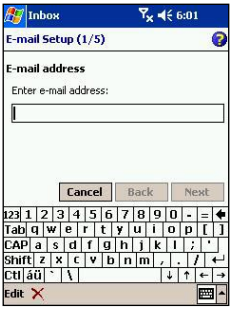
8.1 E-mail Messages
8.2 MSN Messenger
8.3 MMS Messages

8.1 E-mail Messages

You can receive E-mail and text messages in **Messaging**. E-mail messages are sent by using an address you receive from your Internet service provider (ISP), an E-mail service provider, or your employer. Text messages are sent and received through your phone service provider by using a phone number as the message address.

You can also send and receive E-mail by synchronizing with your PC, or by connecting to a Post Office Protocol 3 (POP3) or Internet Message Access Protocol 4 (IMAP4) mail server. You need to set up an E-mail account for each method that you use except for an **Outlook** E-mail account, which is set up by default. The **Outlook** E-mail account on your Pocket PC Phone is used to store messages that you send and receive through synchronization with a PC. Account names appear when you open the folder list, which is located on the left, under the navigation bar, in the message list view.

How you download copies of messages depends on how you are receiving messages:

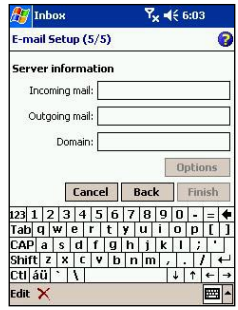


- If you receive E-mail messages through a remote E-mail server, follow the instruction as described on page 135, *"Downloading messages from a server."*
- If you receive E-mail messages through **ActiveSync**, begin synchronization. See *ActiveSync Inbox* in *Chapter 4*.
- Text messages are automatically received when your phone is turned on. Otherwise, messages are held by your service provider until the next time your phone is turned on.

With synchronization, messages are synchronized between the Pocket PC Phone **Inbox** folder for the **Outlook** E-mail account and the PC **Inbox** by using **ActiveSync** and **Microsoft Exchange** or **Microsoft Outlook**. For more information, see *Chapter 4*.

Setting up an E-mail account:

Open **Messaging** on your Pocket PC Phone by tapping > **Messaging** > tap **Accounts** > **New Account**. The **E-mail Setup** wizard will prompt you to fill in the necessary information to complete the setup.



1. Fill in your E-mail **address**, then tap **Next**.
2. The **Auto configuration** will attempt to connect your Pocket PC Phone to your E-mail server and automatically download the necessary connection settings. If **Auto configuration** is unsuccessful, contact your ISP or network administrator.
3. Enter **Your name**, **User name** and **Password**, then tap **Next**. If you check the **Save password** box, your device will not ask for your password the next time you log in to an E-mail account. However, other people can access your account if you lose the device.
4. Select the appropriate **Account type** that your E-mail provider supports (**POP3** or **IMAP4**). Enter a **Name** for your E-mail account, then tap **Next**.
5. Enter your E-mail provider's server name information for **Incoming** mail and **Outgoing** mail, then tap **Finish**.

When finished, tap **Accounts**. Your new E-mail account will be displayed under this menu. You can start connecting to your E-mail server at this point.

You can set up several E-mail accounts, including your **Outlook** E-mail account, but you can set up only one text message account.

Changing options for an account:

1. Tap **Accounts** > **Accounts**.
2. Tap the name of the account, and follow the instructions on the screen.

Deleting an account:

1. Tap **Accounts** > **Accounts...**.
2. Tap and hold the name of the account > and then tap **Delete**.

You cannot delete the text message account.

Downloading messages from a server

In **Messaging**, tap **Accounts** > **Connect** to open a connection to the Internet or your corporate network, depending on the account. For more information, see ***Connection*** settings in ***Chapter 7***.

1. Tap **Accounts** and ensure that the account you want to use is selected (marked by a bullet.)

2. Tap **Connect**. The messages on your device and E-mail server are synchronized. New messages are downloaded to your Pocket PC Phone **Inbox** folder, messages in your Pocket PC Phone **Outbox** folder are sent, and messages that have been deleted from the server are removed from your Pocket PC Phone **Inbox**. Tap a message in the message list to open it.
3. If you read a message and decide that you need the full copy, tap **Edit** > **Mark for Download** while in the message window. If you are in the message list, tap and hold the message, and then tap **Mark for Download**. This will also download message attachments if you selected those options when you set up the E-mail account. You can also choose to download full copies of messages by default.
4. When finished, tap **Accounts** > **Disconnect**.

Receiving attachments

An attachment sent with an E-mail message or downloaded from the server appears as an icon at the bottom of the message in its own window pane. Tapping the attachment icon opens the attachment if it has been fully downloaded. You can mark an attachment for downloading **(IMAP4 account only)** the next time you connect.

Through synchronization:

1. Start **ActiveSync** on your PC.
2. Click **File** > **Mobile Device** > and then select your mobile device.
3. Click **Tools** > and then click **Options**.
4. Select the message account > **Settings**, and then select **Include File Attachments**.

Through a remote IMAP4 E-mail server:

1. From **Messaging**, tap **Accounts** >**Accounts** > **IMAP4**.
2. Tap **Next** until you reach **Server Information** > and then tap **Options**.
3. Tap **Next** twice > **Get full copy of messages** and **When getting full copy, get attachments**.

Embedded images and objects cannot be received as attachments. An embedded message can be viewed as an attachment when using **IMAP4** to receive E-mail. However, this feature does not work if **TNEF** is enabled so that you can receive meeting requests.

Composing and sending a message:

Text Messages (SMS) cannot be used to send E-mail messages. You can tap the double arrows next to the **Subj.** field to show the complete header. From the **Account** list, select an E-mail account.

If you are sending a text message (SMS) and want to know if it was received, before sending the message, tap **Tools** > **Options** > and select **Request message delivery notification**.

You can also send a text message from the **Phone Dialer Screen** by tapping **Tools** > **Send Text Message**, a new message screen appears in **Messaging**.

1. In the message list, tap **Accounts** and select **Outlook E-Mail**, **Text Messages (SMS)**, or the desired E-mail account.
2. Tap **New**.
3. Enter the E-mail address or text message address of one or more recipients, separating them with a semicolon. To access addresses and phone numbers from **Contact**s, tap **To.** or tap the **Address Book** button.
4. Enter your message. To quickly add common messages, tap **My Text** and tap a desired message.
5. To check spelling, tap **Tools** > **Spell Check**.
6. Tap **Send**. If you are working offline, the message is moved to the **Outbox** folder and will be sent the next time you connect.

Managing Messages and Folders

Each E-mail account and text message account has its own folder hierarchy with five default folders: **Inbox**, **Outbox**, **Deleted Items**, **Drafts**, and **Sent Items**. The messages you receive and send through the mail account are stored in these folders. You can also create additional folders within each hierarchy.

The behavior of the folders you create depends on whether you are using an **Outlook E-Mail**, **Text Messages**, **POP3**, or **IMAP4** account.

If you use an **Outlook E-Mail** account, E-mail messages in the **Inbox** folder in **Outlook E-Mail** will automatically be synchronized with your device. You can elect to synchronize additional folders by designating them for **ActiveSync**. The folders you create and the messages you move will then be mirrored on the server.

If you use a **Text Messages** account, messages are stored in the **Inbox** folder.

If you use a **POP3** account and you move E-mail messages to a folder you created, the link is broken between the messages on the device and their copies on the mail server. The next time you connect, the mail server will see that the messages are missing from the device **Inbox** folder and delete them from the server. This prevents you from having duplicate copies of a message, but it also means that you will no longer have access to messages that you move to folders created from anywhere except the device.

If you use an **IMAP4** account, the folders you create and the E-mail messages you move are mirrored on the server. Therefore, messages are available to you anytime you connect to your mail server, whether it is from your device or PC. This synchronization of folders occurs whenever you connect to your mail server, create new folders, or rename/delete folders when connected.

For all accounts except **Outlook E-Mail**, you can access folder options by tapping **Tools** > **Manage Folders**.

8.2 MSN Messenger

MSN Messenger features include:

Seeing who is online.

Sending and receiving instant messages.

Having instant message conversations with groups of contacts.

Notifying contacts of your on-line status.

Blocking contacts from seeing your status or sending you messages.

To use **MSN Messenger**, you need a **Microsoft Passport** account, or a **Microsoft Exchange** E-mail account that your employer provides. Once you have one of these accounts, you will need to:

Set up an account on **MSN Messenger**.

Sign in to **MSN Messenger**.

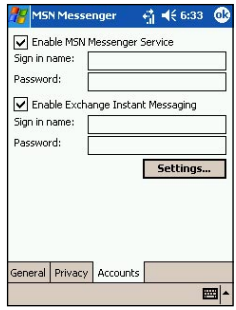
Setting up an account

Before you can use **MSN Messenger**, you must set up the instant messaging account(s) to use. For **MSN Messenger Service**, you must have a **Microsoft Passport** or **Hotmail** account. For **Exchange Instant Messaging**, you must have an **Exchange** account.

1. To use **MSN Messenger Service**, set up a connection to the Internet; to use **Exchange Instant Messaging**, set up a connection to your corporate network.
2. Tap > **Program** > **MSN Messenger**
3. In **MSN Messenger,** tap **Tools** > **Options** > **Accounts** tab.
4. Select **Enable MSN Messenger Service** and/or **Enable Exchange Instant Messaging**.
5. Enter your sign-in name and password for the selected account(s). Your sign-in name is usually in the form: **username@domain.com**.
6. If you selected both accounts, tap **Settings** > and then select which account to sign in to first.

- To set up a **Microsoft Passport** account, go to ***http://www.passport.com***.
- To set up a **Hotmail** account, go to ***http://www.hotmail.com***.

- To set up an **Exchange** account, see your network administrator.



Signing In and Signing Out

1. To sign in, tap anywhere on the screen. Follow the directions on the screen.
2. To sign out, tap **Tools** > **Sign out**.

To sign in as your device is connected to the Internet, tap **Tools** > **Options** > **General** tab > and select the **Run this program upon connection** box.

Signing in to an **Exchange** account may take several minutes depending upon your connection speed. Reducing the number of **Exchange** contacts will decrease your sign-in time.

8.3 MMS Messages

With **MMS Composer**, you can create and share your own **MMS** messages, complete with photos, videos, text, and audio.

To access MMS Composer:

1. Tap > **Programs** > **MMS Composer**.
2. The **Today** screen offers another way of accessing **MMS Composer**. You are automatically notified if you have any new messages. All you need to do is tap the **MMS** messages box and the program will launch.

Message Boxes

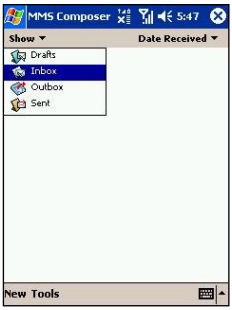
To view message folders:

When the program starts, it will take you to your message boxes. Use the pull-down to select the one you wish to view.

To view message options:

Within each message box, you can tap and hold on an individual message to see various options.

Options	Explanations
New	Creates a new message.
Delete	Removes the message.
Reply	Lets you respond to the message by sending one of your own.
Reply All	Responds to everyone included in the initial message.
Forward	Sends the message to someone else.
Mark as Unread	Makes the message appear as if it is a newly received message.
Message Info	Displays various message information, such as the sender, the subject, the date and time it was sent, and the size.



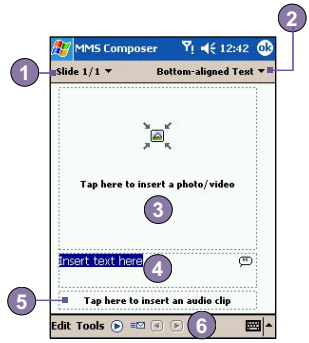
To view and alter program settings:

1. Tap > **Programs** > **MMS Composer.**
2. Tap **Tools** > **Options** > **Preferences** tab. You have the following options:

Options	Explanations
Connect Via	Select your type of Internet connection from the pull-down list.
Connect to Server	Select your wireless server here.
Retrieve Messages Immediately	Typically, you receive a notification whenever a new message is available. Checking this box bypass the notification and download new messages automatically.
Size Limitations	You can sent the maximum size limit for messages that you send.
No. of attempts before aborting	This value sets the number of times the program will attempt to send your message before stopping.
Download on home network only	Allows you the set the network connection on the home network.

