

Mars II

PDA Phone

User Manual

O2/X da Zinc



E2694

First Edition V1

June 2006

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MarsII specifications

Processor	Intel® PXA270 520MHZ application processor
Operating System	Microsoft® Windows Mobile™ 5.0 Pocket PC Phone Edition
Memory	128 MB Flash ROM 64 MB RAM
Display	2.8-inch, 65, 536-color, 240 x 320-resolution, transreflective TFT touch screen LCD
Frequency band	GSM (900/1800/1900 MHz), WCDMA2100
GPRS	Class B, Multislot class 10
Connectivity	Wifi: 802.11b+g, Bluetooth: V2.0, Infrared: SIR, USB: USB Client 1.1
Camera	2.0 mega-pixel CMOS camera with Auto-Focus (AF) and built-in flash
Battery capacity	1300 mAh Lithium Ion
Expansion slots	MiniSD card slot
Audio	2.5 mm audio port Built-in microphone and speaker
Weight	165g (TBF) (with battery)
Design	Slider with QWERTY keypad
Dimension	109 x 58 x 22.6 mm

NOTE:

Specifications are subject to change without notice.

Package contents

Check your MarsII package for the following items:

- ASUS MarsII device x 1
- Battery x 1
- AC Adapter x 1
- USB Cable x 1
- Stylus x 1
- Protection case x 1
- Headset x 1
- Companion CD x 1, Bonus CD x 1
- User Manual x 1
- Quick Start Guide x 1

NOTE:

If any of the above items is damaged or missing, contact your retailer.

CAUTION:

- To reduce risk of fire, use only correct battery type. Refer to "Installing the SIM card and battery" section for details.
 - Do not attempt to disassemble the battery pack.
 - Dispose of used batteries properly. Inquire from local authorities for proper disposal of battery.
-

Chapter

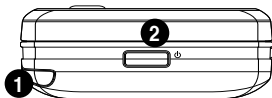


Getting started

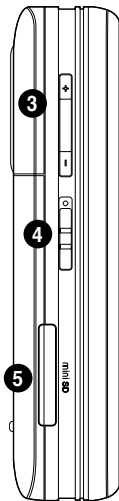
- Getting to know your MarsII
- Getting your device ready
- Starting up
- The Today screen

Getting to know your MarsII

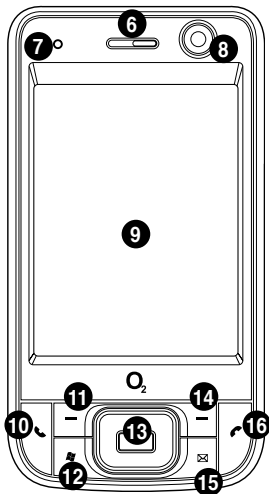
Layout



Top features



Left side features

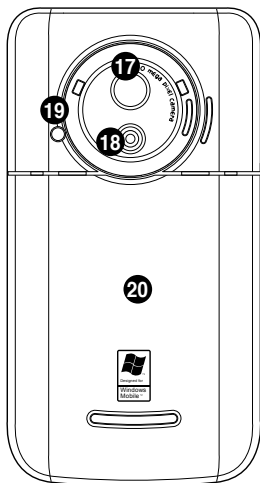


Front features

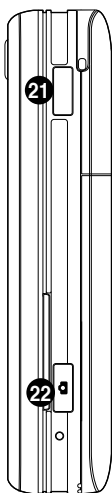
Components:

- 1 Stylus
- 2 Power button
- 3 Volume controller
- 4 Backlight switch
- 5 Mini-SD slot
- 6 Earpiece receiver
- 7 Notification LED
- 8
- 9 LCD touch screen
- 10 Call Key
- 11 Left Soft key
- 12 Start button
- 13 Navigation pad
- 14 Right Soft Key
- 15 Messaging
- 16 End Button

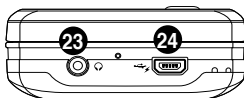
Getting to know your MarsII



Rear features



Right side features



Bottom features

Components:

- 17 Self-Portrait Mirror
- 18 Camera lens
- 19 Camera flash light
- 20 Battery compartment
- 21 Infrared (IR) port
- 22 Camera button
- 23 Earphone Jack
- 24 Mini-USB connector

Device components description

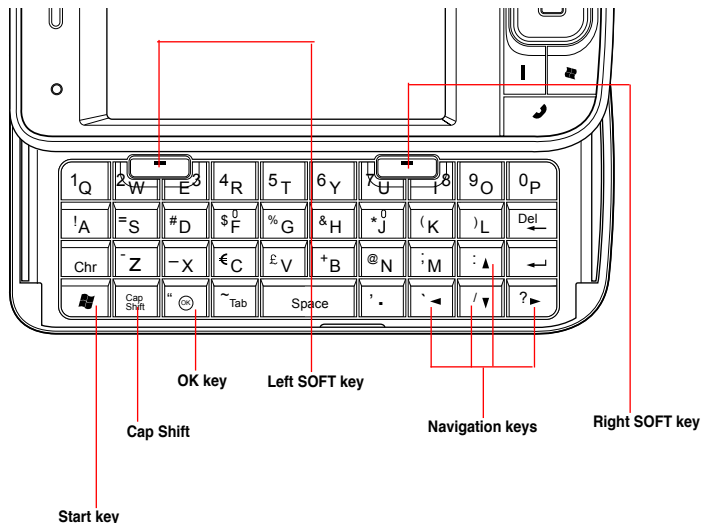
No.	Item	Description
1	Stylus	Use the stylus to write, draw, or select items on the touch screen.
2	Power button	Press once to set suspend mode or to wake device from sleep mode. Press and hold to turn the power ON or OFF.
3	Volume controller	Press the arrow buttons to adjust the volume.
4	Backlight Switch	Use this switch to adjust the brightness of the LCD touch screen.
5	Mini-SD slot	Allows you to insert a Mini-SD storage card.
6	Earpiece receiver	Allows you to listen to incoming/outgoing calls.
7	Notification LED	This multi-color LED notifies the following: • Green - Phone fully charged. • Flashing green - Network detected. • Red - Phone is charging. • Flashing red - Event notification. • Flashing blue - Bluetooth® or WLAN(IEEE 802.11b) ON.
8		
9	LCD touch screen	This 2.8-inch, 65536-color, 240 x 320-resolution, transreflective touchscreen TFT LCD allows you to write, draw, or make selections using the stylus.
10	Call key	Press to receive an incoming call or make a call.
11	Left Soft key	Performs the command indicated above the button.
12	Start button	Launches the Windows Mobile® start menu.

Device components description

No.	Item	Description
13	Navigation pad	Press this multi-directional control up, down, left, or right to move through menus, program instructions; carry out the selection by pressing the center button.
14	Right Soft key	Performs the task indicated above the button.
15	Messaging	Press to quick start your Messaging.
16	End button	Press to end a call.
17	Self-Portrait Mirror	Press this multi-directional control up, down, left, or right to move through menus.
18	Camera lens	This 2-megapixel camera comes with Auto-Focus (AF) lens and flash light features.
19	Camera flash light	Allows you to capture images in a dim environment.
20	Battery compartment	Contains the battery that supplies power to the device.
21	Infrared (IR) port	Allows you to beam data to another device that has an infrared port.
22	Camera Button	Press to launch the camera. In camera mode, half-press to auto-focus then full-press to take a picture. In video mode, full-press to start recording video and press again to stop.
23	Earphone Jack	Allows you to listen to audio media or use the phone's hands-free kit.
24	Mini-USB connector	Use this connector to synchronize your data or to charge the battery.

The QWERTY keyboard

MarsII device provides you with a QWERTY keyboard, which is similar to a standard PC keyboard. Slide the screen panel to the right to reveal the keyboard (see figure below) .



Using the QWERTY keyboard

You can follow the tips below to use the keyboard

- Using “Cap Shift” key to type uppercase letter.
- Press the Left/Right SOFT KEY to perform the command shown in the label above the key.
- Press “OK” key to verify your data entries or exit the program in use.
- Press “Start” key to launch the Start menu.
- Press the navigation keys for directional movement.

Getting your device ready

Installing the SIM card and battery

Before you can make a phone call using your MarsII, you need to install a Subscriber Identity Module (SIM) card. A SIM card contains your phone number, subscriber details, phonebook, and additional phone memory.

Your MarsII comes with a rechargeable Lithium-Ion battery.

New batteries come partially discharged and should be fully charged before using them. They generally do not reach their rated capacity until they have been charged and discharged at least four (4) times. We recommended that new batteries be charged overnight even though they may indicate that the charge is complete after a few hours. Sometimes charging may stop during the initial charge and it is necessary to remove the battery for approximately fifteen (15) minutes and then put it back on charge.

CAUTION:

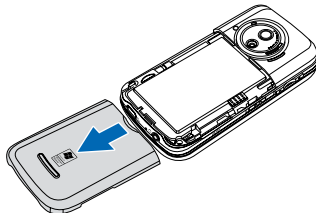
Use only an ASUS qualified battery.

To install a SIM card and battery:

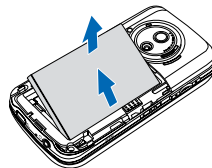
1. Remove the battery compartment over.

NOTE:

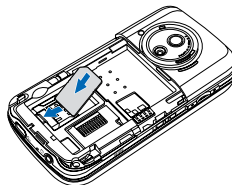
If the device is on, it automatically turns off after you open the battery compartment.



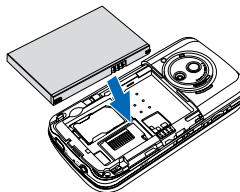
2. Remove the battery.



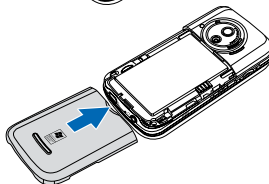
3. Insert the SIM card with its gold contacts facing down and the notched corner oriented to the upper left corner of the slot as shown.



4. Replace the battery into the compartment with its copper contacts aligned to the copper conductor on the device.



5. Replace battery compartment cover.

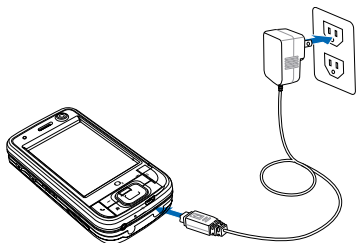


Charging the battery

The bundled battery pack is shipped partially charged. Charge the battery up to four (4) hours before using for the first time.

To charge battery:

1. Connect the AC adapter plug to the system connector at the bottom of the device.
2. Connect the AC power plug to a grounded wall socket or power strip.



NOTE:

- The notification LED turns red and charging battery icon appears on the status bar indicating that the battery is charging.
 - If your battery gets totally discharged, you need to recharge it for at least twenty minutes before you can turn it back on.
-

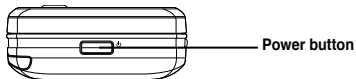
Starting up

Powering your device

Make sure that your MarsII is fully-charged before starting the device for the first time.

To turn on power:

1. Press and hold the power button.

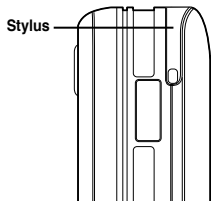


2. Follow onscreen instructions to align screen and set the local time zone.

Using the stylus

The stylus is a pen-like device found behind the upper right corner of your MarsII.

- Use the stylus to write, draw, select, or drag an item on the screen.
- Single-tap an item to select it.
- Tap and hold an item to see a menu.



Calibrating MarsII

Calibrating your device ensures that the item you tap on the screen is activated. This involves tapping in the center of targets that appear in various coordinates on the screen.

To calibrate your screen:

1. Tap **Start** > **Settings** > **System** tab then tap **Screen** icon.
2. On the **General** tab tap **Align Screen** and follow succeeding calibration screen instructions.

You can also invoke the calibration screen by simultaneously pressing the Mode and Clear buttons.



IMPORTANT NOTE:

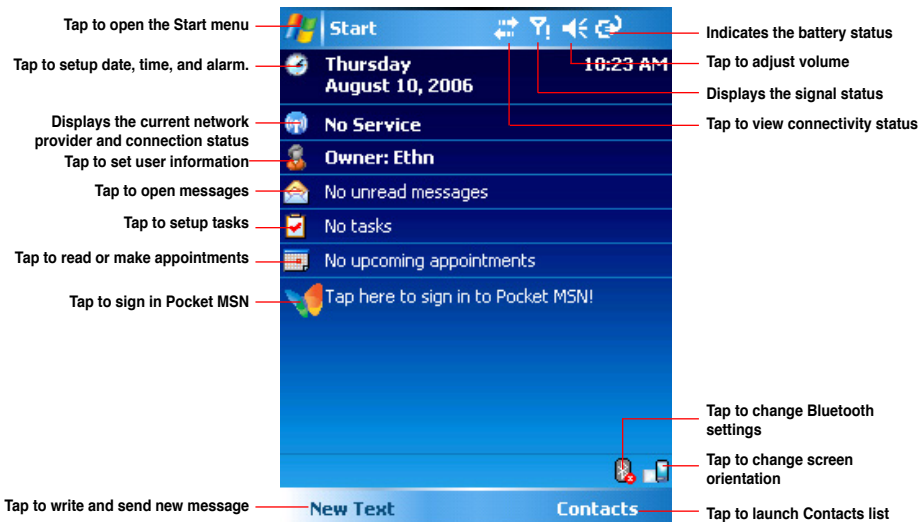
The figures, screens and information in the following sections and chapters are only for your reference. They may not be exactly the same as what is shown on the screen of your device.

The Today screen

The Today screen displays information useful to you. You can configure the Today screen to have all the important information you need.

- To access the Today screen, tap **Start** > **Today**.
- To personalize the Today screen, tap **Start** > **Settings** > **Personal** tab > **Today**.

The following describes the common information found on the today screen:



Status indicators

Refer to the table below for the Today screen icon status indicators.

Icon	Description
	General Packet Radio Services (GPRS) available.
	Connecting via GPRS.
	Connected via GPRS.
	Connecting with ActiveSync
	ActiveSync connection not active.
	ActiveSync synchronization in progress.
	Call forwarded.
	Call in progress.
	Call on hold.
	Missed call.
	New message.

Status indicators

Icon	Description
	New voice mail.
	No cellular phone service.
	No signal.
	Searching for cellular phone service.
	Indicates signal strength.
	Sound OFF.
	Sound ON.
	Battery low.
	Battery partially charged.
	Battery charging.
	Battery fully charged.

Status indicators

Icon	Description
	Searching Wi-Fi connection.
	Wi-Fi active.
	Roaming. This icon appears only if you have international roaming feature.
	Vibrate or silent mode on.
	Bluetooth headset connected.
	Bluetooth head connected with sound.
	Appears when you set alarm
	Pocket MSN service notification.
	Pocket MSN chat is online.

Screen orientation

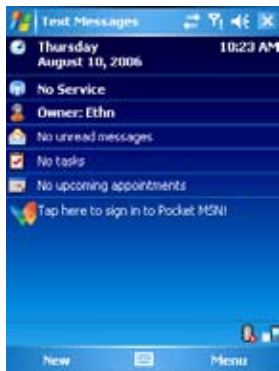
You can set the screen to three different orientations:

1. Portrait
2. Landscape (right-handed)
3. Landscape (left-handed)

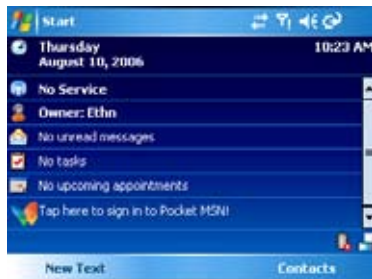
Set to Portrait mode to get a better view or better operation of certain applications on your device. Set to Landscape when viewing pictures, video or viewing longer text files.

To change the screen orientation, tap **Start > Setting > System tab > Screen** then select the orientation you want.

You can also change the orientation by tapping the  icon.



Portrait mode

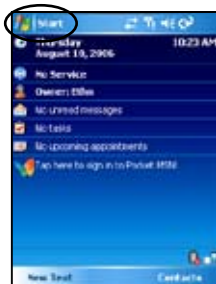


Landscape mode

Start menu

The Start menu contains various programs and applications that you commonly use.

Tap Start to display the start menu items:



Portrait mode

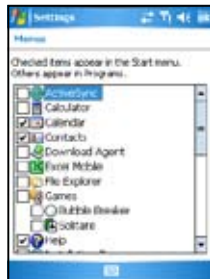


Landscape mode

You can also customize the items that appear in the Start menu.

To do this:

1. Tap **Start > Settings > Personal tab > Menus**.
2. Select the check boxes of the items you want to appear in the Start menu. You can select up to seven (7) items.