Creating a message

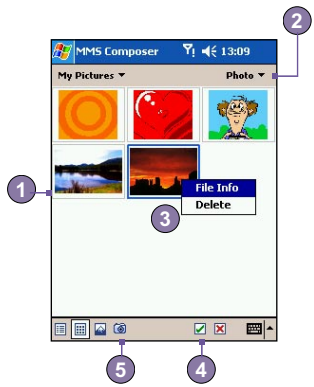
Messages are created by combining various slides. Each slide can consist of a photo or video, audio, and text. A quick run-down of the Create screen is illustrated as below:



1. Use this pull-down to select a specific slide in your message. (Remember, messages can consist of multiple slides.)
2. This pull-down allows you to select the position of any added text.
3. Tap here to choose a photo or video.
4. Tap here to input a text message.
5. Tap here to include an audio clip.
6. The menu lets you do a number of things, such as preview and send your message.

To add a picture or video clip:

You can add either a still image or a video clip to each individual slide. After you've tapped the area to add a photo or video, you'll be allowed to select exactly what you want to include.



1. This pull-down lets you select a specific location that contains photos/videos.
2. Choose either **Photos** or **Videos** from this pull-down. You can only add either a single photo or video clip to each individual slide.
3. Tap the specific photo or video clip that you want to add.
4. Tap the specific photo or video clip that you want to add, then tap ✔ to select.
5. To take a new picture or video clip press the **Camera** icon The picture or video clip will be automatically inserted.

Tap and hold on a file to see the **File Info** and **Delete** options. **File Info** displays the file name, resolution, date, and size of a photo. When viewing video file information, the duration of the video is also listed. **Delete** deletes the file.

To add text:

You can add text to any slide. You can either enter in new text with the keyboard, or use **Canned Text**. **Canned Text** are previously saved words or phrases.

1. Tap the **Insert text here** box, then enter the text you want to send.

2. To insert **Canned Text**, tap the small icon on the right upper corner of the **Insert text here** box, and then select a phrase from the list and tap to select.

3. To add new, edit or delete existing canned text, tap and hold on the canned text screen.

To add audio clips:

Single audio clips can be added to each slide. You can either include an existing sound file, or record a new one.

1. From the drop-down menu, select a location that contains audio files.

2. Tap the file you'd like to use.

3. Preview the audio files by tapping on them. Use the toolbar below to **Stop** and **Play** the file.

4. To insert the clip tap Otherwise, tap .

5. To record a new audio clip, tap the **Record** icon, then tap to start recording and to finish. The clip will be automatically inserted.

Menu commands

The following commands are available along the bottom of the screen:

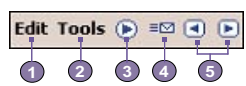
1. Edit

New Slide	To add a new, blank slide to your message.
Delete Slide	Removes the current slid from your message.
Organize Slides	Lets you arrange the slide order and display time for each slide.
Save in Drafts	To save as a draft, tap **Edit**, **Save in Drafts**
Cancel	Discards your entire message (you'll be prompted to save it).

2. Tools

Send Message	Lets you send your message when you're ready (same as)
Preview Message	Previews your message (same as)

3. - Previews your message (as mentioned directly above).



4. - Tap here when you're ready to send your message.

5. - These buttons let you navigate through the various slides in your message.

Viewing a message

You have several options when viewing a message that you receive:

1. Use the **playback** controls (**Play/Pause, Stop**) to view the message. You can pause it anytime during playback.
2. Tap **Objects** to see a list of each file. If you want to save a particular file, tap it, then choose **Save** from the **Tools** menu.
3. You can also view the slides manually. Use the navigation buttons to scroll through the message.

Sending a message

Now that you've finished creating your message and you've tapped the **Send** button, all you need to do is enter a little bit of information:

1. Enter the recipient's phone number > Tap **To Phone** to see your phone book.
2. Enter the recipient's E-mail address > Tap **To E-mail** to see your address book.
3. Enter a subject for your message.
4. When you're ready, tap **Send**. Otherwise, tap **Cancel**.

Sending options

Options within the **Tools** menu let you save your message in your **Draft** folder, and access the **Send Options** screen.

- Uncheck the **Send the message now** box to manually set the date and time that you would like the message sent.
- From the **Expiration** pull-down, select how long you want the message to be stored on the server. The server will stop attempting to deliver the message after the set time expires.
- Set the message priority from the **Priority** pull-down.
- Checking the "Send anonymously" box will hide your identity from the recipient.

- Choose the resolution for the message from the pull-down; **Original** does not alter the resolution. You may want to choose a lower value to help decrease the file size of your message.
- Check the **Delivery Report** box to be notified when the recipient downloads your message.

Chapter 9

Applications

9.1 Pocket Word
9.2 Pocket Excel
9.3 Windows Media Player
9.4 Pictures
9.5 ClearVue PPT
9.6 ClearVue PDF
9.7 KSE Truefax 2.0
9.8 MIDlet Manager
9.9 ZIP

9.1 Pocket Word

You can create and edit documents and templates in **Microsoft Pocket Word** just as you would do in **Microsoft Word** on your PC. **Pocket Word** documents can be saved as **.psw**, **.doc**, **.rtf,** or **.txt** files.

You can enter information in a document by **typing**, **writing**, **drawing**, or **recording**. After you close a document and name it, the document is automatically placed in the **Pocket Word document** list.

Synchronizing Pocket Word documents

Pocket Word documents can be synchronized with **Word** documents on your PC. To synchronize files, select the **Files** type for synchronization in ActiveSync Options settings on your PC. When you select **Files**, a ***\My Documents*** folder is created on your PC's desktop. Place all the files you want to synchronize with the device in this folder. Please note that password-protected files cannot be synchronized.

All **Pocket Word files** that are stored in **\My Documents** and its subfolders are synchronized with the PC. **ActiveSync** will convert the documents during synchronization.

When you delete a file on your PC or your device, the file will be deleted in the other location the next time you synchronize.

For more information on synchronization, or file conversion, see **ActiveSync Help** on the PC.

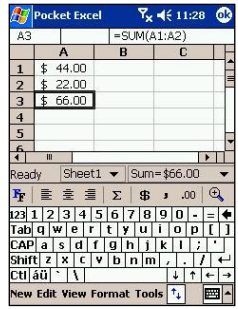
Document conversion

The **Word** documents **(.doc)** and templates **(.dot)**, created in **Word** 6.0 or later on the PC, are converted to **Pocket Word** documents **(.psw)** and templates **(.psw)**. The conversion takes place during the following:

- During file synchronization.
- When you copy a **Word** file from the PC to your Pocket PC Phone.
- When you open an E-mail message with an attached **Word** file on your device.

Pocket Word documents are converted to **Word** documents when they are synchronized or copied back to the PC. During the conversion from **Word** to **Pocket Word**, most simple text and paragraph formatting will be retained and displayed, but some formatting attributes could be changed or lost.

9.2. Pocket Excel



You can create and edit workbooks and templates in **Microsoft Pocket Excel** just as you would do in **Microsoft Excel** on your PC. **Pocket Excel workbooks** are usually saved as **.pxl** files, but you can also save them in the **.xls** format. When you close a workbook, it is automatically named and placed in the **Pocket Excel workbook** list. You can attach a password to a workbook to ensure privacy.

Synchronizing Pocket Excel workbooks

Pocket Excel workbooks can be synchronized with Excel workbooks on your PC. To synchronize files, select the **Files** type for synchronization in ActiveSync Options settings on your PC. When you select **Files**, a **\My Documents** folder is created on your PC's desktop. Place all the files you want to synchronize with the device in this folder. Password-protected files cannot be synchronized.

All **Pocket Excel** files that are stored in **\My Documents** and its subfolders are synchronized with the PC. **ActiveSync** converts documents during synchronization.

When you delete a file on your PC or your device, the file will be deleted in the other location the next time you synchronize.

For more information on synchronization or file conversion, see **ActiveSync Help** on the PC.

Workbook conversion

The **Excel** files **(.xls)** and templates **(.xlt),** created in **Excel** version 5.0/95 or later on the PC, are converted to **Pocket Excel** workbook **(.pxl)** or template **(.pxt)** files. The conversion takes place during the following:

- During file synchronization.
- When you copy an **Excel** file to your device from the PC.
- When you open an E-mail message with an **Excel** file as an attachment.

Pocket Excel workbooks are converted to **Excel** workbooks when they are synchronized or copied back to the PC.

During the conversion from **Excel** to **Pocket Excel**, most simple text and paragraph formatting will be retained and displayed, but some formatting attributes could be changed or lost.

9.3 Windows Media Player

Use **Microsoft Windows Media Player** to play audio and video files that are stored on your Pocket PC Phone, a network, or the Internet.

You can play files in either **Windows Media** or **MP3** format (this includes files with the extensions **.asf**, **.wma**, **.wmv**, and **.mp3**.) To find contents in the **Windows Media Format** for your Pocket PC phone, please go to ***http://www.windowsmedia.com***.

To turn on **Windows Media Player** on your Pocket PC Phone, tap > **Programs > Windows Media**.

About the playlist

A playlist is a list of digital media files that play in a specified order. By using playlists, you can group audio and video files together for convenient playback. For example, you can create a playlist of your favorite songs by a particular artist or a playlist of work-related video clips.

For more information about creating and editing a playlist on your Pocket PC Phone, select **Help** from the **Start** menu.

Play a file on a network:

To play streaming media, your device must be connected to a network. See the remote connection settings in ***Chapter 6*** for more information.

1. Tap **Tools** > **Open URL.**
2. Enter a **URL** in the **Location to Open:** field.

9.4 Pictures

Pictures collects, organizes and sorts **.jpg** picture files on your device. With **Pictures**, you can download images to your PC, use ActiveSync to copy the files to your Pocket PC Phone, and view the images as a slide show.

Pictures can also be stored and transferred to your device from a MMC, SD, or any storage form factor supported by your digital camera. Insert a card into the memory card slot and then copy or drag the pictures from your PC to the **My Documents** directory on the memory card. (If the memory card does not have a **My Documents** directory you must create one first.)

Transferring pictures

Pictures stored on your PC can be synchronized with **Pictures** on your device. Picture synchronization is not automatically selected in ActiveSync; you need to tap the sync option **Files** in ActiveSync on your desktop PC to activate this function.

Finding and listing pictures:

1. Tap > **Programs** > **Pictures**.
2. Tap **My Pictures** and select a folder from the drop-down menu.

Viewing pictures:

1. In **Pictures**, tap to view pictures as a **slide show**.
2. Tap to view pictures stored in your **My Pictures** folder.
3. Tap to view pictures stored on a storage card.

- During the **Slide Show**, tap anywhere on the screen to display the **Slide show** toolbar, which you can use to pause the **Slide Show** and rotate the view.
- Press the **Left**/**Right** controls to move forward or backward through the slides.

Tap to select a folder from the drop-down menu

Sorting pictures:

1. Tap > **Programs** > **Pictures**.
2. Tap to select a sorting option such as **Name**, **Date**, **Size**, and **Type** from the drop-down menu.

Deleting an image

Hold the stylus firmly on the file name of the picture you want to delete. Select **Delete** from the pop-up menu.

Edit pictures

You can **rotate**, **crop**, **zoom** and adjust the **brightness** and **color contrast** of your .jpg pictures. Tap the desired picture, then:

- Tap to rotate a picture 90 degrees counter-clockwise.
- Tap to crop a picture by dragging and selecting the crop area. Tap outside of the box to stop cropping.
- Tap to display the Zoom panel, from which you can zoom in or out of a picture, or return a picture to full-screen size.

- Tap **Edit** > **Brightness and Contrast** to adjust the brightness and contrast of a picture.
- Tap **Edit** > **Undo** to undo an edit, or **Redo** to redo an edit.

Set pictures as background

You can use one of your own **.jpg** pictures as the background on the **Today screen**, and specify how you want it displayed on the screen, such as adjusting the transparency level.

1. In **Pictures**, tap the picture you want to set as the background.
2. Tap **Tools** > **Set as Today Wallpaper**.

The default setting for the transparency level of the background picture is **65%**. This can be adjusted in the **Set as Today Wallpaper** screen.

Customizing pictures

You can launch **Pictures** automatically when a digital camera storage card is inserted. You can also set the length of the time delay between slides for a slide show.

To select launch automatically:

1. Tap > **Programs** > **Pictures**.
2. Tap **Tools** > **Options** > the **General** tab.
3. Check the box next to **Detect digital camera storage cards**.

To select the time delay between slides:

1. Tap > **Programs** > **Pictures**.
2. Tap **Tools** > **Options** > the **Slide Show** tab.
3. Select a number of seconds, then tap **OK**.

9.5 ClearVue PPT

ClearVue PPT (Presentation) displays presentations created in **Microsoft PowerPoint 97**, **PowerPoint 2000** and **PowerPoint 2002**.

ClearVue Presentation allows you to view your presentation as it was created. The program also allows you to create a **Custom Slide List**. In this list, you can select which slides to include in the presentation and you can change the order of the slides presented.

ClearVue Presentation displays the first slide in the presentation in either the **Normal View** or the **Slide Sorter View**. From the current view, you can **Change the View**, **Set Up a Show**, **View Notes** attached to your presentation, Zoom in on a slide, or View your show.

Conversion settings

Before viewing PowerPoint presentations, you must change your default file conversion settings so that files transferred from your PC to your handheld are not changed.

1. Launch **ActiveSync** on your desktop and go to **Tools** > **Options**.
2. On the **Options** page, choose the **Rules** tab > **Conversion Settings.**
3. Choose the **Desktop to Device** tab, highlight **Microsoft PowerPoint Presentation** from the list and click **Edit**.
4. Choose **No conversion** (***.ppt**) from the drop down and click OK three times until you are back on the main ActiveSync screen.

Any PowerPoint files you transfer to your handheld will now be preserved in their original format for viewing.

View a presentation

To open a PPT presentation file:

1. Launch **ClearVue Presentation** by tapping > **Programs** > **ClearVue PPT.**
2. Tap **File** > and select **Open** to view a list of .ppt files on your Pocket PC Phone > Tap the file you want to view.
3. Tap **Slide Show** to view the slides from the **View** menu or by using the Icon on the toolbar.

The **Slide Viewer** opens with the presentation in the **Normal View** or the **Slide Sorter View**. You can change the view by selecting an alternate View from the **View** menu or by using one of the **ToolBar** icons. If the presentation was received as an E-mail attachment, you can also just tap on it to open.

Normal Viewer

The **Normal View** has the **Slide List** and the **Image Window**. You can also view **Notes** in the **Normal View**. On your Pocket PC Phone, **Notes** that are attached to your presentation can be viewed by selecting **Notes** from the **View** menu.

The **Slide List window** allows you to do the following:

- Choose the image shown in the Image window by selecting the slide in the list.
- Select which slides will show in your presentation by checking or unchecking the slide checkbox in the slide list.
- Move a slide up or down by using the **Move slide up** or **Move slide down ToolBar** icon.

The **Image Window** allows you to do the following:

- Scroll through the slides using the scroll bars.
- Zoom in on a slide for a closer view by double clicking the **Image Window**.

- Click on the **Watermark** in the lower left corner of the image to bring up a context menu. From this menu you can:
  - **Go to** any slide you want to view.
  - **Zoom** in or out for viewing.
  - Select **Rotation** to rotate the slide to **Portrait** or **Landscape**.
  - Select **Close** to go back to the **Image Window.**

The Slide Sorter

The **Slide Sorter** shows slide thumbnails of the currently selected presentation. From this window, you can do the following:

- Sort the slides by using:
  - The **Move slide up** or **Move slide down**.
  - The stylus to **drag** and **drop** the slide to the desired location.
- Select which slides to include in your presentation by selecting an image then, selecting or deselecting **Select Slide** from the **Setup** menu.
- Zoom in on a slide for a closer view by double clicking on the slide.

Set up a slide show

The **Set Up Show** dialog can be opened from the **Setup** menu. From the **Set Up Show** dialog, you can do the following:

1. The **Slide List** allows you to **Select** which slides will show in your presentation. You can do this by checking or unchecking the slide checkbox.
2. You can also set the **Advance Slide** for **Manual**, **Use timings**, or **Automatic**.

- The **Manually** button will ignore all PowerPoint timings, allowing you to control the time between animations and transitions.
- The **Use timings, if present** button will display the show just as it does in PowerPoint.
- The **Automatically advance after** button will allow the show to run on its own. When the **Automatic** button is selected, you can set the **Timing** between slide transitions, and **Loop** the show if desired.

Navigating a presentation

While a slide show is running, you can move to another slide by doing one of the following:

- Click on the presentation screen to advance one slide forward, but this is disabled when using a **Pen** or **Pointer**.

- While a slide show is running, click on the arrow watermark in the lower left corner of the screen to bring up a Context menu. From this menu, you can view the **Next** slide action, the **Previous** slide action, or select a slide from the **Go to...** drop down list. You can also use a **Pen** to mark on a slide or a **Pointer** for clarity. If you want to stop the presentation show, select **End Show**.
- Tap on the **Right** and **Down** buttons move to the next slide, and the **Left** and **Up** buttons move to the previous slide.

9.6 ClearVue PDF

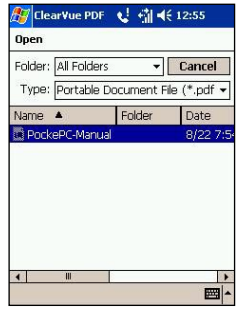
ClearVue PDF displays Portable Document Format files. These files usually have a .pdf extension.

To open a PDF file:

1. Launch **ClearVue PDF** by tapping > **Programs** > **ClearVue PDF**.
2. Tap **File** > **Open** to view a list of .pdf files on your Pocket PC Phone > Tap the file you want to view.

Moving around in a document

When a document is larger than one screen, scroll bars enable you to move around. You can navigate around a .PDF file in the following ways:



- Tap the up/down and right/left arrows to move one line to the desired direction. You can also use the navigation pad to move around the screen.
- Click and hold the space between the arrow and the scroll bar to move one screen to the desired position.
- Use the left, right, up and down arrow keys on the soft keyboard to move to the desired position.
- You can also tap and hold and then drag the screen to move around the document to the desired position.

The Zoom feature

The **Zoom** feature allows you to **enlarge** or **reduce** the document content on display. Zoom is available from the **View** menu.

To get a different view of a document, select from the preset **Zoom** settings, or choose a **Custom Zoom**.

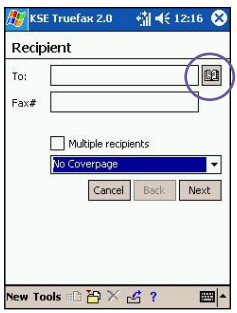
9.7 KSE Truefax 2.0

Truefax is a software that allows you to send and receive faxes on your Pocket PC Phone.

Before you send or receive a fax, make sure that the device is connected to a **GPRS** network. The GPRS network status is confirmed by an antenna symbol **G** on the status bar. Please note that the performance of fax communication is determined by the relative strength of the GPRS network signal.

Sending a fax

1. Tap > **Programs** > **KSE Truefax 2.0** > **New**.
2. In the **Recipient** dialog screen, enter the recipient's name and fax number. Alternatively, you can also choose a contact from **Contacts** by tapping next to the **To:** field. As a shortcut, **Truefax** enables the user to access the **Contacts** to compose the recipient's data. While working on **Contacts**, you can select up to 10 names to send the fax to. Check the **Multiple recipients** box to list the selected contacts with the multiple recipient mode.
3. To attach a cover page on your fax document, choose the available type of cover pages from the drop-down list and tap **Next**. A **Note** dialog box will appear if you choose a coverage template.
4. Enter a subject of the fax in the **Subject** field. Entering a subject in the **Subject** field may help you to manage your faxes later on. In the lower edit field, you can enter more text that will also appear on the cover page. Tap **Next** to continue, or tap **Back** to modify settings in a previous dialog. A warning message will appear if you didn't enter the **Owner Information** on your device. This information will show in the cover page if you entered your contact information on the **Today** screen.
5. To attach a document, tap the **Add** button, which will display all available documents stored on your device. Find the file you want to attach, tap **OK**. Repeat this procedure until you have completed your selection. Or, you can create a new fax note by tapping **New**. You can modify the order in which the documents are to be attached. Tap the **Up** or **Down** arrow next to the attachment list to move the document you have selected. To remove an item from the list, select the document and tap **Delete**.
6. After you have completed the selection of your attachment(s) and tapped **Next**, a summarized **Preview** screen will list



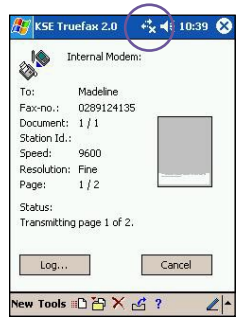
all the settings of this fax document. A small window will show you a preview of the fax. Tap this window to open a larger preview screen, which also enables you to write a note on the documents.

7. Tap **Send** to connect to your internal modem to send all composed faxes. A duplicate copy will be stored in the **Outbox** folder. As soon as the fax sending dialog is opened, the device will automatically switch to **Flight mode**. Once the fax is successfully sent, the **Flight mode** is automatically switched off and the device will return to normal connectivity status.

Receiving a fax

To receive faxes with **Truefax** via your Pocket PC Phone, you need a special fax number assigned by your mobile phone operator. Currently, it's not possible to receive faxes through your Pocket PC Phone with a standard mobile phone number.

Contact your mobile operator for the availability of this service.



1. Tap > **Programs** > **KSE Truefax 2.0**.
2. Tap in the menu bar to open the receipt dialog and to activate the modem. **Truefax** will then wait for incoming faxes.
3. After the fax has been received, **Truefax** will switch to **Waiting for incoming call**. To close the receipt dialog, tap the **Cancel** button and wait until the button changes to **Close,** which could take some time.
4. You will find the document in the fax **Inbox** folder when a fax has been received.

Finishing

After a fax has been sent or received, the phone module has to be re-activated.

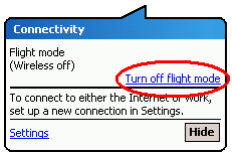
1. Tap the antenna symbol on the task bar to open the connectivity screen of your phone.
2. Tap **Turn off flight mode** in the appearing window.
3. After a while the **"x"** at the antenna symbol will be replaced by a **"!"** and the antenna symbol with the signal bars will reappear.

In certain situations it is necessary to reenter the **PIN** code in order to reconnect to a GPRS network.

Using the Fax Viewer

The fax viewer allows you to look at a fax and draw text or sketches on an existing document or on a newly created document.

- You can zoom a document by tapping on the tool bar and choosing the zoom factor from the opening list.
- With you can:
  - a. Choose the pen width.
  - b. Choose between a white or black pen.
  - c. Select **Clear Page** to clear all previous modifications on the fax document.
- Tap the **Undo** or **Redo** button to reverse what you have done with the pen or to reverse a rejected action.
- Tap to view your fax documents page by page.
- With , you can:
  - a. **Invert** - Show the actual page inverted. All black points will be white and all white points will be black.
  - b. **Rotate by 180 deg.** - Rotate the page so that a fax received upside down can be viewed without rotating the device.
  - c. **Show Margins** - User defined margins can be a thin border, drawn in the fax viewer dialog.
  - d. **Page Info -** Display information about the chosen page.



Customized templates

Truefax allows you to customize your documents to tailor a personal or corporate identity for your faxes. The identification dialog consists of three edit fields to display additional information about the sender.

Tap > **Programs** > **KSE Truefax 2.0** > **Tools** > **Identify...**.

Banner Name and **Banner Number** are both shown in the banner on the top of each page of the fax, if you have activated the **Send Banner** checkbox.

The fax device of the receiver will show the **Station ID** as the sender number.

Properties

Tap > **Programs** > **KSE Truefax 2.0** > **Tools** > **Properties...**.

1. In **Logo graphic**, you can tap the **File** button to choose a bitmap that will be used as a logo representing the sender on the cover page.
2. **Units** option enable you to choose the **unit** you are most familiar with. You can specify **inch** or **cm** (centimeter).
3. The last and bottom part of the properties dialog is for the **Fax Viewer** customization. In the properties dialog you can customize the **Fax Viewer** by selecting:

   -**Text size**: Enlarge the text font when viewing the document.

   -**Caption word break**: make the text break if it does not fit into a single line

   -**Keep graphics of sent faxes** feature: faxes that were already will not be saved. Assigning every fax a subject should better help you to identify your sent faxes without storing the fax documents.
4. Tap **OK** to save the new settings.

Layout

You can customize the appearance of your fax by modifying the settings in the **Layout** dialog.