Chapter



Entering data

- Using the Input Panel
- Writing and drawing on the screen
- Recording voice
- Using ActiveSync™
- Synchronizing with Exchange Server
- Searching information
- Getting Help

Using the Input Panel

When you start an application or select a field that requires text, symbols, or numbers, the Input Panel icon appears on the menu bar. The Input Panel allows you to select various input methods available on your device including: Block Recognizer, Keyboard, Letter Recognizer, and Transcriber.

Using the Block Recognizer

The Block Recognizer allows you to use a single stroke to write letters, numbers, symbols, or punctuations, which are converted into typed text.

To use the Block Recognizer:

1. In an application, tap the Input Panel arrow, then tap **Block Recognizer**.
2. Write letters, numbers, symbols, or punctuations in the designated writing area.



- Write letters on the **abc** (left) area of the box.
- Write numbers on the **123** (right) area of the box.
- Tap the special symbols button to key in symbols, punctuations and other special characters.
- Tap Help “?” button for help on how to write characters.

Using the on-screen keyboard

With the on-screen keyboard, you can key in text, symbols, numbers, or other special characters when input is possible.

To input text using the on-screen keyboard:

1. In an application, tap the Input Panel arrow, then tap **Keyboard**.
2. Key in text by tapping keys on the on-screen keyboard.



Input panel

Using the Letter Recognizer

With the Letter Recognizer you can write individual letters, numbers, or special characters, which are converted into typed text.

To use the Letter Recognizer:

1. In an application, tap the Input Panel arrow, then tap **Letter Recognizer**.
2. Write letters, numbers, symbols, or punctuations in the designated writing area.
 - Write capital letters on the **ABC** (left) area of the box.
 - Write lower case letters on the **abc** (middle) area of the box.
 - Write numbers on the **123** (right) area of the box.
 - Tap the special symbols button to key in symbols, punctuations and other special characters.
 - Tap Help "?" button for help on how to write characters.



Tap for special characters

Input panel

Using the Transcriber

Transcriber is a handwriting recognition program that allows you to write in cursive, print, or mixed styles. It reliably recognizes not only written text but also numbers and symbols. Make sure to write legibly. See Help for more information on the Transcriber.

To use the Transcriber:

1. Start an application that accepts user input, such as Notes or Word Mobile.
2. Tap the Input Panel arrow, then tap **Transcriber**.

To write using Transcriber (using Notes):

1. Tap screen to position the cursor where you want the text to appear.
2. Use the stylus to write on the screen. The handwriting will be converted to text after you lift the stylus from the screen.

To edit text:

1. Draw a line across the text you want to edit. After you lift the stylus from the screen, the line will disappear and the selected text will be highlighted.
2. You can now rewrite the text or use the Transcriber gestures to edit your selected text. See Help  for the Transcriber gestures.



Input panel

Tap for Help

Writing and drawing on the screen

You can write or draw directly on the screen and save notes in your own handwriting. If you prefer to use your own handwriting or use drawings in your notes, set the default input mode to **Writing**. If you prefer text, set the default mode to **Typing**.

To set the default input mode for Notes:

1. Tap **Start > Programs > Notes**.
2. From the Notes list, tap **Menu > Options**.
3. In the **Default mode:** box, tap the down arrow and select any of the following:
 - **Writing** - if you want to draw or enter handwritten text in a note.
 - **Typing** - if you want to create a typed note.
4. Set the other options according to your preference.
5. Tap **ok** when finished.

To write a note:

1. Tap **Start > Programs > Notes**.
2. From the Notes list, tap **New**.
3. Write your text on the screen.
4. When finished, tap **ok** to return to the Notes list.

Create a voice recording

You can record sound, voice, or add a recording to a note using your device.

To create a voice recording using Notes:

1. Tap **Start > Programs > Notes**.
2. From the Notes list, tap **New**.
3. If you do not see the recording toolbar, tap **Menu > View Recording Toolbar**.
4. Tap the record icon to begin recording.
5. Place the receiver near your mouth or source of sound.
6. Tap the stop icon when finished recording. A recording icon appears on the note.
7. Tap **ok**.



To add a recording to a saved note:

1. Tap **Start > Programs > Notes**.
2. From the Notes list, tap to open a saved note.
3. If you do not see the recording toolbar, tap **Menu > View Recording Toolbar**.
4. Tap the record icon to begin recording.
5. Place the receiver near your mouth or source of sound.
6. Tap the stop icon when finished recording. A recording icon appears on the note.
7. Tap **ok**.

Using ActiveSync™

ActiveSync™ allows you to synchronize data in your device with data in your computer. ActiveSync can also synchronize over a wireless or cellular network with Microsoft Exchange Server, provided that your cellular phone service or company is running Microsoft Exchange Server with Exchange ActiveSync. When synchronized directly with Exchange Server, you can stay up to date even when your PC is turned off.

During synchronization, ActiveSync compares the data in your device with the data in your computer or Exchange Server, and updates all data with recent changes.

You can select and synchronize data in the following locations using ActiveSync:

- Contacts
- Calendar
- Email
- Tasks
- Notes
- Favorites
- Files
- Media

You can also exchange data between your computer and device without synchronizing.

ActiveSync is already installed in your device, but before you can synchronize data with your computer, you must first install ActiveSync in your computer. Install ActiveSync from the Microsoft companion CD that came with your device package.

After you have installed ActiveSync, set up a sync relationship between your device and your computer. ActiveSync recognizes your device and automatically transfers the synchronization settings you have in your device.

If you wish to synchronize your device with Exchange Server through your company or service provider, obtain the name of the Exchange Server, user name, password, and domain name from your network administrator before starting the Sync Setup Wizard.

To install and configure ActiveSync in your computer:

1. Insert the Microsoft companion CD that came with your device package.
2. Follow succeeding screen instructions.
3. After the setup is complete, the Sync Setup Wizard automatically starts when you connect your device to your computer. Follow screen instructions to complete the wizard.
4. From the Sync Setup Wizard, you can:
 - Configure an Exchange Server connection to synchronize directly with an Exchange Server. Acquire from your network administrator the required parameters for input.
 - Create a synchronization relationship between your computer and your device.
5. Select the information type that you want to synchronize.
6. After you finish the wizard, ActiveSync automatically synchronizes your device. You can disconnect the device after the synchronization is complete.

NOTE:

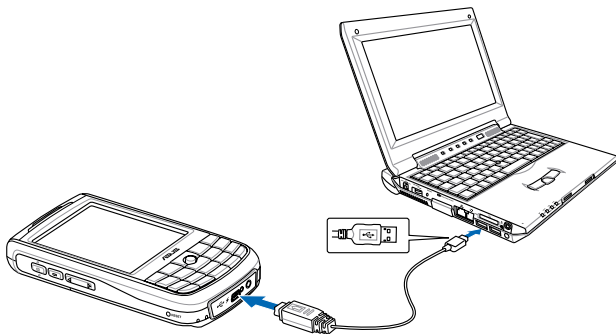
- When connected, your device is automatically synchronized with your computer. ActiveSync synchronizes everytime you make a change on either the device or computer.
 - You cannot use WLAN to synchronize database.
 - Refer to your Windows® Mobile Help, for more information about ActiveSync synchronization.
-

Synchronizing via USB

You can connect to your device using the bundled USB cable to synchronize to your computer.

To synchronize your device via USB:

1. After installing ActiveSync to your computer, connect the USB plug to the mini-USB connector at the bottom of the device.
2. Connect the other end of the USB cable to your computer. Upon connection, ActiveSync automatically synchronizes your device.



Synchronizing via Bluetooth

You can connect your device to your computer using the Bluetooth wireless technology.

To synchronize your device via Bluetooth:

1. Configure Bluetooth in your computer to support ActiveSync. Refer to the ActiveSync Help in your computer for instructions.
2. Turn on Bluetooth in your device. See “Using Bluetooth” section in Chapter 4 for details.
3. On your device, tap **Start > Programs > ActiveSync**.
4. From the ActiveSync screen, tap **Menu > Connect via Bluetooth**. Make sure your device is within Bluetooth range with your computer.

If this is the first time you connect to this computer via Bluetooth, perform the Bluetooth wizard in your device and setup a Bluetooth partnership between your device and computer. Refer to Chapter 4 for Bluetooth wireless connection settings.

Synchronizing via Infrared (IR)

You can connect your device to your computer using the built-in Infrared port.