Tap > **Programs** > **KSE Truefax 2.0** > **Tool** > **Layout**

- In the **Font** tab, define the font that will be used for the fax. The only text that won't be shown with this font is the text you have written with the quick note feature of the fax viewer, because this text will be handled as a graphic.
- The **Margins** tab shows the actual height and width of the margins used for the fax. Modify these values by choosing one of the given values from the list. The standard measurement unit can be set in the **Properties** options.

Fax options

Tap > **Programs** > **KSE Truefax 2.0** > **Tool** > **Fax**

- The **Fax** options dialog lets you choose the **Resolution** of your fax. Select the **Fine** resolution to generate high-quality faxes, or choose the **Normal** resolution for optimal transmission rates.
- Activate the **Play sounds after send** checkbox to hear a sound prompt after a completed send or receive action.

9.8 MIDlet Manager

Your Pocket PC phone supports Java 2 Edition, J2ME. The MIDlet Manager allows you to download Java applications such as games and tools specifically designed for mobile devices. You will find that some Java applications and games may have already been installed on your device. The Java MIDlet Manager gives you the flexibility of installing and managing additional J2ME applications from the Internet.

Installing MIDlets directly from the Internet

You can install MIDlets/MIDlet suites directly from the Internet using **Internet Explorer** in conjunction with the **MIDlet Manager**.

1. Connect to the Internet and locate a MIDlets/MIDlet suite you wish to download (this is normally a **.jad** and a **.jar** file).
2. Select the MIDlets/MIDlet suite and download it.
3. You will be asked to confirm before the download begins.
4. A progress screen is displayed while the files are being downloaded. You may cancel the download at any time.

Once your download is completed, the **MIDlet Manager** will automatically start and prompt you to install your new MIDlets/MIDlet suite. You must confirm that you want to proceed and the installation of your MIDlets/MIDlet suite is completed. Alternatively, you can cancel the installation at any time.

Installing MIDlets from a PC

You can install MIDlets/MIDlet suite onto your Pocket PC Phone from your PC using the USB sync cable, the optional cradle, infrared or Bluetooth. MIDlets transferred to your Pocket PC Phone using infrared, Bluetooth, or as E-mail attachments are automatically saved in the **My Documents** directory.

To install MIDlets via a physical connection (such as USB sync cable or cradle) use Windows Explorer to copy your MIDlet file(s) from your PC to any of the following temporary directories listed below, from where they can be installed by the **MIDlet Manager**.

1. Pocket PC memory
Mobile Device\My Pocket PC\My Documents\My MIDlets

2. Storage card
Mobile Device\My Pocket PC\Storage Card

- If the folder **My MIDlets** not exist in **My Documents**, you need to create one with exactly the same folder name.

- The folder **Storage Card** will automatically appear once you insert the SD card to your Pocket PC Phone.

Once the file(s) have been copied to your Pocket PC Phone or to your storage card, you must install the MIDlet/MIDlets suite:

1. Tap > **Programs** > **MIDlet Manager** > **Menu** > **Install.**
2. The **Install** screen will open, containing a list of all available MIDlets/MIDlet suites.
3. Select one and choose **Install** from the pop-up menu. You will be prompted to confirm your choice.

Optionally, you can remove the MIDlet files from the temporary folder you used by tapping **Delete** from the pop-up menu.

Running MIDlets

The **MIDlet Manager** enables you to run MIDlets/MIDlet on your Pocket PC Phone. You can leave MIDlets running in the background while you perform other tasks on your Pocket PC Phone. You can have multiple MIDlets running at the same time, depending on the total amount of memory available on your Pocket PC Phone.

1. Tap > **Programs** > **MIDlet Manager.**
2. Select a suite and tap to run the MIDlet. The MIDlets/MIDlet suite you selected will open within the **MIDlet Manager** window.

You can tap **Show** > **Running** to display the MIDlets/MIDlet suite currently running on your Pocket PC Phone. You can also return to a running MIDlet by selecting it from this screen.

You can also tap the **Show** > **Recent** option to display up to the **9** most recently used MIDlets.

Stopping MIDlets

Some MIDlets have an exit or stop command within their menu structure, which are determined by the specific software developer.

Stopping a MIDlets/MIDlet suite:

To stop an individual MIDlet, navigate to the **Running MIDlets** screen:

1. Tap > **Programs** > **MIDlet Manager.**
2. Tap **Show** > **Running.**
3. Tap and hold the MIDlet you want to stop and then select **Stop** from the pop up menu.

Stopping all MIDlets

To stop all the MIDlets running on your Pocket PC Phone, navigate to the **Running MIDlets** screen:

1. Tap > **Programs** > **MIDlet Manager.**
2. Tap **Show** > **Running.**
3. Tap **Menu** > **Stop All**.

Once your MIDlets have been stopped, you will be returned to the **MIDlet Manager** window.

Managing your MIDlets/MIDlet suites

You can organize your MIDlets into groups and define custom groups. You can manage the default settings for MIDlets, including security settings.

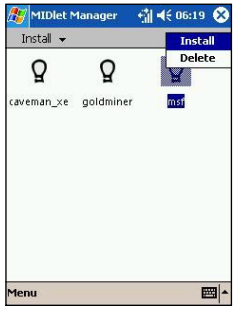
Customizing your display settings:

1. Tap **Sort By** menu on the up-right corner of the **MIDlet Manager** screen to personalize your display options.
2. You can choose your MIDlets/MIDlet suite to be sorted by **Name** (A to Z) or by **Size** (small to large).

Changing the display name of your MIDlets

You can change the displayed name of any MIDlet on your Pocket PC Phone. However, you cannot change the names of MIDlet suites.

1. Tap and hold the MIDlet you wish to change the name of and the then select **Rename** from the pop-up menu.
2. Enter the new name for your MIDlet in the dialogue box and press **OK** to confirm, or **Cancel** to abort.



Un-installing MIDlets/MIDlet suites

You can remove MIDlets/MIDlet suites from your Pocket PC Phone's memory. To do this, ensure that the MIDlets/MIDlet suite is not running.

1. Select the MIDlets/MIDlet suite in the **MIDlet Manager** window and choose **Un-install**.
2. You will be asked to confirm your decision by selecting the **OK** option. The MIDlet is then erased from your Pocket PC's memory.

You cannot un-install a single MIDlet from a MIDlet suite. You must un-install the complete MIDlet suite.

To assign a group to a MIDlets/MIDlet suite

1. Tap and hold on a MIDlet you wish and choose **Group** from the pop up menu in the **MIDlet Manager** window.
2. The **MIDlet Manager** window contains a drop down box with a list of group names. Choose one of these and tap **OK**.

You can adapt existing groups to meet your needs. Once a MIDlet has been assigned to a group, that group's name will appear on the **Show** menu, and you can choose any group and view the MIDlets in it.

System Info

You can see the information about the currently used space of the MIDlets/MIDlet suite you have selected by tapping **Menu > System Info**. If the manufacturer has limited the total storage space for MIDlets, the limit and the amount currently available is also shown.

Network Type

Tapping **Menu > Choose Network Type** enables you to choose your connection from the available list.

MIDlet Security

You can adjust security settings for each MIDlets/MIDlet suite by selecting a MIDlet and choosing **Security**. Note that some features may not be available for all MIDlets/MIDlet suites.

Security Option	Description
Net Access	Determines whether a MIDlets/MIDlet suite can access the Internet.
Local Connectivity	Enables a MIDlets/MIDlet suite to access services such as RDA and Bluetooth. Refer to your Pocket PC Phone's manual for the features available on your handset.
App Auto Run	Enables a MIDlets/MIDlet suite to run at specified times, or any time
Messaging	Determines whether a MIDlets/MIDlet suite can send and/or receive SMS messages.

Multimedia Recording	Enables a MIDlets/MIDlet suite to record sounds and images. Refer to your Pocket PC phone's manual for the features available on your handset.

Error Messages

When the **MIDlet Manager** encounters problems with a MIDlets/MIDlet suite, it displays an error message. Below is a list of error messages you may encounter, and their meaning:

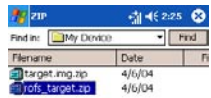
Message	Meaning
Either RAM shortage, or insufficient space on the filesystem	Insufficient memory available on your Pocket PC Phone
Network out	No network connection available
The jar size does not match that specified in the jad	The installation information provided by the MIDlet manufacturer is inaccurate
The jar manifest does not match the jad	The installation information provided by the MIDlet manufacturer is inaccurate
Invalid Java application descriptor (jad)	There is a problem with the installation file provided by the MIDlet manufacturer
Invalid Java archive (jar)	There is a problem with the installation file provided by the MIDlet manufacturer
This Java application is not compatible with this device	One of more features required by this MIDlet is not available on your Pocket PC Phone
Unable to verify digital signature	There is a problem with the security information provided with this MIDlet suite
The suite requested permissions it may not have	There is a problem with the security information provided with this MIDlet suite
Push registration failure	There is a problem registering this MIDlet on your Pocket PC Phone

9.9 ZIP

ZIP allows you to save memory and increase the storage capacity of your Pocket PC Phone by compressing files in the conventional "zip" format. You can view and extract archive files received via web download, E-mail attachment, other mobile devices, or PCs. Or, create new zip files on your Pocket PC Phone.

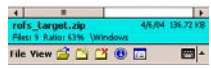
Starting ZIP

Each time ZIP is started, it will search for all files on the Pocket PC Phone that have the .zip extension, and displays these files in the Archive List screen. To start ZIP:



1. Tap > **Programs** > **ZIP**
2. A list of .zip files will display on the Archive List screen.
3. Tap on a file to open it.

Once a .zip folder has been opened you tap on the Action menu to add, extract the files, or send them via E-mail or Infrared to another receipient.



Customizing View

You can manipulate how the files or parent archive files are displayed by taping on **View**, and selecting either **Large Icons**, **Small Icons**, **List**, or **Details**. The tabs in the **Tools Menu > Options** screen also allow you to set various ZIP behaviors to your own preferences. Each tab also contains a **Reset** button which resets all settings in the current tab to the original default settings.

Archive List screen

When a search for archive **.zip** files has completed, they will be listed in the **Archive List** screen in the order that they were found. In this screen, there are two menus available, the **File Menu** and the **View Menu**. The Toolbar is not displayed in the **Archive List** screen because the following icons are incorporated into the Command Bar at the bottom of the screen: **Open Archive**, **New Archive**, **Delete Archive**, **Archive Properties**, and **Options**. To open the pop-up menu in the **Archive List** screen, tap-and-hold on any filename in the list. The selected file will be the target of any operations performed from the menu. (Multiple selection of .zip files is not allowed.) After an archive file has been opened, **ZIP** will list the files in the **Individual File** screen.

The **New Archive...**lets you create a new empty file with a filename extension of .zip. You can then select **Open Archive** on the File Menu to open it in the Individual File screen, then use the **Add** command on the Action Menu or Toolbar (in the Individual File screen) to compress and add individual files to it. **ZIP** automatically compresses the files before adding them. The default compression level is a compromise between speed and ratio of compression. This can be changed in the **Tools Menu > Options > Action** tab. If you wish to select multiple files, you can use **Action Menu > Multi-Select Mode**.

Select **Archive Properties...** to view information about the current archive file.

If the Individual File screen is currently displayed and you want to switch back to the Archive File screen, select **Find Archive** on the File Menu or on the Toolbar.]

Extracting (copying) files to another folder

The **Extract** command copies the selected file or files in the current open archive, then moves the copy to the folder of your choice. Select the desired file(s), then tap **Extract**. The **Extract** screen will open. Tap the **Selected Files** button to copy and move only the selected files, or tap **All Files** to copy and move all files in the folder (regardless of whether specific files were selected prior to tapping Extract...). If you wish to automatically overwrite any existing files that might have the same name in the destination folder (without being prompted), check the **Overwrite Existing Files** checkbox. If you do not check this checkbox, and files are found in the destination folder with the same name, you will be asked to confirm. If the **Apply Path** checkbox is not checked, the extracted files will be copied to the current folder. If the **Apply Path** checkbox is checked, *ZIP* will create a new subfolder in which to place the extracted files. Tap the **Extract** button.

The **Integrity Test** command is used in **ZIP** to check and see if the data in all of the individual files currently listed in the display area are correct. To obtain data reliability, **ZIP** uses a common but powerful technique for error detection known as CRC (Cyclic Redundancy Check). The CRC value, obtained by algorithm, is listed when you use Details view (if the **CRC** checkbox is checked in the **View** tab of **Options**). It doesn't matter if there are any individual files currently selected or not. When you tap **Integrity Test**, all files contained in the current archive will automatically be tested for data correctness and reliability. A message will then appear and tell you whether the file data is correct.