To synchronize your device via Infrared (IR):

1. Configure ActiveSync in your computer to receive infrared beams. Refer to the ActiveSync Help in your computer for instructions.
2. On your device, tap **Start > Programs > ActiveSync**.
3. From the ActiveSync, tap **Menu > Connect via IR**. Make sure that the IR port in your device is lined-up and in close range with the IR port of the computer.
4. Tap **Sync**.

Synchronizing with Exchange Server

To synchronize your device with Exchange Server:

1. From the ActiveSync menu, tap **Menu > Add Server Source**.

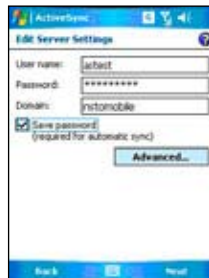


2. In the Server Address field, input the name of the server running Exchange Server then tap **Next**.

If necessary, tap the check box **This server requires an encrypted (SSL) connection**.



3. Input your name, password, and domain then tap **Next**.



4. Tap the check boxes to select the data items that you want to synchronize with Exchange Server. To change the available synchronization settings, select a data item then tap **Settings**. Tap **Finish** when done.



5. Start the sync process.



Setting the synchronization schedule

To set the synchronization with Exchange Server:

1. From the ActiveSync screen, tap **Menu > Schedule**.



2. Refer to the table for input details.



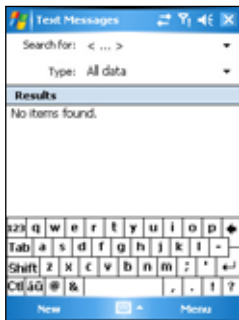
Volume	Recommended setup
High	Select a shorter interval in the Peak times list.
Low	Select As items arrive option or a longer interval in the Off-peak times list.
While roaming	Check Use above settings while roaming .
Sending messages	Tap to check Send outgoing items immediately .

Searching information

Using the search tool, you can search for files and other items stored in your device or the external MiniSD card. You can search by file name or by words located in various applications including the Calendar, Contacts, Excel Mobile, Word Mobile, Outlook Mobile, Help, Messages, Notes, and Tasks. You can also filter your search to files larger than 64 KB.

To search for a file or an item:

1. Tap **Start > Programs > Search**.
2. In **Search for**, input the file name, word, or other information you want to search.
3. In **Type**, select the data type to help you filter your search.
4. Tap **Search**. Found items are listed in Results.
5. In the Results list, tap the item for which you need information.



Getting Help

You can easily find Help for using any program on the device.

To get help for a program:

- From the Today screen or program, tap **Start > Help**.

A page will open with links to topics that explain how to use the program.



Chapter



Phone features

- Using the phone
- Making a call
- Receiving a call

Using phone

Like a standard cellular phone, you can use your MarsII to make and receive calls. You can also keep a history of calls made and received, send SMS or MMS messages, take notes while talking, call from Contacts, and copy SIM card contacts to your device.

Phone pad

The phone pad allows you to easily dial and access the Contacts, Call History, Speed Dial, and Phone settings. To launch the Phone pad, do any of the following:

- Tap **Start > Phone**.
- Press the talk  button.
- Directly dial the phone number you want to call using the numeric key pad.
- From the Today screen, press the left soft key.

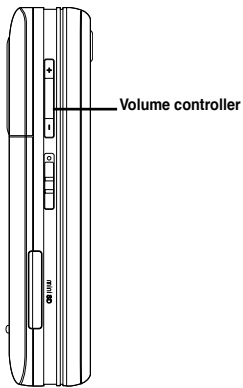
Adjusting the device volume

To adjust the device volume:

1. Tap the speaker icon.
2. From the volume menu, you can:
 - Adjust the phone volume or device volume by moving the slider to the desired volume level.
 - Tap **On**, **Vibrate**, or **Off** to change the system and ringer volume settings.



You can also adjust the device volume by pressing the volume controller keys at the left side of the device.



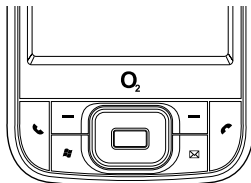
Making a call

You can make a phone call using either the key pad or phone pad. You can also make calls directly from the Contacts, Call History, Speed Dial, or Voice Commander.

Using the keypad

To make a call using the keypad:

1. Enter the number of the party you wish to call, then press .
2. Talk to the called party when connected.
3. When finished, press  to end the call.



Using the phone pad

To make a call using the phone pad:

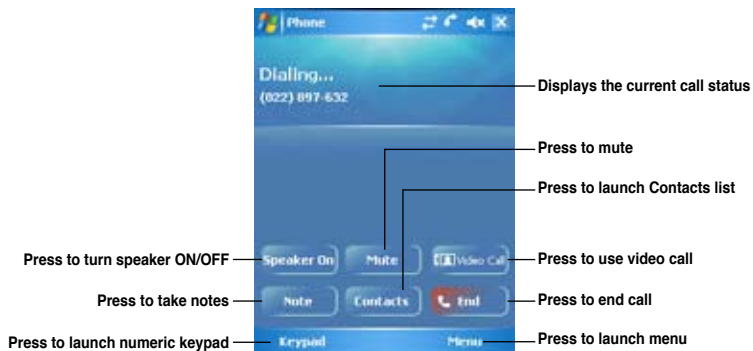
1. Tap **Start > Phone**.
2. From the phone screen, tap the number of the party you want to call then tap .
- If you tap the wrong number, tap the back arrow to erase number to the left.
3. Talk to the called party when connected.
4. When finished, tap  to end the call.



Back arrow

Talk button

Phone pad features



Making calls from Contacts

To make a call directly from Contacts:

1. Tap **Start > Phone**.
2. From the Phone pad, tap **Contacts** or press the Left soft key.
You can also launch Contacts from the Today screen by tapping **Contacts** on the menu bar or pressing the Right soft key.
3. You can do any of the following to make a call:
 - Tap to select a contact, then from the Contacts list, tap **Call**.
 - Tap to select a contact, then press talk  button.
 - Select a contact then press the talk  button twice. Once to send the number to the Phone pad, and once to dial the number.
 - You can also tap and hold the contact, and on the shortcut menu tap **Call**.

Making calls from Call History

- To make a call from the call history:
 1. Tap **Start > Phone**.
 2. On the Phone pad, tap the **Call History** button.
 3. Scroll to the desired contact or phone number, and tap **Call**.
To look for more numbers in other categories, tap **Menu > Filter** and tap a category.
- You can also launch Call History in the Today screen by pressing the left soft key.



Call History button

Using the Speed Dial

With Speed Dial you can call frequently dialled numbers in a single tap. For example, if you assign a contact to the number 2 button in Speed Dial, you can simply tap and hold  on the Phone pad to dial the contact's number.

To create a Speed Dial entry:

1. Make sure that entry you want to create is already in the Contacts.
2. Tap **Start > Phone**.
2. On the Phone pad, tap the **Speed Dial** button.
3. Tap **Menu > New**.
4. Tap a contact from the list then tap **Select**.
5. In the **Location** box, select an available location for the new speed dial then tap **OK**.

To create a Speed Dial entry from Contacts:

1. From the Contacts list, tap and hold a contact name.
2. On the shortcut menu, tap **Add to Speed Dial**.
3. Select an available location for the new Speed Dial.

To delete a Speed Dial entry:

- In the Speed Dial list, tap and hold the desired entry and tap **Delete**.

Receiving a call

When you receive a call, a message will appear, giving you the option to answer or ignore the incoming call.

To answer or reject an incoming call:

- To answer a call tap **Answer**, or press .
- To reject an incoming call, tap **Ignore**, or press .

TIP:

Long press  to switch receiver to speakerphone mode..

The following pop-up screen appears during an incoming call:

- Tap **Answer** to receive call or
- Tap **Ignore** to dismiss call.



To terminate a call:

- Tap **End** or press  on the device to terminate an incoming or outgoing call in progress.

Chapter



Wireless features

- Using Bluetooth®
- Using WLAN (IEEE 802.11b)
- Using Infrared (IR)
- Setting a GPRS connection

Using Bluetooth®

Overview

Bluetooth® is a short-range wireless communications technology that allows devices with Bluetooth capabilities to exchange data within a radius of about 10 meters (30 feet) without requiring a physical connection.

With Bluetooth enabled in your device, you can:

- Connect and communicate (i.e. beam files, tasks, contacts) with other devices with Bluetooth features.
- Use Bluetooth service. After you connect to another device or computer using Bluetooth, you can use the services available on that device.

Activating Bluetooth in your device

To activate (turn ON) Bluetooth in your device:

1. Tap **Start > Settings > Connections** tab then tap the **Bluetooth** icon.
2. From the Bluetooth screen, tap **General** tab.
3. Tap **Turn on** button. The Bluetooth status is displayed above the **Turn on/Turn off** buttons.

You can also turn Bluetooth On or Off from the Today screen.

To do this:

1. Find the Bluetooth icon  at the bottom right corner of the Today screen.
2. Tap  to display shortcut menu then tap **Turn Bluetooth ON**.

The Bluetooth icon changes to  if Bluetooth is turned Off.

Configuring Bluetooth

To configure Bluetooth in your device:

1. **Start > Settings > Connections** tab then tap the **Bluetooth** icon.
2. From the Bluetooth screen, you can access the following tabs:
 - **General** - allows you to set the user profile, turn Bluetooth on or off, displays the Bluetooth status, and provides a link to the Bluetooth Manager.
 - **Accessibility** - allows you to set the device name, see the Bluetooth Device Address, select remote device you want to connect, and set whether to allow remote devices to detect your device.
 - **Services** - enable or disable available Bluetooth services, require authorization, set authentication passkey, and set to require encryption. You can also access advanced settings from this tab.

The available service settings are enabled when you select a Bluetooth service. Select a service from the list to establish its settings.

Bluetooth Service	Description
File Transfer	Set the highest level directory on your device that remote devices can access.
Information Exchange	Sets the default business card.
Serial Port	Displays the port addresses. This cannot be changed.
Personal Network Server	Allows you to customise the service settings for your personal network server.
Hands Free	Enable telephone and/or audio profile.
Dial-up Networking Server	Allows you to enable or authenticate, or both, the connections to the dial-up network server.

NOTES:

The Bluetooth device setup instructions provided in this section may differ with other Bluetooth devices. If the instructions in this guide differs from the documentation that came with your Bluetooth-enabled device, follow the latter.

Using a Bluetooth-enabled headset

Mono headset setup

1. Make sure that Bluetooth is enabled on your device.
2. Tap  on the Today screen then on the shortcut menu tap **Bluetooth Manager**.
3. From the Bluetooth Manager, tap **New**.
4. From the Bluetooth Connection Wizard, tap **Hands-free/Headset** setup then tap **Next**.



5. Make sure that your headset device is in pairing mode and ready to receive incoming connection requests then tap **Next**.
6. Tap the name of your Bluetooth-enabled headset device then tap **Next**.



7. In Passkey, input the alphanumeric passkey of your headset device then tap **ok**. You can find this in the documentation that came with your headset device.
8. Tap **Finish**. You are now ready to use your headset device.



NOTES:

If the connection between the device and a Bluetooth headset fails, press the device icon then choose "Re-connection", you do not have to pair the devices again

Stereo headset setup

MarsII supports A2DP (Advanced Audio Distribution Profile), which is used by Bluetooth-enabled stereo headsets. Make sure that your stereo headset also supports A2DP.

1. Tap  on the Today screen then on the shortcut menu tap **Bluetooth Manager**.
2. From the Bluetooth manager screen, tap **New** then select **High Quality Audio Setup**.
3. Make sure that your stereo headset device is in pairing mode and ready to receive incoming connection requests then tap **Next**.
4. Tap the name of your stereo headset device then tap **Next**.
 - If you want to create a shortcut, tap the check box **Create a shortcut for this connection** then input a connection name.
 - If you want to use a secure connections, tap the check box to **Use a secure, encrypted connection**.



5. Tap **Finish** to initiate connection.

NOTES:

- To answer a phone call using your stereo headset, make sure that you have mono and stereo connection at the same time.
- To use voice commander while using a headset, press the answer button on the headset then follow given instructions.



Using a Bluetooth-enabled GPS

To configure a Bluetooth-enabled GPS device:

1. Make sure that Bluetooth is enable on your device.
2. Tap  on the Today screen then on the shortcut menu tap **Bluetooth Manager**.
3. From the Bluetooth Manager, tap **New**.
4. Make sure that your GPS device is in pairing mode and ready to receive incoming connection requests.
5. From the Connection Wizard, tap **Explore a Bluetooth device** then tap **Next**.

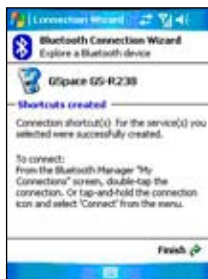


6. Tap the name of your Bluetooth-enabled GPS device then tap **Next**.
7. Select **SPP Slave** in the Service Selection list then tap **Next**.

8. Tap **Finish**.

9. Tap and hold the shortcut icon to display shortcut menu then tap **Connect**.

10. In Passkey, input the alphanumeric passkey of your headset device then tap **OK**. You can find this in the documentation that came with your headset device.



Using WLAN (IEEE 802.11b)

Introduction

WLAN (IEEE 802.11b), refers to certain types of wireless local area network (WLAN) that use specifications in the 802.11 family. Created by the Wi-Fi Alliance, a nonprofit international association to certify interoperability of wireless local area network products. Any device tested and approved by the Wi-Fi Alliance are certified as interoperable with each other even if they are from different manufacturers.

Activating WLAN in your device

To activate WLAN in your device:

1. Tap **Start > Settings > Connections** tab then tap the **Wi-Fi Manager** icon.
2. From the Wi-Fi Manager screen, tap **Menu** then **Turn Wi-Fi On**.

NOTE:

- When WLAN is used simultaneously with the GPRS, the latter will get signal priority. We recommend not to use WLAN and GPRS at the same time.
 - We recommend not to use WLAN and the Bluetooth function at the same time. Disturbance in data transmission is possible since both use the same wireless channel.
 - The WLAN and USB connections can not be used at the same time.
 - When the battery power is less than 20% the device prompts a warning message whether to continue using WiFi or not. Tap "Yes" to continue using or "No" to disconnect. In any case, we recommend that you plug the power adapter immediately to avoid losing data.
-

Configuring WLAN

To configure WLAN in your device:

1. **Start > Settings > Connections** tab then tap the **Wi-Fi Manager** icon.
2. From the Wi-Fi Manager screen, you can access the following tabs:
 - **Wi-Fi Status**
 - **Setting**
 - **IP Info**
 - **Site Survey**

NOTE:

Tap ? for Wi-Fi Help.

Wi-Fi Status

Displays the Wi-Fi status, ESSID, BSSID, BSS mode, channel, data rate, IP Address, and signal strength.



Setting

Allows you to set the Adhoc channel, preamble, data rate, enable or disable power save feature, set power strength, and enable or disable auto power off feature.



NOTE:

The Power Save feature reduces data transmission rate but improves the battery life.

IP Info

Displays the network information and allows you to renew or ping a network connection.



Site Survey

Shows the available wireless networks in the area.



Using Infrared (IR)

You can use your device to connect to another device with infrared capabilities.

To connect to another device via infrared:

1. Setup the device you want to connect to receive infrared beams. Refer to the technical documentation that came with the device.
2. Configure your device to receive infrared beams. Tap **Start** > **Settings** > **Connections** tab then tap **Beam** icon.
3. Tap to check **Receive all incoming beams**.
4. Tap **ok**.
5. Line up the infrared ports of both devices. Make sure that they are unobstructed and within range.
6. Send data from the source device. Upon connection, your device prompts that data is being received. Tap **Cancel** if you want to stop transfer.
7. When finished, tap **Yes** to accept and save data or tap **No** to discard data.

Setting a GPRS connection

Your MarsII allows you to connect via General Packet Radio Service (GPRS). GPRS is a wireless communication standard that runs at speeds of up to 115 kbps, compared to 9.6 kbps of the current Global System for Mobile Communications (GSM). It supports a wide range of bandwidths that allows sending and receiving small bursts of data, such as email and web browsing. To set a GPRS connection in your device:

1. From the Start menu, tap **Settings**.



2. From the Settings screen, select the Connections tab then tap **Connections** icon.



4. From the Connections screen, tap **Add a new model connection**.



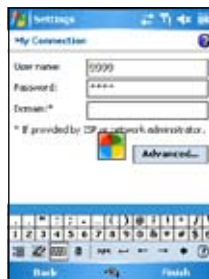
5. Input a unique name for the connection then select **Cellular Line (GPRS)** from the modem list.



6. Input the Access point name.



7. Input your user name, password, and domain then tap **Finish**. Contact your network administrator for assistance.



NOTE:

The GPRS and USB connections can not be used at the same time.

Connecting GPRS

To connect GPRS:

1. Tap **Start > Settings > Connections** tab then tap **Connections** icon.
2. From the Connections screen, tap **Manage existing connections**.