When the contents of an archive file is listed and it contains one or more subfolders, you can use **Show Folders** on the View Menu to display the subfolder(s) as open or closed. When **Show Folders** is active, only the subfolder name (and subfolder icon) will be shown in the file listing. When **Show Folders** is not active, the subfolder name will not be shown in the file listing. Instead, the individual files within that subfolder will be listed along with any other files that might be contained in the archive.

Chapter 10

Using Camera and Album

10.1 About Camera and Album
10.2 Camera
10.3 Album

10.1 About Camera and Album

With the **Camera** application, you can use your Pocket PC Phone's camera to snap new photos, or shoot video clips with accompanying audio. The companion program, **Album**, provides powerful features to manage, organize, and manipulate image, video, and audio files that you have captured or obtained from other sources (from received E-mail, a Storage Card, infrared beaming, or sychronized from PC, Smartphone, etc.).

In **Camera**, the **Photo** capture mode allows you to capture standard still images. In **Picture Theme** mode, you can place your captured images into attractive frames (templates). Or, switch to the **Video** capture mode and capture "live" video streams (with audio, if desired), then share them with others or play them on your own Pocket PC, desktop PC, or Smartphone whenever you want. You can even send the captured files via E-mail or MMS. Just "snap and send" a newly-captured image/video, or "select and send" an existing one. The **MMS Video** capture mode is intended especially for capturing video clips that will be compatible for sending immediately via MMS.

In **Album**, you can organize your image, video, and audio files into albums and slide shows. You can browse/play them in a variety of view modes, and manipulate them (add text or audio annotation, rename, view properties, etc.).

File formats supported

File formats that you can view and play in **Album** include:

File Type	Formats
Still-image formats	**BMP** **WBMP** **GIF** **JPEG**
Animation format	**Animated GIF**
Video formats	**Motion-JPEG AVI** (.avi) **MPEG-4 Simple profile** (.mp4) **3GPP-H.263 baseline** (.3gp)
Audio formats	**MPEG-4 AAC** (Advanced Audio Coding in .mp4 format) **WAV** **MIDI** (standard MIDI type 0,1, and SP-MIDI)

You can set an audio file to be used as your device's ringtone. For more information about ringtone settings, please see Chapter 5.

Capture formats

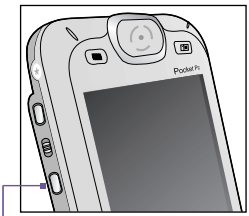
You can use the **Camera** program to capture files in the following formats:

File Type	Formats
Still-image formats	**BMP** **JPEG**
Video formats	**Motion-JPEG AVI** (.avi) **MPEG-4 Simple profile** (.mp4) **3GPP-H.263 baseline** (.3gp)

10.2 Camera

Three of the ways you can enter **Camera** mode are:

- Tap > **Programs** > **Camera.**
- Or, press the Camera button, the lowermost button on the left side of your Pocket PC (as illustrated at right).
- Tap the **Camera** icon in the **Album** program.



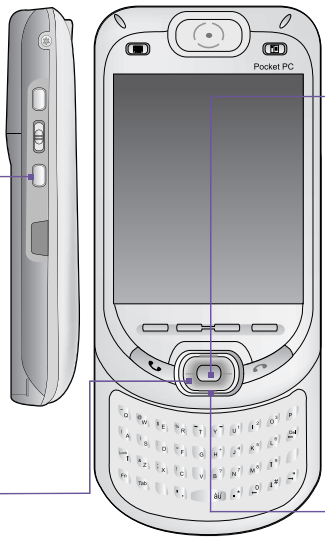
Press the Camera button to invoke the Camera mode

When you initially invoke **Camera**, the **Photo** capture mode will be active. The name of the current capture mode is displayed near the top of the screen, under the Title Bar. One way to easily switch to other capture modes is to tap the related icon near the lower right of the screen. Icons representing each of the four capture modes are located near the lower right of the screen, with the active one enclosed in a box. The four modes are:

- **Photo**: Captures standard still images.
- **Video**: Captures video clips, with or without audio.
- **MMS Video**: Captures video clips that are suitable for sending via MMS.
- **Picture Theme**: Captures a still image and places it into the template (frame) you have selected.

Camera Buttons

When the **Camera** mode is active, you can use the buttons identified below on your Pocket PC as shortcuts to performing the following functions:



Camera button

Press to launch the **Camera** mode. If in **Photo** or **Picture Theme** capture mode, press to capture an image. If in **Video** or **MMS Video** capture mode, press to start recording a video. Press again to stop recording.

Left and Right buttons

Select template:
In **Picture Theme** capture mode, press to select the previous or next template.

Select icons:
If in Review mode (after capturing an image or video), press to highlight the previous or the next icon in the Review screen.

Action button

Captures or selects:

If in **Photo** or **Picture Theme** capture mode, press the Action button to capture an image. If in **Video** or **MMS Video** capture mode, press to start recording, and press again to stop recording.
In the Review mode, press to confirm the option you have selected.

Up and Down buttons

Each time you press the **Up** button, the incoming video stream is **Zoomed In** (enlarged) by an increment of .2.
After zooming in, each time you press the **Down** button, it is **Zoomed Out** (reduced) by an increment of .2

Photo Mode

When in **Photo** capture mode, you can capture a single still image by pressing the **Camera** button on your Pocket PC Phone, or the **Action** button on the navigation pad. **Options** allow you to choose between JPEG or BMP as the output format for saved image files, specify a resolution, disable the "shutter" sound, etc. The captured picture will be immediately saved based on the specified filename convention you set in **Options**.

*The current Ambience setting is displayed here. To change, select **Ambience** from the Tools Menu.*

Name of the current capture mode, and related icon.

*The current **Zoom** setting (**1.0x** indicates normal size).*

*Camera automatically calculates how many more photos you can capture, according to your current settings and how much memory you have left. In this example, 9118 more images can be captured with the current settings and storage space available. This counter automatically updates after you take a picture, or if you change the Resolution or Encoder settings in **Options**.*

Tap an icon to change to the related capture mode. (The current active capture mode is framed.)

A green "film icon" indicates a capture-ready state. This changes to a red circle when image capture is in progress.

This image will be captured in the JPEG file format.

*Tap to switch to Thumbnail View of **Album** mode.*

The available Resolutions:

- *S = Small (160 x 120)*
- *M = Medium (320 x 240)*
- *L = Large (640 x 480)*

*Tap **Mode** and select **Manage...**from the menu to change the output file format (Encoder) or capture size (Resolution) settings.*

Video Mode

To start the video recording process, press the **Camera** button on the left side of your Pocket PC Phone, or the **Action** button on the navigation pad. To stop recording, press either button again. This captures the incoming video stream and saves it to a file, using your currently specified filename convention in **Options**. Or, if you have set a file size limitation using the **Limit Video File Size** field in the *Modes* tab of **Options**, recording will stop automatically when the KB size you specified is reached.

Video capture file formats include **Motion-JPEG AVI**, **H.263**, and **MPEG4**, depending on what you specify in the *Modes* tab of **Options**.

*Camera calculates how much time is still available for capturing more video clips, according to your current settings and how much storage space is available. In this example, 12 minutes and 32 seconds are available for new video capture. This counter automatically updates after you capture a video, or if you change the **Resolution** or **Encoder** settings in the Modes tab of **Options**.*
This indicator also functions as a time counter during video recording.

*Indicates that the current **Ambience** setting is set to **Daylight** and the current **Zoom** ratio is 2.0.*

Tap an icon to change to the related capture mode. (The current active capture mode is framed.)

A green "film icon" indicates a capture-ready state. This changes to a blinking red circle when video capture is in progress.

The available Resolutions:
- *S = Small (128 x 96)*
- *M = Medium (176 x 144)*
- *L = Large (320 x 240)*

*Tap to switch to **Thumbnail View** of **Album** mode.*

*Tap **Mode** and select **Manage...**from the menu to change the output file format (Encoder) or capture size (Resolution) settings.*

*When this **Audio On** icon is displayed, audio will be recorded along with the video. Tap this icon to toggle the Audio recording capability On or Off. When Off, video will be recorded silently.*

MMS Video Mode

The **MMS Video** capture mode is convenient if you want to capture a video file and then send it via MMS. To start an MMS video recording, press the **Camera** button on the left side of your Pocket PC Phone, or the **Action** button on the navigation pad. To stop recording, press either button again.

In order to be compatible with most MMS Composer software, video files typically need to be in the **H.263** (**3GPP**) file format, and the file size limitation is typically 95 KB. Therefore, a file size limitation of **95 KB** is permanently set for the **MMS Video** capture mode. When the video currently being recorded reaches a file size of 95 KB, the recording process will automatically stop. Although it is recommended that you use **H.263** as the output file format for videos to be sent via MMS, you can change it to **Motion-JPEG AVI** or **MPEG4** format.

*The file size is automatically limited to **95 KB** for each video captured using **MMS Video** capture mode. **Camera** automatically calculates the amount of time that can be recorded, according to the selected Encoder type and Resolution. In this example, a maximum of 10 seconds can be recorded.*

When video capture is in progress, this indicator functions as a time counter that displays the number of minutes/seconds that have elapsed during the current recording.

***Ambience** is set to **Fluorescent** (Tools Menu) and the current **Zoom** ratio has been set to **3.0** in this example.*

*In this example, the **Encoder** type (file format) is set to **H.263**. NOTE: When **H.263** is selected, the Large size (320 x 240) listed below is not available:*

- *S = Small (128 x 96)*
- *M = Medium (176 x 144)*
- *L = Large (320 x 240)*

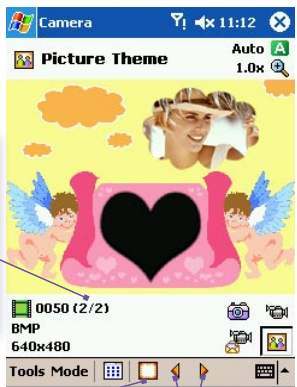
***Audio** recording is disabled. Tap to turn **On** or **Off**.*

If **Review after capture** is selected in the *General* tab of **Options**, the *Review* screen will appear. In it, the first frame of the newly-captured video file will be displayed, and you can take the desired further action. You can tap the **Send via MMS** icon in the *Review* screen to immediately initiate the “Send via MMS” process, which will open the *MMS Composer* screen.

Picture Theme Mode

The **Picture Theme** capture mode lets you choose a template in which your captured still image(s) will be placed. You can think of a template as a type of frame in which you would insert a photograph. Several templates are already included with your **Camera** program, in the sub-folder named **\My Documents\Templates**. There are three ways to browse and select different templates:

1. Press the **Right** or **Left** navigational button on your Pocket PC.
2. Tap the buttons to display the Previous or Next template.
3. Tap the *Templates* icon located at the bottom of the screen (shown in the illustration below) to display a pop-up menu of all the available templates.



This particular template requires two captured images. In this example, "2/2" is displayed because this template requires two image captures and one has already been captured. (The next image captured will be the second one).

*Tap this **Templates** icon to open a pop-up menu that lists all templates.*

You can also browse templates by tapping the Previous or Next buttons.

Review Mode

If the **Review after capture** checkbox is checked in the **Options** > **General** tab, the screen will display four icons after you have captured an image:

1. **Back to Preview**: Keep the new image file and go right back to the Capture screen.
2. **Send**: Immediately send a captured image/video, via **E-mail** or **MMS**.
3. **Delete**: Delete the image.
4. **View in Album:** Switch to Album mode to view/manipulate/edit the file in different ways.

Zooming In/Out

In the **Video** modes or **Photo** mode, you can press the **Up** navigational button on your Pocket PC Phone to zoom in on the incoming video stream. Each time you press the "Up" button, the enlargement increases by .2 (1.0, 1.2, 1.4, etc.). After having zoomed in, you can press the "Down" button to zoom back out.

Different maximum limits are available for Zooming, depending on the current capture mode and resolution. The table below summarizes the Zoom function availability.

Mode	Capture Size Setting	Zoom Available	Remarks
Video and **MMS Video**	Large (320 x 240)	**1.0x to 2.0x**	**1x** = normal size (no Zoom) **2x** = double enlargement **3x** = triple enlargement **4x** = quadruple enlargement
	Medium (176 x 144)	**1.0x to 3.0x**	
	Small (128 x 96)	**1.0x to 4.0x**	
Photo	Large (640 x 480)	**1.0x (no Zoom available)**	
	Medium (320 x 240)	**1.0x to 2.0x**	
	Small (160 x 480)	**1.0x to 4.0x**	
Picture Theme	Determined by currently loaded template. (Cannot be changed in **Options**).	Depends on the size of the currently loaded template.	