3. Tap and hold on an existing connection then from the pop-up menu tap **Connect**.

Tap **Delete** if you want to delete selected connection setting.

4. When connected, tap **ok** to exit.



If you have set a default GPRS connection, it automatically connects when you launch an application that connects to the Internet.

1. Launch any application that connects to the Internet (e.g. Internet Explorer).

The device will automatically connect to your default GPRS connection. A pop-up callout appears to display the connection status.

2. When connected, you can start browsing the Internet. If you're using Internet Explorer, the default site will be displayed.



Pop-up callout

To disconnect GPRS:

1. From the pop-up callout, tap **Disconnect**.
2. Tap **ok** to exit.

NOTE:

- If your ActiveSync is set to sync with Exchange Server automatically, synchronization will occur after you connect again.
- GPRS will automatically reconnect everytime you launch an application that requires GPRS connection (e.g. Internet Explorer, Pocket MSN).



Chapter



Multimedia features

- Using the camera
- Viewing pictures and video

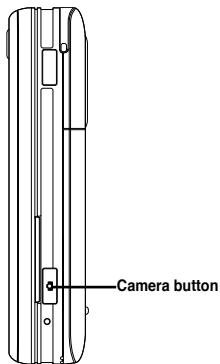
Using the camera

The built-in two-megapixel camera allows you to take photos and record audio/video clips.

Launching the camera

To start using the camera:

- Tap **Start > Programs > Pictures and Videos > Camera** icon or
- Press the Camera button on the left side of your device.



NOTE:

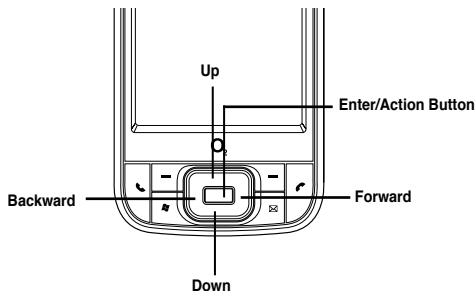
- By default, the preview screen is set to landscape.
 - After launching the camera, your device is set to camera mode by default.
 - In camera mode, the camera button function as shutter button.
-

To exit the Camera:

- Tap the exit  icon.

Joystick functions in camera mode

The following describes the 5-way joystick functions in Camera mode:



Up	In camera preview mode, press for video mode. In the camera or video option menu, press to select menu items.
Down	In video preview mode, press for camera mode. In the video or camera options menu, press to select menu items.
Backward	In camera mode and if the resolution is not 1600x1200, press to zoom in.
Forward	In camera mode and if the resolution is not 1600x1200, press to zoom out.
Enter/Action button	Press to take picture or start recording video. Press again to stop recording. Press to execute a selected menu item or to display more menu items.

Available capture modes

Your device camera can be set to two capture modes:

- **Camera mode** - Camera mode allows you to take photos, and save them to your device or MiniSD. You can also configure the camera to match an environment, set picture size, select magnification, adjust the picture quality, apply effects, and modify other advanced settings.
- **Video mode** - Video mode enables you to record audio/video clips. Like in camera mode, it also allows you to select the magnification, set the video size, enable macro mode, apply some effects, select target storage, and modify advanced video settings.

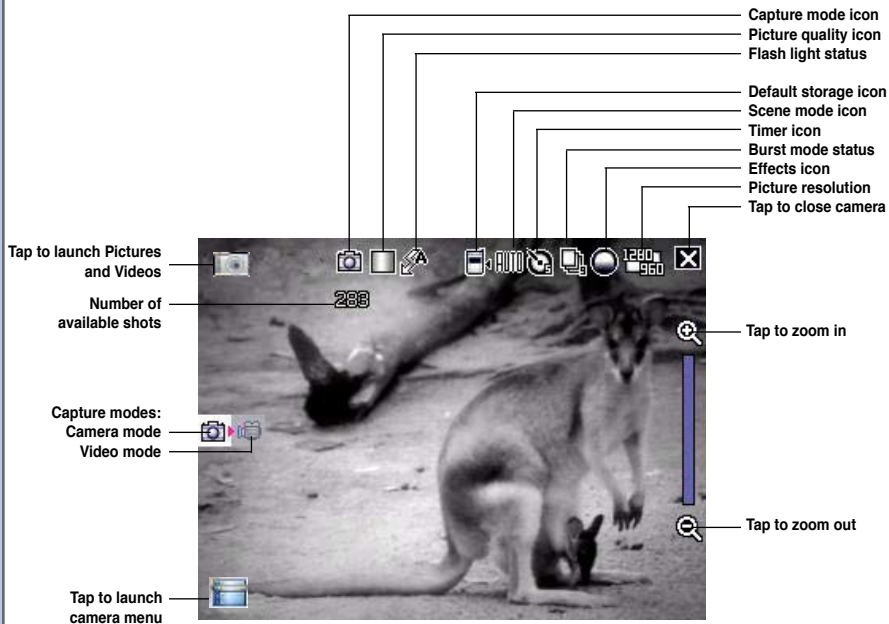
Supported formats

Using the camera mode or video mode, the images or video clip captured are stored in the following formats:

- **Still image (Camera mode)** - JPEG (.jpg)
- **Video (Video mode)** - 3GP (.3gp), MPEG-4 (.mp4)

Camera mode screen

The following describes the screen icons in Camera mode:



Camera mode icons

- **Capture mode icon** [ / ] - indicates the current capture mode.
- **Picture quality icon** [ /  / ] - indicates the picture quality used.
- **Flash light status icon** [ /  / ] - indicates the camera flash status.
- **Default storage icon** [ / ] - indicates default storage for captured images and videos clips.
- **Scene mode icon** [ /  / ] - indicates the scene mode used.
- **Timer icon** [ / ] - when the camera timer is enabled (5 seconds or 10 seconds), the corresponding timer icon appears. When you press the shutter button or the joystick to take a picture, the count down begins and picture is taken after the time set.
- **Burst mode icon** [ / ] - indicates the number of frames in burst mode.
- **Effects icon** [ /  /  / ] - indicates the effects used.
- **Picture resolution** [ /  /  /  /  / ] - shows the resolution used. When set to 1600x1200 resolution, the zoom in/zoom out function is disabled.
- **Exit icon** [] - tap to exit camera.
- **Zoom In** [] - tap to zoom in view of subject on screen.
- **Zoom Out** [] - tap to zoom out view of subject on screen.
- **Thumbnails** [] - tap to launch Pictures and Video application and preview your images in thumbnails.
- **Menu** [] - tap to launch camera menu options.
- **Delete** [] - tap to delete picture.
- **Remaining shots information** - shows the remaining, available shots of pictures based on the current settings.

Camera options menu

The camera options menu allows you to change various camera and picture settings.

To launch options menu:

1. Tap **Menu** icon from the camera screen.

NOTE:

The screens in this section may not be exactly the same as what are displayed on your screen and they are only for your reference.



2. From the shortcut menu, tap an icon to display contents.



Camera options
shortcut menu

Change Mode

The Change Mode option allows you to set capture mode into Camera or Video mode.



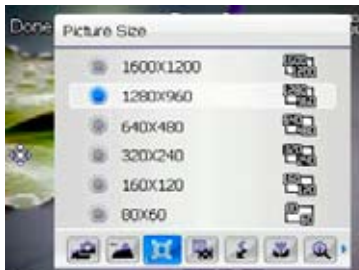
Scene

The Scene option allows you to select presets appropriate for a night scene or sports event. Select Auto to use best setting for any scene.



Picture Size

Allows you to set the frame size of picture.



Picture Quality

This option provides three picture quality presets: Normal, Fine, and Super Fine. The picture quality is set to Super Fine by default.



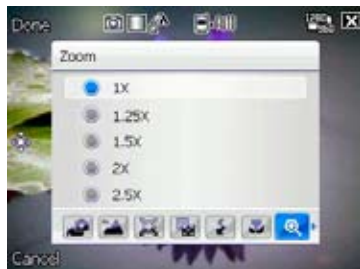
Flash Mode

This option allows you to change the flash mode to suit a variety of lighting situations.



Zoom

Allows you to change the maximum magnification allowed.



Self-Timer

Sets the delay of shutter release to 5 or 10 seconds after you have pressed the camera/shutter button..



Burst

Allows you to take 4 or 9 pictures in succession by pressing the camera/shutter button only once.



Frame

Allows you to set a frame.