Tools menu

The **Tools** menu provides many settings that let you customize the behavior of **Camera** functions.

Ambience

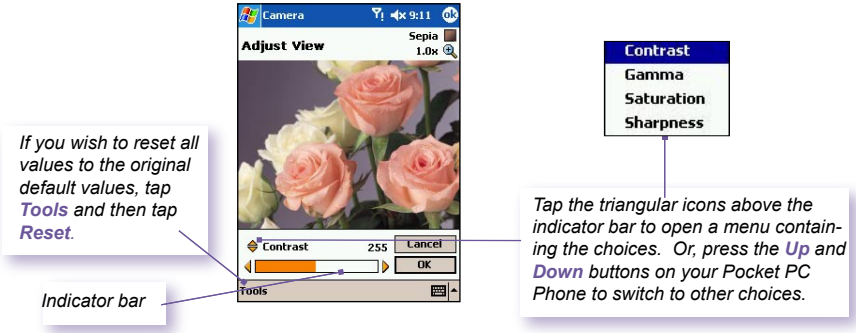
Ambience allows you to easily adjust the captured screen so that the incoming video stream is optimally displayed in various environments. The **Auto** setting is active by default, but **Daylight**, **Fluorescent**, **Incandescent**, and **Night** are also available.

Alternatively, you can select one of the other Effects, which also change the appearance of the incoming video stream.

- **Sepia** (reddish tint).
- **Grayscale** (shades of black, white, and gray, instead of color).
- **Cool** (bluish tint).
- **Negative** (darkness and lightness are reversed, as with a photographic negative).

Adjust View...

Adjust View enables you to adjust the display properties: **Contrast**, **Gamma**, **Saturation**, and **Sharpness**.



To adjust the value of the current selected View Property, press the **Left** or **Right** navigational buttons on your Pocket PC Phone. The preview window in the screen interactively shows the effects of the changes you have made in the incoming video stream. When you are ready to save all changes and return to the capture screen, tap **OK**.

Options...

The **Options** screen contains four tabs: **General, Image**, **Video,** and **Modes**.

The General tab

The options in the **General** tab are mostly self-explanatory. However, note that the **Flicker Adjustment** refers to the electrical voltage used in your country.

The Image tab

These options affect only the images you capture when in the **Photo** and the **Picture Theme** capture modes.

Options	Function
Prefix type and Prefix string	By default, the filename of each new captured image file is assigned a sequential number. For example, the first photo is filed under "image_00001.jpg." If you wish to change this prefix to a different arbitrary text string, select **String** in the **Prefix type** field and type the desired characters into the **Prefix string** field. For example, entering “party” in the **Prefix string** field would produce the filename **party_00001.jpg**. Alternatively, you can choose **Date** or **Date and Time** as the **Prefix type**.
Counter index	By default, sequential numbers are automatically incorporated into each filename for all new image files you capture, such as 00000, 00001, 00002, etc. To reset the numbering to “00000” for your captured image files, tap the **Reset counter** button.
Storage folder	By default, your captured image files will be saved to your **\My Documents\My Pictures** folder. The current Save folder is displayed in the **Image** tab. If you wish to change the Save folder, tap the **Change...** button. Select the desired folder and tap **OK** on the status bar.
Templates folder	By default, captured image file templates are saved to your **\My Documents\Personal** folder. If you wish to change the folder, tap the **Change...** button. Select the desired folder and tap **OK** on the status bar.

The Video tab

These options affect only your captured videos: the **Video** and **MMS Video** modes.

Options	Function
Prefix type and Prefix string	By default, the file name of each new captured video file will be “video” followed by a sequential number. For example, "video_00001.avi." If you wish to change this prefix to a different arbitrary text string, select **String** in the **Prefix type** field and type the desired characters into the **Prefix string** field. For example, entering “vacation” in the **Prefix string** field would produce the filename **vacation_00001.avi**. Alternatively, you can choose **Date** or **Date and Time** as the **Prefix** type.
Counter index	By default, sequential numbers are automatically incorporated into each filename for all new video files you capture, such as 00000, 00001, 00002, etc. The number follows the **Prefix** (explained above). To reset the numbering to “00000” for your captured video files, tap the **Reset** counter.
Storage folder	By default, your captured video files will be saved to your **\My Documents** folder. The current “Save” folder is displayed in the Video tab. If you wish to change the “Save” folder, tap the **Change...** button. A “tree view” of your existing folders will be displayed. Select the desired folder, then tap **OK** on the status bar.

The Modes tab

The **Modes** tab provides the flexibility to change certain settings for each **Capture** mode. You can access it in two ways: Select **Options** from the **Tools** menu, or select **Manage...** from the **Mode** menu. Options in the **Modes** tab will vary, depending on the selected **Capture** mode.

Mode menu

In the **Mode** menu, the names of the four **Capture** modes are listed. Select the **Capture** mode you want to invoke: **Photo**, **Video**, **MMS Video**, or **Picture Theme**.

Manage

Selecting **Manage** from the **Mode** menu will open the **Modes** tab of **Options** directly. The **Modes** tab allows you to change the **Encoder** and **Resolution** settings of the various **Capture** modes, if desired. Alternatively, you can also access the **Modes** tab by selecting **Options...** from the **Tools** menu.

10.3 Album

Album allows you to view image and video files, and play audio files. Four view modes are available: **Thumbnail**, **Detailed**, **Slide Show**, and **Full Screen**.

To start **Album**:

- Tap > **Programs** > **Album**.
- Or, tap the **Album** icon in the **Camera** screen.

Thumbnail view

The first time you enter **Album**, the **Thumbnail** view mode will be invoked. By default, your **\My Documents\My Pictures** folder will be initially searched. You can manually change the position of a thumbnail simply by pressing your stylus on it and then dragging it to the desired location. To select multiple thumbnails, press your stylus in an empty part of the screen, then drag your stylus across all thumbnails you want to include in the multi-selection.

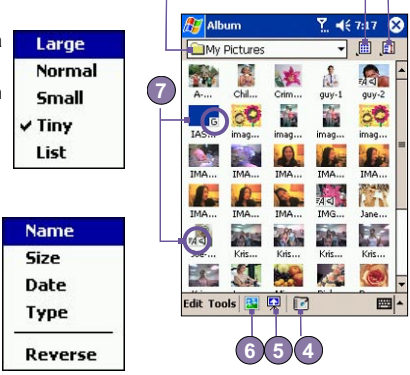
1. The current folder is shown here. Tap this field if you want to switch to a different folder.
2. Tap to select a different thumbnail size.
3. Tap to change the way thumbnails are sorted.
4. Tap to switch to **Camera** mode.
5. Tap to switch to **Slide Show** view.
6. Tap to switch to **Detailed** view. (Or, tap directly on a thumbnail to load that file into **Detailed** view.) Audio or video files will begin playing.
7. An icon in the lower left or right corner of a thumbnail indicates the following:

   A - indicates that text annotation has been associated with this file.

   G - indicates an animated **GIF** file.

   V - indicates a video file.

   - this speaker icon indicates that audio annotation has been associated with this file.



To open a pop-up menu that contains frequently used commands, tap and hold your stylus on the thumbnail you want to operate on. To view an image in an enlarged view, or to play a video or audio file, tap the desired thumbnail.

List View:

To make an annotation on your file:

The **Annotate...** command lets you add and remove text or audio annotation for a file. The particular text and audio recording can then be set to display or play during a slide show. In the **Thumbnail view** mode screen, tap on **Edit** and then select **Annotate...**, or select it from the pop-up menu.

To make a text annotation:

If you wish to associate text with the file, enter it in the text box. After text annotation has been added, will be shown on the file in the thumbnail. A separate text file will be created for that text.

To make an audio annotation:

To create an audio recording (either voice or music) as an annotation using your built-in Pocket PC microphone, tap to begin recording, tap to stop recording. After audio annotation has been added, will be shown in the thumbnail. A separate .WAV audio file will be created.

There is no warning when you record over an existing file. Your previous recording will be overwritten by the new recording. If you have tapped **Remove Voice** by accident, tap **Cancel**.

NOTE: You cannot record an audio annotation for a video file that has sound. This function is automatically disabled when you work with a video file with sound.

Sending a file via E-mail or MMS

1. Select the desired file, tap **Tools,** and then select **Send via MMS** or **Send via E-mail...** from the menu.
2. Follow the relevant procedures for sending that type of message.

To set audio files as Ringtones:

Select the desired audio file, then select **Set as Ringtone** from the **Tools** Menu (or the menu that pops up when you tap and hold on a thumbnail). The previous ringtone will be immediately replaced. A message will display the filename and confirm that the operation was successful.

Assign to Contact

This command allows you to assign an image as a **Photo ID** to a **Contact** entry in your **Pocket Contacts**.

1. Choose the image you want to use as a **Photo ID**.
2. Select **Assign to Contact**. The **Photo Contacts** application will be invoked. The Contact entries in your Pocket Contacts will be displayed.
3. Select the Contact entry to which you want to assign the **Photo ID**, and assign the desired attributes as you normally would in **Photo Contacts** (Photo only, or photo with template, etc.).
4. The **Photo Contacts Preview** screen will show you a preview of how the **Photo ID** setup looks. After you save it, **Photo Contacts** will exit, and you will automatically be returned to the **Album** program.

Options

To change the **Album** settings, tap **Options** on the **Tools** menu. Three tabs are available: **General, Association,** and **Slide Show**.

The General tab

Function	Explanation
Default zoom	The setting in the **Default zoom** field controls the size of the selected file when it is initially displayed in **Detailed View**. If set to **Smart**, **Album** will automatically calculate the best size in which to display the file on the screen. However, if you want files to initially display in their original size, select **Original size** from the drop-down list box. If you want **Camera** to automatically display selected files so that they fit within the screen, select **Fit to window**.
Full screen rotate	If *None* is selected, no automatic rotation will take place when a file is displayed in **Detailed View** (but you can still rotate the display manually using the **Rotate Clockwise** and **Rotate Counterclockwise** icons on the toolbar in **Detailed View**). Select **Left** to automatically rotate images 90 degrees to the left in **Detailed View**, or **Right** if you want to rotate 90 degrees to the right.
Animation speed	The setting in the **Animation speed** field controls the speed at which animated GIF files are played. By default, this is set to **Normal**. You can select **Faster**, **Slower**, or **No Delay** from the drop-down list.
Keep backlight on while playing video	If you have set your **Backlight** to dim after a certain number of seconds, you can override it by checking this checkbox. This ensures that the **Backlight** will not dim during the video playbacks.
Keep system powered on during video and audio playback	Overriding your system's power settings ensures that the system will not automatically power off your device whenever a video playback or audio playback is in progress.
Adjust Gamma	The **Adjust Gamma** setting controls image brightness/darkness. The minimum setting of 0.01 will cause images to display very dark. The maximum setting of 3.00 will cause them to display very light (“wash out”). If you change this setting, you can conveniently reset it to 1.00 by tapping the **Reset** button. This feature assists you in viewing an image more easily under different lighting conditions.

The Association tab

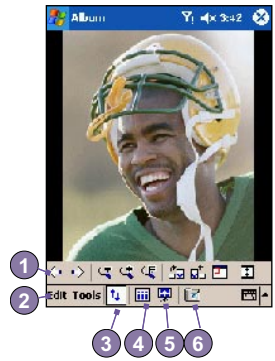
You can associate any or all of the supported file types with **Album**. When selecting a file of the associated type in the **File Explorer**, it will automatically open using **Album**.

The Slide Show tab

These settings control only the behavior of **Slide Show** view mode. These options are mostly self-explanatory, just choose the item you need and follow the relevant procedures for the way you want the **Slide Show** to work.

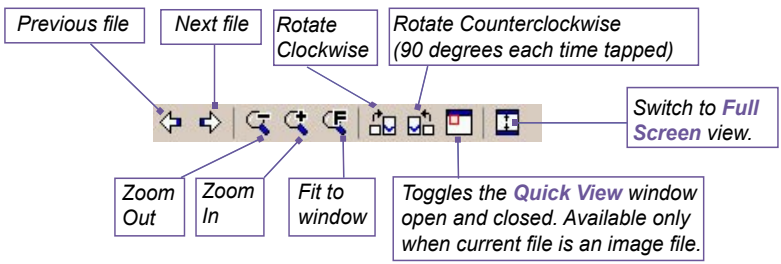
Detailed View Mode

Detailed View mode displays the selected file in an enlarged view, and you can further manipulate the view in various ways (zoom, rotate, pan, etc.).