Effect

The Effect option allows you to apply some effects to the subject. Select from the following configuration options: **Black-White**, **Negative**, and **Sepia**. Set to **Normal** for no effect.



Save to

Allows you to select the default storage for captured pictures.

NOTE:

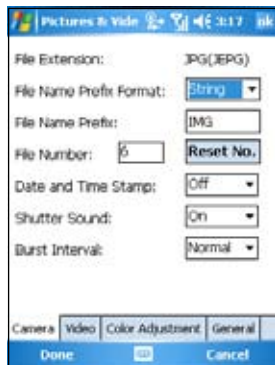
Prepare a MiniSD card before setting default storage to **Storage Card**.



Advanced

This option allows you to set the following:

- Filename prefix format
- Filename prefix
- File number
- Date and time stamp
- Shutter sound
- Burst interval



Taking photos

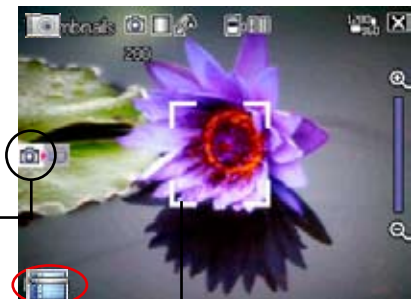
After launching the camera, your device is set to Camera mode by default. If set otherwise, tap **Menu > Change Mode > Camera Mode** then tap **Done**.

You can also set to camera mode by tapping the camera mode icon on the screen.

To take a photo:

1. Aim device to your subject then half-press camera/shutter button to auto-focus on subject.
While camera/shutter button is half-pressed, you can see the auto-focus frame on the center of the screen. The frame turns green indicating the auto-focus is finished.

Camera mode icon



Auto-focus frame

IMPORTANT:

The auto-focus range is effective only at 8~80 cm, if you want to skip this feature, press the joystick action button to take a picture.

2. Full-press the camera/shutter button or press the joystick action button to capture image.
3. Tap **Camera** or press the joystick action button again to go back to camera screen.
4. Repeat steps 1 to 3 to take more photos.

NOTE:

The image is automatically saved to the default storage location and can be previewed using the Pictures and Videos application.



Other options

Tap **Menu** to access the following options:

- Save to Contact
- Send via MMS
- Send via e-mail
- Send via BCR



Save to Contact

To save to contacts:

1. Tap **Menu** then tap **Save to contact**.
2. From the Contact screen, select contact where you want the image saved then tap **Select**.



Send via MMS

To send image via MMS:

1. Tap **Menu** then tap **Send via MMS**.
2. Key in recipient or tap **To** to display contact list.
3. Key in subject.
4. Tap **Send**.



Send via Email

To send image via electronic mail:

1. Tap **Menu** then tap **Send via E-mail**.
2. Key in recipient or tap **To** to display contact list.
3. Key in subject.
4. Key in message.
5. Tap **Send**.



Delete image

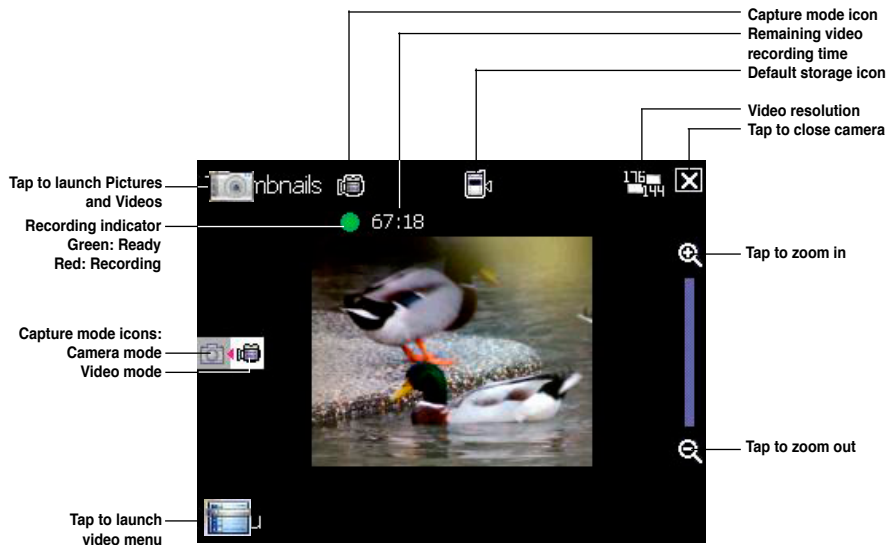
To delete image:

1. Tap **Delete** icon.
2. Tap **OK** from the confirmation message.



Video mode screen

The following describes the screen icons in Video mode:



Video mode icons

- **Capture mode icon** [ / ] - indicates the current capture mode.
- **Flash light status icon** [] - this icon appears when the flash light is enabled.
- **Default storage icon** [ / ] - indicates default storage for captured video clips.
- **Effects icon** [ /  /  / ] - indicates the effects used.
- **Picture resolution** [ /  / ] - shows the resolution used.
- **Exit icon** [] - tap to exit video.
- **Zoom In** [] - tap to zoom in view of subject on screen.
- **Zoom Out** [] - tap to zoom out view of subject on screen.
- **Thumbnails** [] - tap to launch Pictures and Video application and play your video.
- **Menu** [] - tap to launch video menu options.
- **Delete** [] - tap to delete video.
- **Remaining video recording time information** - shows the remaining, video recording time based on the current settings.

Video options menu

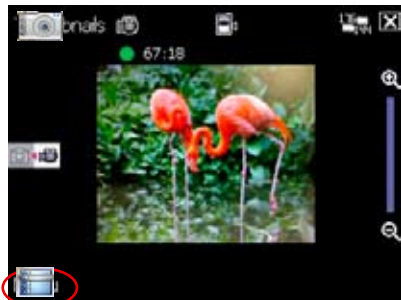
The video options menu allows you to change various video and playback settings.

To launch video options menu:

1. Tap **Menu** from the video screen.

NOTE:

The screens in this section may not be exactly the same as what are displayed on your screen and they are only for your reference.



2. From the shortcut menu, tap an icon to display contents.



Video options
shortcut menu

Change Mode

The Change Mode option allows you to set your device into Camera or Video capture mode.



Zoom

Allows you to change the maximum magnification allowed.



Video Size

Allows you to set the frame size of video.



Flash Mode

This option allows you to change the flash mode to suit a variety of lighting situations.



Save to

Allows you to select the default storage location for captured pictures.

NOTE:

Prepare a MiniSD card before setting default storage to **Storage Card**.



Effect

The Effect option allows you to apply some effects to the subject. Select from the following configuration options: **Black-White**, **Negative**, and **Sepia**. Set to **Normal** for no effect.



Tap to display more options

Advanced

This option allows you to set the following:

- Video filetype
- Filename prefix format
- Filename prefix
- File number
- Enable or disable audio when recording



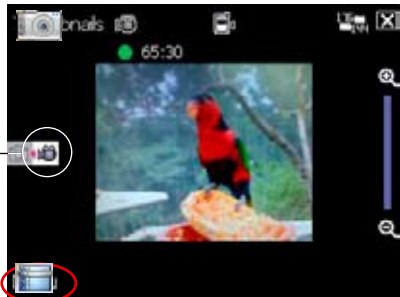
Recording videos

Set the device to video capture mode to record videos.

To set video mode:

- Tap **Menu > Change Mode > Video Mode** then tap **Done**.
- You can also set the video mode by tapping the video mode icon on the screen as shown.

Video mode icon



To record video:

1. Aim device to your subject then half-press camera/shutter button to auto-focus on subject. While camera/shutter button is half-pressed, the auto-focus frame appears on the center of the screen.

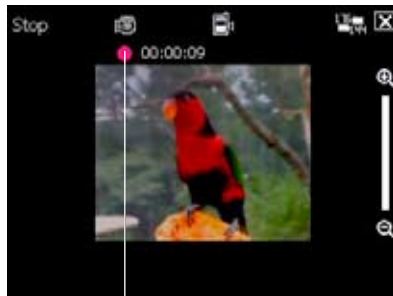


Auto-focus frame

2. Full-press the camera/shutter button to begin recording.

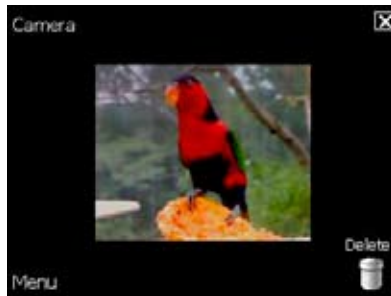
The record indicator turns from green to red while video is recording.