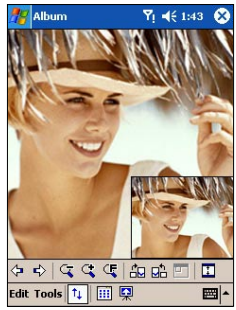
1. **Toolbar.**
2. **Command Bar.**
3. Hide or display the **Toolbar**.
4. Switch to **Thumbnail** view.
5. Switch to **Slide Show** view.
6. Switch to **Camera** mode.

Icons on the Toolbar



NOTE: **Full Screen View** will hide the Title Bar, Toolbar, and Command Bar, so the full screen is utilized for image/video display.

Images too big for the screen



1. Whenever the image is too large to be shown in the display area in its entirety, you can press your stylus anywhere in the display area and drag to interactively **quick-pan** the image to any desired position.

2. Alternatively, you can open the **Quick View** window, by tapping the **Quick View** icon on the **Toolbar**. The dotted outline within the **Quick View** window shows the currently displayed portion, in relation to the entire image. Drag the outline within the **Quick View** window to the desired position, or tap within the **Quick View** window to jump the outline to a different position. When satisfied with the position, tap the **Quick View** icon again to close the **Quick View** window.

To set as Today wallpaper:

This command allows you to change the background image of the Today screen on your Pocket PC phone to any image you want.

1. In **Album**, tap to open a video file or image you want to use as the image for the wallpaper.

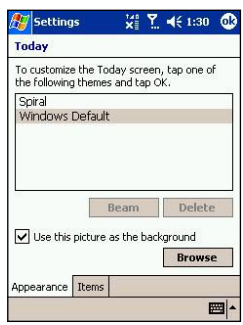
2. If desired, you can manipulate it in any way you wish: **Zoom In** or **Out**, **Rotate**, **Pan**, etc. The exact state of the image as displayed on your screen will be used as the **Today** screen image. Likewise, if you have chosen a video file and do not wish to use the first frame of the video as the wallpaper, you can start playing the video and then open the **Tools Menu** at the frame you want to use. (The video is paused when the menu is open.)

3. Select **Set as Today Wallpaper**. The message **"The Today screen background image has been successfully changed"** will display.

To Reset the Today Screen back to the Default Wallpaper:

If you later decide that you want to re-set the **Today** screen back to the original default background:

Tap > **Settings** > **Today** icon in the **Personal tab**. Select **Windows Default** in the list, then make sure the **Use this picture as the background** checkbox is checked, then tap **OK**.



Slide Show View

When in the **Thumbnail** view or **Detailed** view, you can tap the icon in the Command Bar to enter **Slide Show** mode.

In the **Slide Show** mode, all image, video, and audio files will automatically be displayed/played, after one another. If video and audio files are encountered during a **Slide Show**, they will be played once, and then the next file in the **Slide Show** will be displayed/played. However, you can play it over manually again using the Play button on the Toolbar. Tapping anywhere on the screen will momentarily display the Toolbar, explained below.

*Tap to re-display the previous file. Tap repeatedly to quickly **Rewind** to the desired file. (The three leftmost icons become available after **Stop** has been tapped.)*

*Tap once (or repeatedly) to **Fast Forward** to the next sequential files.*

*Tap to resume playing a **Slide Show** that has been stopped.*

*Tap to stop playback and stay on the current slide, but does not exit the **Slide Show** mode.*

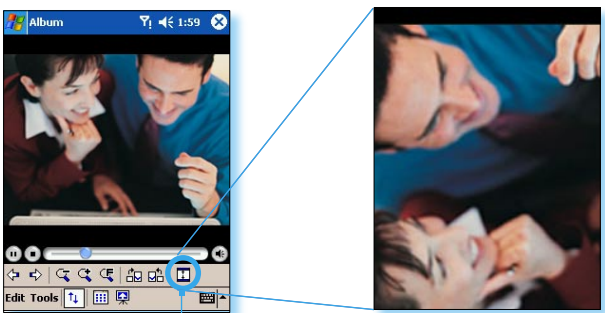
*Exits the **Slide Show** and enters the **Detailed** view.*

*Exits **Slide Show** mode and enters **Thumbnail View** mode*

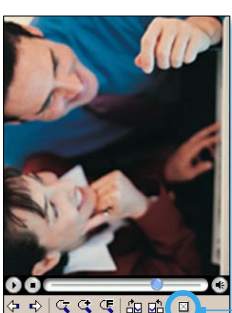
***Slide Show** Properties. Lets you set **Transition Effects**, **Rotation**, **Text** display, **Audio**, **Delay Time** between slides (for image files), **Random** or forward-sequential display, etc. in the **Slide Show Options** screen.*

Full Screen View Mode

You can enter the **Full Screen View** only from the **Detailed View**. In the **Detailed View** mode, simply tap the **Full Screen** icon on the Toolbar to switch to **Full Screen**.



Tap to switch to Full Screen View mode.



As with the **Detailed View**, if the image or video is currently displayed in a size that is too large to fit in its entirety on the screen, you can "pan" the desired portion into view by pressing and dragging your stylus on the screen.

When you are ready to exit the **Full Screen View**, tap anywhere on the screen to display the **Toolbar**. Tap the leftmost icon to exit. If no action is taken, the **Toolbar** will automatically disappear again after a few seconds.

Appendix A

Maintaining your Pocket PC

- Adding or Removing Programs
- Managing Memory
- Backing Up Files
- Resetting your Pocket PC Phone

Adding or Removing Programs

By default, programs added to your device at the factory are stored in the ROM (read only memory). You cannot remove these programs, and you will never accidentally lose them. You can install any other programs created for your device, as long as your device has enough memory. The most popular web site to find software for Pocket PC devices is *http://www.microsoft.com/mobile/pocketpc*.

To add programs using ActiveSync :

You will need to save the appropriate software to the hard drive of your PC before installing it on your device.

1. Download the program to your PC (or insert the CD or disk that contains the program into your PC). Be sure that the program is compatible with your Pocket PC before installing it.
2. Read any installation instruction or documentation that came with the program. Many programs provide their own installation instructions.
3. Connect your device to a PC.
4. Double click on the program's .exe file.
   - If the file is an installer, the installation wizard will begin. Follow the directions on the screen. Once the software has been installed on your PC, the installer will automatically transfer the software to your device.
   - If the file is not an installer, you will see an error message stating that the program is valid but was designed for a different type of PC. You will need to move this file to your device. If you cannot find any installation instructions for the program in the Read Me file or documentation, use the **Explore** command in **ActiveSync** to explore the program file to the **Program Files** folder on your device.

Once installation is completed, tap > **Programs** > program icon.

To add a program directly from the Internet :

1. Determine that your device and processor type meets the requirement of the software that you want to install.
2. Download the program to your device directly from the Internet using **Pocket Internet Explorer**. You should see a single ***.xip**, ***.exe** or ***.zip** file, a **setup.exe** file, or several versions of the files for different device types and processors. Be sure to select the program designed for the Pocket PC phone.
3. Read the installation instructions, readme files, or documentation that came with the program. Many programs provide their installation instructions.
4. Tap the file, such as a ***.xip** or ***.exe** file. The installation wizard will begin. Follow the directions on the screen.

To remove a program:

Tap > **Settings** > **System** > **Remove Programs**.

You can only remove programs installed in storage memory. Programs that came with your device cannot be removed. You can quickly return your device to the factory default configuration by clearing all memory. All data, except the installed ROM application, will be lost.

Managing Memory

Memory on your Pocket PC Phone is shared between the storage memory and the program memory. Storage memory is used to store the information you have created and the programs you have installed. Program memory is used to run programs on your Pocket PC Phone. The Pocket PC Phone automatically manages the allocation between the storage memory and the program memory.

To view memory allocation and availability:

Tap > **Settings** > the **System** tab > **Memory**.

Finding space in storage memory

Under certain situations, such as when the memory is low, your Pocket PC Phone may not be able to automatically adjust the memory allocation. When you receive a message stating that storage or program memory is unavailable, try the following solutions:

Move data to a SD storage card

1. Tap **Programs** > **File Explorer**.
2. Tap and hold the file you want to move, and tap **Cut**. Open the **My Documents** folder in the storage card folder, tap **Edit**, and then tap **Paste**.

Files stored in folders other than **My Documents** (or in folders under the sub-folders in **My Documents)** may not show up in the list view of some programs. When you use **Notes**, **Pocket Word**, or **Pocket Excel**, move files by opening the item and tapping **Tools** or **Edit** and then **Rename/Move**.

Move E-mail attachments

1. Tap **Messaging** > **Tools** > **Options**.
2. On the **Storage** tab, select **Store attachments on storage card,** and then tap **OK**. All existing and future attachments will be automatically stored on the storage card.

Save new items on a storage card

Set programs such as **Notes**, **Pocket Word**, and **Pocket Excel** to automatically save new items on the storage card.

1. In **Notes, Pocket Word, or Pocket Excel** > **Tools** > **Options**.
2. In the **Save to:** field select **Storage Card**.

Delete unnecessary files

1. Tap > **Programs** > **File Explorer**.
2. Tap and hold the file, and then tap **Delete** on the pop-up menu.

To find your largest files, tap and then **Find**. In the **Type** list, tap **Larger than 64 KB**, and then tap **Go**.

Delete all files and clear the history in Internet Explorer

From **Internet Explorer** > **Tools** > **Options** > the **Memory** tab > **Delete Files** > **Clear History**.

Backing Up Files

Because any new programs or data are stored in RAM, and therefore will be lost if your device loses power for any reason, it is critical that you back up the device's files to your PC or a **memory card**. You can back up files by synchronization while working on a PC. However, if you are unable to access your PC, you will need to back up files to a SD or MMC card. Your device enables you to back up individual files in **Word** or **Excel**. All files could be saved on a SD. Furthermore, you can also back up and restore **Contacts**, **Calendar**, **Internet** and **Messaging** Settings.

SD and MMC Cards

Your device has an expansion slot compatible with a range of SD and MMC Memory cards, which are primarily used to back up or transfer files and data.

To insert a memory card:

Push the memory card into its slot until it clicks into place. The card is secure when it is not protruding from the base.

To remove a memory card

To remove the card, push it in and then release, letting the card spring out.

Backing up or restoring your system using xBackup:

1. Tap > **Programs** > **xBackup** > then the **Backup** or **Restore** tab.
2. If you have inserted the SD card properly, it will appear next to **Target.** Tap **Open** and select **Storage Card** under the task bar.
3. Make sure that no applications are running, tap **Start**.

Backing up or restoring your system via ActiveSync

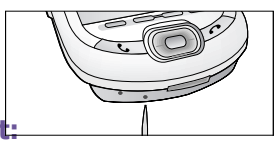
1. Double click on in the task bar of your PC.
2. Select the **Backup/Restore** option in the drop-down menu of **Tools** in **ActiveSync**.
3. Select the **Backup** tab to back up your system. If necessary, select the **Restore** tab to restore your system.

Resetting the Pocket PC Phone

You can perform a **soft reset** or a **full reset**. During a **soft reset**, the device is restarted and only some data in opened programs may be lost. However, a **full reset** turns the battery off, returns the device to its original factory settings, and deletes all programs, files, contacts and other information you have saved to the device. Therefore, it is extremely important to back up data to a storage card or your computer on a regular basis in the event that a **full reset** has to be performed.

To perform a soft reset:

If your Pocket PC Phone responds slowly, stops responding, or freezes, you can **soft reset** it. A **soft reset** causes the Pocket PC Phone to restart and re-adjust memory allocation. Unsaved data in any opened applications may be lost. Use the stylus to press and hold the **Reset** button, as shown bellow.



To perform a full reset:

A full device reset clears memory, deletes all data and restores the Pocket PC Phone to its default settings. Programs installed at the factory remain, erasing all data that you have created and programs you have installed.

Press and hold the **power button,** and then use the stylus to press the **soft reset button** at the same time. Be sure you have backed up all your data in a SD card or on your PC before performing a full reset.

Appendix B

Regulatory Notices

- Regulatory Agency Identification
- European Union Notice
- FCC Compliance Statement
- Important Health and Safety Information
- Troubleshooting

Regulatory Agency IDs

For regulatory identification purposes your product is assigned a model number **PH20BX**.

The following accessories have been approved for use with your device. Their assigned model numbers listed below can identify these approved accessories. To ensure continued reliable and safe operation of your Pocket PC Phone, use only the accessories listed below with your **PH20BX**.

Accessories	Model Number
Cradle	**PH25X**

This product is intended for use with certified Class 2 Limited Power Source, rated 5 VDC, maximum 2A power supply unit.

European Union Notice

Products 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 brackets are the equivalent international standards):

- **EN 60950 (IEC 60950)**
  Safety of InformationTechnology 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&TTE directive (1995/5/EC).
- **ETSI EN 301 489-1**
  Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
- **ETSI EN 301 489-7**
  Electromagnetic 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.
- **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.
- **GSM11.10**
- **ANSI/IEEE C.95.1-1992**
  Specific absorption rate in mobile phone emission condition for body health
- **EN50360, EN50361 for SAR**

FCC Compliance Statement

- **FCC part 15, 22 and 24**

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.

- **FCC ID : NM8 BLUEANGEL**

- **Statement according to FCC part 15.105**

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

- **Reorient or relocate the receiving antenna.**

- **Increase the separation between the equipment and receiver.**

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

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

- **RF EXPOSURES**

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. (Body-worn measurements may differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only High Tech computer, Corp. approved accessories. When carrying the phone while it is on, use the specific High Tech Computer Corp. supplied or approved carrying case, holster, or other body-worn accessory.

Use of non High Tech Computer Corp. approved accessories may violate FCC RF exposure guidelines and should be avoided.

Important Health and Safety Information

Retain and follow all product safety and operating instructions. Observe all warnings in the operating instructions on the product.

To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe the following precautions.

General Precautions

- **Heed service markings**
  Except as explained elsewhere in the Operating or Service documentation, do not service any product yourself. Service needed on components inside these compartments should be done by an authorized service technician or provider.
- **Damage requiring service**
  Unplug the product from the electrical outlet and refer servicing to an authorized service technician or provider under the following conditions:
  - Liquid has been spilled or an object has fallen into the product.
  - The product has been exposed to rain or water.
  - The product has been dropped or damaged.
  - There are noticeable signs of overheating.
  - The product does not operate normally when you follow the operating instructions.
- **Avoid hot areas**
  The product should be placed away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
- **Avoid wet areas**
  Never use the product in a wet location.
- **Avoid pushing objects into product**
  Never push objects of any kind into cabinet slots or other openings in the product. Slots and openings are provided for ventilation. These openings must not be blocked or covered.
- **Mounting Accessories**
  Do not use the product on an unstable table, cart, stand, tripod, or bracket. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- **Avoid unstable mounting**
  Do not place the product with an unstable base.
- **Use product with approved equipment**
  This product should be used only with personal computers and options identified as suitable for use with your equipment.
- **Adjust the volume**
  Turn down the volume before using headphones or other audio devices.
- **Cleaning**
  Unplug the product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning, but NEVER use water to clean the LCD screen.

Safety Precautions for Power Supply Unit

- **Use the correct external power source**
  A product should be operated only from the type of power source indicated on the electrical ratings label. If you are not sure of the type of power source required, consult your authorized service provider or local power company. For a product that operates from battery power or other sources, refer to the operating instructions that are included with the product

- **Handle battery packs carefully**

  This product contains a Li-ion Polymer battery. There is a risk of fire and burns if the battery pack is handled improperly. Do not attempt to open or service the battery pack.
  Do not disassemble, crush, puncture, short external contacts or circuits, dispose of in fire or water, or expose a battery pack to temperatures higher than 60°C (140°F).

Warning: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. TO REDUCE RISK OF FIRE OR BURNS, DO NOT DISASSEMBLE, CRUSH, PUNCTURE, SHORT EXTERNAL CONTACTS, HEAT 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.

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.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg *.

*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.

SAR Information

- **SAR : 0.201** W/kg @10g (Europe),
  0.201 W/kg @10g (Australia),
  0.273 W/kg @1g (Taiwan),
  0.502 W/kg @1g (USA)

THIS MODEL DEVICE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless mobile GSM 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.

The exposure standard for wireless mobile GSM phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg*.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with an accessory that contains no metal, and that positions the antenna of the GSM phone a minimum of 1.5cm from the body. The SAR values of this GSM phone are **0.502** W/g (body) and 0.129 W/g (head). Use of other accessories may not ensure compliance with the FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of ***http://www.fcc.gov/oet/fccid*** after searching on FCC ID: NM8 BLUEANGEL. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at ***http://www.devicefacts.net.***

* In the U.S. and Canada, the SAR limit for mobile GSM phones used by the public is 1.6Watts/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.

Troubleshooting

If you still encounter problems after reviewing this troubleshooting guide, contact your mobile operator or an authorized **Technical Support** center in your area.

Operating Problems

Problem	Solution
■ My Pocket PC Phone keeps turning itself off.	Your Pocket PC Phone is designed by default to turn itself off if not used for 3 minutes. This period can be adjusted to a maximum of 5 minutes. Refer to the **Power** setting in ***Chapter 5*** for more information.
■ My Pocket PC Phone is not making any sound.	1 Tap at the right side of the Title Bar to check the volume status. 2 Check the settings of **Sound and Notifications** on the **Personal** tab by tapping > **Settings.**
■ My Pocket PC Phone does not vibrate when the phone rings or alarms occur.	1 Tap at the right side of the Title Bar to check if the vibrate function is activate. 2 Check the settings of **Sound and Notifications** on the **Personal** tab by tapping > **Settings.** 3 Check the event note in your **Calendar** to see if the **Reminder** has been activated.
■ The screen freezes or the device is not responding.	Reset your device. See the ***Resetting your Pocket PC Phone*** section in ***Appendix A***.
■ The screen is blank.	If your Pocket PC does not respond when you briefly press the Power button, press and hold the button for a full second. If that does not work: 1 Plug the AC power into the device to charge it. 2 Reset the device. See the ***Resetting your Pocket PC Phone*** section in ***Appendix A***.

Problem	Solution
■ The screen is dark.	1 Check the **Brightness** setting by tapping > **Settings** > the **System** tab > the **Backlight** > **Brightness** tab. 2 Prolonged exposure to direct sunlight may also cause your Pocket PC Phone screen to temporarily darken. This is normal for LCD screens and is not permanent.
■ A **Running out of memory** warning message pops up on the screen.	Memory on your Pocket PC Phone is shared between **storage** memory and **program** memory: 1 Delete any unnecessary information you have entered to release more **storage** memory space. 2 Delete the unnecessary programs you have installed to release more **program** memory space. See the ***Managing Memory*** section in ***Appendix A***.
■ The **Battery low** warning message pops up on the screen.	Plug the AC power in to your device to charge it.
■ The screen is hard to read, or the text on the screen is too small for you.	If you are having a hard time viewing a document in **Notes**, try changing the size of the view by tapping a zoom percentage on the **Tools** menu. 1 For **Pocket Word** and **Pocket Excel**, on the **View** menu, tap **Zoom** and then select a zoom percentage. 2 For **Pocket Internet Explorer**, on the **View** menu, tap **Text Size** and then select a size. 3 For **Pocket Outlook** data, try enlarging the display font. To do this within **Calendar**, **Tasks** or **Contacts**, tap **Tools**, then **Options**, and then select **Use large font**.

Tapping and Writing Problems

Problem	Solution
■ Device buttons do not respond, or bring up the wrong program.	Check the **Buttons** setting to see if the program assignment for each function button is set as you wanted. Tap > **Settings** > the **Personal** tab > **Buttons.** For detailed information about **Button settings**, see ***Chapter 5***.
■ Inaccurate response to stylus taps.	Adjust the touchscreen to respond more accurately to screen taps. Tap > **Settings** > the **System** tab > **Screen** > **Align Screen**.
■ Pocket PC does not recognize handwriting.	For your Pocket PC to recognize your handwriting input with the stylus, you need to use **Transcriber** writing. To learn how to write in **Transcriber**, see ***Chapter 2***.

ActiveSync Problems

Problem	Solution
■ ActiveSync operation cannot be performed or connected.	1 Make sure the ActiveSync cradle/cable is connected securely. 2 Make sure you have installed the **ActiveSync software** included on the Pocket PC Phone 2003 companion CD. 3 Make sure you selected the appropriate local **USB** or local **Serial** from **File Menu Connection Settings** in the **ActiveSync Manager** window on your desktop computer. 4 If you are using the optional serial cradle/cable, make sure you are not running another program which also works with the serial port you have selected. 5 If ActiveSync still doesn't work, remove and re-install the ActiveSync software on your PC.

Problem	Solution
■ ActiveSync is connected, but data cannot be synchronized.	On your desktop computer, check the **Tools Menu > Options >** the **Sync Option**s tab in the **ActiveSync Manager** window to see if the information type for the program you want has been selected for synchronizing. See more details about synchronizing information in

Connection Problems

Problem	Solution
■ Unable to use **Infrared (IR) port** to transfer information.	1 Line up the IR ports so that they are unobstructed and within a close 20cm range. 2 Make sure that nothing is obstructing the two IR ports. 3 Adjust the room lighting. Some light sources interfere with IR connections. Try moving to a different location or turn out some lights. 4 Transfer only one file, or no more than 25 contact cards, at a time.
■ Cannot connect to ***Internet***, **web surfing** doesn't work.	1 Check that you have set up and connected to an Internet service provider. 2 Check that the wireless connection to your mobile service provider is switched on and the signal is un-obstructed. 3 Verify with your Internet service provider that your username and password are correct. See ***Chapter 7 Getting Connected***. Additional information is also available in ***Connections Help*** on the Pocket PC Phone and ***ActiveSync Help*** on the PC.

Problem	Solution
■ Problems with the **cable** and **cradle** connection.	1 Make sure that your Pocket PC Phone is turned on. 2 Make sure that you do not have any other active connections. Tap > **Today**, and then tap or at the bottom of the screen, and then **Disconnect**. 3 Make sure that the cable is securely plugged into the COM or USB ports on the back of your PC. Use the cable that came with the Pocket PC Phone without any extra cables or extenders attached. 4 Plug the other end of the cable securely into the correct port on your Pocket PC Phone. If you are using a cradle, push your Pocket PC Phone securely into the cradle.

Specifications

System Information

Processor	Intel PXA263 CPU at 400MHz
Memory	- ROM : 96 MB - RAM : 128 MB
Operating System	Windows Mobile™ software

Display

LCD Type	3.5" transflective TFT-LCD with back-light LEDs, touch-sensitive screen
Resolution	240 x 320 at 65,536 colors

GSM/GPRS (Quad-band) Module

GSM 850	824-849, 869-894 MHz
GSM 900	880 ~ 915, 925 ~960 MHz
GSM1800	1710 ~ 1785, 1805 ~ 1880 MHz
GSM1900	1850 ~ 1910, 1930 ~ 1990 MHz
Internal antenna	Yes

Camera Module

Type	Color CMOS camera module with reflecting Mirror
Resolution	VGA 480 x 640 with JPEG encoder
Camcorder	QCIF, Min 15 fps (in live mode), Max. 15 seconds per clip

Physical

Dimensions	71.6 mm (w) x 125 mm (h) x 18.7 mm (l)
Weight	190g

Expansion Slots

SDIO/MMC supports	Yes

Controls and Lights

Navigation Buttons	5-way navigation pad - 8 program buttons : Calendar, Contacts, Camera, VoiceDial, Star, Inbox, Internet Explorer, OK. - 2 phone function : Call, End - Volume control button (Up/Down) - Power on/off - Reset button
LED Lights 1 (on the right)	- Event notification - Charge status - GSM/GPRS signals
LED Lights 2 (on the left)	- Bluetooth system notification - WiFi system notification

Audio

Audio controller	AGC
Microphone/ Speaker	Built-in
Headphone	WAV/WMA/AMR/MAR-WB/AAC/ AAC+/MP3 stereo

Connection

Infrared	SIR
I/O port	22-pin individual port for signals (for USB, Serial, and power)
Audio	Stereo headphone jack (2.5Ø)
Bluetooth	1.1 compliant, power class 2
WiFi	IEEE 802.11b compliant

Power Supply

Battery	1490mAh (typical) Lithium Polymer removable, rechargeable battery
AC adapter	AC input/Frequency :100-140 VAC, 50-60 Hz, Rated Output: 5 VDC, 2A

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