3. Full-press the camera/shutter button again to stop recording.



Record indicator

4. Tap **Camera** to go back to camera screen.
5. Repeat steps 1 to 4 to record another video.



NOTE:

- The video clip is automatically saved to the default storage location.
 - Use Windows Media Player Mobile to playback video clip in your device.
 - Use Apple® QuickTime™ player, if you wish to play video clips in your computer. You can download QuickTime™ installer from www.apple.com/quicktime.
-

Other options

Tap **Menu** to access the following options:

- Send via MMS
- Send via E-mail
- Play



Send via MMS

To send video via MMS:

1. Tap **Menu** then tap **Send via MMS**.
2. Key in recipient or tap **To** to display contact list.
3. Key in subject.
4. Tap **Send**.



Send via Email

To send video via electronic mail:

1. Tap **Menu** then tap **Send via E-mail**.
2. Key in recipient or tap **To** to display contact list.
3. Key in subject.
4. Key in message.
5. Tap **Send**.



Play

To play video:

1. Tap **Menu** then tap **Play**.
2. Tap **X** to exit.



Delete

To delete video:

1. Tap **Delete** icon.
2. Tap **OK** from the confirmation message.



Viewing pictures and video

Use the Pictures and Video Application to preview stored images and playback video clips.

Viewing pictures and video

To view pictures and video:

1. Tap **Start > Programs > Pictures and Videos**.
2. Tap the picture or video clip you want to see.
 - To view pictures or launch video clips stored in MiniSD card, tap the folder list (labeled **My Pictures**), and tap **MiniSD Card**.
 - To view pictures stored in **My Pictures** folder on your device, tap **My Pictures** then tap picture thumbnail.
 - To playback video clips in **My Videos** folder on your device, tap **My Videos** then tap video thumbnail.

Chapter



Device components Status

System information

The System Information contains important device information including the current device settings and version.

To launch the System Information:

1. Tap **Start > Settings > System > System Information** icon.
2. Tap the **Device Info** tab for device hardware information.
3. Tap **Version** tab to display the ROM, Boot, Radio, MP and Battery version.

Device Info

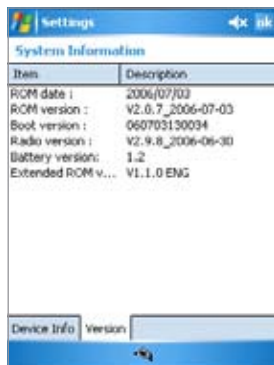


The screenshot shows the 'Device Info' tab selected. The table lists various hardware specifications.

Item	Description
Device name :	GM2
UUID :	AD000833-0300-0106-A800-0050BF7A6822
IMEI :	358881000090000
Flash size :	120 MB
RAM size :	64 MB
Screen resolution :	240 x 320
Color :	65536

At the bottom, the 'Device Info' tab is highlighted, and the 'Version' tab is also visible.

Version



The screenshot shows the 'Version' tab selected. The table lists software versions.

Item	Description
ROM date :	2006/07/03
ROM version :	V2.0.7_2006-07-03
Boot version :	060703130034
Radio version :	V2.9.8_2006-06-30
Battery version:	1.2
Extended ROM v...	V1.1.0 ENG

At the bottom, the 'Version' tab is highlighted, and the 'Device Info' tab is also visible.

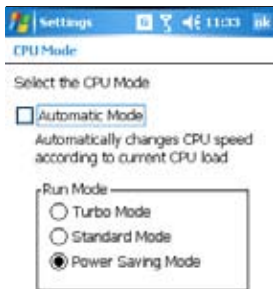
CPU mode setting

Allows you to select the CPU mode (Turbo, Standard, Power Saving).

To launch the CPU mode setting:

Tap **Start > Settings > System > CPU Mode** icon.

Tap to check **Automatic Mode** to automatically change the CPU speed according to the CPU loading.



USB setting

Allows you to set the USB connection mode.

To launch the USB setting:

Tap **Start > Settings > Connections > USB settings** icon.

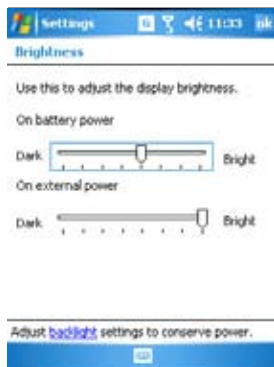


LCD Brightness

Adjusts the LCD brightness on battery power and external power.

To launch the LCD Brightness setting:

Tap **Start > Settings > System > Brightness** icon.

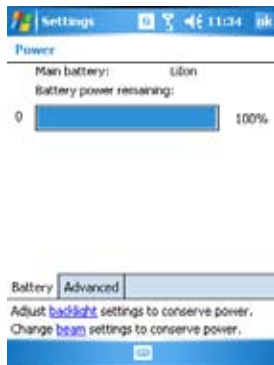


Power

Displays the battery power status.

To launch the Power setting:

Tap **Start > Settings > System > Power** icon.

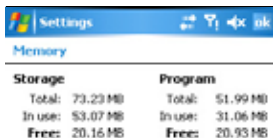


Memory

Displays the total, in use and free memory.

To launch the Memory setting:

Tap **Start > Settings > System > Memory** icon.

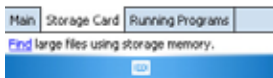
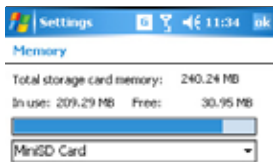


Storage card memory

Displays the total, in use, and available storage card memory.

To launch it:

Tap **Start > Settings > System > Memory > Storage Card** tab.



Programs running in memory

Allows you to activate or stop any program running on memory.

To launch it:

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

IMPORTANT:

When you exit a running program, you are actually only minimizing it and the program remains in the memory. You can stop these programs from running in the background using this option.

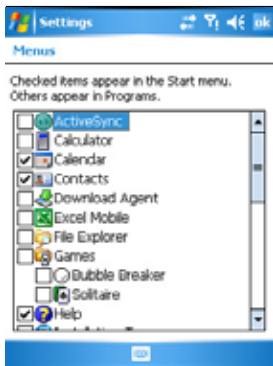


Settings

Allows you to select the items to display in the pop-up menu.

To launch it:

Tap **Start > Settings > Personal > Menus** icon.



Appendix

- **Notices**
- **Contact information**

Notices

Replaceable batteries

If an equipment is provided with a replaceable battery and if replacement by an incorrect type could result in an explosion (e.g. with some lithium batteries), the following applies:

- if the battery is placed in an OPERATOR ACCESS AREA, there shall be a marking close to the battery or a statement in both the operating and the servicing instructions;
- if the battery is placed elsewhere in the equipment, there shall be a marking close to the battery or a statement in the servicing instructions.

The marking or statement shall include the following or similar text:

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
THE INSTRUCTIONS

Operator access with a tool

If a TOOL is necessary to gain access to an OPERATOR ACCESS AREA, either all other compartments within that area containing a hazard shall be inaccessible to the OPERATOR by the use of the same TOOL, or such compartments shall be marked to discourage OPERATOR access.

An acceptable marking for an electric shock hazard is (ISO 3864, No. 5036).

Equipment for restricted access locations

For equipment intended only for installation in a RESTRICTED ACCESS LOCATION, the installation instructions shall contain a statement to this effect.

WARNING

The user needs to switch off the device when exposed to areas with potentially explosive atmospheres such as petrol stations, chemical storage depots and blasting operations.

For FCC□□

PCS Head: 0.369 mW/g□□

PCS Body: 1.01 mW/g□

WLAN Head: 0.00437 mW/g

WLAN Body: 0.00203 mW/g

□□□□

For DGT & CE □□□□

GSM Head: 0.166 mW/g□□

DCS Head: 0.223 mW/g□□

WCDMA Head: 0.215 mW/g□□

Declaration

Contact information

FCC Regulations:

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

●This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

► RF Exposure Information (SAR)

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

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

The highest SAR value for the device as reported to the FCC when tested for use at the ear is 0.369 W/kg for PCS Head SAR and 0.00437 W/kg for WLAN Head SAR and when worn on the body, as described in this user guide, is 1.01 W/kg for PCS Body SAR and 0.00203 W/kg for WLAN Body SAR. (Body-worn measurements differ among device models, depending upon available enhancements and FCC requirements.)

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

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID: MSQO2Z1.

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